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AD 2 VAID -5	03 OCT 2024	AD 2 VAJB 3-905	17 APR 2025	AD 2 VAJL 3-901	08 AUG 2024
AD 2 VAID -6	03 OCT 2024	AD 2 VAJJ -1	23 JAN 2025	AD 2 VAJL 3-902	08 AUG 2024
AD 2 VAID -7	03 OCT 2024	AD 2 VAJJ -2	06 OCT 2022	AD 2 VAJL 3-903	08 AUG 2024

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AD 2 VAJL 3-906	08 AUG 2024	AD 2 VAKS -5	08 AUG 2024	AD 2 VANM 1-309	27 NOV 2025
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AD 2 VEBN 3-901	16 JUL 2020	AD 2 VECC -3	11 JUN 2026	AD 2 VECC -54	23 JAN 2025
AD 2 VEBN 3-902	16 JUL 2020	AD 2 VECC -4	11 JUN 2026	AD 2 VECC -55	17 APR 2025
AD 2 VEBN 3-903	16 JUL 2020	AD 2 VECC -5	11 JUN 2026	AD 2 VECC -56	17 APR 2025
AD 2 VEBN 3-904	16 JUL 2020	AD 2 VECC -6	02 OCT 2025	AD 2 VECC -57	23 JAN 2025
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AD 2 VEBS -4	14 MAY 2026	AD 2 VECC -10	02 OCT 2025	AD 2 VECC -61	23 JAN 2025
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AD 2 VEBS -6	18 MAY 2023	AD 2 VECC -12	02 OCT 2025	AD 2 VECC -63	23 JAN 2025
AD 2 VEBS -7	18 MAY 2023	AD 2 VECC -13	02 OCT 2025	AD 2 VECC -64	23 JAN 2025
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AD 2 VECC 1-301	23 JAN 2025	AD 2 VECC 3-121	08 AUG 2024	AD 2 VECO -5	25 JAN 2024
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AD 2 VECC 1-303	23 JAN 2025	AD 2 VECC 3-124	08 AUG 2024	AD 2 VECO -7	02 OCT 2025
AD 2 VECC 1-601	02 OCT 2025	AD 2 VECC 3-125	08 AUG 2024	AD 2 VECO -8	25 JAN 2024
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AD 2 VECT 1-301	27 NOV 2025	AD 2 VEGK -5	02 NOV 2023	AD 2 VEGT 3-113	25 JAN 2024
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AD 2 VEDO 1-607	13 JUN 2024	AD 2 VEGT 1-608	22 JAN 2026	AD 2 VEHO -5	01 DEC 2022
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AD 2 VEDO 2-201	08 AUG 2024	AD 2 VEGT 2-107	17 APR 2025	AD 2 VEHO -7	01 DEC 2022
AD 2 VEDO 2-203	17 APR 2025	AD 2 VEGT 2-201	17 APR 2025	AD 2 VEHO -8	01 DEC 2022
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AD 2 VEJH -4	23 JAN 2025	AD 2 VEJS -13	18 MAY 2023	AD 2 VEKO -5	08 SEP 2022
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AD 2 VEJH -6	17 APR 2025	AD 2 VEJS -16	14 MAY 2026	AD 2 VEKO -7	08 SEP 2022
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AD 2 VEJH -8	23 JAN 2025	AD 2 VEJS 1-301	14 MAY 2026	AD 2 VEKO -9	22 JAN 2026
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AD 2 VEKO 3-904	19 MAY 2022	AD 2 VEMN -12	06 OCT 2022	AD 2 VEPT -9	11 JUN 2026
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AD 2 VELP 1-301	08 AUG 2024	AD 2 VEMR -4	11 JUN 2026	AD 2 VEPT -25	11 JUN 2026
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GEN 1.7 - DIFFERENCES FROM ICAO STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES

1. General

1.1 The Standards and Recommended Practices contained in the Annex to the Convention on International Civil Aviation are followed in India, subject to differences that may be filed from time to time.

1.2 The differences to Standards which effect aircraft operations and provision of facilities and services have been listed in this Section based on procedure laid down in DGCA India - ICAO Annex Management Manual.

1.3 The differences have been notified and validated on ICAO's Electronic Filing of Differences System (EFOD).

Annex Provision	Details of Differences
Annex I– Personnel Licensing [up to and including Amendment 178]	
2.1.10	India, in case of international commercial air transport operations with more than one pilot, allows only either of the pilots to be above the age of 60 years and up to the age of 65 years.
Annex 2 – Rules of the air [upto and including Amendment 47]	
3.1.5	Towing of Aircraft is not permitted.
3.1.6	Parachute descent not allowed in normal conditions.
3.1.8	Formations flights not permitted.
3.3.1.3	Submission of flight plan during flight not permitted.
3.9	For Airspace F and G in Altitude band 'At and below 900 m (3000 ft) AMSL, or 300 m (1000 ft) above terrain, whichever is the higher', flight visibilities reduced to not less than 3000 m may be permitted and HELICOPTERS may be permitted to operate upto 1 000 m flight visibility.
4.3	VFR flights shall be operated between 20 minutes before sunrise and 20 minutes after sunset.
4.4	Unless authorized by the appropriate ATS authority, VFR flights shall not be operated: a) above FL150. b) at transonic and supersonic speeds.
Annex 3 – Meteorological Services for International Air Navigation [upto and including Amendment 80]	
3.4.2	AIRMET is not provided.
4.6.5.1	Vertical visibility is not reported.
6.5.1	Area forecasts for aerodrome & 100nm issued for low level flights, but not as a GAMET forecast.
9.1.3	Para a) Information on upper air humidity not given. Para g) GAMET Area forecast and AIRMET not issued.
9.2.2	Information on humidity not given.
9.4.1	Information on upper air humidity not given.
Annex 4 – Aeronautical Charts [upto and inluding Amendment 61]	
Chapter 5	India does not prepare Aerodrome Terrain and Obstacle Chart – ICAO (Electronic)
Chapter 12	India does not prepare Visual Approach Chart - ICAO
Chapter 18	Aeronautical navigation chart- ICAO small scale is not being prepared.

Annex Provision	Details of Differences
Chapter 19	Plotting Chart- ICAO is not being prepared.
Annex 5 –Units of Measurement to be used in Air and Ground Operations [up to and including Amendment 17]	
	NIL
Annex 6 Part-I – Operation of Aircraft [up to and including Amendment 48]	
3.3.2	India requires Operators of an aeroplane of a maximum certificated take-off mass in excess of 5700 kg to establish and maintain a flight data analysis programme as part of their safety management system.
Annex 6 Part-II – Operation of Aircraft [up to and including Amendment 40]	
3.6.3.2.1.2	All aeroplanes of a maximum certificated mass of over 5700 Kg for which the individual certificate of airworthiness is first issued on or after 1st January 1987, are required to be equipped with a CVR.
3.6.9.2	All turbine-engined aeroplanes of a maximum certificated take off mass in excess of 15000 kg, or authorized to carry more than 30 passengers, for which the individual airworthiness certificate is first issued after 24th November 2005, are required to be equipped with an airborne collision avoidance system (ACAS II).
6.26.1	All turbine-engined aeroplanes of a maximum certificated take-off mass in excess of 5,700 KG, for which the individual certificate of airworthiness is first issued on or after 1 January 2027, shall be equipped with a runway overrun awareness and alerting system (ROAAS).
Annex 6 Part-III – Operation of Aircraft [up to and including Amendment 24]	
1.1.3	The report on any such violation shall be submitted within 48 hours.
1.1.6	The report on any such violation shall be submitted within 48 hours.
2.2.12	All helicopters on flights over water shall be certificated for ditching.
2.3.7.2	Refuelling with passengers on board, rotors stopped or turning, is not permitted, unless the operator is granted specific authorization by DGCA setting forth the conditions under which such refuelling may be carried out.
3.1.4	Performance class 3 operations on elevated heliports or helidecks only permitted for HEMS operations.
3.4.1	In class F & G airspace helicopters may be permitted to operate upto 1000 m flight visibility, if manoeuvred at a speed that will give adequate opportunity to observe other traffic or any obstacles in time to avoid collision.
3.4.2	In class F & G airspace helicopters may be permitted to operate upto 1000 m flight visibility, if manoeuvred at a speed that will give adequate opportunity to observe other traffic or any obstacles in time to avoid collision.
3.4.3	In class “F” & “G” airspace helicopters may be permitted to operate upto 1000 m flight visibility, if manoeuvred at a speed that will give adequate opportunity to observed other traffic or any obstacles in time to avoid collision.
Annex 7 - Aircraft Nationality and Registration Marks [up to and including Amendment 7]	
	NIL
Annex 8 – Airworthiness of Aircraft [up to and including Amendment 109]	
	NIL
Annex 10 Vol.-I – Aeronautical Telecommunications [up to and including Amendment 92]	
2.2.1	NDB are not subjected to periodic flight tests. Ground tests are carried out.

Annex Provision	Details of Differences
3.1.5.3.2	Because of the siting problems and terrain limitations, some glide paths may not meet the standard coverage area. The information regarding such glide paths shall be published in AIP for each specific system.
3.3.7.1	Certain VOR used solely for en-route navigation do not provide status indication at a control point. Description for such facilities is published in AIP.
3.5.4.7.2.1	Certain DME used solely for en-route navigation do not provide status indication at a control point. Description for such facilities is published in AIP.
Annex 10 Vol.-II – Aeronautical Telecommunications [up to and including Amendment 92]	
	NIL
Annex 10 Vol.-III – Aeronautical Telecommunications [up to and including Amendment 91]	
	NIL
Annex 10 Vol.-IV– Aeronautical Telecommunications [up to and including Amendment 91]	
	NIL
Annex 10 Vol.-V– Aeronautical Telecommunications [up to and including Amendment 90]	
	NIL
Annex 11 – Air Traffic Services [up to and including Amendment 52]	
2.20.2	CRC will be applied as and when electronic aeronautical data processing is commenced.
Annex 12 – Search and Rescue [up to and including Amendment 18]	
	'NIL'
Annex 13 – Aircraft Accident and Incident Investigation [up to and including Amendment 18]	
	NIL
Annex 14 Vol.-I –Aerodromes [up to and including Amendment 17]	
	NIL
Annex 14 Vol.-II –Aerodromes [up to and including Amendment 9]	
	NIL
Annex 15 – Aeronautical Information Services [up to and including Amendment 42]	
5.2.5	India does not prepare Aerodrome Terrain and Obstacle Chart – ICAO (Electronic) and Visual Approach Chart- ICAO
5.2.5.3	ATC Surveillance Minimum altitude chart – ICAO is provided in excess to 5.2.5.3 of Annex 15
Annex 16 Vol.-I – Environmental Protection - Aircraft Noise [up to and including Amendment 13]	
	NIL
Annex 16 Vol.-II – Environmental Protection - Aircraft Engine Emissions [up to and including Amendment 10]	
	NIL
Annex 16 Vol.-III – Environmental Protection- Aeroplane CO2 Emissions [up to and including Amendment 1]	
	NIL
Annex 18 – The Safe Transport of Dangerous Goods by Air [up to and including Amendment 12]	

Annex Provision	Details of Differences
11.4	The mail is screened by the aircraft operator before accepting.
Annex 19 – Safety Management [up to and including Amendment 1)	
4.1.5	SMS is applicable to all Maintenance Organisations

	DELHI FIR

ENCODE		DECODE	
Location	**Indicator**	**Indicator**	**Location**
ADAMPUR	VIAX*	VIAG	AGRA AIRPORT, AGRA [INDIAN AIR FORCE]
AGRA AIRPORT, AGRA [INDIAN AIR FORCE]	VIAG	VIAH*	ALIGARH AIRPORT, ALIGARH
ALIGARH AIRPORT, ALIGARH	VIAH*	VIAM*	AMBALA
AMBALA	VIAM*	VIAR	SRI GURU RAM DASS JEE INTERNATIONAL AIRPORT, AMRITSAR
AWANTIPUR	VIAW*	VIAW*	AWANTIPUR
BAKSHI KA TALAB	VIBL*	VIAX*	ADAMPUR
BANIHAL	VIBH*	VIBH*	BANIHAL
BAREILLY AIRPORT, BAREILLY [INDIAN AIR FORCE]	VIBY*	VIBK*	BIKANER
BEAS	VIBS*	VIBL*	BAKSHI KA TALAB
BHATINDA	VIBT*	VIBR	KULLU MANALI AIRPORT, BHUNTAR
BHIWANI	VIBW*	VIBS*	BEAS
BIKANER	VIBK*	VIBT*	BHATINDA
CHANDIGARH AIRPORT, CHANDIGARH[INDIAN AIR FORCE]	VICG*	VIBW*	BHIWANI
CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT, LUCKNOW	VILK	VIBY*	BAREILLY AIRPORT, BAREILLY [INDIAN AIR FORCE]
DADRI	VIDR*	VICG*	CHANDIGARH AIRPORT, CHANDIGARH[INDIAN AIR FORCE]
DATIA AIRPORT, DATIA	VIDT*	VIDD	SAFDARJUNG AIRPORT
DEHRADUN AIRPORT, DEHRADUN	VIDN	VIDF	DELHI [FIC]
DELHI [FIC]	VIDF	VIDN	DEHRADUN AIRPORT, DEHRADUN
FARIDKOT	VIFD*	VIDP	INDIRA GANDHI INTERNATIONAL AIRPORT,DELHI
FARRUKHABAD	VIFB*	VIDR*	DADRI
FIROZPUR	VIFZ*	VIDT*	DATIA AIRPORT, DATIA
GWALIOR AIRPORT, GWALIOR [INDIAN AIR FORCE]	VIGR	VIDX	HINDAN AIRPORT, HINDAN [INDIAN AIR FORCE]
HALWARA AIRPORT, HALWARA	VIHX*	VIFB*	FARRUKHABAD
HINDAN AIRPORT, HINDAN [INDIAN AIR FORCE]	VIDX	VIFD*	FARIDKOT
HISAR AIRPORT, HISAR	VIHR*	VIFZ*	FIROZPUR
INDIRA GANDHI INTERNATIONAL AIRPORT,DELHI	VIDP	VIGG*	KANGRA AIRPORT, KANGRA
JAIPUR INTERNATIONAL AIRPORT, JAIPUR	VIJP*	VIGR	GWALIOR AIRPORT, GWALIOR [INDIAN AIR FORCE]
JAISALMER	VIJR*	VIHR*	HISAR AIRPORT, HISAR

ENCODE		DECODE	
Location	**Indicator**	**Indicator**	**Location**
JAMMU AIRPORT, JAMMU [INDIAN AIR FORCE]	VIJU*	VIHX*	HALWARA AIRPORT, HALWARA
JHANSI	VIJN*	VIJN*	JHANSI
JODHPUR AIRPORT, JODHPUR [INDIAN AIR FORCE]	VIJO*	VIJO*	JODHPUR AIRPORT, JODHPUR [INDIAN AIR FORCE]
KANGRA AIRPORT, KANGRA	VIGG*	VIJP*	JAIPUR INTERNATIONAL AIRPORT, JAIPUR
KARGIL	VIKL*	VIJR*	JAISALMER
KISHANGARH AIRPORT, KISHANGARH	VIKG*	VIJU*	JAMMU AIRPORT, JAMMU [INDIAN AIR FORCE]
KOTA	VIKO*	VIKD*	KUD
KUD	VIKD*	VIKG*	KISHANGARH AIRPORT, KISHANGARH
KULLU MANALI AIRPORT, BHUNTAR	VIBR	VIKL*	KARGIL
LALITPUR	VILP*	VIKO*	KOTA
LEH AIRPORT, LEH	VILH*	VILD*	LUDHIANA AIRPORT, LUDHIANA
LUDHIANA AIRPORT, LUDHIANA	VILD*	VILH*	LEH AIRPORT, LEH
MOGA	VIMG*	VILK	CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT, LUCKNOW
MORADABAD AIRPORT, MORADABAD	VIMB*	VILP*	LALITPUR
NAINI SAINI AIRPORT, PITHORAGARH	VIPG*	VIMB*	MORADABAD AIRPORT, MORADABAD
NARNAUL	VINL*	VIMG*	MOGA
NOIDA INTERNATIONAL AIRPORT JEWAR	VIND*	VIND*	NOIDA INTERNATIONAL AIRPORT JEWAR
NUH	VINH*	VINH*	NUH
PANTNAGAR AIRPORT, PANTNAGAR	VIPT	VINL*	NARNAUL
PATHANKOT [INDIAN AIR FORCE]	VIPK*	VIPG*	NAINI SAINI AIRPORT, PITHORAGARH
PATIALA	VIPL*	VIPK*	PATHANKOT [INDIAN AIR FORCE]
PATNITOP	VIPN*	VIPL*	PATIALA
PHALODI	VIPX*	VIPN*	PATNITOP
QAZIGUND	VIQG*	VIPT	PANTNAGAR AIRPORT, PANTNAGAR
REENGUS	VIRG*	VIPX*	PHALODI
SAFDARJUNG AIRPORT	VIDD	VIQG*	QAZIGUND
SARSAWA AIRPORT, SARSAWA	VISP	VIRG*	REENGUS
SHIMLA AIRPORT, SHIMLA	VISM*	VISB*	SIKANDRABAD
SHRAVASTI	VISV*	VISM*	SHIMLA AIRPORT, SHIMLA
SIKANDRABAD	VISB*	VISP	SARSAWA AIRPORT, SARSAWA
SIRSA	VISX*	VISR*	SRINAGAR AIRPORT, SRINAGAR [INDIAN AIR FORCE]

ENCODE		DECODE	
Location	**Indicator**	**Indicator**	**Location**
SRI GURU RAM DASS JEE INTERNATIONAL AIRPORT, AMRITSAR	VIAR	VISV*	SHRAVASTI
SRINAGAR AIRPORT, SRINAGAR [INDIAN AIR FORCE]	VISR*	VISX*	SIRSA
UDHAMPUR	VIUX*	VIUT*	UTTARLAI AIRPORT, UTTARLAI [INDIAN AIR FORCE]
UTTARLAI AIRPORT, UTTARLAI [INDIAN AIR FORCE]	VIUT*	VIUX*	UDHAMPUR

CHENNAI FIR			
ENCODE		**DECODE**	
Location	**Indicator**	**Indicator**	**Location**
DONAKONDA	VODK*	VOCX*	CARNICOBAR [INDIAN AIR FORCE]
DUNDIGUL	VODG*	VODG*	DUNDIGUL
GOA INTERNATIONAL AIRPORT, DABOLIM, GOA [INDIAN NAVY]	VOGO	VODK*	DONAKONDA
HAKIMPET [INDIAN AIR FORCE]	VOHK*	VODX	SHIBPUR
HAL AIRPORT BENGALURU	VOBG	VOGA*	MANOHAR INTERNATIONAL AIRPORT, MOPA, GOA
HUBBALLI AIRPORT, HUBBALLI	VOHB	VOGB*	KALABURAGI AIRPORT, KALABURAGI
HYDERABAD INTERNATIONAL AIRPORT, HYDERABAD	VOHY	VOGO	GOA INTERNATIONAL AIRPORT, DABOLIM, GOA [INDIAN NAVY]
JINDAL VIJAYANAGAR AIRPORT, VIDYANAGAR	VOJV*	VOHB	HUBBALLI AIRPORT, HUBBALLI
KADAPA AIRPORT, KADAPA	VOCP	VOHK*	HAKIMPET [INDIAN AIR FORCE]
KALABURAGI AIRPORT, KALABURAGI	VOGB*	VOHS	RAJIV GANDHI INTERNATIONAL AIRPORT , SHAMSHABAD
KANCHEEPURAM	VOKP*	VOHY	HYDERABAD INTERNATIONAL AIRPORT, HYDERABAD
KANNUR INTERNATIONAL AIRPORT, MATTANNUR, KANNUR	VOKN	VOJV*	JINDAL VIJAYANAGAR AIRPORT, VIDYANAGAR
KAVARATI	VOKV*	VOKM*	KHAMAMPET
KEMPEGOWDA INTERNATIONAL AIRPORT, BENGALURU	VOBL	VOKN	KANNUR INTERNATIONAL AIRPORT, MATTANNUR, KANNUR
KHAMAMPET	VOKM*	VOKP*	KANCHEEPURAM
KURNOOL AIRPORT, KURNOOL	VOKU*	VOKU*	KURNOOL AIRPORT, KURNOOL
LATUR	VOLT*	VOKV*	KAVARATI
MADURAI AIRPORT, MADURAI	VOMD	VOLT*	LATUR
MAGADI	VOMG*	VOMD	MADURAI AIRPORT, MADURAI
MAHAD	VOMH*	VOMF	CHENNAI(FIC)
MANGALURU INTERNATIONAL AIRPORT, MANGALURU	VOML	VOMG*	MAGADI
MANOHAR INTERNATIONAL AIRPORT, MOPA, GOA	VOGA*	VOMH*	MAHAD
MYSURU AIRPORT, MYSURU	VOMY	VOML	MANGALURU INTERNATIONAL AIRPORT, MANGALURU
NAGARJUNSAGAR	VONS*	VOMM	CHENNAI INTERNATIONAL AIRPORT, CHENNAI
NEYVELI	VONV*	VOMY	MYSURU AIRPORT, MYSURU
OOTACAMUND	VOTY*	VOND*	SHRI GURU GOBIND SINGH JI AIRPORT, NANDED
RAICHUR	VORR*	VONV*	NEYVELI
RAJAHMUNDRY AIRPORT, RAJAHMUNDRY	VORY	VOPB	SRI VIJAYA PURAM AIRPORT, SRI VIJAYA PURAM [INDIAN NAVY]
RAJIV GANDHI INTERNATIONAL AIRPORT , SHAMSHABAD	VOHS	VOPC	PUDUCHERRY AIRPORT, PUDUCHERRY

ENCODE		DECODE	
Location	**Indicator**	**Indicator**	**Location**
RAMAGUNDAM	VORG*	VOPN*	SRI SATHYA SAI AIRPORT, PUTTAPARTHI
RAMNAD	VORM	VORG*	RAMAGUNDAM
SALEM AIRPORT, SALEM	VOSM*	VORM	RAMNAD
SHIBPUR	VODX	VORR*	RAICHUR
SHIVAMOGGA AIRPORT, SHIVAMOGGA	VOSH*	VORY	RAJAHMUNDRY AIRPORT, RAJAHMUNDRY
SHRI GURU GOBIND SINGH JI AIRPORT, NANDED	VOND*	VOSH*	SHIVAMOGGA AIRPORT, SHIVAMOGGA
SINDHUDURG AIRPORT, SINDUDURG	VOSR*	VOSM*	SALEM AIRPORT, SALEM
SRI SATHYA SAI AIRPORT, PUTTAPARTHI	VOPN*	VOSR*	SINDHUDURG AIRPORT, SINDUDURG
SRI VIJAYA PURAM AIRPORT, SRI VIJAYA PURAM [INDIAN NAVY]	VOPB	VOSX*	SULUR
SULUR	VOSX*	VOTJ*	THANJAVUR
TAMBARAM	VOTX*	VOTK*	TUTICORIN AIRPORT, TUTICORIN
THANJAVUR	VOTJ*	VOTP	TIRUPATI AIRPORT, TIRUPATI
THIRUVANANTHAPURAM INTERNATIONAL AIRPORT	VOTV	VOTR	TIRUCHIRAPPALLI AIRPORT, TIRUCHIRAPPALLI
TIRUCHIRAPPALLI AIRPORT, TIRUCHIRAPPALLI	VOTR	VOTV	THIRUVANANTHAPURAM INTERNATIONAL AIRPORT
TIRUPATI AIRPORT, TIRUPATI	VOTP	VOTX*	TAMBARAM
TUTICORIN AIRPORT, TUTICORIN	VOTK*	VOTY*	OOTACAMUND
VELLORE	VOVR*	VOVB*	VIKARABAD
VIJAYAWADA AIRPORT, VIJAYAWADA	VOBZ	VOVI*	BHOGAPURAM INTERNATIONAL AIRPORT
VIKARABAD	VOVB*	VOVR*	VELLORE
VISAKHAPATNAM AIRPORT, VISAKHAPATNAM [INDIAN NAVY]	VOVZ	VOVZ	VISAKHAPATNAM AIRPORT, VISAKHAPATNAM [INDIAN NAVY]
WARANGAL	VOWA*	VOWA*	WARANGAL
YELAHANKA (INDIAN AIR FORCE)	VOYK*	VOYK*	YELAHANKA (INDIAN AIR FORCE)
PUDUCHERRY AIRPORT, PUDUCHERRY	VOPC	VONS*	NAGARJUNSAGAR
AGATTI AIRPORT, AGATTI	VOAT	VOAR	ARAKKONAM
ARAKKONAM	VOAR	VOAT	AGATTI AIRPORT, AGATTI
BALDOTA KOPPAL	VOBK*	VOBG	HAL AIRPORT BENGALURU
BELAGAVI AIRPORT, BELAGAVI	VOBM	VOBI*	BELLARY
BELLARY	VOBI*	VOBK*	BALDOTA KOPPAL
BHOGAPURAM INTERNATIONAL AIRPORT	VOVI*	VOBL	KEMPEGOWDA INTERNATIONAL AIRPORT, BENGALURU
BIDAR AIRPORT, BIDAR [INDIAN AIR FORCE]	VOBR	VOBM	BELAGAVI AIRPORT, BELAGAVI
CALICUT AIRPORT, CALICUT	VOCL	VOBR	BIDAR AIRPORT, BIDAR [INDIAN AIR FORCE]
CAMPBELL BAY	VOBX*	VOBX*	CAMPBELL BAY

ENCODE		DECODE	
Location	**Indicator**	**Indicator**	**Location**
CARNICOBAR [INDIAN AIR FORCE]	VOCX*	VOBZ	VIJAYAWADA AIRPORT, VIJAYAWADA
CHENNAI INTERNATIONAL AIRPORT, CHENNAI	VOMM	VOCB	COIMBATORE AIRPORT, COIMBATORE
CHENNAI(FIC)	VOMF	VOCC	COCHIN (NAVY)
COCHIN (NAVY)	VOCC	VOCI	COCHIN INTERNATIONAL AIRPORT, NEDUMBASSERY
COCHIN INTERNATIONAL AIRPORT, NEDUMBASSERY	VOCI	VOCL	CALICUT AIRPORT, CALICUT
COIMBATORE AIRPORT, COIMBATORE	VOCB	VOCP	KADAPA AIRPORT, KADAPA

GEN 2.5 - LIST OF RADIO NAVIGATION AIDS

ID	Station Name	Aid	Purpose	Station Name	ID	Aid	Purpose
AAE	AHMEDABAD DVOR	VOR/ DME	AE	AGARTALA	AT	NDB	A
AAR	AMRITSAR DVOR	VOR/ DME	AE	AGARTALA DVOR	AAT	VOR/ DME	AE
AAT	AGARTALA DVOR	VOR/ DME	AE	AGATTI	AT	NDB	AE
AAT	Agatti	DME	A	AGRA	AGG	VOR/ DME	AE
AAU	AURANGABAD DVOR	VOR/ DME	AE	AHMEDABAD DVOR	AAE	VOR/ DME	AE
AGG	AGRA	VOR/ DME	AE	ALIGARH DVOR	ALI	VOR/ DME	E
ALH	PRAYAGRAJ	VOR/ DME	AE	AMRITSAR	AR	NDB	A
ALI	ALIGARH DVOR	VOR/ DME	E	AMRITSAR DVOR	AAR	VOR/ DME	AE
AR	AMRITSAR	NDB	A	AURANGABAD DVOR	AAU	VOR/ DME	AE
AT	AGARTALA	NDB	A	Agartala	IAGE	ILS	A
AT	AGATTI	NDB	AE	Agartala	IAGE	DME	A
AYD	Ayodhya DVOR	VOR/ DME	AE	Agatti	AAT	DME	A
BBB	MUMBAI DVOR	VOR/ DME	AE	Agra	IARA	ILS	A
BBG	BENGALURU (HAL) DVOR	VOR/ DME	AE	Agra	IARA	DME	A
BBI	BELLARY DVOR	VOR/ DME	AE	Ahmedabad	IAHD	ILS	A
BBM	BELAGAVI DVOR	VOR/ DME	AE	Ahmedabad	IAHD	DME	A
BBN	VARANASI DVOR	VOR/ DME	AE	Amritsar	IAMR	ILS	A
BBS	BHUBANESWAR DVOR	VOR/ DME	AE	Amritsar	IAMR	DME	A
BBZ	VIJAYWADA DVOR	VOR/ DME	AE	Aurangabad	IAUR	ILS	A
BDR	BIDAR DVOR	VOR/ DME	AE	Aurangabad	IAUR	DME	A
BGD	BAGDOGRA DVOR	VOR/ DME	AE	Ayodhya	IAYD	ILS	A
BHU	BHUJ	VOR/ DME	AE	Ayodhya	IAYD	DME	A
BIA	BENGALURU DVOR	VOR/ DME	AE	Ayodhya DVOR	AYD	VOR/ DME	AE
BLS	BILASPUR	VOR/ DME	AE	BAGDOGRA DVOR	BGD	VOR/ DME	AE
BNR	BHUNTAR	NDB	AE	BARAPANI DVOR	BPN	VOR/ DME	AE

ID	Station Name	Aid	Purpose	Station Name	ID	Aid	Purpose
BPL	BHOPAL DVOR	VOR/ DME	AE	BAREILLY	BRL	VOR/ DME	AE
BPN	BARAPANI DVOR	VOR/ DME	AE	BAREILLY	BY	NDB	AE
BR	BIDAR	NDB	AE	BELAGAVI DVOR	BBM	VOR/ DME	AE
BRL	BAREILLY	VOR/ DME	AE	BELLARY DVOR	BBI	VOR/ DME	AE
BVR	BHAVNAGAR DVOR	VOR/ DME	AE	BENGALURU (HAL) DVOR	BBG	VOR/ DME	AE
BY	BAREILLY	NDB	AE	BENGALURU DVOR	BIA	VOR/ DME	AE
CB	COIMBATORE	NDB	A	BHAVNAGAR DVOR	BVR	VOR/ DME	AE
CCB	COIMBATORE DVOR	VOR/ DME	AE	BHOPAL DVOR	BPL	VOR/ DME	AE
CEA	KOLKATA DVOR	VOR/ DME	AE	BHUBANESWAR DVOR	BBS	VOR/ DME	AE
CHG	CHANDIGARH	VOR/ DME	AE	BHUJ	BHU	VOR/ DME	AE
CHI	CHILLARKI DVOR	VOR/ DME	E	BHUNTAR	BNR	NDB	AE
CIA	COCHIN DVOR	VOR/ DME	AE	BHUNTAR DVOR	KUL	VOR/ DME	A
CIB	COCHIN DVOR	VOR/ DME	AE	BIDAR	BR	NDB	AE
CLC	CALICUT DVOR	VOR/ DME	AE	BIDAR DVOR	BDR	VOR/ DME	AE
CML	COMILLA DVOR	DVOR	E	BIKANER DVOR	LKA	VOR/ DME	E
CNI	CHENNAI DVOR	VOR/ DME	A	BIKANER DVOR	LUN	VOR/ DME	E
CO	COOCHBEHAR	NDB	A	BILASPUR	BLS	VOR/ DME	AE
CTG	CHITTAGONG DVOR	DVOR	E	Bagdogra	IBGD	ILS	A
DBR	DIBRUGARH	NDB	A	Bagdogra	IBGD	DME	A
DDN	DEHRADUN DVOR	VOR/ DME	AE	Baireilly	IBLY	DME	A
DGH	DEOGHAR DVOR	VOR/ DME	AE	Barapani	IBRP	ILS	A
DGP	DURGAPUR DVOR	VOR/ DME	AE	Barapani	IBRP	DME	A
DIG	DELHI DVOR	VOR/ DME	A	Bareilly	IBLY	ILS	A
DMN	DAMAN DVOR	VOR/ DME	A	Belagavi	IBGM	ILS	A
DMR	DIMAPUR DVOR	VOR/ DME	AE	Belagavi	IBGM	DME	A
DPN	DELHI DVOR	VOR/ DME	AE	Bengaluru (BIAL)	IBLN	ILS	A
DRG	DIBRUGARH DVOR	VOR/ DME	AE	Bengaluru (BIAL)	IDEV	ILS	A

ID	Station Name	Aid	Purpose	Station Name	ID	Aid	Purpose
DU	DIU	NDB		Bengaluru (BIAL)	IBAN	ILS	A
GDA	GONDIA DVOR	VOR/ DME	AE	Bengaluru (BIAL)	IDVN	ILS	A
GGB	KALABURAGI DVOR	VOR/ DME	AE	Bengaluru (BIAL)	IBLN	DME	A
GGC	GAYA DVOR	VOR/ DME	AE	Bengaluru (BIAL)	IBAN	DME	A
GGO	GOA DVOR	VOR/ DME	AE	Bengaluru (BIAL)	IDVN	DME	A
GGT	GUWAHATI DVOR	VOR/ DME	AE	Bengaluru (BIAL)	IDEV	DME	A
GH	GORAKHPUR	NDB	AE	Bengaluru (HAL)	IBLR	ILS	A
GKP	GORAKHPUR DVOR	VOR/ DME	AE	Bengaluru (HAL)	IBLR	DME	A
GN	GONDIA	NDB	A	Bhavnagar	IBHN	ILS	A
GO	GOA	NDB	A	Bhavnagar	IBHN	DME	A
GWA	GWALIOR DVOR	VOR/ DME	AE	Bhopal	IBPH	ILS	A
HBL	HUBBALLI DVOR	VOR/ DME	AE	Bhopal	IBPH	DME	A
HHY	HYDERABAD DVOR	VOR/ DME	AE	Bhubaneswar	IBHR	ILS	A
HIA	HYDERABAD DVOR	VOR/ DME	AE	Bhubaneswar	IBHR	DME	A
HIS	HISAR DVOR	VOR/ DME	AE	Bidar	IBID	ILS	A
HLW	HALWARA DVOR	VOR/ DME	A	Bidar	IBID	DME	A
HND	HINDAN DVOR	VOR/ DME	A	CALICUT DVOR	CLC	VOR/ DME	AE
HOL	HOLLONGI DVOR	VOR/ DME	AE	CHANDIGARH	CHG	VOR/ DME	AE
HSR	RAJKOT DVOR	VOR/ DME	AE	CHENNAI DVOR	MMV	VOR/ DME	AE
HW	PANTNAGAR	NDB	AE	CHENNAI DVOR	CNI	VOR/ DME	A
IAGE	Agartala	ILS	A	CHILLARKI DVOR	CHI	VOR/ DME	E
IAGE	Agartala	DME	A	CHITTAGONG DVOR	CTG	DVOR	E
IAHD	Ahmedabad	ILS	A	COCHIN DVOR	CIA	VOR/ DME	AE
IAHD	Ahmedabad	DME	A	COCHIN DVOR	CIB	VOR/ DME	AE
IAMR	Amritsar	ILS	A	COIMBATORE	CB	NDB	A
IAMR	Amritsar	DME	A	COIMBATORE DVOR	CCB	VOR/ DME	AE
IARA	Agra	ILS	A	COMILLA DVOR	CML	DVOR	E
IARA	Agra	DME	A	COOCHBEHAR	CO	NDB	A
IAUR	Aurangabad	ILS	A	Calicut	ICAC	ILS	A
IAUR	Aurangabad	DME	A	Calicut	ICLB	ILS	A

ID	Station Name	Aid	Purpose	Station Name	ID	Aid	Purpose
IAYD	Ayodhya	ILS	A	Calicut	ICLB	DME	A
IAYD	Ayodhya	DME	A	Calicut	ICAC	DME	A
IBAN	Bengaluru (BIAL)	ILS	A	Chandigarh	ICHD	ILS	A
IBAN	Bengaluru (BIAL)	DME	A	Chandigarh	ICDH	ILS	A
IBBY	Mumbai	ILS	A	Chandigarh	ICHD	DME	A
IBBY	Mumbai	DME	A	Chandigarh	ICDH	DME	A
IBGD	Bagdogra	ILS	A	Chennai	IMAS	ILS	A
IBGD	Bagdogra	DME	A	Chennai	ICHN	ILS	A
IBGM	Belagavi	ILS	A	Chennai	ICHN	DME	A
IBGM	Belagavi	DME	A	Chennai	IMAS	DME	A
IBHN	Bhavnagar	ILS	A	Cochin	ICIL	ILS	A
IBHN	Bhavnagar	DME	A	Cochin	ICNB	ILS	A
IBHR	Bhubaneswar	ILS	A	Cochin	ICNB	DME	A
IBHR	Bhubaneswar	DME	A	Cochin	ICIL	DME	A
IBID	Bidar	ILS	A	Coimbatore	ICMB	ILS	A
IBID	Bidar	DME	A	Coimbatore	ICMB	DME	A
IBLN	Bengaluru (BIAL)	ILS	A	DAMAN DVOR	DMN	VOR/ DME	A
IBLN	Bengaluru (BIAL)	DME	A	DEHRADUN DVOR	DDN	VOR/ DME	AE
IBLR	Bengaluru (HAL)	ILS	A	DELHI DVOR	DIG	VOR/ DME	A
IBLR	Bengaluru (HAL)	DME	A	DELHI DVOR	DPN	VOR/ DME	AE
IBLY	Bareilly	ILS	A	DEOGHAR DVOR	DGH	VOR/ DME	AE
IBLY	Baireilly	DME	A	DIBRUGARH	DBR	NDB	A
IBOM	Mumbai	ILS	A	DIBRUGARH DVOR	DRG	VOR/ DME	AE
IBOM	Mumbai	DME	A	DIMAPUR DVOR	DMR	VOR/ DME	AE
IBPH	Bhopal	ILS	A	DIU	DU	NDB	
IBPH	Bhopal	DME	A	DME ILS 10	IJIA	DME	A
IBRP	Barapani	ILS	A	DME ILS 28	IJWR	DME	A
IBRP	Barapani	DME	A	DURGAPUR DVOR	DGP	VOR/ DME	AE
ICAC	Calicut	ILS	A	Dehradun	IDUN	ILS	A
ICAC	Calicut	DME	A	Dehradun	IDUN	DME	A
ICAL	Kolkata	ILS	A	Delhi	IDIA	ILS	A
ICAL	Kolkata	DME	A	Delhi	IDGM	ILS	A
ICDH	Chandigarh	ILS	A	Delhi	IDEL	ILS	A
ICDH	Chandigarh	DME	A	Delhi	IPLM	ILS	A
ICHD	Chandigarh	ILS	A	Delhi	IDPN	ILS	A
ICHD	Chandigarh	DME	A	Delhi	IDMR	ILS	A
ICHN	Chennai	ILS	A	Delhi	IDLP	ILS	A
ICHN	Chennai	DME	A	Delhi	IDLH	ILS	A
ICIL	Cochin	ILS	A	Delhi	IDGM	DME	A

ID	Station Name	Aid	Purpose	Station Name	ID	Aid	Purpose
ICIL	Cochin	DME	A	Delhi	IDIA	DME	A
ICLB	Calicut	ILS	A	Delhi	IDLP	DME	A
ICLB	Calicut	DME	A	Delhi	IDLH	DME	A
ICMB	Coimbatore	ILS	A	Delhi	IDPN	DME	A
ICMB	Coimbatore	DME	A	Delhi	IPLM	DME	A
ICNB	Cochin	ILS	A	Delhi	IDMR	DME	A
ICNB	Cochin	DME	A	Delhi	IDEL	DME	A
IDAB	Goa	ILS	A	Deoghar	IDGR	ILS	A
IDAB	Goa	DME	A	Deoghar	IDGR	DME	A
IDEL	Delhi	ILS	A	Dibrugarh	IDIB	ILS	A
IDEL	Delhi	DME	A	Dibrugarh	IDIB	DME	A
IDEV	Bengaluru (BIAL)	ILS	A	Dimapur	IDMP	ILS	A
IDEV	Bengaluru (BIAL)	DME	A	Dimapur	IDMP	DME	A
IDGM	Delhi	ILS	A	Durgapur	IDPR	ILS	A
IDGM	Delhi	DME	A	Durgapur	IDPR	DME	A
IDGR	Deoghar	ILS	A	GAYA DVOR	GGC	VOR/ DME	AE
IDGR	Deoghar	DME	A	GOA	GO	NDB	A
IDIA	Delhi	ILS	A	GOA DVOR	GGO	VOR/ DME	AE
IDIA	Delhi	DME	A	GONDIA	GN	NDB	A
IDIB	Dibrugarh	ILS	A	GONDIA	IGON	DME	A
IDIB	Dibrugarh	DME	A	GONDIA DVOR	GDA	VOR/ DME	AE
IDLH	Delhi	ILS	A	GORAKHPUR	GH	NDB	AE
IDLH	Delhi	DME	A	GORAKHPUR DVOR	GKP	VOR/ DME	AE
IDLP	Delhi	ILS	A	GUWAHATI DVOR	GGT	VOR/ DME	AE
IDLP	Delhi	DME	A	GWALIOR DVOR	GWA	VOR/ DME	AE
IDMP	Dimapur	ILS	A	Gaya	IGYA	ILS	A
IDMP	Dimapur	DME	A	Gaya	IGYA	DME	A
IDMR	Delhi	ILS	A	Goa	IHNS	ILS	A
IDMR	Delhi	DME	A	Goa	IDAB	ILS	A
IDPN	Delhi	ILS	A	Goa	IDAB	DME	A
IDPN	Delhi	DME	A	Goa	IHNS	DME	A
IDPR	Durgapur	ILS	A	Gorakhpur	IGOR	ILS	A
IDPR	Durgapur	DME	A	Gorakhpur	LP	DME	A
IDUM	Kolkata	ILS	A	Guwahati	IGHT	ILS	A
IDUM	Kolkata	DME	A	Guwahati	IGHT	DME	A
IDUN	Dehradun	ILS	A	Gwalior	IGWL	ILS	A
IDUN	Dehradun	DME	A	Gwalior	IGWL	DME	A
IDVN	Bengaluru (BIAL)	ILS	A	HALWARA	IHLR	ILS	A
IDVN	Bengaluru (BIAL)	DME	A	HALWARA	IHLR	DME	A
IGHT	Guwahati	ILS	A	HALWARA DVOR	HLW	VOR/ DME	A

ID	Station Name	Aid	Purpose	Station Name	ID	Aid	Purpose
IGHT	Guwahati	DME	A	HINDAN DVOR	HND	VOR/ DME	A
IGON	LOC 04	ILS	A	HISAR DVOR	HIS	VOR/ DME	AE
IGON	GONDIA	DME	A	HOLLONGI DVOR	HOL	VOR/ DME	AE
IGOR	Gorakhpur	ILS	A	HUBBALLI DVOR	HBL	VOR/ DME	AE
IGWL	Gwalior	ILS	A	HYDERABAD DVOR	HIA	VOR/ DME	AE
IGWL	Gwalior	DME	A	HYDERABAD DVOR	HHY	VOR/ DME	AE
IGYA	Gaya	ILS	A	Hindan	IHND	ILS	A
IGYA	Gaya	DME	A	Hindan	IHND	DME	A
IHBD	Shamshabad (HIAL)	ILS	A	Hollongi	IHNG	ILS	A
IHBD	Hyderabad	DME	A	Hollongi	IHNG	DME	A
IHLR	HALWARA	ILS	A	Hubbali	IHUB	ILS	A
IHLR	HALWARA	DME	A	Hubbali	IHUB	DME	A
IHND	Hindan	ILS	A	Hyderabad	IHBD	DME	A
IHND	Hindan	DME	A	Hyderabad	IHYD	DME	A
IHNG	Hollongi	ILS	A	Hyderabad (Begumpet)	IHYD	ILS	A
IHNG	Hollongi	DME	A	IMPHAL DVOR	IIM	VOR/ DME	AE
IHNS	Goa	ILS	A	INDORE DVOR	IID	VOR/ DME	AE
IHNS	Goa	DME	A	Imphal	IIPH	ILS	A
IHSR	Rajkot	ILS	A	Imphal	IIPH	DME	A
IHSR	Rajkot	DME	A	Indore	IIDR	ILS	A
IHUB	Hubbali	ILS	A	Indore	IIDR	DME	A
IHUB	Hubbali	DME	A	JABALPUR DVOR	JJB	VOR/ DME	AE
IHYD	Hyderabad (Begumpet)	ILS	A	JAIPUR DVOR	JJP	VOR/ DME	AE
IHYD	Hyderabad	DME	A	JAISALMER DVOR	JAS	VOR/ DME	AE
IHYN	Shamshabad (HIAL)	ILS	A	JALALABAD DVOR	JAL	VOR/ DME	E
IHYN	Shamshabad (HIAL)	DME	A	JALGAON DVOR	JLG	VOR/ DME	AE
IID	INDORE DVOR	VOR/ DME	AE	JAMMU DVOR	JJU	VOR/ DME	AE
IIDR	Indore	ILS	A	JAMNAGAR	JNR	VOR/ DME	AE
IIDR	Indore	DME	A	JAMSHEDPUR	TS	NDB	A
IIM	IMPHAL DVOR	VOR/ DME	AE	JAMSHEDPUR DVOR	JJS	VOR/ DME	AE
IIPH	Imphal	ILS	A	JEWAR	IJWR	ILS	A
IIPH	Imphal	DME	A	JEWAR DVOR	JWR	VOR/ DME	AE
IJBL	Jabalpur	ILS	A	JHARSUGUDA	JH	NDB	AE

ID	Station Name	Aid	Purpose	Station Name	ID	Aid	Purpose
IJBL	Jabalpur	DME	A	JHARSUGUDA DVOR	JRS	VOR/ DME	AE
IJDH	Jodhpur	ILS	A	JINDAL VIJAYANAGAR	VN	NDB	A
IJDH	Jodhpur	DME	A	JODHPUR	JDP	VOR/ DME	AE
IJHR	Jharsuguda	ILS	A	JORHAT	JJT	VOR/ DME	AE
IJHR	Jharsuguda	DME	A	Jabalpur	IJBL	ILS	A
IJHT	Jorhat	ILS	A	Jabalpur	IJBL	DME	A
IJHT	Jorhat	DME	A	Jaipur	IJIP	ILS	A
IJIA	Jewar	ILS	A	Jaipur	IJIP	DME	A
IJIA	DME ILS 10	DME	A	Jewar	IJIA	ILS	A
IJIP	Jaipur	ILS	A	Jharsuguda	IJHR	ILS	A
IJIP	Jaipur	DME	A	Jharsuguda	IJHR	DME	A
IJWR	JEWAR	ILS	A	Jodhpur	IJDH	ILS	A
IJWR	DME ILS 28	DME	A	Jodhpur	IJDH	DME	A
IKAN	Kannur	ILS	A	Jorhat	IJHT	ILS	A
IKAN	Kannur	DME	A	Jorhat	IJHT	DME	A
IKJR	Khajuraho	ILS	A	KADAPA DVOR	KDP	VOR/ DME	AE
IKJR	Khajuraho	DME	A	KALABURAGI DVOR	GGB	VOR/ DME	AE
IKLB	Kalaburagi	ILS	A	KANCHEEPURAM DVOR	KKP	VOR/ DME	E
IKLB	Kalaburagi	DME	A	KANDLA	KD	NDB	AE
ILNP	Lengpui	ILS	A	KANGRA DVOR	KNG	VOR/ DME	AE
ILNP	Lengpui	DME	A	KANNUR DVOR	KNR	VOR/ DME	AE
ILUC	Lucknow	ILS	A	KANPUR	KA	NDB	E
ILUC	Lucknow	DME	A	KANPUR DVOR	KCH	VOR/ DME	AE
IMAS	Chennai	ILS	A	KATIHAR DVOR	KHR	VOR/ DME	E
IMAS	Chennai	DME	A	KESHOD	KS	NDB	AE
IMDR	Madurai	ILS	A	KHAJURAHO	KJ	NDB	A
IMDR	Madurai	DME	A	KHAJURAHO DVOR	KKJ	VOR/ DME	AE
IMNG	Mangaluru	ILS	A	KISHANGARH DVOR	KSR	VOR/ DME	AE
IMNG	Mangaluru	DME	A	KOLHAPUR	KP	NDB	AE
IMPA	New Goa MOPA	ILS	A	KOLHAPUR DVOR	KLP	VOR/ DME	AE
IMPA	New Goa MOPA	DME	A	KOLKATA DVOR	CEA	VOR/ DME	AE
INGR	Nagpur	ILS	A	KOTA	KO	NDB	AE
INGR	Nagpur	DME	A	KURNOOL	KL	NDB	AE
INMB	NAVI MUMBAI	ILS	A	Kalaburagi	IKLB	ILS	A
INMB	NAVI MUMBAI	DME	A	Kalaburagi	IKLB	DME	A

ID	Station Name	Aid	Purpose	Station Name	ID	Aid	Purpose
INVM	NAVI MUMBAI	ILS	A	Kandla	KND	DME	A
INVM	NAVI MUMBAI	DME	A	Kannur	IKAN	ILS	A
IOKL	Kolkata	ILS	A	Kannur	IKAN	DME	A
IOKL	Kolkata	DME	A	Khajuraho	IKJR	ILS	A
IOZR	Ozar	ILS	A	Khajuraho	IKJR	DME	A
IOZR	Ozar	DME	A	Kolkata	ICAL	ILS	A
IPAT	Patna	ILS	A	Kolkata	IDUM	ILS	A
IPAT	Patna	DME	A	Kolkata	IOKL	ILS	A
IPBR	Sri Vijaya Puram	ILS	A	Kolkata	IDUM	DME	A
IPBR	Sri Vijaya Puram	DME	A	Kolkata	IOKL	DME	A
IPLM	Delhi	ILS	A	Kolkata	ICAL	DME	A
IPLM	Delhi	DME	A	Kushinagar DVOR	KSH	VOR/ DME	A
IPUN	Pune	ILS	A	LEH DVOR	LEH	VOR/ DME	AE
IPUN	Pune	DME	A	LENGPUI DVOR	LLP	VOR/ DME	AE
IRAI	Raipur	ILS	A	LENGPUI DVOR	LPU	VOR/ DME	A
IRAI	Raipur	DME	A	LILABARI DVOR	LBR	VOR/ DME	AE
IRAN	Ranchi	ILS	A	LOC 04	IGON	ILS	A
IRAN	Ranchi	DME	A	LUCKNOW DVOR	LKN	VOR/ DME	AE
ISAM	Shamshabad (HIAL)	ILS	A	LUDHIANA DVOR	LNA	VOR/ DME	A
ISAM	Shamshabad	DME	A	Lengpui	ILNP	ILS	A
ISCZ	Mumbai	ILS	A	Lengpui	ILNP	DME	A
ISCZ	Mumbai	DME	A	Lucknow	ILUC	ILS	A
ISLC	Silchar	ILS	A	Lucknow	ILUC	DME	A
ISLC	Silchar	DME	A	MADURAI	MD	NDB	A
ISRN	Srinagar	ILS	A	MADURAI DVOR	MDI	VOR/ DME	AE
ISRN	Srinagar	DME	A	MANDALAY	MDY	VOR	E
ISSW	SARSAWA	ILS	A	MANGALURU DVOR	MML	VOR/ DME	AE
ISSW	SARSAWA	DME	A	MOPA DVOR	MPG	VOR/ DME	AE
ISUT	Surat	ILS	A	MUMBAI DVOR	BBB	VOR/ DME	AE
ISUT	Surat	DME	A	MUNDRA DVOR	MND	VOR/ DME	AE
ITCY	Tiruchirappalli	ILS	A	MYSURU DVOR	MSR	VOR/ DME	AE
ITCY	Tiruchirappalli	DME	A	Madurai	IMDR	ILS	A
ITDM	Thiruvananthapuram	ILS	A	Madurai	IMDR	DME	A
ITDM	Thiruvananthapuram	DME	A	Mangaluru	IMNG	ILS	A
ITPY	Tirupati	ILS	A	Mangaluru	IMNG	DME	A

ID	Station Name	Aid	Purpose	Station Name	ID	Aid	Purpose
ITPY	Tirupathi	DME	A	Mumbai	ISCZ	ILS	A
IUDR	Udaipur	ILS	A	Mumbai	IBOM	ILS	A
IUDR	Udaipur	DME	A	Mumbai	IBBY	ILS	A
IUTR	Uttarlai	ILS	A	Mumbai	IBOM	DME	A
IUTR	Uttarlai	DME	A	Mumbai	IBBY	DME	A
IVDD	Vadodara	ILS	A	Mumbai	ISCZ	DME	A
IVDD	Vadodara	DME	A	NAGPUR DVOR	NNP	VOR/ DME	AE
IVJA	Vijayawada	ILS	A	NANDED DVOR	NDD	VOR/ DME	AE
IVJA	Vijayawada	DME	A	NAVI MUMBAI	NMB	VOR/ DME	AE
IVNS	Varanasi	ILS	A	NAVI MUMBAI	INVM	ILS	A
IVNS	Varanasi	DME	A	NAVI MUMBAI	INMB	ILS	A
IVSA	Visakhapatnam	ILS	A	NAVI MUMBAI	INMB	DME	A
IVSA	Visakhapatnam	DME	A	NAVI MUMBAI	INVM	DME	A
JAL	JALALABAD DVOR	VOR/ DME	E	Nagpur	INGR	ILS	A
JAS	JAISALMER DVOR	VOR/ DME	AE	Nagpur	INGR	DME	A
JDP	JODHPUR	VOR/ DME	AE	New Goa MOPA	IMPA	ILS	A
JH	JHARSUGUDA	NDB	AE	New Goa MOPA	IMPA	DME	A
JJB	JABALPUR DVOR	VOR/ DME	AE	OZAR	OJR	VOR/ DME	AE
JJP	JAIPUR DVOR	VOR/ DME	AE	OZAR	OZR	NDB	A
JJS	JAMSHEDPUR DVOR	VOR/ DME	AE	Ozar	IOZR	ILS	A
JJT	JORHAT	VOR/ DME	AE	Ozar	IOZR	DME	A
JJU	JAMMU DVOR	VOR/ DME	AE	PAKYONG DVOR	PKG	VOR/ DME	A
JLG	JALGAON DVOR	VOR/ DME	AE	PANTNAGAR	HW	NDB	AE
JNR	JAMNAGAR	VOR/ DME	AE	PATHANKOT	PK	NDB	AE
JRS	JHARSUGUDA DVOR	VOR/ DME	AE	PATHANKOT DVOR	PKT	VOR/ DME	E
JWR	JEWAR DVOR	VOR/ DME	AE	PATNA DVOR	PPT	VOR/ DME	AE
KA	KANPUR	NDB	E	PORBANDAR DVOR	PBN	VOR/ DME	AE
KCH	KANPUR DVOR	VOR/ DME	AE	PRATAPGARH DVOR	PRA	VOR/ DME	E
KD	KANDLA	NDB	AE	PRAYAGRAJ	ALH	VOR/ DME	AE
KDP	KADAPA DVOR	VOR/ DME	AE	PUDUCHERRY	OM	NDB	A

ID	Station Name	Aid	Purpose	Station Name	ID	Aid	Purpose
KHR	KATIHAR DVOR	VOR/ DME	E	PUNE DVOR	PPN	VOR/ DME	AE
KJ	KHAJURAHO	NDB	A	Pantnagar	PTN	DME	A
KKJ	KHAJURAHO DVOR	VOR/ DME	AE	Patna	IPAT	ILS	A
KKP	KANCHEEPURAM DVOR	VOR/ DME	E	Patna	IPAT	DME	A
KKU	SILCHAR DVOR	VOR/ DME	AE	Pune	IPUN	ILS	A
KL	KURNOOL	NDB	AE	Pune	IPUN	DME	A
KLP	KOLHAPUR DVOR	VOR/ DME	AE	RAIPUR DVOR	RRP	VOR/ DME	AE
KND	Kandla	DME	A	RAJAHMUNDRY DVOR	RJM	VOR/ DME	AE
KNG	KANGRA DVOR	VOR/ DME	AE	RAJKOT DVOR	HSR	VOR/ DME	AE
KNR	KANNUR DVOR	VOR/ DME	AE	RAJSHAHI	RAJ	VOR	E
KO	KOTA	NDB	AE	RANCHI	RC	NDB	A
KP	KOLHAPUR	NDB	AE	RANCHI DVOR	RRC	VOR/ DME	AE
KS	KESHOD	NDB	AE	REWA	RWA	VOR/ DME	AE
KSH	Kushinagar DVOR	VOR/ DME	A	Raipur	IRAI	ILS	A
KSR	KISHANGARH DVOR	VOR/ DME	AE	Raipur	IRAI	DME	A
KU	Silchar	NDB	A	Rajkot	IHSR	ILS	A
KUL	BHUNTAR DVOR	VOR/ DME	A	Rajkot	IHSR	DME	A
LBR	LILABARI DVOR	VOR/ DME	AE	Ranchi	IRAN	ILS	A
LEH	LEH DVOR	VOR/ DME	AE	Ranchi	IRAN	DME	A
LKA	BIKANER DVOR	VOR/ DME	E	SAIDPUR	SDP	VOR	E
LKN	LUCKNOW DVOR	VOR/ DME	AE	SAKRAS DVOR	SKA	VOR/ DME	
LLP	LENGPUI DVOR	VOR/ DME	AE	SALEM	SL	NDB	A
LNA	LUDHIANA DVOR	VOR/ DME	A	SAMPLA DVOR	SAM	VOR/ DME	E
LP	Gorakhpur	DME	A	SARSAWA	SP	NDB	AE
LPU	LENGPUI DVOR	VOR/ DME	A	SARSAWA	ISSW	ILS	A
LUN	BIKANER DVOR	VOR/ DME	E	SARSAWA	ISSW	DME	A
MD	MADURAI	NDB	A	SARSAWA DVOR	SSW	VOR/ DME	A
MDI	MADURAI DVOR	VOR/ DME	AE	SHIMLA DVOR	SLA	VOR/ DME	AE

ID	Station Name	Aid	Purpose	Station Name	ID	Aid	Purpose
MDY	MANDALAY	VOR	E	SHIRDI DVOR	SRD	VOR/ DME	AE
MML	MANGALURU DVOR	VOR/ DME	AE	SIKANDARABAD DVOR	SSB	VOR/ DME	E
MMV	CHENNAI DVOR	VOR/ DME	AE	SILCHAR DVOR	KKU	VOR/ DME	AE
MND	MUNDRA DVOR	VOR/ DME	AE	SINDHUDURG	SI	NDB	A
MPG	MOPA DVOR	VOR/ DME	AE	SOLAPUR	SO	NDB	A
MSR	MYSURU DVOR	VOR/ DME	AE	SONGARH	SG	NDB	E
NDD	NANDED DVOR	VOR/ DME	AE	SRI SATYA SAI	SAI	NDB	AE
NMB	NAVI MUMBAI	VOR/ DME	AE	SRI VIJAYA PURAM	PB	NDB	A
NNP	NAGPUR DVOR	VOR/ DME	AE	SRI VIJAYA PURAM DVOR	PPB	VOR/ DME	AE
OJR	OZAR	VOR/ DME	AE	SRINAGAR DVOR	SGR	VOR/ DME	AE
OM	PUDUCHERRY	NDB	A	SURAT DVOR	SUR	VOR/ DME	AE
OZR	OZAR	NDB	A	SYLHET	SYT	DVOR	E
PB	SRI VIJAYA PURAM	NDB	A	Shamshabad	ISAM	DME	A
PBN	PORBANDAR DVOR	VOR/ DME	AE	Shamshabad (HIAL)	ISAM	ILS	A
PK	PATHANKOT	NDB	AE	Shamshabad (HIAL)	IHBD	ILS	A
PKG	PAKYONG DVOR	VOR/ DME	A	Shamshabad (HIAL)	IHYN	ILS	A
PKT	PATHANKOT DVOR	VOR/ DME	E	Shamshabad (HIAL)	IHYN	DME	A
PPB	SRI VIJAYA PURAM DVOR	VOR/ DME	AE	Silchar	KU	NDB	A
PPN	PUNE DVOR	VOR/ DME	AE	Silchar	ISLC	ILS	A
PPT	PATNA DVOR	VOR/ DME	AE	Silchar	ISLC	DME	A
PRA	PRATAPGARH DVOR	VOR/ DME	E	Sri Vijaya Puram	IPBR	ILS	A
PTN	Pantnagar	DME	A	Sri Vijaya Puram	IPBR	DME	A
QQZ	VADODARA DVOR	VOR/ DME	AE	Srinagar	SNG	NDB	A
RAJ	RAJSHAHI	VOR	E	Srinagar	ISRN	ILS	A
RC	RANCHI	NDB	A	Srinagar	ISRN	DME	A
RJM	RAJAHMUNDRY DVOR	VOR/ DME	AE	Surat	ISUT	ILS	A
RRC	RANCHI DVOR	VOR/ DME	AE	Surat	ISUT	DME	A
RRP	RAIPUR DVOR	VOR/ DME	AE	TEZPUR DVOR	TEZ	VOR/ DME	AE

ID	Station Name	Aid	Purpose	Station Name	ID	Aid	Purpose
RWA	REWA	VOR/ DME	AE	TEZU DVOR	TZU	VOR/ DME	AE
SAI	SRI SATYA SAI	NDB	AE	THIRUVANANTHAPUR AM DVOR	TVM	VOR/ DME	AE
SAM	SAMPLA DVOR	VOR/ DME	E	TIRUCHIRAPPALLI DVOR	TTR	VOR/ DME	AE
SDP	SAIDPUR	VOR	E	TIRUPATI DVOR	TTP	VOR/ DME	AE
SG	SONGARH	NDB	E	TURA	TA	NDB	A
SGR	SRINAGAR DVOR	VOR/ DME	AE	TUTICORIN	TU	NDB	AE
SI	SINDHUDURG	NDB	A	TUTICORIN DVOR	TCN	VOR/ DME	AE
SKA	SAKRAS DVOR	VOR/ DME		Thiruvananthapuram	ITDM	ILS	A
SL	SALEM	NDB	A	Thiruvananthapuram	ITDM	DME	A
SLA	SHIMLA DVOR	VOR/ DME	AE	Tiruchirappalli	ITCY	ILS	A
SNG	Srinagar	NDB	A	Tiruchirappalli	ITCY	DME	A
SO	SOLAPUR	NDB	A	Tirupathi	ITPY	DME	A
SP	SARSAWA	NDB	AE	Tirupati	ITPY	ILS	A
SRD	SHIRDI DVOR	VOR/ DME	AE	UDAIPUR DVOR	UUD	VOR/ DME	AE
SSB	SIKANDARABAD DVOR	VOR/ DME	E	UTTARLAI DVOR	UTR	VOR/ DME	AE
SSW	SARSAWA DVOR	VOR/ DME	A	Udaipur	IUDR	ILS	A
SUR	SURAT DVOR	VOR/ DME	AE	Udaipur	IUDR	DME	A
SYT	SYLHET	DVOR	E	Uttarlai	IUTR	ILS	A
TA	TURA	NDB	A	Uttarlai	IUTR	DME	A
TCN	TUTICORIN DVOR	VOR/ DME	AE	VADODARA DVOR	QQZ	VOR/ DME	AE
TEZ	TEZPUR DVOR	VOR/ DME	AE	VARANASI DVOR	BBN	VOR/ DME	AE
TS	JAMSHEDPUR	NDB	A	VIJAYWADA DVOR	BBZ	VOR/ DME	AE
TTP	TIRUPATI DVOR	VOR/ DME	AE	VISAKHAPATNAM DVOR	VSP	VOR/ DME	A
TTR	TIRUCHIRAPPALLI DVOR	VOR/ DME	AE	VISAKHAPATNAM DVOR	VVZ	VOR/ DME	AE
TU	TUTICORIN	NDB	AE	Vadodara	IVDD	ILS	A
TVM	THIRUVANANTHAPUR AM DVOR	VOR/ DME	AE	Vadodara	IVDD	DME	A
TZU	TEZU DVOR	VOR/ DME	AE	Varanasi	IVNS	ILS	A
UTR	UTTARLAI DVOR	VOR/ DME	AE	Varanasi	IVNS	DME	A
UUD	UDAIPUR DVOR	VOR/ DME	AE	Vijayawada	IVJA	ILS	A
VN	JINDAL VIJAYANAGAR	NDB	A	Vijayawada	IVJA	DME	A

ID	Station Name	Aid	Purpose	Station Name	ID	Aid	Purpose
VSP	VISAKHAPATNAM DVOR	VOR/ DME	A	Visakhapatnam	IVSA	ILS	A
VVZ	VISAKHAPATNAM DVOR	VOR/ DME	AE	Visakhapatnam	IVSA	DME	A

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2.1.2 Control Area

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Ahmedabad Control Area- Area bounded by lines joining points 250000N 0760000E; 210000N 0760000E; 212103N 0740857E; 213134N 0731852E; 212126N 0731451E; 213020N 0723307E then along the clockwise arc of a circle of 25NM radius centred at 214516N 0721126E to 212012N 0721228E; 211131N 0720523E; 204803N 0712758E; 220404N 0704226E then along the clockwise arc of a circle of 15NM radius centred at 221834N 0704646E to 222951N 0703603E; 224815N 0703900E; 224830N 0705000E; 225002N 0710459E; 225148N 0711200E; 232206N 0705045E; 235802N 0684000E then along India - Pakistan Border up to 252348N 0703953E; 245150N 0732450E; then along the clockwise arc of a circle of 30NM radius centred at 243706N 0735334E to 250000N 0741457E to 250000N 0760000E. • FL460/1000 ft AMSL up to 30 NM centred at 230416N 0723735E, excluding the airspace contained within Ahmedabad CTR. • FL460/FL065 between 30NM to 100NM centred at 230416N 0723735E, excluding the airspace contained within Bhavnagar CTA, Rajkot CTA and Udaipur CTA. • FL460/FL145 beyond 100NM centred at 230416N 0723735E. Airspace is classified as Class D excluding airspace classified as Class C given below: Airspace bound by a circle of 30 NM radius centred at 230416N 0723735E; • FL285/5500 ft. AMSL excluding the airspace contained within Ahmedabad CTR. Airspace between circles of 30 NM and 100 NM radii centred at 230416N 0723735E: • FL285/FL065. Airspace beyond 100 NM within centred at 230416N 0723735E: • FL285/FL145. FL 460 / 1000FT AMSL D	Ahmedabad ACC	Ahmedabad Control / Ahmedabad Radar English H24	119.35 MHZ 123.75 MHZ 134.2 MHZ	1. Aircraft below 1000 ft. AMSL between 15 NM and 30 NM from ARP of Ahmedabad Airport may contact Ahmedabad APP for traffic information. 2.Dynamic vertical sectorisation of ACC may be resorted based on traffic situation.
	Ahmedabad APP	Ahmedabad Approach / Ahmedabad Radar English H24	119.8 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Amritsar Control Area- 1 Area bounded by 320659N 0751556E; then along a counterclockwise arc of 20 NM radius centred at 321426N 0753759E to 315648N 0752648E; 314359N 0753956E; 311707N 0753202E; 305159N 0751956E; 304459N 0745327E; 310159N 0743457E; then northwards along the international border of India-Pakistan to the point of origin, excluding the airspace contained within Amritsar CTR FL 155/4 000 ft AMSL FL 155 / 4000FT AMSL D	Amritsar APP	Amritsar Approach English HO	119.05 MHZ 121.15 MHZ	1. Airspace limited to Indian Territory. 2. Airspace excludes Transit Corridor between Bhatinda and Halwara, bounded by coordinates 301809N 0744331E; 305528N 0752213E; 305135N 0752558E; 301415N 0744717E between FL 100 to FL 120 and A020 to A050, which is reserved for Military Flights.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Amritsar Control Area- 2 Area bounded by lines joining points 305159N 0751956E; 295518N 0754714E; 294425N 0750824E; 304459N 0745327E to point of origin. FL 155 / FL 95 D	Amritsar APP	Amritsar Control English H24	125.05 MHZ 128.725 MHZ	1. Transit Corridor (Between Bhatinda and Halwara) bounded by coordinates 301809N 0744331E; 305528N 0752213E; 305135N 0752558E; 301415N 0744717E between FL 100 to FL 120 and A020 to A050 is reserved for Military Flights. 2. Operational Hours of Amritsar Control Area-2 is BTN 0400-1000 UTC daily. 3. Beyond Operational Hours of Amritsar Control Area-2, Airspace will be under the jurisdiction of Delhi ACC. 4.All Aircraft transiting through this airspace shall address FPLs to VIARZRZX.
	Delhi ACC	Delhi Control/ Delhi Radar (RSR) English H24	124.55 MHZ 134.075 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Aurangabad Control Area- Area bounded by 201803N 0751457E; 210000N 0760000E; 202839N 0760000E; then along clockwise arc of 50NM centred at 195152N 0752351E to 192059N 0760536E; 191900N 0760000E; 191400N 0760000E; 192103N 0745957E; 191813N 0743646E; then along counter-clockwise arc of 100 NM centred at 190530N 0725158E to 195924N 0742116E; 201803N 0751457E. • FL145/2800 ft. AMSL upto 25NM from 195152N 0752351E, excluding the airspace contained within Aurangabad CTR. • FL145/FL055 beyond 25NM from 195152N 0752351E, excluding the airspace contained within Shirdi CTR and CTA. • Airspace is classified as Class D. FL 145 / 2800FT AMSL D	Aurangabad Approach Control	Aurangabad Approach English HO	118.35 MHZ 122.3 MHZ	Aircraft below 2800 ft AMSL between 10 NM and 25 NM from ARP of Aurangabad Airport may contact Aurangabad APP for traffic information.
Bhavnagar Control Area- Area bounded by a circle of radius 25 NM centered at 214516N 0721126E. • FL145/1100 ft. AMSL excluding the airspace contained within Bhavnagar CTR. • Airspace is classified as Class D FL 145 / 1100FT AMSL D	Bhavnagar Approach	Bhavnagar Approach English HO	118.15 MHZ 120.8 MHZ	Aircraft below 1100 ft AMSL between 10 NM and 25 NM from ARP of Bhavnagar Airport may contact Bhavnagar APP for traffic information.
Bhopal Control Area- Area bounded by points 240500N 0762845E; 240500N 0783240E; 224000N 0783240E; 224000N 0764216E; 225115N 0763600E; 230800N 0762845E; 231649N 0762845E and 240500N 0762845E. • FL145/2500 ft. AMSL upto 30NM from 231713N 0772013E excluding the airspace contained within Bhopal CTR. • FL145/FL055 beyond 30NM from 231713N 0772013E. • Airspace is classified as Class D. FL 145 / FL 55 D	Bhopal APP	Bhopal Tower English HO	118.05 MHZ 118.55 MHZ	Aircraft below 2500 ft AMSL between 11 NM and 30 NM from ARP of Bhopal Airport may contact Bhopal APP for traffic information.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Calicut Control Area- A Area bounded by 111559N 0762114E; 111500N 0763100E; 105500N 0762900E; 105559N 0761912E then along clockwise arc of 25 NM radius centered 110816N 0755702E to 111559N 0762114E, excluding the airspace contained within Calicut CTR. • FL145 / 1200 FT AMSL. Airspace classified as Class 'D'. FL 145 / 1200FT AMSL D	Calicut APP	Calicut APP English H24	119.15 MHZ 122.95 MHZ 123.35 MHZ	1. Aircraft below 1200 FT AMSL between 12NM and 25 NM from ARP of Calicut Aerodrome may contact Calicut APP for traffic information.
Calicut Control Area- B Area bounded by lines joining points 104318N 0755424E; 104318N 0750000E; 113000N 0750000E; 113000N 0753828E; 112713N 0754021E then along the counter clockwise arc of a circle of 25NM radius centred on 110816N 0755702E to point of origin. FL 145 / 7500FT AMSL D	Calicut APP	Calicut APP English H24	119.15 MHZ 122.95 MHZ 123.35 MHZ	1. Aircraft below 1200 FT AMSL between 12NM and 25 NM from ARP of Calicut Aerodrome may contact Calicut APP for traffic information.
Chennai Control Area- 1. Airspace bound by a circle of 30NM radius centered at ARP of Chennai Airport, excluding the vertical and lateral limits of Tirupati CTR. FL 145/FL 55 Airspace classified as Class C. 2. Airspace bound by a circle of 30NM to 50NM radius centered at ARP of Chennai Airport, excluding the vertical and lateral limits of Tirupati CTR. FL 145/FL 70 Airspace classified as Class C. 3. Airspace bound by a circle of 30NM to 50NM radius centered at Chennai ARP excluding the vertical and lateral limits of Tirupati CTR. FL 70/FL 55 Airspace classified as Class D.	Chennai APP	Chennai Approach Chennai Radar English H24	120.75 MHZ 125.5 MHZ 127.9 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Chennai Control Area- Sector OCH Area bounded by lines joining points 123935N 0833356E, 125930N 0833920E, 160538N 0843552E, 163721N 0845647E, 154200N 0855400E, 122308N 0890452E, 085553N 0922347E, 081234N 0942500E, 060000N 0942500E, 060000N 0920000E, 100000N 0820000E, 100000N 0814132E, -then along the anticlockwise arc of 200NM centered at 125936N 0801015E to the point of origin excluding the Controlled Airspace of Campbell Bay. • Airspace within ATS Routes is classified as E. • Airspace outside ATS Route segment is Classified as G. • FL 460 / SFC	Chennai OCC	Chennai Radio English H24	6583 KHZ 8861 KHZ 8909 KHZ	
	Chennai OCC	Chennai Oceanic Control English H24	124.45 MHZ 126.15 MHZ	
	Chennai OCC	Chennai Radio English H24	11285 KHZ 13318 KHZ 3470 KHZ 5670 KHZ	
Chennai Control Area- Sector UML Area bounded by lines joining points 110000N 0720000E; 110000N 0730600E; 101500N 0740700E; 103700N 0742000E; 100430N 0751407E; 102600N 0761430E; 112536N 0765503E; 113805N 0765956E; 124530N 0762715E; 124530N 0770830E; 125030N 0770830E; 130100N 0772550E; 130100N 0771410E then along the clockwise arc of a circle of 30NM radius centred on 131224N 0774356E to 133330N 0772045E; 144000N 0763600E; 145600N 0760600E; 144700N 0755800E; 155100N 0743700E; 162600N 0741100E; 162200N 0733400E; 161700N 0730000E; 150000N 0733500E; 150000N 0720000E to point of origin. FL 460 / FL 255 D	Chennai ACC (UML)	Chennai Control Chennai Radar (RSR) English H24	128.7 MHZ 134.425 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Lucknow Control Area - Sector A Area bounded by lines joining points 274301N 0795054E; 265801N 0810054E; 264718N 0812436E; 263014N 0811717E; 261435N 0810520E; 263201N 0804354E; 271301N 0792154E; 274301N 0795054E to point of origin. FL 105 / FL 50 D	Lucknow ACC	Lucknow Control English H24	120.45 MHZ	1. Air Traffic Services within Restricted Areas, when not active, will be provided by Lucknow ACC under Flexible Use of Airspace. 2. Status of Restricted Area and its Controlling unit may be obtained from Lucknow ACC.
	Lucknow APP	Lucknow Approach English HO	124.8 MHZ 125.8 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Chennai Control Area- Sector UPB Area bounded by lines joining points: 154200N 0855400E, 142804N 0901943E, 140000N 0920000E, 133000N 0942500E, 081234N 0942500E, 085553N 0922347E, 122308N 0890452E; to point of origin, excluding the controlled airspace of Sri Vijaya Puram, Shibpur and Carnicobar. Airspace within ATS Routes is classified as 'E'. Airspace outside ATS Route segment is classified as 'G' FL 460/SFC FL 460 / GND	Chennai OCC	Chennai Radio English H24	6583 KHZ 8861 KHZ 8909 KHZ	1. ADS-B based ATS surveillance services will be provided on opportunity basis within the portion of airspace bounded by coordinates: 081234N 0942500E, 085553N 0922347E, 122308N 0890452E and then along 220NM clockwise arc centered at Sri Vijaya Puram DVOR/DME PPB to 142804N 0901943E, 140000N 0920000E, 133000N 0942500E, to the point of origin. FL460/FL155 2. ATS in the remaining airspace of Chennai Control Area- Sector UPB will be provided by Chennai Oceanic Control unit using HF and CPDLC
	Chennai OCC	Chennai Radio English H24	11285 KHZ 13318 KHZ 3470 KHZ 5670 KHZ	
	Chennai OCC -	Chennai Radio English	124.45 MHZ 132.95 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Chennai Control Area- Sector UTV Area bounded by lines joining points 112130N 0780745E; 111400N 0781200E; 110300N 0781700E; 100000N 0794000E; 100000N 0800000E; 090000N 0793000E; 070000N 0770000E; 060000N 0770000E; 060000N 0740000E; 073000N 0740000E; 073000N 0720000E; 110000N 0720000E; 110000N 0730600E; 101500N 0740700E; 103700N 0742000E; 100430N 0751407E; 102600N 0761430E; 112536N 0765503E; 113805N 0765956E; 120400N 0771300E; 115800N 0773100E; 111806N 0772456E then along the counter clockwise arc of a circle of 100NM radius centred on 125705N 0773956E to point of origin. FL 460 / FL 255 D	Chennai ACC (UTV)	Chennai Control Chennai Radar (RSR) English H24	132.25 MHZ 132.5 MHZ	
Chennai Control Area- Sector Upper Bengaluru East (UBL East) Area bounded by lines joining points 160054N 0772258E; 155700N 0773100E; 155800N 0784500E; 142300N 0785400E; 140100N 0791600E then along the counter clockwise arc of a circle of 80NM radius centred on 125936N 0801015E to 130000N 0784800E; 130100N 0771410E then along the clockwise arc of a circle of 30NM radius centred on 131224N 0774356E to 134218N 0774011E; 160054N 0772258E to point of origin. FL 460 / FL 255 D	Chennai ACC (UBL EAST)	Chennai Control Chennai Radar (RSR) English H24	118.9 MHZ 134.3 MHZ	
Chennai Control Area- Sector Upper Bengaluru West (UBL West) Area bounded by lines joining points 164000N 0760000E; 160054N 0772258E; 134218N 0774011E then along the counter clockwise arc of a circle of 30NM radius centred on 131224N 0774356E to 133330N 0772045E; 144000N 0763600E; 145600N 0760600E; 144700N 0755800E; 155100N 0743700E; 162600N 0741100E; 163600N 0752800E to point of origin. FL 460 / FL 255 D	Chennai ACC (UBL WEST)	Chennai Control Chennai Radar (RSR) English	124.5 MHZ 134.3 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Chennai Control Area- Sector Upper Chennai UMM Area bounded by lines joining points 155800N 0784500E; 142300N 0785400E; 140100N 0791600E then along the counter clockwise arc of a circle of 80NM radius centred on 125936N 0801015E to 130000N 0784800E; 130000N 0782500E; 124500N 0782500E; 122800N 0791700E then along the clockwise arc of a circle of 100NM radius centred on 125705N 0773955E to 112130N 0780745E; 111400N 0781200E; 110300N 0781700E; 100000N 0794000E; 100000N 0800000E; 100006N 0814654E then along the counter clockwise arc of a circle of 200NM radius centred on 125936N 0801015E to 123935N 0833323E; 160538N 0843552E; 164604N 0823847E; 165700N 0822430E; 170916N 0820800E; 171500N 0820000E; 155900N 0791300E to point of origin. FL 460 / FL 255 D	Chennai ACC (UMM)	Chennai Control Chennai Radar (RSR) English H24	125.3 MHZ 133.95 MHZ 134.25 MHZ	
Chennai Control Area- Sector Upper Hyderabad (UHS) Area bounded by lines joining points 164000N 0760000E; 191400N 0760000E; 185931N 0772802E; 185838N 0775949E; 182442N 0800523E; 175010N 0811318E; 171500N 0820000E; 155900N 0791300E; 155700N 0773100E to point of origin. FL 460 / FL 255 D	Chennai ACC (UHS)	Chennai Control Chennai Radar (RSR) English H24	119.25 MHZ 128.1 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Chennai Upper Control Area- Area bounded by - 180000N 0760000E;191900N 0760000E; 194300N 0771000E;184250N 0820000E; 184100N 0824900E;154200N 0855400E; 123935N 0833323E; -then along the clockwise arc of 200NM centred at (125936.1N 0801014.5E) to 100006N 0814654E;100000N 0800000E; 090000N 0793000E;070000N 0770000E; 060000N 0770000E;060000N 0740000E; 073000N 0740000E;073000N 0720000E; 150000N 0720000E;150000N 0733500E; 161700N 0730000E;162200N 0733400E; 162600N 0741100E; 163600N 0752800E; 164000N 0760000E and 180000 N0760000E excluding the airspace bounded by 130000N 0782500E;124500N 0782500E; 122800N 0791700E; -then along clockwise arc of 100NM radius centred at 125705.1N 0773955.7E to 111800N 0772400E; 115800N 0773100E; 120400N 0771300E;113800N 0770000E; 124500N 0762700E;124500N 0770900E; 125030N 0770830E; 130100N 0772600E and 130000N 0782500E FL 460 / FL 255 D	Chennai Upper ACC	Chennai Control Chennai Radar (RSR) English H24	118.9 MHZ 119.25 MHZ 124.45 124.5 MHZ 125.3 MHZ 126.15 MHZ 128.1 MHZ 128.7 MHZ 132.25 MHZ 132.5 MHZ 132.95 MHZ 133.95 MHZ 134.25 MHZ 134.3 MHZ 134.425 MHZ	
Cochin Control Area- A Circular area of radius 25 NM centered at 100913N 0762426E excluding the airspace contained within Cochin CTR and portions of Cochin (Navy) VFR Flying Zone, Restricted Areas VOR 191-A & VOR 191-B. • 5500 FT AMSL / 900 FT AMSL. Airspace classified as Class ‘D'. 5500 FT AMSL/ 900FT AMSL D	Cochin APP	Cochin Approach/Cochin Radar English H24	119.75 MHZ 133.15 MHZ	1. Aircraft below 900 FT AMSL between 15 NM and 25 NM from ARP of Cochin International Airport may contact Cochin APP for traffic information.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Cochin Control Area- B Area bounded by 101500N 0772500E; 103639N 0770519E; then along clockwise arc of 25 NM radius centered at 110137N 0770230E to 105416N 0763812E; 105500N 762900E; 105559N 0761912E; then along clockwise arc of 25 NM radius centered at 110816N 0755702E to 104318N 0755424E; then along anti-clockwise arc of 45 NM radius centered at 100913N 0762426E to 094124N 0754830E; 093000N 0760700E; 093000N 0765800E and 101500N 0772500E; excluding portions of Restricted Areas VOR191-C and VOR191-D. • FL145 / 5500 FT AMSL. • Airspace classified as Class 'D', excluding the airspace bound by a circle of 25 NM radius centered at 100913N 0762426E from FL145 / 5500 FT AMSL, which is classified as Class 'C'. FL 145 / 5500FT AMSL D	Cochin APP	Cochin Approach/Cochin Radar English H24	119.75 MHZ 133.15 MHZ	1. Aircraft below 900 FT AMSL between 15 NM and 25 NM from ARP of Cochin International Airport may contact Cochin APP for traffic information. 2. Cochin Approach/Radar: 119.750MHZ (MAIN)/ 133.150MHZ (BACKUP)
Cochin Control Area- C Area bounded by 103700N 0742000E; 093000N 0760700E; 093000N 0765800E; 101800N 0772700E; 103600N 0774600E; 105700N 0772700E; 110900N 0772700E; 111806N 0772456E; 115800N 0773100E; 120400N 0771300E; 113806N 0765956E; 124530N 0762715E; 122229N 0751514E to point of origin. • FL 255 / FL 145. • Airspace classified as Class 'D', excluding the airspace bound by a circle of 50 NM radius centered at 100913N 0762426E from FL255 / FL145, which is classified as Class 'C'. FL 255 / FL 145 D	Cochin ACC	Cochin Control/Cochin Radar English H24	128.3 MHZ 133.15 MHZ	
Coimbatore Control Area- A Area bounded by 111403N 0764025E; then along the clockwise arc of a circle of 25 NM radius centered at 110137N 0770230E to 105416N 0763812E; 105500N 0762900E; 111500N 0763100E to point of origin, excluding the airspace contained within Coimbatore CTR. • 5500 FT AMSL / 2000 FT AMSL. Airspace classified as Class 'D'. 5500 FT AMSL/ 2000FT AMSL D	Coimbatore APP	Coimbatore Approach English H24	120.05 MHZ 126.55 MHZ	1. Aircraft below 2000 FT AMSL between 13 NM and 25 NM from ARP of Coimbatore Aerodrome may contact Coimbatore APP/ Sulur TWR for traffic information.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Coimbatore Control Area- B Area bounded by 111403N 0764025E; then along the clockwise arc of a circle of 25 NM radius centered at 110137N 0770230E to 112640N 0770048E; 120400N 0771300E; 115800N 0773100E; 111806N 0772456E; 110900N 0772700E; 105700N 0772700E; 103600N 0774600E; 101800N 0772700E; 101500N 0772500E; 103639N 0770519E then along the clockwise arc of a circle of 25 NM radius centered at 110137N 0770230E to 105416N 0763812E; 105500N 0762900E; 111500N 0763100E; to point of origin, excluding the airspace contained within Coimbatore CTR. • FL 145 / 5500 FT AMSL. Airspace classified as Class 'D'. FL 145 / 5500FT AMSL D	Coimbatore APP	Coimbatore Approach English H24	120.05 MHZ 126.55 MHZ	1. Aircraft below 2000 FT AMSL between 13 NM and 25 NM from ARP of Coimbatore Aerodrome may contact Coimbatore APP/ Sulur TWR for traffic information.
DURGAPUR Control Area- Area bounded by lines joining points 232816N 0873353E; 232824N 0872547E; 231500N 0870900E; 232243N 0865949E then along the clockwise arc of a circle of 20NM radius centred on 233728N 0871433E to 232816N 0873353E to point of origin. FL 105 / FL 65 D	Panagarh APP	Panagarh Approach English HJ	118.8 MHZ	1. Under the control of Panagarh ATC when Panagarh is on watch and handed over to Durgapur when Panagarh is not available. 2. ATC Frequencies: i. Panagarh TWR: 124.000 MHz ii. Panagarh APP: 118.800 MHz iii. Durgapur TWR: 119.450 MHz 118.550 MHz

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Delhi Control Area- 1 283700N 0771555E; 283700N 0772955E; 283400N 0774855E; 283000N 0783055E; 281500.9N 0781950.2E; 281658.5N 0780933.1E then along clockwise arc of 30NM radius centred at 281032.22N 0773622.49E to 274443.2N 0775345.8E; then along counterclockwise arc of 35NM radius centred at 270902N 0775652E to 272901N 0772455 E; 272901N 0765056E; 280500N 0754256E; 285000N 0753356E; 293300N 0755956E; 290700N 0765756E; 294500N 0771055E; 294100N 0772955E; 285600N 0771155E; - then along river Yamuna to 283700N 0771555E. FL 100 / 5000 FT AMSL Airspace is classified as Class D excluding the airspace classified as Class C given below: Airspace bounded by a circle of 30 NM radius centred at 283407N 0770644E within control area excluding the Airspace of Jewar CTR. FL 100 / 5000 FT AMSL FL 100 / 5000FT AMSL D	Delhi Approach Control	Delhi Approach/Delhi Radar English H24	118.825 MHZ 124.2 MHZ 126.35	
Lucknow Control Area - Sector B Area bounded by lines joining points 264718N 0812436E; 262801N 0820053E; 255301N 0813253E; 261435N 0810520E; 263014N 0811717E to point of origin. FL 105 / FL 60 D	Lucknow ACC	Lucknow Control English H24	120.45 MHZ	1. Air Traffic Services within Restricted Areas, when not active, will be provided by Lucknow ACC under Flexible Use of Airspace. 2. Status of Restricted Area and its Controlling unit may be obtained from Lucknow ACC.
	Lucknow APP	Lucknow Approach English HO	124.8 MHZ 125.8 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Lucknow Control Area - Sector East Area bounded by lines joining points 273424N 0824443E; 270922N 0813300E; 264531N 0805340E; 262401N 0801154E; 255358N 0800131E; 252555N 0802744E; 263015N 0811717E; 264718N 0812436E to point of origin. FL 255 / FL 105 D	Lucknow ACC	Lucknow Control English H24	120.45 MHZ	1. Air Traffic Services within Restricted Areas, when not active, will be provided by Lucknow ACC under Flexible Use of Airspace. 2. Status of Restricted Area and its Controlling unit may be obtained from Lucknow ACC.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Delhi Control Area- 2 Area bounded by 285000N 0751656E; 304559N 0745857E; 305159N 0751956E; 294400N 0755256E; 290700N 0765756E; 294500N 0771055E; 294100N 0772955E; 285600N 0771155E; - then along the river Yamuna to 283700N 0771555E; 283700N 0772955E; 283400N 0774855E; 283000N 0783055E; 274301N 0795054E; 271301N 0792154E; 274401N 0775655E; 274501N 0775255E; -then along counterclockwise arc of 35NM radius centred at 270902N 0775652E to 272901N 0772455E; 272901N 0765056E 264628N 0762601E; 273558N 0763807E; 274906N 0751908E; 280500N 0754256E; 280100N 0734457E; 284800N 0734457E; 285000N 0751656E excluding the Airspace of Jewar Control Area. FL155 / FL100 Airspace is classified as Class D excluding the airspace classified as Class C given below: Airspace bounded by a circle of 60 NM radius centred at 283407N 0770644E within control area excluding the Airspace of Jewar CTR. Vertical Limit: FL 155/ FL 100 Area bounded by - 300000N 0750626E; 304459N 0745327E; 304559N 0745857E; 300000N 0750626E. Excluding the jurisdiction of Amritsar Control Area-2. FL 155 / FL 110 Airspace classified as Class D. FL 155 / FL 100	Delhi ACC	Delhi Control English H24	119.5 MHZ 120.9 MHZ 124.55 MHZ 125.7 MHZ 125.95 MHZ 132.15 MHZ 132.775 MHZ 132.85 MHZ 132.975 MHZ 133.9 MHZ 134.075 MHZ 134.5 MHZ	1. Corridor bounded by coordinates 2952N 07551E; 2943N 07555E; 2933N 07519E; 2942N 07518E, 2952N 07551E from FL 90 to FL120 and A020 to A050 is reserved for Indian Air Force aircraft crossing ATS route. This Airspace is not available for civil flights. 2. ADS/CPDLC LOGONVIDF 3. Operational Hours of Amritsar Control Area-2 will be notified through NOTAM. 4. Beyond Operational Hours of Amritsar Control Area-2, the airspace will be under the jurisdiction of Delhi ACC.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Delhi- LDP1 (Lower Delhi ACC North East) Area bounded by - 283401N 0770537E; 272008N 0775711E; 263513N 0790228E; 271301N 0792154E; 272001N 0792854E; 274301N 0795054E; 282551N 0803028E; 283612N 0804021E; then Westward along the International Boundary of India with Nepal, then along International Boundary with China up to point 313010N 0784245E; 300550N 0783633E; 285957N 0774017E; 283401N 0770537E FL255/FL155 Airspace is classified as Class D excluding the airspace classified as Class C given below: Airspace bound by a circle of 60 NM radius centred at 283407N 0770644E. Vertical Limit: FL 255/ FL 155 FL 255 / 155FT AMSL D	Delhi ACC	Delhi Control/Delhi Radar (RSR) English H24	120.9 MHZ 134.5 MHZ	Excluding SUA structures when with defence agencies
Delhi- LDP2 (Lower Delhi ACC South East) Area bounded by - 283401N 0770537E; 272008N 0775711E; 263513N 0790228E; 255358N 0800131E; 251701N 0794954E; 253601N 0793554E; 250801N 0785955E; 250001N 0790455E; 250000N 0760000E; 263257N 0762243E; 273558N 0763807E; 283401N 0770537E. FL 255/ FL 155 Airspace is classified as Class D excluding the airspace classified as Class C given below: Airspace bound by a circle of 60 NM radius centred at 283407N 0770644E. Vertical Limit: FL 255/ FL 155 FL 255 / 155FT AMSL D	Delhi ACC	Delhi Control/Delhi Radar (RSR) English H24	125.7 MHZ 133.9 MHZ	Excluding SUA structures when with defence agencies

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Delhi- LDP3 (Lower Delhi ACC South West) Area bounded by - 283401N 0770537E; 273558N 0763807E; 263257N 0762243E; 272210N 0743841E; 261336N 0725543E; 250000N 0733211E Then along a counterclockwise arc of 30 NM radius centred at 243706N 0735334E to 245150N 0732450E; 252348N 0703953E; then Northwards following the geographical boundaries of India and Pakistan till it meets point, 282753N 0721335E; 282733N 0751902E; 283401N 0770537E. FL255/FL155 Airspace is classified as Class D excluding the airspace classified as Class C given below: Airspace bound by a circle of 60 NM radius centred at 283407N 0770644E. Vertical Limit: FL 255/ FL 155 FL 255 / 155FT AMSL D	Delhi ACC	Delhi Control/Delhi Radar (RSR) English H24	132.15 MHZ 132.85 MHZ	Excluding SUA structures when with defence agencies
Delhi- LDP4 (Lower Delhi ACC North West) Area bounded by - 282753N 0721335E then Northwards following the geographical boundaries of India and Pakistan then, 320659N 0751556E; 314359N 0753956E; 315959N 0755956E; 320000N 0784600E; then eastward along the International Boundary to a point on common border of India and China, which is 313010N 0784245E; to 300550N 0783633E; 285957N 0774017E; 283401N 0770537E; 282733N 0751902E; 282753N 0721335E. FL255/FL155 Airspace is classified as Class D excluding the airspace classified as Class C given below: Airspace bound by a circle of 60 NM radius centred at 283407N 0770644E. Vertical Limit: FL255/ FL155 Excluding the jurisdiction of Lower Area (LAR) Amritsar. FL 255 / FL 155 FL 255 / 155FT AMSL D	Delhi ACC	Delhi Control/ Delhi Radar (RSR) English H24	124.55 MHZ 134.075 MHZ	1. Airspace limited to Indian Territory. 2. Operational Hours of Lower Area (LAR) Amritsar will be notified through NOTAM. 3. Beyond Operational Hours of Lower Area (LAR) Amritsar, Airspace will be under the jurisdiction of Delhi ACC. 4. ADS/CPDLC LOG ON VIDF.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Delhi- UDP1 (Upper Delhi ACC North East) Area bounded by lines joining points272008N 0775711E; 255358N 0800131E; 262401N 0801154E; 264531N 0805340E; 270922N 0813300E;273424N 0824443E; then Westward along the International Boundary of India with Nepal, then along International Boundary with China up to point 313010N 0784245E; 300550N 0783633E; 285957N 0774017E; 282311N0781501E;272008N0775711E; FL460/FL255 Airspace is classified as Class D excluding the airspace classified as Class C given below: Airspace bound by a circle of 60 NM radius centred at 283407N 0770644E. Vertical Limit: FL 285/ FL 255 FL 460 / 255FT AMSL D	Delhi ACC	Delhi Control/Delhi Radar (RSR) English H24	119.5 MHZ 134.5 MHZ	Excluding SUA structures when with defence agencies
Lucknow Control Area - Sector West Area bounded by coordinates – 283612N 0804021E, then along the Indo-Nepal border to 273424N 0824443E; 270922N 0813300E, 264531N 0805340E; 262401N 0801154E; 255358N 0800131E; 263513N 0790228E; 271301N 0792154E; 272001N 0792854E; 274301N 0795054E; 282551N 0803028E; 283612N 0804021E FL 255 / FL 105 D	Lucknow ACC	Lucknow Control English H24	120.45 MHZ	1. Air Traffic Services within Restricted Areas, when not active, will be provided by Lucknow ACC under Flexible Use of Airspace. 2. Status of Restricted Area and its Controlling unit may be obtained from Lucknow ACC.
Madurai Control Area- A Circular area of radius 25 NM centered at 095006N 0780519E, excluding the airspace contained within Madurai CTR. • 5500 FT AMSL / 2000 FT AMSL. Airspace classified as Class ‘D’. 5500 FT AMSL/ 2000FT AMSL D	Madurai APP	Madurai Approach English H24	118.45 MHZ 122.8 MHZ	1. Aircraft below 2000 FT AMSL between 13 NM and 25 NM from ARP of Madurai Aerodrome may contact Madurai APP for traffic information.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Madurai Control Area- B Area bounded by lines joining points 095638N 0774051E; 101500N 0772500E; 101800N 0772700E; 103600N 0774600E; 102006N 0775956E; 101456N 0780352E; 102600N 0781121E; 101749N 0782403E; 100929N 0783644E; 095819N 0782915E then along the clockwise arc of a circle of 25NM radius centred on 095006N 0780519E to 095638N 0774051E to point of origin. FL 145 / 5500FT AMSL D	Madurai APP	Madurai Approach English H24	118.45 MHZ 122.8 MHZ	1. Aircraft below 2000 FT AMSL between 13 NM and 25 NM from ARP of Madurai Aerodrome may contact Madurai APP for traffic information.
Mangalore Control Area- A Circular area of radius 25 NM centered at 125743N 0745323E, excluding the airspace contained within Mangalore CTR. * FL 145 / 1400 FT AMSL. Airspace classified as Class 'D'. FL 145 / 1400FT AMSL D	Mangalore APP	Mangalore Approach/ Mangalore Radar English HO	118.75 MHZ 122.1 MHZ 123.85 MHZ 125.05 MHZ	1. Aircraft below 1400 FT AMSL between 12 NM and 25 NM from ARP of Mangalore airport may contact Mangalore APP for traffic information.
Mangalore Control Area- B Circular area contained between 25 NM and 50 NM radius centered at 125743N 0745323E. • FL 145 / 5500 FT AMSL. Airspace classified as Class 'D'. FL 145 / 5500FT AMSL D	Mangalore APP	Mangalore Approach/ Mangalore Radar English HO	118.75 MHZ 122.1 MHZ 123.85 MHZ 125.05 MHZ	1. Aircraft below 1400 FT AMSL between 12 NM and 25 NM from ARP of Mangalore airport may contact Mangalore APP for traffic information.
Mangalore Control Area- C Area bounded by lines joining points 110000N 0720000E; 110000N 0730600E; 101500N 0740700E; 103700N 0742000E; 122229N 0751514E; 124530N 0762715E; 125030N 0762500E; 132900N 0760500E then along the clockwise arc of a circle of 90NM radius centred on 130800N 0773700E to 142500N 0764700E; 144000N 0763600E; 155700N 0773100E; 164000N 0760000E; 162200N 0733400E; 161700N 0730000E; 150000N 0733500E; 150000N 0720000E to point of origin. FL 255 / FL 145 D	Mangalore ACC	Mangalore Control Mangalore Radar (RSR) English H24	127.55 MHZ 128.7 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Mumbai ACC U5N- Area bounded by 233000N 0643000E: then eastwards along 233000N parallel till 233000N 0661133E; 212946N 0661626E; 204447N 0654500E; 220636N0624836E; 233000N 0643000E. FL460 / FL260 • Airspace classified as Class E. FL 460 / FL 260 E	Mumbai ACC	Mumbai Control/Mumbai Radar English H24	10018 KHZ 13288 KHZ 3467 KHZ 3476 KHZ 5658 KHZ 6661 KHZ 8879 KHZ	
Mumbai ACC U5V- Area bounded by 233000N 0661133E; then eastwards along 233000N parallel till 233000N 0682300E then northwards along coastline to 234000N 0681000E then along common boundary of India and Pakistan to 235802N 0684000E, 232206N 0705045E, 225148N 0711200E, 225002N 0710459E, 224830N 0705000E, 224815N 0703900E, 222951N 0703603E then along counterclockwise arc of 15NM centred at 221834N 0704646E to 220404N 0704226E, 204803N 0712758E, 204603N 0710859E, 205703N 0701559E, 210552N 0694635E, 211236N 0685128E, 202202N 0685128E, 191820N 0685128E, 204447N 0654500E, 212946N 0661626E to the point of origin. FL 460/FL 260 Airspace classified as Class D FL 460 / FL 260 D	VABB ACC	Mumbai Control/Mumbai Radar English H24	135.75 MHZ	1. To help reduce R/T congestion, pilots shall not request for DCT routing in Mumbai airspace. ATC will initiate DCT routing as and when feasible depending upon traffic.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Mumbai Control Area AP1- Area bounded by circle of radius 25NM centred at 190530N 0725158E, excluding the airspace contained within Common CTR for Mumbai and Navi Mumbai FL 165/1100 FT AMSL (Common CTR for Mumbai and Navi Mumbai Area bounded by 184851.48N 0725835.19E to 185346.14N 0724833.45E then along a clockwise arc of radius 12 NM centred at 190530N 0725158E to 191601.52N 0725753.92E to 191034.92N 0730933.74E then along a clockwise arc of radius 12 NM centred at 185939.79N 0730412.96E to the point of origin, excluding airspace of TSA 509. Vertical limits FL95) Area bounded by lines joining points 184258.82N 0724009.15E, 183656.33N 0725302.33E then along the counterclockwise arc of 25 NM centred at 185939.79N 0730412.96E to 184354.67N 0732444E then along the clockwise arc of a circle of 30NM radius centred at 183448N 0735451 to 185259.53N 0732938.30E then along the counterclockwise arc of 25 NM centred at 185939.79N 0730412.96E to 192252.25N 0731412.90E, 192701.31N 0730547.29E then along the clockwise arc of 25 NM centred at 190530N 0725158E to the point of origin. FL 165/2500 FT AMSL Area bounded by lines joining points 190047N 0733852E, 190313N 0734514E then along the counter clockwise arc of circle of 50 NM radius centred at 190530N 0725158E to 182800N 0732736E; 183435N 0732316E then along the clockwise arc of a circle of 30NM radius centred at 183448N 0735451E to 184354.67N 0732444E then along a clockwise arc of radius 25 NM centred at 185939.79N 0730412.96E to 183656.33N 0725302.33E; 184258.82N 0724009.15E then along a clockwise arc of radius 25 NM centred at 190530N 0725158E to 192701.31N 0730547.29E to 192252.25N 0731412.90E then along a clockwise arc of radius 25 NM centred at 185939.79N 0730412.96E to 185259.53N 0732938.30E then along the clockwise arc of a circle of 30 NM radius centred at 183448N 0735451 to the point of origin. FL 165/FL 65 Airspace classified as Class D except for the airspace 25 NM around 190530N 0725158E, 4000 ft to FL 145 which is classified as class C. FL 165 / 1100FT AMSL D	Mumbai APP	Mumbai Approach/ Mumbai Radar English H24	119.3 MHZ 120.35 MHZ 124.65 MHZ 125.45 MHZ 126.975 MHZ 127.9 MHZ	1. To help reduce R/T congestion, pilots shall not request for DCT routing in Mumbai airspace. ATC will initiate DCT routing as and when feasible depending upon traffic.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Mumbai Lower ACC L1- Area bounded by lines joining points 190530N 0725158E, 190047N 0733852E, 191603N 0741857E, 191813N 0743646E then along the counterclockwise arc of a circle of 100 NM radius centred at 190530N 0725158E to 195934N 0742146N, 194503N 0733957E, 201203N 0733657E, 203149N 0734611E then along the counterclockwise arc of a circle of 100 NM radius centred at 190530N 0725158E to 204429N 0723824E; to the point of origin. FL 285/FL 165 within 50 NM centred at 190530N 0725158E. FL 285/FL 65 from 50 NM to 60 NM centred at 190530N 0725158E. FL 285/FL 95 within 60 NM to 100 NM centred at 190530N 0725158E. Airspace classified as Class D FL 285 / FL 95 D	Mumbai ACC	Mumbai Control / Mumbai Radar English H24	133.425 MHZ	1. To help reduce R/T congestion, pilots shall not request for DCT routing in Mumbai airspace. ATC will initiate DCT routing as and when feasible depending upon traffic.
Mumbai Lower ACC L2- Area bounded by lines joining points 190530N 0725158E, 190047N 0733852E, then along the counterclockwise arc of a circle of 30NM radius centred at 183448N 0735451 to 183435N 0732316E, 174532N 0735533E, then along the clockwise arc of a circle of 100NM radius centred at 190530N 0725158E, 172508N 0725429E to the point of origin. FL 285/FL 165 within 50 NM centred at 190530N 0725158E. FL 285/FL 65 from 50 NM to 60 NM centred at 190530N 0725158E. FL 285/FL 95 within 60 NM to 100 NM centred at 190530N 0725158E. Airspace classified as Class D FL 285 / FL 65 D	Mumbai ACC	Mumbai Control / Mumbai Radar English H24	133.925 MHZ	1. To help reduce R/T congestion, pilots shall not request for DCT routing in Mumbai airspace. ATC will initiate DCT routing as and when feasible depending upon traffic.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Mumbai Lower ACC L3- Area bounded by lines joining points 172508N 0725429E, 190530N 0725158E, 190817N 0720000E, 192853N 0710939E then along the counterclockwise arc of a circle of 100 NM radius centred at 190530N 0725158E to the point of origin. FL 285/FL 165 within 50 NM centred at 190530N 0725158E. FL 285/FL 65 from 50 NM to 60 NM centred at 190530N 0725158E. FL 285/FL 95 within 60 NM to 100 NM centred at 190530N 0725158E. Airspace classified as Class D FL 285 / FL 65 D	Mumbai ACC	Mumbai Control / Mumbai Radar English H24	133.925 MHZ	1. To help reduce R/T congestion, pilots shall not request for DCT routing in Mumbai airspace. ATC will initiate DCT routing as and when feasible depending upon traffic.
Mumbai Lower ACC L4- Area bounded by lines joining points 204429N 0723824E, 190530N 0725158E, 190817N 0720000E, 192853N 0710939E, then along the clockwise arc of a circle of 100NM radius centred at 190530N 0725158E to the point of origin. FL 285/FL 165 within 50 NM centred at 190530N 0725158E. FL 285/FL 65 from 50 NM to 60 NM centred at 190530N 0725158E. FL285/FL 95 within 60 NM to 100 NM centred at 190530N 0725158E. Airspace classified as Class D FL 285 / FL 65 D	Mumbai ACC	Mumbai Control / Mumbai Radar English H24	133.425 MHZ	1. To help reduce R/T congestion, pilots shall not request for DCT routing in Mumbai airspace. ATC will initiate DCT routing as and when feasible depending upon traffic.
Mumbai Oceanic Control- Sector CON Encompassing the entire continental airspace of Mumbai FIR outside the CTAs, CTRs and ATZs. UNL / SFC a) Airspace within ATS route segment and outside controlled airspace is classified as Class E. b) Airspace outside ATS route segment and controlled airspace is classified as Class G. UNL / GND D	Mumbai OCC	Mumbai Radio English H24	10018 KHZ 13288 KHZ 3467 KHZ 3476 KHZ 5658 KHZ 6661 KHZ 8879 KHZ	1. To help reduce R/T congestion, pilots shall not request for DCT routing in Mumbai airspace. ATC will initiate DCT routing as and when feasible depending upon traffic.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Mumbai Oceanic Control- Sector O3 Area bounded by lines joining points. 213311N0620827E, 181214N0685128E, 191820N0685128E, 204447N0654500E, 220636N0624836E to the point of origin. FL 460 / SFC a) Airspace within ATS route segment and outside controlled airspace is classified as Class E. b) Airspace outside ATS route segment and controlled airspace is classified as Class G. FL 460 / GND D	Mumbai OCC	Mumbai Radio English H24	10018 KHZ 13288 KHZ 3467 KHZ 3476 KHZ 5658 KHZ 6661 KHZ 8879 KHZ	1. To help reduce R/T congestion, pilots shall not request for DCT routing in Mumbai airspace. ATC will initiate DCT routing as and when feasible depending upon traffic.
Mumbai Oceanic Control- Sector O4 Area bounded by coordinates. 205515N 0612218E, 150000N 0720000E, 150000N 0733500E, 161700N 0730000E, 175804N 0692559E, 175050N 0685128E, 181214N 0685128E, 213311N 0620827E to the point of origin. FL 460 / SFC a) Airspace within ATS route segment and outside controlled airspace is classified as Class E. b) Airspace outside ATS route segment and controlled airspace is classified as Class G. FL 460 / GND D	Mumbai OCC	Mumbai Radio English H24	10018 KHZ 13288 KHZ 3467 KHZ 3476 KHZ 5658 KHZ 6661 KHZ 8879 KHZ	1. To help reduce R/T congestion, pilots shall not request for DCT routing in Mumbai airspace. ATC will initiate DCT routing as and when feasible depending upon traffic.
Mumbai Oceanic Control- Sector O5 Area bounded by coordinates. 201832N 0603739E, 130000N 0720000E, 150000N 0720000E, 205515N0612218E to the point of origin. FL 460 / SFC a) Airspace within ATS route segment and outside controlled airspace is classified as Class E. b) Airspace outside ATS route segment and controlled airspace is classified as Class G. FL 460 / GND D	Mumbai OCC	Mumbai Radio English H24	10018 KHZ 13288 KHZ 3467 KHZ 3476 KHZ 5658 KHZ 6661 KHZ 8879 KHZ	1. To help reduce R/T congestion, pilots shall not request for DCT routing in Mumbai airspace. ATC will initiate DCT routing as and when feasible depending upon traffic.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Mumbai Oceanic Control- Sector O6 Area bounded by coordinates. 201832N 0603739E, 194800N 0600000E, 060000S 0600000E, 060000S 0680000E, 000000N 0680000E, 030500N 0700000E, 073000N 0700000E, 073000N 0720000E, 130000N 0720000E to the point of origin. FL 460 / SFC a) Airspace within ATS route segment and outside controlled airspace is classified as 'E' (except for routes N628 and G465 which are classified as Class F) b) Airspace outside ATS route segment and controlled airspace is classified as Class G. FL 460 / GND D	Mumbai OCC	Mumbai Radio English H24	10018 KHZ 13288 KHZ 3467 KHZ 3476 KHZ 5658 KHZ 6661 KHZ 8879 KHZ	1. To help reduce R/T congestion, pilots shall not request for DCT routing in Mumbai airspace. ATC will initiate DCT routing as and when feasible depending upon traffic.
Mumbai Upper ACC U1- Area bounded by lines joining points 213020N 0723307E, 212126N 0731451E, 213134N 0731852E, 212103N 0740857E, 203149N 0734611E, 201203N 0733657E, 194503N 0733957E, 201803N 0751457E, 210000N 0760000E, 191900N 0760000E, 191400N 0760000E, 192103N 0745957E, 191813N 0743646E, 191603N 0741857E, 190047N 0733852E, 190530N 0725158E 204429N 0723824E to the point of origin FL 460/FL 285 within 100 NM centred at 190530N 0725158E. FL 460/FL 145 between 100 NM to 150NM centred at 190530N 0725158E. FL 460/FL 195 beyond 150 NM centred at 190530N 0725158E. Airspace classified as Class D FL 460 / FL 145 D	Mumbai ACC	Mumbai Control/Mumbai Radar English H24	132.7 MHZ	1. To help reduce R/T congestion, pilots shall not request for DCT routing in Mumbai airspace. ATC will initiate DCT routing as and when feasible depending upon traffic.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Mumbai Upper ACC U2- Area bounded by lines joining points 190530N 0725158E, 190047N 0733852E then along the counterclockwise arc of a circle of 30 NM radius centred at 183448N 0735451E to 183435N 0732316E, 171604N 0741457E, 163416N 0751437E, 162600N 0741100E, 162200N 0733400E, 161700N 0730000E, 161908N 0725519E, 172508N 0725429E to the point of origin FL 460/FL 285 within 100 NM centred at 190530N 0725158E. FL 460/FL 145 between 100 NM to 150 NM centred at 190530N 0725158E. FL 460/FL 195 beyond 150 NM centred at 190530N 0725158E. Airspace classified as Class D FL 460 / FL 145 D	Mumbai ACC	Mumbai Control/Mumbai Radar English H24	125.35 MHZ	1. To help reduce R/T congestion, pilots shall not request for DCT routing in Mumbai airspace. ATC will initiate DCT routing as and when feasible depending upon traffic.
Mumbai Upper ACC U3- Area bounded by lines joining points 190530N 0725158E, 172508N 0725429E, 161908N 0725519E, 175804N 0692559E, 175050N 0685128E, 202202N 0685128E, 192853N 0710939E, 190817N 0720000E to the point of origin. FL 460/FL 285 within 100 NM centred at 190530N 0725158E. FL 460/FL 145 between 100 NM to 150NM centred at 190530N 0725158E. FL 460/FL 195 beyond 150 NM centred at 190530N 0725158E. Airspace classified as Class D FL 460 / FL 145 D	Mumbai ACC	Mumbai Control/Mumbai Radar English H24	133.3 MHZ	1. To help reduce R/T congestion, pilots shall not request for DCT routing in Mumbai airspace. ATC will initiate DCT routing as and when feasible depending upon traffic.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Mumbai Upper ACC U4- Area bounded by lines joining points 211131N 0720523E, 212012N 0721235E then along the counterclockwise arc of a circle of 25 NM radius centred at 214516N 0721126E to 213020N 0723307E, 204429N 0723824E, 190530N 0725158E, 190817N 0720000E, 192853N 0710939E, 202202N 0685128E, 211236N 0685128E, 210552N 0694635E, 205703N 0701559E, 204603N 0710859E, 204803N 0712758E to the point of origin. FL 460/FL 285 within 100 NM centred at 190530N 0725158E. FL 460/FL 145 between 100 NM to 150 NM centred at 190530N 0725158E. FL 460/FL 195 beyond 150 NM centred at 190530N 0725158E. Airspace classified as Class D. FL 460 / FL 145 D	Mumbai ACC	Mumbai Control/Mumbai Radar English H24	133.85 MHZ	1. To help reduce R/T congestion, pilots shall not request for DCT routing in Mumbai airspace. ATC will initiate DCT routing as and when feasible depending upon traffic.
Mysuru Control Area- Area bounded by 115300N 0765300E; then along the clockwise arc of radius of 25 NM centered at 121357N 0763923E to 123740N 0763115E, then to point of origin, excluding the airspace contained within Mysuru CTR. • FL100 / 3100 FT AMSL. Airspace classified as Class 'D'. FL 100 / 3100FT AMSL D	Mysuru Approach	Mysuru Approach English HO	118.25 MHZ	1. Aircraft below 3100 FT AMSL between 10 NM and 25 NM from ARP of Mysuru Aerodrome may contact Mysuru APP for traffic information.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Nagpur Control Area - Sector A Nagpur Control Area - A Area bounded by coordinates 224000N 0764956E; 224000N 0783240E; 222850N 0802116E; 213009N 0803537E; 203108N 0810523E; 190253N 0802330E; 194303N 0770956E; 193603N 0764956E; to 224000N 0764956E: • FL 460 / 2100 ft AMSL up to 25 NM centred at 210530N 0790254E excluding the airspace contained within Nagpur CTR • FL 460 / FL55 between 25 to 50NM centred at 210530N 0790254E • FL 460 / FL95 beyond 50NM centred at 210530N 0790254E • Airspace classified as Class D. FL 460 / FL 95 D	Nagpur ACC	Nagpur Control Nagpur Radar (RSR) English H24	123.9 MHZ 132.3 MHZ 133.65 MHZ	1. Aircraft below 2100 ft. AMSL between 15 NM and 25 NM from Nagpur ARP may contact Nagpur APP for traffic information. 2. Dynamic Sectorisation of ACC may be resorted on operational requirement as follows: i. Sector North: Above line joining COORD 211433N 0760000E, 214539N 0790319E, 221324N 0802503E FREQ VHF 123.9. ii. Sector South: Below line joining COORD 211433N 0760000E,214539N 0790319E,221324N 0802503E FREQ: VHF 133.65.
	Nagpur APP	Nagpur Approach/ Nagpur Radar English H24	120.4 MHZ 121.9 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Nagpur Control Area - Sector B Area bounded by lines joining points 250000N 0760000E; 250001N 0790455E; 231049N 0800334E; 222850N 0802116E; 224000N 0783240E; 224000N 0764956E; 193603N 0764956E; 191900N 0760000E to point of origin. FL 460 / FL 145 D	Nagpur ACC	Nagpur Control Nagpur Radar (RSR) English H24	123.9 MHZ 132.3 MHZ 133.65 MHZ	1. Dynamic Sectorisation of ACC may be resorted on operational requirement as follows: i. Sector North: Above line joining COORD 211433N 0760000E, 214539N 0790319E, 221324N 0802503E FREQ VHF 123.9. ii. Sector South: Below line joining COORD 211433N 0760000E,214539N 0790319E,221324N 0802503E FREQ: VHF 133.65.
Nagpur Control Area - Sector C Area bounded by lines joining points 191900N 0760000E; 193603N 0764956E; 194303N 0770956E; 190253N 0802330E; 182442N 0800523E; 185838N 0775949E; 185931N 0772802E; 191400N 0760000E to point of origin. FL 460 / FL 255 D	Nagpur ACC	Nagpur Control Nagpur Radar (RSR) English H24	123.9 MHZ 132.3 MHZ 133.65 MHZ	1. Dynamic Sectorisation of ACC may be resorted on operational requirement as follows: i. Sector North: Above line joining COORD 211433N 0760000E, 214539N 0790319E, 221324N 0802503E FREQ VHF 123.9. ii. Sector South: Below line joining COORD 211433N 0760000E,214539N 0790319E,221324N 0802503E FREQ: VHF 133.65.
Nagpur Control Area - Sector D Area bounded by lines joining points 203108N 0810523E; 190253N 0802330E; 184300N 0820000E to point of origin. FL 255 / FL 95 D	Nagpur ACC	Nagpur Control Nagpur Radar (RSR) English H24	123.9 MHZ 132.3 MHZ 133.65 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Patna Control Area- Sector 1 Circular area centered on 253537N 0850531E within a 30NM radius. FL 065 / 1000FT AMSL D	Patna Approach	Patna Approach English H24	121.1 MHZ 127.775 MHZ	Aircraft below 1000 ft AMSL between 15 NM and 30 NM from ARP of Patna Aerodrome may contact Patna APP for traffic information.
Patna Control Area- Sector 2 Area bounded by lines joining points 262250N 0844150E then along the clockwise arc of a circle of 50NM radius centred on 253537N 0850531E to 262511N 0851234E; 244648N 0851828E then along the clockwise arc of a circle of 50NM radius centred on 253537N 0850531E to 254809N 0841156E; 255749N 0844257E to point of origin. FL 105 / FL 65 D	Patna Approach	Patna Approach English H24	121.1 MHZ 127.775 MHZ	
Patna Control Area- Sector 3 Area bounded by lines joining points 262511N 0851234E then along the clockwise arc of a circle of 50NM radius centred on 253537N 0850531E to 244648N 0851828E to point of origin. FL 215 / FL 65 D	Patna Approach	Patna Approach English H24	121.1 MHZ 127.775 MHZ	
Rajahmundry Control Area- Area bounded by 164409N 0813724E; 163749N 0812409E; 165549N 0811512E; 170001N 0812359E then along the clockwise arc of a circle of 25 NM radius centered on 170634N 0814910E to point of origin, excluding the airspace contained within Rajahmundry CTR. • FL145 / 1200 FT AMSL. Airspace classified as Class 'D'. FL 145 / 1200FT AMSL D	Rajahmundry Approach	Rajahmundry Approach English HO	122.3 MHZ 124.325 MHZ	1. Aircraft below 1200 FT AMSL between 10 NM and 25 NM from ARP of Rajahmundry Airport may contact Rajahmundry APP for traffic information.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Delhi- UDP2 (Upper Delhi ACC South East) Area bounded by - 271410N 0765715E; 271525 N0764329E; 272019N 0763507E; 270002N 0762257E; 263257N 0762243E 250000N 0760000E; 250001N 0790455E; 250801N 0785955E; 253601N 0793554E; 251701N 0794954E; 255358N 0800131E; 272008N 0775711E; 270940N 0773449E; 271410N 0765715E. FL460/FL255 Airspace classified as D. FL 460 / 255FT AMSL D	Delhi ACC	Delhi Control/Delhi Radar (RSR) English H24	125.95 MHZ 133.9 MHZ	Excluding SUA structures when with defence agencies
Delhi- UDP3 (Upper Delhi ACC South West) Area bounded by - 250000N 0760000E; 250000N 0741457E then along a counterclockwise arc of 30 NM radius centered at 243706N 0735334E; to 245150N 0732450E; 252348N 0703953E then Northwards following the geographical boundaries of India & Pakistan till it meets the points 282753N 0721335E; 282733N 0751902E; 280000N 0752121E; 272019N 0763507E; 270002N 0762257E; 263257N 0762243E; 250000N 0760000E; FL 460/ FL 255 Airspace classified as D. FL 460 / 255FT AMSL D	Delhi ACC	Delhi Control/Delhi Radar (RSR) English H24	132.5 MHZ 132.85 MHZ	Excluding SUA structures when with defence agencies

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Delhi- UDP4 (Upper Delhi ACC North West) Area bounded by - 282753N 0721335E; then Northwards following the geographical boundaries of India and Pakistan then, 320659N 0751556E; 314359N 0753956E; 315959N 0755956E; 320000N 0784600E; then Eastward Along the International Boundary to a point on Common Border of India and China, which is 313010N 0784245E; to 300550N 0783633E; 285957N 0774017E; 294931N 0760804E; 285129N 0752958E; 282733N 0751902E; 282753N 0721335E. FL 460 /FL 255 Airspace is classified as Class D excluding the airspace classified as Class C given below: Airspace bound by a circle of 60 NM radius centred at 283407N 0770644E. Vertical Limit: FL 285/ FL 255 FL 460 / 255FT AMSL D	Delhi ACC	Delhi Control/Delhi Radar (RSR) English H24	132.975 MHZ 134.075 MHZ	Excluding SUA structures when with defence agencies
Delhi- UDP5 (Upper Delhi ACC Central) UDP5 (Upper Delhi ACC Central): Area bounded by - 270940N 0773449E; 271410N 0765715E; 271525N 0764329E; 272019N 0763507E; 280000N 0752121E; 282733N 0751902E; 285129N 0752958E; 294931N 0760804E; 285957N 0774017E; 282311N 0781501E; 272008N 0775711E; 270940N 0773449E. FL460/FL255 Airspace is classified as Class D excluding the airspace classified as Class C given below: Airspace bound by a circle of 60 NM radius centred at 283407N 0770644E. Vertical Limit: FL 285/ FL 255 FL 460 / 255FT AMSL D	Delhi ACC	Delhi Control/Delhi Radar (RSR) English H24	132.775 MHZ 134.075 MHZ	Excluding SUA structures when with defence agencies

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Gaya Control Area- Sector 1 Area bounded by lines joining points 251244N 0844402E then along the counter clockwise arc of a circle of 30NM radius centred on 253537N 0850531E to 250649N 0851502E; 244925N 0852725E then along the clockwise arc of a circle of 50NM radius centred on 253537N 0850531E to 245904N 0842728E then along the clockwise arc of a circle of 30NM radius centred on 244453N 0845633E to point of origin. FL 065 / 1400FT AMSL D	Gaya Approach	Gaya Tower English HO	118.25 MHZ 118.45 MHZ	Aircraft below 1400 ft AMSL between 10 NM and 30 NM from ARP of Gaya Aerodrome may contact Gaya APP for traffic information.
Gaya Control Area- Sector 2 Area bounded by lines joining points 245904N 0842728E then along the counter clockwise arc of a circle of 50NM radius centred on 253537N 0850531E to 244925N 0852725E; 244634N 0852927E then along the clockwise arc of a circle of 30NM radius centred on 244453N 0845633E to point of origin. FL 105 / 1400FT AMSL D	Gaya Approach	Gaya Tower English HO	118.25 MHZ 118.45 MHZ	
Goa Control Area- 1 Area bounded by lines joining points 153545N 0732759E then along the clockwise arc of a circle of 25NM radius centred on 154433N 0735201E to 155237N 0741620E; 153855N 0741620E; 153545N 0741131E to point of origin. FL 085 / 1600FT AMSL D	MOPA APP	Mopa Approach English H24	123.8 MHZ 125.15 MHZ	
Goa Control Area- 2 Area bounded by lines joining points 153545N 0732759E; 153545N 0741131E; 153131N 0741410E then along the clockwise arc of a circle of 25NM radius centred on 154433N 0735201E to point of origin. FL 085 / 1600FT AMSL D	Goa Approach	Goa APP English HO	118.1 MHZ 119.7 MHZ	1. Air traffic services provided by Goa (Indian Navy) 2. When Airspace is released by ATC Goa then Air traffic services will be provided by Mopa App under FUA
Goa Control Area- 3 Area bounded by lines joining points 153545N 0732759E; 153545N 0741131E; 153131N 0741410E; 150719N 0742646E then along the clockwise arc of a circle of 50NM radius centred on 154433N 0735201E to 153545N 0730100E to point of origin. FL 195 / FL 85 D	Goa Approach	Goa APP English HO	118.1 MHZ 119.7 MHZ	1. Air traffic services provided by Goa (Indian Navy) 2. When Airspace is released by ATC Goa then Air traffic services will be provided by Mopa App under FUA

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Goa Control Area- 4 Area bounded by lines joining points 153545N 0732759E then along the clockwise arc of a circle of 25NM radius centred on 154433N 0735201E to 160931N 0735446E; 163443N 0735159E then along the counter clockwise arc of a circle of 50NM radius centred on 154433N 0735201E to 153545N 0730100E to point of origin. FL 195 / 3600FT AMSL D	MOPA APP	Mopa Approach English H24	123.8 MHZ 125.15 MHZ	
Goa Control Area- 5 Area bounded by lines joining points 153545N 0732759E then along the clockwise arc of a circle of 25NM radius centred on 154433N 0735201E to 160931N 0735446E; 163443N 0735159E then along the clockwise arc of a circle of 50NM radius centred on 154433N 0735201E to 150719N 0742646E; 153131N 0741410E; 153545N 0741131E to point of origin. FL 195 / FL 85 D	MOPA APP	Mopa Approach English H24	123.8 MHZ 125.15 MHZ	
Goa Control Area- 6 Area bounded by lines joining points 160557N 0730501E; 161504N 0724458E; 163534N 0730628E then along the counter clockwise arc of a circle of 150NM radius centred on 190530N 0725158E to 165308N 0740713E; 162028N 0742844E then along the counter clockwise arc of a circle of 50NM radius centred on 154433N 0735201E to point of origin. FL 195 / FL 85 D	MOPA APP	Mopa Approach English H24	123.8 MHZ 125.15 MHZ	
Gondia Control Area- Area bounded by lines joining points 212807N 0795041E then along the clockwise arc of a circle of 25NM radius centred on 213125N 0801716E to 211747N 0795446E then along the counter clockwise arc of a circle of 50NM radius centred on 210530N 0790254E to point of origin. FL 095 / 2800FT AMSL D	Gondia Approach	Gondia Tower English HO	118.35 MHZ 118.7 MHZ	Aircraft below 2800 ft AMSL between 12 NM and 25 NM from ARP of Gondia Airport may contact Gondia APP for traffic information.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Guwahati Control Area- Area bounded by - 262702N 0903949.0E; 262702N 0921448E; 260737N 0922332E; 260715N 0922155E; 254720N 0921620E; 251845N 0924835E -then along an anticlockwise arc of 25NM centred 245502N 0925848E to 245602N 0923048E along Indo- Bangladesh border to 252002N 0895250E; 254602N 0903949E; 262702N 0903949E FL 255 / FL 85 D	Guwahati APP	Guwahati Approach Guwahati Radar(TAR) English HO	120.5 MHZ 123.3 MHZ	i. All aircraft operating within Guwahati FIR shall relay in-flight position report and departure information. Forward estimates etc. as appropriate on HF RDARA frequency to Guwahati FIC. ii. Flight operating on ATS route A599 & B465 will follow the existing procedure and report position to Kolkata FIC on appropriate HF MWARA frequency. iii. In case of poor contact on HF, pilot shall request appropriate ATC unit on VHF to relay its position to Guwahati FIC. iv. All aerodromes within Guwahati FIR shall pass relevant aircraft movement data to Guwahati FIC through available channels. v. Hours of operation of Guwahati FIC: 0030-1430 UTC daily. (Refer Notam for current watch hours).
Hashimara Control Area- Indian Air Force Area bounded by coordinates:- 265901N 0885550E - THEN ALONG INDO-BHUTAN BORDER TO 264302N 0895249E 263702N 0895149E 262702N 0903949E 260602N 0903949E 261502N 0894750E 260902N 0894500E- THEN ALONG INDO/BANGLADESH BORDER TO 262602N 0885550E 265901N 0885550E UNL / FL 075	Hashimara APP	Hashimara Approach English	130.4 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Hyderabad Control Area- A Circular area of radius 25 NM centered at 171426N 0782544E, excluding the airspace contained within Shamshabad CTR. • 5500 FT AMSL / 3600 FT AMSL. Airspace classified as Class 'D' 5500 FT AMSL/ 3600FT AMSL D	Hyderabad APP	Hyderabad Approach Hyderabad Radar English H24	120.25 MHZ 125.55 MHZ	1. Aircraft below 3600 FT AMSL between 15 NM and 25 NM from ARP of Shamshabad Aerodrome may contact Hyderabad APP for traffic information..
Hyderabad Control Area- B Area bounded by 175004N 0774756E; 174304N 775356E; then along the clockwise arc of a circle of 25 NM radius centered at 175504N 0772956E to 173044N 0773615E; then along the counter clockwise arc of a circle of 50 NM radius centered at 171426N 0782544E to point of origin. • FL 145 / 5500 FT AMSL. • Airspace classified as Class 'D' except for airspace ound by a circle of 30 NM radius centered at 171426N 782544E between FL100 / 6000 FT AMSL and airspace bound by a circle of 50 NM radius centered at 171426N 0782544E between FL145 / FL100 designated as Class 'C' airspace. FL 145 / 5500FT AMSL D	Hyderabad APP	Hyderabad Approach Hyderabad Radar English H24	120.25 MHZ 125.55 MHZ	1. Aircraft below 3600 FT AMSL between 15 NM and 25 NM from ARP of Shamshabad Aerodrome may contact Hyderabad APP for traffic information..
Hyderabad Control Area- C Area bounded by 164000N 0760000E; 191900N 0760000E; 194300N 0771000E; 184250N 0820000E; 171500N 0820000E; 155900N 0791300E; 155700N 0773100E to point of origin. • FL 255 / FL145. • Airspace classified as Class 'D' except for airspace bound by a circle of 100 NM radius centered at 171426N 0782544E within the lateral limits of Hyderabad Control Area from FL255 / FL145 designated as Class 'C' airspace. FL 255 / FL 145 D	Hyderabad ACC.	Hyderabad Control Hyderabad Radar (RSR) English H24	120.95 MHZ 128.35 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Indore Control Area- Area bounded by lines joining points 224000N 0764216E; 225115N 0763600E; 230800N 0762845E; 231649N 0762845E then along the counter clockwise arc of a circle of 50NM radius centered at 224324N 0754820E to 224000N 0764216E. • FL145/2900 ft. AMSL upto 30NM from 224324N 0754820E, excluding the airspace contained within Indore CTR; • FL145/FL055 beyond 30NM from 224324N 0754820E. • Airspace is classified as Class D. FL 145 / 2900FT AMSL D	Indore APP	Indore Approach English HO	118.5 MHZ 122.8 MHZ	Aircraft below 2900 ft AMSL between 11 NM and 30 NM from ARP of Indore Airport may contact Indore APP for traffic information.
Jaipur Control Area- 1 Area Bounded by: 274906N 0751908E; 273558N 0763807E; 263257N0762243E; 250000N 0760000E; 250000N 0741457E then along a counterclockwise arc of radius 30 NM center at 243706N 0735334E to 250000N 0733211E; 261336N 0725543E; 272210N 0743841E to point of origin. • FL 155/2300 FT AMSL up to 25NM centered at 64927N 0754809E excluding Jaipur CTR. • FL 155/5000 FT between 25NM to 50NM centered at 264927N 0754809E within the lateral limit of Jaipur Control Area1, excluding airspace of Kishangarh CTR. • FL 155/FL 105 beyond 50NM centered at 264927N 0754809E within the lateral limit of Jaipur Control Area1. D	Jaipur ACC	Jaipur Area English H24	125.975 MHZ 127.575 MHZ	
	Jaipur Approach	Jaipur Approach English H24	119.75 MHZ 120.225 MHZ	
Jaipur Control Area- 2 Area bounded by lines joining points 263257N 0762243E; 250000N 0760000E; 250000N 0741457E then along the counter clockwise arc of a circle of 30NM radius centred on 243706N 0735334E to 250000N 0733211E; 261336N 0725543E; 272210N 0743841E to point of origin. FL 255 / FL 155 D	Jaipur ACC	Jaipur Area English H24	125.975 MHZ 127.575 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Jewar Control Area- Area bounded by lines joining points 281659N 0780933E; 281022N 0784416E then along the clockwise arc of a circle of 60NM radius centred on 281032N 0773622E to 273231N 0782850E; 274443N 0775346E then along the counter clockwise arc of a circle of 30NM radius centred on 281032N 0773622E to point of origin. FL 155 / 3500FT AMSL D	VIND TWR	Jewar Tower English HO	118.675 MHZ 119.125 MHZ	
	Delhi Approach Control	Delhi Approach Radar English H24	126.35 MHZ	
	VIND APP	Jewar Approach English HO	120.825 MHZ 122.175 MHZ	
Kannur Control Area- Area bounded by lines joining points 112713N 0754021E; 113000N 0753828E; 113000N 0750000E; 120755N 0750000E then along the counter clockwise arc of a circle of 50NM radius centred on ARP VOML (125743N 0745323E) to 122317N 0753025E; 121013N 0754600E then along the clockwise arc of a circle of 20NM radius centred on ARP VOKN (115457N 0753245E) to 113859N 0754507E; 113208N 0754907E then along the counter clockwise arc of a circle of 25NM radius centred on ARP VOCL (110816N 0755702E) to 112713N 0754021E to point of origin. FL 145 / 1400FT AMSL D	Kannur APP	Kannur Tower English H24	121.175 MHZ 121.975 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Kolkata Lower Control Area- Sector Lower Kolkata East (LKE) Area bounded byKolkata VOR CEA, 223539N 0885626E; 210000N 0920000E; 182318N 0920000E; 201507N 0872651E; 203416N 0863738E; 222203N 0875651E; to Kolkata VOR CEA. FL 255/FL 105 Airspace within a lateral limit of 25nm radius centred at Kolkata ARP. FL 255/4000 FT AMSL • Airspace classified as 'C'. Airspace within a lateral limit of 25 NM to 80 NM from Kolkata ARP. [Excluding airspace of Bangladesh] FL 255/FL105 • Airspace classified as 'C'. Airspace within a lateral limit of 80 NM to 150 NM from Kolkata ARP. [Excluding airspace of Bangladesh] FL 255/FL150 • Airspace classified as 'C'. FL 460 / FL 50	Kolkata ACC (LKE)	Kolkata Control Kolkata Radar (RSR) English	120.7 MHZ	Within the triangular area of Dhaka FIR 210000N 0920000E; 223500N 0885600E and213800N 0891000E responsibility for the provision of ATS between FL 50 to FL 460 is delegated to India. FL 255/FL 50 Airspace classified as 'D'.
	Kolkata APP	Kolkata Approach Kolkata Radar (ASR) English H24	127.9 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Kolkata Lower Control Area- Sector Lower Kolkata West (LKW) Area bounded by - 225817N 0840745E; 241232N 0842722E; 244431N 0845638E; 244419N 0851837E; 230726N 0880229E then clockwise arc of 35NM centred at Kolkata VOR CEA to 230559N 0885303E then along the international border of India and Bangladesh to 223539N 0885626E; Kolkata VOR CEA; 222203N 0875651E; 203416N 0863738E to 225817N 0840745E. FL 255/FL 105 Airspace classified as ‘D’. Airspace within a lateral limit of 25nm radius centred at Kolkata ARP. FL 255/4000 FT AMSL • Airspace classified as ‘C’. Airspace within a lateral limit of 25 NM to 80 NM from kolkata ARP. [Excluding airspace of Bangladesh] FL 255/FL105 • Airspace classified as ‘C’. FL 255 / 4000FT AMSL	Kolkata APP	Kolkata Approach Kolkata Radar (ASR) English H24	127.9 MHZ	Kolkata Control Area
	Kolkata ACC (LKW)	Kolkata Control Kolkata Radar (RSR) English	120.1 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Kolkata Lower Control- Sector Lower Kolkata North (LKN) Area bounded by – 244419N 0851837E; 244437N 0870228E; 253653N 0873319E; 262957N 0865355E then along the international border of India and Nepal to 262303N 0873449E; 260605N 0875630E; 255512N 0880545E then along international border of India and Bangladesh to 230559N 0885303E then 35NM anticlockwise arc centred at Kolkata VOR CEA to 230726N 0880229E; 244419N 0851837E. FL 255/FL 105 • Airspace classified as 'D'. Airspace within a lateral limit of 25nm radius centred at Kolkata ARP. FL 255/4000 FT AMSL • Airspace classified as 'C'. Airspace within a lateral limit of 25 NM to 80 NM from Kolkata ARP. [Excluding airspace of Bangladesh] FL 255/FL105 • Airspace classified as 'C'. Airspace within a lateral limit of 80 NM to 150 NM from Kolkata ARP. [Excluding airspace of Bangladesh] FL 255/FL150 • Airspace classified as 'C'. FL 255 / 4000FT AMSL	Kolkata APP	Kolkata Approach Kolkata Radar (ASR) English H24	127.9 MHZ	Kolkata Control Area
	Kolkata ACC (LKN)	Kolkata Control Kolkata Radar (RSR) English H24	127.3 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Kolkata Oceanic Control Area- Sector OKC Area bounded by -140000N 0920000E, then along Kolkata – Chennai FIR boundary to 154200N 0855400E to 163721N 0845647E to 201507N 0872651E to 182318N 0920000E then along India – Myanmar FIR boundary to 140000N 0920000E UNL / GND a. Airspace within ATS route segment outside controlled airspace is classified as 'E'. b. Airspace outside ATS route segment is classified as 'G'	Kolkata Radio (RDARA)	Kolkata Radio English H24	6583 KHZ 8861 KHZ 8906 KHZ	HF frequency 8861 KHz is introduced as MWARA frequency between 1330 UTC to 0130 UTC next day. All International flights are advised to contact Kolkata Radio on 8861KHz, in case of communication difficulties on HF MWARA frequencies 10066/6556/ 3491KHz due propagation constraints
	Kolkata OCC	Kolkata Oceanic Control English H24	128.3 OTHER	
	Kolkata Radio (MWARA)	Kolkata Radio English H24	10066 KHZ 3491 KHZ 6556 KHZ	
Kolkata Upper Control Area- Sector UKE Area bounded by - Kolkata VOR CEA, 223539N 0885626E; 210000N 0920000E; 182318N 0920000E; 201507N 0872651E; 205025N 0862049E; 222203N 0875651E; Kolkata VOR CEA. FL 460/FL 255 • Airspace classified as 'D'. Airspace within a lateral limit of 25 NM radiu centred at Kolkata ARP. FL 285/FL255 • Airspace classified as 'C'. Airspace within a lateral limit of 25 NM to 80 NM from Kolkata ARP. [Excluding airspace o Bangladesh] FL 285/FL255 • Airspace classified as 'C'. Airspace within a lateral limit of 80 NM to 150 NM from Kolkata ARP. [Excluding airspace o Bangladesh] FL 285/FL255 • Airspace classified as 'C'. FL 460 / FL 255	Kolkata ACC	Kolkata Control Kolkata Radar (RSR) English	120.575 MHZ	Sector Upper Kolkata East (UKE) Within the triangular area of Dhaka FIR 210000N 0920000E; 223500N 0885600E and 213800N 0891000E responsibility for the provision of ATS between FL050 to FL460 is delegated to India

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Kolkata Upper Control Area- Sector UKN Area bounded by - 244419N 0851837E; 264755N 0851105E then along the Indo-Nepal border to 262303N 0873449E; 260605N 0875630E; 255512N 0880545E then along international border of India and Bangladesh to 230559N 0885303E then 35NM anticlockwise arc centred at (CEA VOR) to 230726N 0880229E; 244419N 0851837E FL 460/FL 255 • Airspace classified as 'D'. Airspace within a lateral limit of 25 NM radius centred at Kolkata ARP. FL 285/FL255 • Airspace classified as 'C'. Airspace within a lateral limit of 25 NM to 80 NM from Kolkata ARP. [Excluding airspace of Bangladesh] FL 285/FL255 • Airspace classified as 'C'. Airspace within a lateral limit of 80 NM to 150 NM from kolkata ARP. [Excluding airspace of Bangladesh] FL 285/FL255 • Airspace classified as 'C' FL 460 / FL 255	Kolkata ACC	Kolkata Control - Kolkata Radar (RSR) English	133.75 MHZ	Sector Upper Kolkata North (UKN)

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Kolkata Upper Control Area- Sector UKW Area bounded by - 225817N 0840745E; 234355N 0832608E; 240036N 0834933E; 244431N 0845638E; 244419N 0851837E; 230726N 0880229E; then clockwise arc of 35NM centred at Kolkata VOR CEA to 230559N 0885303E then along the international border of India and Bangladesh to 223539N 0885626E; Kolkata VOR CEA; 222203N 0875651E; 205025N 0862049E; 215903N 0850927E; 225817N 0840745E FL 460/FL 255 • Airspace classified as 'D'. Airspace within a lateral limit of 25 NM radius centred at Kolkata ARP. FL 285/FL255 • Airspace classified as 'C'. Airspace within a lateral limit of 25 NM to 80 NM from Kolkata ARP. [Excluding airspace of Bangladesh] FL 285/FL255 • Airspace classified as 'C'. Airspace within a lateral limit of 80 NM to 150 NM from Kolkata ARP. [Excluding airspace of Bangladesh] FL 285/FL255 • Airspace classified as 'C'. FL 460 / FL 255	Kolkata ACC	Kolkata Control/Kolkata Radar (RSR) English	132.25 MHZ	Sector Upper Kolkata West (UKW)

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Kolkata Upper Control Area- Sector UBN Area bounded by - 231049N 0800334E; 250001N 0790455E; 250801N 0785955E; 253601N 0793554E; 251701N 0794954E; 262401N 0801154E; 264531N 0805340E; 270922N 0813300E; 273424N 0824443E then along the international border of Nepal and India to 264755N 0851105E; 244419N 0851837E; 244431N 0845638E; 240036N 0834933E; 234355N 0832608E; 235753N 0802058E; 231049N 0800334E. FL 460 / FL 255 D	Kolkata Control	Kolkata Control/Kolkata Radar (RSR) English H24	124.65 MHZ 127.525 MHZ	Sector Upper Varanasi (UBN)
Kolkata Upper Control Area- Sector URP Area bounded by lines joining points 213009N 0803537E; 210042N 0813615E; 205427N 0823604E; 210316N 0834700E; 215903N 0850927E; 225817N 0840745E; 234355N 0832608E; 235753N 0802058E; 231049N 0800334E; 222850N 0802116E to point of origin. FL 460 / FL 255 D	Kolkata ACC	Kolkata Control/Kolkata Radar (RSR) English	125.9 MHZ	Sector Upper Raipur (URP)
Kolkata Upper Control Area- Sector Upper Bhubaneswar (UBS) Area bounded by lines joining points 213009N 0803537E; 203108N 0810523E; 190253N 0802330E; 182442N 0800523E; 175010N 0811318E; 170916N 0820800E; 165700N 0822430E; 164604N 0823847E; 160538N 0843552E; 163721N 0845647E; 201507N 0872651E; 205025N 0862049E; 215903N 0850927E; 210316N 0834700E; 205427N 0823604E; 210042N 0813615E to point of origin. FL 460 / FL 255 D	Kolkata ACC	Kolkata Control/Kolkata Radar (RSR) English	132.35 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Kolkata Upper Control Area- Sector Upper Guwahati (UGT) Area bounded by - 262303N 0873449E then East along the border of Nepal and India to a point on common border of Nepal, China and India, then along the border of India and China to a point on common border of India, China and Myanmar, then along the border of India and Myanmar to a common point on Myanmar and Bangladesh then along the common border of India and Bangladesh (clockwise) to 255512N 0880545E, 260605N 0875630E to 262303N 0873449E. FL 460/FL 255 Airspace classified as Class 'D' FL 460 / FL 255 D	Kolkata ACC.	Kolkata Control Kolkata Radar (RSR) English H24	125.775 MHZ	
Lower Area Amritsar- LAR Area Bounded by: 320659N 0751556E; then along a counterclockwise arc of 20 NM radius centred at 321426N 0753759E to 315648N 0752648E; 314359N 0753956E; 320000N 0760000E; 320000N 0765431E; 295800N 0755633E; 295518N 0754714E; 294425N 0750824E; 290932N 0730036E then northwards along the nternational border of India-Pakistan to the point of origin. FL 255 / FL 155 FL 255 / FL 155 D	Amritsar APP	Amritsar Control English H24	125.05 MHZ 128.725 MHZ	1. The area excludes SUA structures when with Defence Agencies. 2. Operational Hours of Lower Area Amritsar (LAR) is BTN 0400-1000 UTC daily. 3. Beyond Operational Hours of Lower Area (LAR) Amritsar, the airspace will be under the jurisdiction of Delhi ACC. 4.All Aircraft transiting through this airspace shall address FPLs to VIARZRZX.
	Delhi ACC	Delhi Control/ Delhi Radar (RSR) English H24	124.55 MHZ 134.075 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Rajkot Control Area- Area bounded by lines joining points 214847N 0705135E; 220404N 0704226E then along the clockwise arc of a circle of 15NM radius centred on 221834N 0704646E to 222951N 0703603E; 224815N 0703900E; 224830N 0704952E; 224821N 0710127E then along the clockwise arc of a circle of 25NM radius centred on 222318N 0710246E to 220154N 0711650E to point of origin. FL 145 / FL 65 D	Rajkot APP	Rajkot Tower English HO	120.025 MHZ 120.275 MHZ	
Ranchi Control Area - Sector A Area bounded by lines joining points 223340N 0854200E then along the clockwise arc of a circle of 50NM radius centred on ARP VERC (231851N 0851916E) to 231230N 0861330E; 231230N 0854840E; 225250N 0853225E to point of origin. FL 105 / FL 55 D	Ranchi APP	Ranchi Approach English HO	124.425 MHZ	
Ranchi Control Area - Sector B Area bounded by lines joining points 223340N 0854200E; 224845N 0861003E; 231230N 0861330E; 231230N 0854840E; 225250N 0853225E to point of origin. FL 105 / FL 70 D	Ranchi APP	Ranchi Approach English HO	124.425 MHZ	
Rewa Control Area Area bounded by lines joining points 242141N 0805334E; 244715N 0810146E then along the clockwise arc of a circle of 20NM radius centred on 243013N 0811323E to point of origin. FL 105 / 1200FT AMSL D	VERW APP	Rewa Approach English HO	119.775 MHZ 120.8 MHZ	When Rewa CTA is not active then the area bounded by line joining points 242408.84N 0805421.36E; 244011.11N 0805930.11E; then along the clockwise arc of a circle of radius 10 NM centered on 243343.49N 0805106.60E to point of origin from GND to FL 65 will remain with Satna CTR.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Shirdi Control Area- Area bounded by lines joining points 195118N 0735755E; 200353N 0743411E; then along the clockwise arc of a circle of 25NM radius centered on 194127N 0742218E to 191721N 0742934E; 191622N 0742136E; then along the clockwise arc of a circle of 25NM radius centered on 194127N 0742218E to 195118N 0735755E. • FL095/3000 ft. AMSL excluding the airspace contained within Shirdi CTR. • Airspace is classified as Class D. FL 095 / 3000FT AMSL D	Shirdi APP	Shirdi Approach English HO	118.875 MHZ 121.225 MHZ	Aircraft below 3000 ft AMSL between 11 NM and 25 NM from ARP of Shirdi Airport may contact Shirdi APP for traffic information.
Surat Control Area- Area-A Area bounded by 204703N 0724154E; 205103N 0724958E; 204908N 0725418E, then along the counter clockwise arc of a circle of 20NM radius centered at 210658N 0724431E to 204703N 0724154E. • FL145/1100 ft. AMSL upto 20NM excluding the airspace contained within Surat CTR. Area-B Area bounded by lines joining points 212126N 0731451E; 204422N 0731015E; then along the counter clockwise arc of a circle of 100NM radius centered at 190530N 0725158E to 203950N 0721542E; 211131N 0720523E; 212012N 0721235E; then along the counter clockwise arc of a circle of 25 NM radius centered at 214516N 0721126E to 213020N 0723307E to 212126N 0731451E. • FL145/FL060 beyond 20NM, excluding the airspace contained within Surat CTR and Area-A of CTA. • Airspace is classified as Class D. FL 145 / 1100FT AMSL D	Surat APP	Surat Tower English HO	118.05 MHZ 118.55 MHZ	Aircraft below 1100 ft AMSL between 15 NM and 20 NM from ARP of Surat Airport may contact Surat APP for traffic information.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Thiruvananthapuram Control Area- Area bounded by a circle of radius 50 NM centred at 082846.14N 0765512.05E. * FL145/1000 FT AMSL upto 25NM, excluding the airspace contained within Thiruvananthapuram CTR. * FL145/5500 FT AMSL between 25NM to 50NM Airspace is classified as Class D excluding airspace classified as Class C given below: * Airspace bounded by a circle of 15 NM radius centered at Thiruvananthapuram ARP. * FL145/5500 FT AMSL * Airspace between circles of 15 NM and 50 NM radii centered at Thiruvananthapuram ARP: FL145/8500 FT AMSL FL 145 / 1000FT AMSL D	Thiruvananthapuram APP	Thiruvananthapuram Approach Thiruvananthapuram Radar English H24	119.6 MHZ	
Thiruvananthapuram Control Area- Area bounded by – 111400N 0781200E; 110300N 0781700E; 100000N 0794000E; 100000N 0800000E; 090000N 0793000E; 070000N 0770000E; 060000N 0770000E; 060000N 0740000E; 073000N 0740000E; 073000N 0720000E; 110000N 0720000E; 110000N 0730600E; 101500N 0740700E; 103700N 0742000E; 093000N 0760700E; 093000N 0765800E; 101800N 0772700E; 103600N 0774600E; 105700N 0772700E; 110900N 0772700E; 111800N 0772400E; then along counter clock wise arc of 100NM radius centred at 125705.1N 0773955.7E to 112130N 0780745E and 111400N 0781200E FL255/FL145 Airspace is classified as Class D excluding airspace classified as Class C given below: * Airspace bounded by a circle of 15 NM radius centered at Thiruvananthapuram ARP. FL255/FL145 * Airspace between circles of 15 NM and 50 NM radii centered at Thiruvananthapuram ARP: FL255/FL145 FL 255 / FL 145	Thiruvananthapuram ACC	Thiruvananthapuram Control Thiruvananthapuram Radar (RSR) English H24	125.95 MHZ 132.25 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Tiruchirappalli Control Area- Area bounded by a circle of radius 25 NM centred at 104556.12N 0784254.16E excluding the airspace contained withinTiruchirappalli CTR. * Airspace classified as Class D * FL 65/1300 FT AMSL FL 065 / 1300FT AMSL D	Tiruchirappalli APP	Tiruchirappalli Approach English HO	124 MHZ	
Tiruchirappalli Control Area- Area bounded by lines joining points 102600N 0781121E; 101749N 0782403E; 100929N 0783644E; 100537N 0784500E; 095555N 0784731E then along the counter clockwise arc of a circle of 50NM radius centred on 104556N 0784254E to 113557N 0783820E then along the clockwise arc of a circle of 100NM radius centred on 125705N 0773956E to 112130N 0780745E; 111400N 0781200E; 110300N 0781700E; 104906N 0780956E; 103206N 0781355E to point of origin. FL 145 / FL 65 D	Tiruchirappalli APP	Tiruchirappalli Approach English HO	124 MHZ	
Udaipur Control Area- Area bounded by circular area of radius 30 NM centered at 243706N 0735334E. * FL145/2700 ft. AMSL excluding the airspace contained within Udaipur CTR. Airspace is classified as Class D. FL 145 / 2700FT AMSL D	Udaipur Approach	Udaipur Approach English HO	120.85 MHZ	Aircraft below 2700 ft AMSL between 10 NM and 30 NM from ARP of Udaipur Airport may contact Udaipur APP for traffic information.
Udhampur Control Area- Indian Air Force Area bounded by - 341958N 0732757E; 341958N 0752956E; 330959N 0753156E; 315959N 0755956E; 314359N 0753956E; 320659N 0751556E; -then along International boundary to 341958N 0732757E. UNL / 17000FT AMSL - North of 3310N UNL / 12000FT AMSL - South of 3310N	Udhampur ACC	Udhampur Control English HO	122.7 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Vadodara Control Area- Area - 1: Area bounded by circular area of radius 25 NM centered at 221948N 0731308E. • FL65/900 ft AMSL, excluding the airspace contained within Vadodara CTR. Area - 2: Area bounded by 221946N 0734006E; 221943N 0735053E; then along the clockwise arc of 35NM centered at 221948N 0731308E to 214442N 0731427E; 215444N 0731406E; then along the ounterclockwise arc of 25NM centered at 221948N 0731308E to 221946N 0734006E. • FL65/3000 ft AMSL. Airspace is classified as Class D. FL 065 / 3000FT AMSL D	Vadodara APP	Vadodara Approach English HO	118.325 MHZ 122.35 MHZ	Aircraft below 900 ft AMSL between 15 NM and 25 NM from ARP of Vadodara Airport may contact Vadodara APP for traffic information.
Varanasi Control Area- Sector Lower Varanasi (LBN) Area bounded by -231049N 0800334E; 250001N 0790455E; 250801N 0785955E; 253601N 0793554E; 251701N 0794954E; 255358N 0800131E; 252555N 0802744E; 263014N 0811717E; 264718N 0812436E; 273424N 0824443E then along the border of Nepal and India to 265355N 0850030E; 253132N 0835507E; 244431N 0845638E; 241232N 0842722E; 225817N 0840745E; 223024N 0820000E; 231049N 0800334E. FL 255 / FL 105 D	Varanasi APP	Varanasi Approach English H24	123.875 MHZ	
	Varanasi ACC	Varanasi Control Varanasi Radar (RSR) English H24	118.95 MHZ 128.15 MHZ	
Vijayawada Control Area- Area bounded by 163749N 0812409E; 163306N 0811412E; then along the clockwise arc of a circle of 25 NM radius centered at 163201N 0804812E to 165107N 0810508E; 165549N 0811512E; to point of origin, excluding the airspace contained within Vijayawada CTR. • FL145 / 1000 FT AMSL. Airspace classified as Class ‘D’. FL 145 / 1000FT AMSL D	Vijayawada Approach	Vijayawada Tower English HO	118.55 MHZ 118.65 MHZ	1. Aircraft below 1000 FT AMSL between 15 NM and 25 NM from ARP of Vijayawada Aerodrome may contact Vijayawada APP for traffic information.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Vishakhapatnam Control Area- Circular area centered on 174004N 0831510E within a 50NM radius. FL 145 / 5500FT AMSL D	Vishakhapatnam TWR	Vishakhapatnam Approach English HO	123.5 MHZ	

2.1.3 Terminal Control Area

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Bengaluru Control Area (Sector A) Area bounded by – 130100N 0771410E then along clockwise arc of 30NM centered at 131224N 0774356E to 130000N 0781015E to 130000N 0780000E to 130100N 0773706E to point of origin (except the restricted airspace of VOR 185A, VOR 185B and VOR 185C) FL 145 / FL 95 Airspace classified as 'D' Airspace Bound By a circle of 30 NM radius centered at Bengaluru ARP from 7000 Ft AMSL to FL145 excluding The Restricted Areas under jurisdiction Of Yelahanka and HAL is classified as class C.	Bengaluru APP	Bengaluru Approach English H24	121.25 MHZ 125.275 MHZ 127.75 MHZ	
Bengaluru Control Area (Sector B1) Area bounded by lines joining points 155700N 0773100E; 155800N 0784500E; 142300N 0785400E; 140100N 0791600E then along the counter clockwise arc of a circle of 80NM radius centred on 125936N 0801015E to 130000N 0784800E; 130000N 0780000E; 130100N 0771410E then along the clockwise arc of a circle of 30NM radius centred on 131224N 0774356E to 133330N 0772045E; 144000N 0763600E to point of origin. FL 255 / FL 145 D	Bengaluru ACC	Bengaluru Control Bengaluru Radar English H24	119.45 MHZ 125.75 MHZ 126.325 MHZ	
Bengaluru Control Area (Sector B2) Area bounded by lines joining points 124530N 0762715E; 124500N 0770900E; 125030N 0770830E; 130100N 0772550E; 130100N 0771410E then along the clockwise arc of a circle of 30NM radius centred on 131224N 0774356E to 133330N 0772045E; 142500N 0764700E then along the counter clockwise arc of a circle of 90NM radius centred on 130800N 0773700E to 132900N 0760500E; 125030N 0762500E to point of origin. FL 255 / FL 210 D	Bengaluru ACC	Bengaluru Control Bengaluru Radar English H24	119.45 MHZ 125.75 MHZ 126.325 MHZ	
Bengaluru Control Area (Sector B3)	Bengaluru APP	Bengaluru Approach English H24	121.25 MHZ 125.275 MHZ 127.75 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Area bounded by lines joining points 130000N 0784405E; 130000N 0781157E then along the counter clockwise arc of a circle of 30NM radius centred on 131224N 0774356E to 133330N 0772045E; 135826N 0770358E then along the clockwise arc of a circle of 60NM radius centred on 131224N 0774356E to point of origin. FL 145 / FL 85 D	Lower Bengaluru West	Bengaluru Radar English H24	119.45 MHZ	
Bengaluru Control Area- Class C Airspace bound by a circle of 50 NM centered at Bengaluru ARP from FL145 to FL255 excluding the Restricted Areas under jurisdiction of Chennai, Yelahanka and HAL is classified as Class C. C	Bengaluru ACC	Bengaluru Control Bengaluru Radar English H24	119.45 MHZ 125.75 MHZ 126.325 MHZ	
Bhubaneswar Terminal Control Area Area bounded by lines joining points 211403N 0845952E; 204203N 0853352E; 202703N 0861752E; 204203N 0865951E; 200003N 0865951E; 185304N 0853052E; 195303N 0842552E to point of origin. D	Bhubaneswar APP	Bhubaneswar Approach English HJ	125.15 MHZ 125.525 MHZ	FL250 / FL050 within 30 NM FL250 / FL75 beyond 30 NM

2.1.4 Military Control Zones

Military Control Zones (MCTR): Designated Military airfields permit operation of civil flights as Joint User Aerodromes. Control Zones established at Military Aerodromes are designated as Military Control Zones [MCTR].

2.1.4.1 Control Zones [MCTR] are established at Military aerodromes with the objective of containing and protecting the flight profiles of all IFR flights.

2.1.4.2 Air Traffic Services (ATS) in MCTRs are provided by the associated Military ATS Unit (ATSU).

2.1.4.3 Whenever, the restricted military airspace encompassing the military control zone is handed over by the military ATS unit having jurisdiction over the airspace to a designated civil ATS unit, then the designated civil ATS unit shall be responsible for provision of ATCs/ATS in the airspace.

2.1.4.4 Airspace in MCTRs are classified as applicable to ICAO Class D airspace. All civil aircraft operations in MCTRs are subject to ATC clearances and shall be provided with applicable ICAO separation standards as per Class D airspace within MCTR.

2.1.4.5 Provision of ATS at Joint User Aerodromes (JUAs) for civil scheduled operations & Non-scheduled flights will be during specific ATC hours of operations as given at Para 2.1.5. Operations of scheduled and non-scheduled flights fromexclusive military aerodromes are subject to prior approval as per existing rules and regulations issued by Ministry of Defence (MoD) from time to time.

2.1.4.6 Subsequent to obtaining prior approval for commencement of civil aircraft operations, entry into Military restricted airspaces and MCTR by civil aircraft shall be subject to positive ATCC (Air Traffic Control Clearance) from the associated military ATSU or the designated civil ATSU when the airspace has been handed over to civil ATS unit.

2.1.4.7 The lateral limits of a Military control zone shall extend to at least 9.3 KM (5 NM) from the centre of the aerodrome or aerodromes concerned in the directions from which approaches may be made.

Name, Lateral Limits Vertical Limits Class of airspace	**Unit providing service**	**Call sign Languages Area and condition of use Hours of service**	**Frequency/Purpose**	**Remarks**
Adampur Area bounded by lines joining points 315100N 0754830E then along the clockwise arc of a circle of 25NM radius centred on 312602N 0754527E to 310700N 0760400E; 311707N 0753202E; 314359N 0753956E to point of origin. FL 145 / GND D	Adampur TWR	Adampur Tower English HO	127.8 MHZ	1. Controlling Unit: IAF Adampur TEL: +91-181-2752562 FAX: +91-181-2752562 Email: audax-75@nic.in
Agra Area bounded by lines joining points 271222N 0771852E then along the clockwise arc of a circle of 35NM radius centred on 270901N 0775755E to 274501N 0775255E; 273301N 0782655E; 272801N 0782955E; 273501N 0780855E; 264201N 0781355E; 263801N 0775355E; 271301N 0772955E to point of origin. FL 150 D	Agra Tower	Agra Tower English H24	125 MHZ	1. Controlling Unit: IAF AGRA TEL: +91-562-2400067 FAX: +91-562-2400067 Email: udan.4vayu@gov.in

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Bagdogra Area bounded by 262303N 0873449E; then eastward along the border of Nepal and India to a point on common border of Nepal, China and India, then along the border of India and China to a point on common border of Bhutan, China and India, then along the border of India and Bhutan to 265901.3N 0885549.8E; 262601.5N 0885549.8E then along India and Bangladesh border to 255512N 0880545E; 260605N 0875630E; 262303N 0873449E; FL 250 / GND D	Bagdogra APP	Bagdogra Approach English OTHER	131.2 MHZ	1. Controlling Unit : Indian Air Force Bagdogra 2. TEL/FAX: +91-353-2698068 3. Mobile: +91-7407666672 4. Email: ats.vebd@aai.aero 5. Hours of Operations: Sunrise to 1630 UTC
	Bagdogra TWR	Bagdogra Tower English OTHER	122.3 MHZ	
Bareilly Area bounded by lines joining points 280039N 0793402E; 281932N 0785947E then along the clockwise arc of a circle of 25NM radius centred on 282502N 0792725E to 284000N 0794954E; 280948N 0794954E then along the clockwise arc of a circle of 25NM radius centred on 282502N 0792725E to point of origin. FL 145 / GND D	Bareilly APP	Bareilly Approach English HJ	122.9 MHZ	1. Controlling Unit: IAF Bareilly TEL: +91-581-2315796 FAX: +91-581-2315796 Email: trishul.control@gov.in
	Bareilly TWR	Bareilly Tower English HJ	125.525 MHZ	
Barrackpore Circular area centered on 224703N 0882150E within a 4NM radius. 3000 FT AMSL/ GND D	Barrackpore TWR	Barrackpore Tower English HO	122.7 MHZ	1.ATZ 2.. Controlling Unit: IAF Barrackpore TEL: +91-33-25921501 FAX: +91-33-25932821 Email: vebrsatco@nic.in
Bhatinda CTR Circular area centered on 301612N 0744524E within a 20NM radius. FL 100 / GND D	Bhatinda TWR	Bhatinda Tower English HJ	128.6 MHZ	1. Controlling Unit: IAF Bhatinda TEL: +91-164-2449158 FAX: +91-164-2449158 Mobile: +91-7589515718 Email: homing.67@gov.in

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Bhuj Area bounded by lines joining points 232002N 0691300E then along the clockwise arc of a circle of 25NM radius centred on 231702N 0693959E to 231402N 0700659E; 230532N 0695629E; 224702N 0701159E; 224702N 0691300E to point of origin. FL 325 / GND D	Bhuj TWR	Bhuj Tower English HJ	120.6 MHZ	1. Controlling authority ATC Bhuj 2. Controlling Unit: IAF Bhuj TEL: +91-2832-244019 FAX: +91-2832-244019 Email: udaan@nic.in
Bidar Area bounded by lines joining points 174304N 0775356E then along the clockwise arc of a circle of 25NM radius centred on 175504N 0772956E to 175544N 0775535E then along the counter clockwise arc of a circle of 50NM radius centred on 171340N 0782421E to 175004N 0774756E to point of origin. FL 095 / GND D	Bidar TWR	Bidar Tower English OTHER	121.45 MHZ	1. Controlling Unit: IAF Bidar TEL: +91-8482-237505 FAX: +91-8482-237505 Email: golden.fish2@gov.in
	Bidar APP	BIDAR APPROACH English OTHER	122.85 MHZ	
Campbell Bay Circular area centered on 070100N 0935400E within a 30NM radius. FL 150 / GND D	Campbell Bay TWR	Campbell Tower English HO	120.925 MHZ	1. Controlling Unit: Indian Navy INS Baaz TEL/FAX: +91-3193-264108/ 264150 Email: baaz.and@gov.in atc.baaz@gmail.com
Carnicobar Circular area centered on 090914N 0924913E within a 20NM radius. FL 100 / GND D	Carnicobar APP	Carnicobar Approach English	122.5 MHZ	1. Controlling Unit: IAF Car Nicobar TEL/FAX: +91-3193-267722 Email: seal.377@gov.in 2. Hours of Operations: 0030 (UTC) to sunset except Second Sat, Sun and holidays
	CarnicobarTWR	Carnicobar Tower English	121.8 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Chabua ATZ –Area bounded by 273231.7N 0950846.9E then along the clockwise arc of circle of radius 05 NM centred at 272744N 0950702E to 272231.7N 0950731.9E then direct to 272401.7N 0950446.9E then along a clockwise arc of circle of radius 04 NM centred at 272744N 0950702E to 272701.7N 0950231.9E to 273236.8N 0950488.3E; 273231.7N 0950846.9E 1000 FT AMSL/ GND D	Chabua TWR	Chabua Tower English HJ	118.8 MHZ	1. ATZ 2. Controlling Unit: IAF Chabua TEL/FAX: +91-373- 2864829 Email: ats.chabua@gov.in
	Chabua APP	Chabua Approach English HJ	121.6 MHZ	
Chandigarh Area bounded by lines joining points 304259N 0762356E then along the clockwise arc of a circle of 20NM radius centred on 303959N 0764656E to 302900N 0770555E to point of origin. FL 200 / GND D	Chandigarh APP	Chandigarh Approach English H24	122.65 MHZ	1. Controlling Unit: IAF Chandigarh TEL: +91-172-2658728 FAX:0172-2651434 Email: control12@nic.in
	Chandigarh TWR	Chandigarh Tower English H24	118.3 MHZ	
Cochin (Navy) Circular area centered on 095638N 0761623E within a 5NM radius. 2000 FT AMSL/ GND D	Cochin TWR	Garuda Tower English HO	123.5 MHZ	1. ATZ 2. Communication Frequency: Garuda Tower: 123.5 MHz 3. Controlling Unit: Indian Navy INS Garuda TEL: +91-484-2873189/2872711 FAX: +91-484-26666425 Email: fploic-garuda@navy.gov.in 4. VFR flying zone.
DARBHANGA Area bounded by lines joining points 261631N 0861042E; 261539N 0862430E; 254545N 0864034E; 255637N 0855510E then along the clockwise arc of a circle of 15NM radius centred on 261139N 0855455E to point of origin. FL 065 / GND D	Darbhanga TWR	Darbhanga Tower English OTHER	122.125 MHZ	1. Controlling Unit: IAF Darbhanga TEL: +91 627 2225022 Email: gateway.63@gov.in 2.Airspace classified as Class D. Beyond operational hours airspace classification is Class G.

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Gorakhpur MCTR GORAKHPUR MCTR - 1 Circular area centered on 264429N 0832701E within a 25NM radius. FL150/GND GORAKHPUR MCTR – 2 Circular area centered on 264622N0835343 within a 15NM radius. FL150/GND FL 150 / GND D	Gorakhpur TWR	Gorakhpur Tower English HJ	128.2 MHZ	1. Controlling Unit: IAF Gorakhpur TEL: +91-551-2745035 FAX: +91-5512745035 Email:ats.17@nic.in 2. Beyond Operational Hours of Gorakhpur ATC MCTR - 2 will be controlled as CTR by Kushinagar ATC. 3. ATC Frequencies: a) Gorakhpur TWR: 128.200 MHz b) Kushinagar TWR: 118.025 MHz 118.675 MHz
Gwalior Circular area centered on 261701N 0781355E within a 15NM radius. FL 160 / GND D	Gwalior Tower	Gwalior Tower English HJ	122.7 MHZ	1. Controlling Unit: IAF Gwalior TEL: +91-751-2470771 FAX: +91-751-2470771 Email: eagle.eye189@gov.in
	Gwalior Approach	Gwalior Approach/Radar English HJ	132.4 MHZ	
Hashimara Area bounded by 265901.3N 0885549.8E; then long the Indo-Bhutan border to 264301.5N 0895249.5E; 261501.6N, 0894749.5E; 260901.6N 0894449.5E; then along IndoBangladesh border to 262601.5N 0885549.8E and 265901.3N 0885549.8E FL 075 / GND D	Hashimara Tower	Hashimara Tower English HJ	130.4 MHZ	1. Communication Frequency: Hashimara Tower: 130.400 MHz 2. Controlling Unit: IAF Hashimara TEL/FAX: +91-3566- 255126 Email: hatsoff.200@gov.in

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Jaisalmer Area bounded by lines joining points 270800N 0711400E; 265800N 0710300E then along the clockwise arc of a circle of 10NM radius centred on 265300N 0705200E to 265400N 0710400E; 265400N 0712100E then along the clockwise arc of a circle of 25NM radius centred on 265300N 0705200E to point of origin. FL 100 / GND D	Jaisalmer Approach	Jaisalmer Approach English HJ	119.7 MHZ	1. Controlling Unit: IAF Jaisalmer TEL: +91-299-2251928 FAX: +91-299-2251928 Email: ats.jslmr@gov.in 2. Hours of Operations HJ (except Sun)
	Jaisalmer Tower	Jaisalmer Tower English HJ	118.3 MHZ	
Jammu CTR - Area bounded by 324658.6N 0743956.5E along an arc of radius 10 NM centred at 324158.6N 0744956.5E to point where it meets international boundary. FL 120 / GND D	Jammu TWR	Jammu Tower English OTHER	122.85 MHZ	1. Controlling Unit: IAF Jammu TEL : +91-191-2453700 FAX : +91-191-2453700 Email: ats.viju@gov.in 2. Hours of Operations: Sunrise - 1530 UTC 1 st /3rd /5th Wednesday of the month: 0830-1530 UTC
Jamnagar Area bounded by lines joining points 224702N 0694059E; 224702N 0701159E; 221602N 0702859E then along the clockwise arc of a circle of 27.5NM radius centred on 222937N 0700329E to point of origin. FL 325 / GND D	Jamnagar TWR	Jamnagar Tower English HJ	127.5 MHZ	1. Controlling Unit: IAF Jamnagar TEL: +91-288-2569500, Extn 6281/6282 FAX: 91-2882711552 Email: ats.vajm@gov.in
Jodhpur Circular area centered on 261501N 0730158E within a 25NM radius. FL 100 / GND D	Jodhpur TWR	Jodhpur Tower English HJ	122.4 MHZ	1. Controlling Unit: IAF Jodhpur TEL: +91-291-2512250 FAX: +91-291-2512250 Email: jjoats@nic.in

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Jorhat Area bounded by lines joining points 265502N 0932448E; 271802N 0935747E; 272902N 0941947E; 264702N 0945947E; 261602N 0943747E; 260902N 0940947E; 262202N 0932448E to point of origin. FL 120 / GND D	Jorhat APP	Jorhat Approach English HJ	121.3 MHZ	1. Controlling Unit: IAF Jorhat TEL/FAX: +91-376-2333013 Email: ats.1968@gov.in
	Jorhat Tower	Jorhat Tower English HJ	127.3 MHZ	
Kanpur/Chakeri Circular area centered on 262501N 0802354E within a 10NM radius. FL 050 / GND D	Kanpur TWR	Kanpur Tower English HJ	123.5 MHZ	1. Controlling Unit: IAF Kanpur TEL: +91-512-2458347 FAX: +91-512-2458347 Email: traffic.knp@gov.in
NAANI DEESA Circular area centered on 241950N 0715817E within a 15NM radius. FL 055 / GND D	Naani Deesa APP	Naani Deesa Approach English HO	123.95 MHZ 125.4 MHZ	1. Controlling Unit: IAF Naani Deesa TEL: +91 265 2541109 Mobile: +91 7698891364 Email: ser.msg30@nic.in
Naliya Area bounded by lines joining points 233828N 0685328E; 233136N 0690012E; 232638N 0690525E; 231942N 0690825E; 231642N 0690916E then along the counter clockwise arc of a circle of 6NM radius centred on 231100N 0690600E to 230447N 0690815E; 225944N 0690551E; 225456N 0690124E; 225251N 0685737E; 224818N 0685328E then along the clockwise arc of a circle of 25NM radius centred on 231323N 0685328E to point of origin. 15000 FT AMSL/ GND D	Naliya Approach	Naliya Approach English HJ	130.5 MHZ	1.MCTR available only during watch hours. 2.Airspace classified as Class D. Beyond Watch hrs airspace Classification is Class G. 3. Controlling Unit: AFS Naliya (ATC) TEL: +912831278324 FAX: +912831278324 Email: drydesert.49@gov.in

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Ozar Area bounded by lines joining points 201903N 0734457E; 205703N 0740257E then along the clockwise arc of a circle of 50NM radius centred on 200703N 0735457E to 201503N 0744757E; 195303N 0735057E then along the clockwise arc of a circle of 15NM radius centred on 200703N 0735457E to point of origin. FL 200 D	Ozar APP	Ozar Approach English OTHER	120.6 MHZ	1. Controlling Unit: HAL Ozar TEL/FAX: +91-2550 275816 Email: ramjith.ts@hal-india.com 2. Hours of Operations: 0230 UTC to 1630 UTC
	Ozar TWR	Ozar Tower English OTHER	122.7 MHZ	
Panagarh Area bounded by lines joining points 232802N 0874731E then along the clockwise arc of a circle of 20NM radius centred on 232824N 0872547E to 234706N 0873340E; 234705N 0875000E; 232800N 0875000E; 232802N 0874731E to point of origin. FL 065 / GND D	Panagarh APP	Panagarh Approach English HJ	118.8 MHZ	1. Controlling Unit:Indian Air Force, Panagarh. 2. TEL/FAX: +91-343-2525556 Email: python.123@gov.in
	Panagarh TWR	Panagarh Tower English HJ	124 MHZ	
Passighat Circular area centered on 280358N 0952008E within a 10NM radius. FL 065 / GND D	Passighat Tower	Passighat Tower English HO	133.2 MHZ	1. Controlling Unit: IAF Chabua TEL: +91-368-2222045 Email:ats.chabua@gov.in
Pathankot Area bounded by lines joining points 322159N 0751656E then along the clockwise arc of a circle of 20NM radius centred on 321406N 0753826E to 320659N 0751556E to point of origin. FL 240 / GND	Pathankot TWR	Pathankot Tower English HJ	130.1 MHZ	1. Controlling Unit: IAF Pathankot TEL: +91-186-2340916 FAX: +91-186-2340916 Email: niyantran.18@gov.in
Phalodi Area bounded by lines joining points 265726N 0715252E then along the clockwise arc of a circle of 20NM radius centred on 270618N 0721257E to 271323N 0723355E; 270801N 0722158E; 270001N 0715958E to point of origin. FL 055 / GND D	Phalodi Approach	Phalodi Approach English HJ	119.6 MHZ	Controlling Unit: IAF Phalodi TELE: +91-2925-248808 FAX: +91-2925-248808 Email: track.gk@gov.in
	Phalodi Tower	Phalodi Tower English HJ	130.5 MHZ	

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Prayagraj Circular area centered on 252601N 0814353E within a 25NM radius. FL 050 / GND D	Prayagraj TWR	Prayagraj Tower English HJ	125.3 MHZ	1. Controlling Unit: IAF Prayagraj TEL: +91-532-2581072 FAX: +91-532-2580121 Email: panther.29@gov.in
Pune Area bounded by lines joining points 185507N 0735457E; 185507N 0744315E then along the clockwise arc of a circle of 50NM radius centred on 183503N 0735457E to 174546N 0740452E; 182349N 0733731E then along the clockwise arc of a circle of 20NM radius centred on 183503N 0735457E to point of origin. FL 080 / GND D	Pune TWR	Pune Tower English H24	123.5 MHZ	1.Controlling Unit: IAF Pune TEL: +91-20-26684434 FAX: +91-20-26680846 Email: niyantran-2@gov.in
Purnea Circular area centered on 254544N 0872433E within a 15NM radius. FL 055 / GND D	Purnea APP	Purnea Approach English	130.4 MHZ	1. Controlling Unit: IAF Purnea TEL: +91 6454 243455 Email: eagle.eye12@gov.in
	Purnea TWR	Purnea Tower English	123.5 MHZ	
RAMNAD A Area bounded by lines joining points 090506N 0784402E then along the clockwise arc of a circle of 20NM radius centred on 091916N 0785824E to 093647N 0790817E; 091200N 0785100E to point of origin. FL 070 / GND D	Ramnad TWR	Ramnad Tower English HO	118.1 MHZ 123.5 MHZ	1. Controlling Unit: ATC INS Parundu, Indian Navy TEL: +918300703202 FAX: +914567259959 Email: fplparundu@navy.gov.in
RAMNAD B Area bounded by lines joining points 094100N 0791105E then along the clockwise arc of a circle of 25NM radius centred on 091916N 0785824E to 090135N 0784027E; 090506N 0784402E; 091200N 0785100E; 093647N 0790817E to point of origin. FL 100 / GND D	Ramnad TWR	Ramnad Tower English HO	118.1 MHZ 123.5 MHZ	1. Controlling Unit: ATC INS Parundu, Indian Navy TEL: +918300703202 FAX: +914567259959 Email: fplparundu@navy.gov.in

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Sarsawa Area bounded by lines joining points 294100N 0773000E; 294500N 0771100E then along the clockwise arc of a circle of 20NM radius centred on 300000N 0772600E to 300148N 0770304E then along the counter clockwise arc of a circle of 25NM radius centred on 302200N 0764600E to 300600N 0770812E; 301900N 0773200E then along the clockwise arc of a circle of 20NM radius centred on 300000N 0772600E to point of origin. FL 200 / GND D	Sarsawa TWR	Sarsawa Tower English HJ	120.2 MHZ	1. Controlling Unit (up to FL70): IAF Sarsawa TEL: +91-132-2646720 FAX: +91-132-2646727 Mobile: +91-9719473619 Email: icarus.30@gov.in 2. Above FL 70 the Controlling Unit is IAFChandigarh
Shibpur CTR Area bounded by circle of 30 NM centered at 131400N 0930300E excluding Sri Vijaya Puram CTR. FL 150 / GND D	Shibpur TWR	Shibpur Tower English HO	119.7 MHZ	1. Controlling Unit: Indian Navy INS Kohassa TEL: +91-3192-272552 FAX: +91-3192-271997 Email: kohassaguardiannorth@gmail.com
Silchar (Khumbigram) Circular area centered on 245448N 0925839E within a 25NM radius. FL 200 / GND D	Kumbhirgram Approach	Kumbhirgram Approach English OTHER	123.5 MHZ	1. Controlling Unit: IAF Silchar TEL/Fax: +91-3841-282125 Email: kutower-76@gov.in 2. Hours of Operations: 0030 UTC to 1430 UTC
	Kumbhirgram Tower	Kumbhirgram Tower English H24	122.7 MHZ	
Sirsa Circular area centered on 293336N 0750025E within a 20NM radius. FL 070 / GND D	Sirsa Tower	Sirsa Tower English HJ	130.1 MHZ	1. Controlling Unit: IAF Sirsa TEL: +91-1666-240988 FAX: +91-1666-240988 Email: shiningcontrol@nic.in
Sri Vijaya Puram Circular area centered on 113858N 0924445E within a 80NM radius. FL 155 / GND D	Sri Vijaya Puram APP	Sri Vijaya Puram Approach English HJ	123.5 MHZ	1. Controlling Unit: INS Utkrosh TEL: +91-3192-248887 FAX: +91-3192-232385 2. Email: atc-utkroshportblair@navy.gov.in

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Srinagar Area bounded by 342000.00N 0740500.00E, 342000.00N 0741300.00E, 343000.00N 0742000.00E, 341900.00N 0752900.00E, 333800.00N 0752700.00E, then along clockwise arc of radius 40 NM centred at 335917.50N 0744630.90E to 334649.00N 0740052.00E, then along the Line of Control (LOC), to 340045.00N 0735826.00E, then along clockwise arc of radius 40 NM centred at 335917.50N 0744630.90E to 342000.0N 0740500.0E FL 170 / GND D	Srinagar TWR	Srinagar Tower/Srinagar Approach English OTHER	128.6 MHZ	1. Controlling Unit: IAF Srinagar TEL: +91-194-2305032 FAX: +91-194-2305032 Email: ssbedi@gov.in 2. Hours of Operations: Sunrise to 1630 UTC
Tezpur Area bounded by lines joining points 264502N 0920748E then along the clockwise arc of a circle of 35NM radius centred on 264302N 0924648E to 265502N 0932448E; 262202N 0932448E; 260702N 0922348E to point of origin. FL 120 / GND D	Tezpur TWR	Tezpur Tower English H24	118.1 MHZ	1. Controlling Unit: IAF Tezpur TEL/FAX: +91-3712- 258005 Email: eagle.eye11@gov.in
	Tezpur APP	Tezpur Approach English H24	122.65 MHZ	
Thanjavur Circular area centered on 104312N 0790610E within a 3NM radius. 2000 FT AMSL/ GND D	Thanjavur TWR	Thanjavur Tower English HJ	131 MHZ	1. ATZ 2. Controlling Unit: IAF Thanjavur TEL: +91-4362-228050 FAX: +91-4632-228050 Email: tiger.47@gov.in
Uttarlai Circular area centered on 254840N 0712821E within a 25NM radius. FL 080 / GND D	Uttarlai APP	Uttarlai Approach English HJ	123.2 MHZ	1. Controlling Unit: IAF Uttarlai TEL: +91-2982-242136 FAX: +91-2962-242136 Email: yatayat.2002@gov.in

Name, Lateral Limits Vertical Limits Class of airspace	Unit providing service	Call sign Languages Area and condition of use Hours of service	Frequency/Purpose	Remarks
Visakhapatnam Circular area centered on 174320N 0831322E within a 25NM radius. 5500 FT AMSL/ GND D	Visakhapatnam TWR	Visakhapatnam Tower English H24	123.5 MHZ	1. Controlling Unit: Indian Navy INS Dega TEL: +91-891-2814520/2816405 FAX: +91-891-2856405 Email: atcpl-dega@navy.gov.in

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ENR 2.2 Control Zones (CTR) and Aerodrome Traffic Zones (ATZ)

Aerodrome	Hours of Ops	Controlled airspace lateral limits	Upper limit	Language	Remarks
RAMSINGPURA	HO	Circular area centered on 272004N 0760512E within a 5NM radius.	2500 FT AMSL	English	1. ATZ 2. Airspace classified as Class "D"
DIU	HO	Area bounded by lines joining points 210446N 0704224E; 204036N 0710654E; 204209N 0712201E then along the clockwise arc of a circle of 25NM radius centred on 204250N 0705522E to point of origin.	FL 075	English	1. Class D Airspace. 2. ATC FREQ: 122.900MHz.
GOPALPUR	HO	Semi circle of radius 05 NM around 1918N08452E (semi-circle extending towards only west of Gopalpur airstrip).	2000 FT AMSL	English	1. ATZ 2. Airspace classified as Class "D"
JEYPORE	HO	Circular area centered on 185250N 0823313E within a 15NM radius.	FL 075	English	1. CTR available only during published watch hrs. 2. Airspace classified as Class ‘D’ 3. Beyond Watch hrs airspace Classification is Class G.
KALYAN	HO	Circular area centered on 191103N 0730758E within a 2NM radius.	1700 FT AMSL	English	1.ATZ 2. Airspace classified as Class "D"
KOLKATA [BEHALA]	HO	Circular area centered on 223003N 0881750E within a 1NM radius.	1000 FT AMSL	English	1. ATZ 2. Airspace classified as Class "D"
KOTA	HO	Circular area centered on 250936N 0755052E within a 15NM radius.	FL 065	English	1. Airspace classified as Class' D 2. ATC Frequencies: i. Kota TWR: 119.000 MHZ 118.700 MHZ (BACKUP)
MUIRPUR (KORBA)	HO	Circular area centered on 240734N 0830236E within a 20NM radius.	FL 065	English	1. CTR available only during published watch hrs. 2. Airspace classified as Class ‘D’ 3. Beyond Watch hrs airspace Classification is Class G.

Aerodrome	Hours of Ops	Controlled airspace lateral limits	Upper limit	Language	Remarks
NEYVELI	HO	Area bounded by lines joining points 115141N 0792934E then along the counter clockwise arc of a circle of 15NM radius centred on 113646N 0793139E to 113802N 0794653E then along the clockwise arc of a circle of 20NM radius centred on 115802N 0794847E to point of origin.	FL 055	English	1. CTR available only during notified operational hours of Neyveli Airport. 2. Airspace classified as Class D. Beyond operational hours of Neyveli Airport the airspace classification is 'G'. 3. Transition Altitude: 4000 FT 4. ATC Frequencies: i. Neyveli Tower: 118.650 MHz 118.025 MHz (Backup) ii. Puducherry Tower: 122.900 MHz 118.750 MHz (Backup)
RATNAGIRI	HO	Circular area centered on 170048N 0731944E within a 20NM radius.	6500 FT AMSL	English	1. Airspace classified as Class D 2. ATC Frequencies: i. Ratnagiri ATC: 126.800 MHz.
SHRAVASTI	HO	Circular area centered on 273006N 0820149E within a 5NM radius.	2000 FT AMSL	English	1. ATZ available only during published watch hrs. 2. Airspace classified as Class D. 3. Beyond Watch Hours airspace Classification is Class G. 4. ATC Frequencies: i. Shravasti TWR 118.200 MHz 118.350 MHz
UTKELA	HO	Circular area centered on 200552N 0831101E within a 25NM radius.	FL 075	English	1. CTR available only during published watch hrs. 2. Airspace classified as Class 'D' 3. Beyond Watch hrs airspace Classification is Class G.

Aerodrome	Hours of Ops	Controlled airspace lateral limits	Upper limit	Language	Remarks
VELLORE	HO	Circular area centered on 125429N 0790402E within a 12NM radius.	FL 065	English	1. Airspace classified as class D. 2. ATC Frequencies: i. Vellore TWR: 118.500 MHz 118.700 MHZ (Backup)
VIJAYAPURA	HO	Area bounded by lines joining points 165556N 0753301E; 165004N 0753956E; 165035N 0754303E then along the clockwise arc of a circle of 5NM radius centred on 165151N 0754805E to 165227N 0755315E; 165400N 0760334E then along the clockwise arc of a circle of 15NM radius centred on 165151N 0754805E to point of origin.	FL 055	English	1. Airspace classified as Class D 2. Beyond operational hours airspace classification is Class G. 3. ATC Frequencies: i. Vijayapura TWR/APP: 125.425 MHz 120.875 MHz (Backup) ii. Pune ATC: 123.500 MHz 118.800 MHz

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ENR 3.1 - CONVENTIONAL ROUTES

	Route Designator (RNP Type) Name of Significant Points Coordinates	Track- Magnetic/Geo VOR Radial Distance COP	Upper Limit Lower Limit- or MEA Airspace Classification MOCA	Lateral Limits	Direction of Cruising Levels		Remarks Controlling Unit Frequency
					Odd	Even	
	V78 (EXUNA - RRP)						
▲	**EXUNA** **242306N 0842952E**						See remarks below
		221/041 110.1 NM	FL 460 FL 95 Class D 7100 FT	20 NM	↑	↓	
▲	**RUSAB** **225917N 0831146E**						
		226/045 85.0 NM	FL 460 FL 90 Class D 6800 FT	20 NM	↑	↓	
▲	**BILASPUR** **DVOR/DME (BLS)** **215913N 0820634E**						
		223/042 9.3 NM	FL 460 FL 80 Class D 3600 FT	20 NM	↑	↓	
▲	**NIPAD** **215218N 0815953E**						
		199/019 43.7 NM	FL 460 FL 80 Class D 3600 FT	20 NM	↑	↓	
▲	**RAIPUR DVOR** **DVOR/DME (RRP)** **211048N 0814438E**						

REMARKS
1.Minimum 10 minutes longitudinal separation applicable
2. ATC Frequencies:
i. Kolkata ACC: 120.100 MHz 125.900 MHz 132.350 MHz 132.250 MHz
ii.Varanasi Control Area Lower Varanasi (LBN): 128.150 MHz 118.950 MHz
iii.Raipur TWR: 124.750 MHz (Main) 124.300 MHz (Backup)
3.Co-ordinates of 'RUSAB' refer to ARP of Ambikapur Airport (VEAP).
4.When Bilaspur DVOR/DME (BLS) is not available, Coordinates of Bilaspur DVOR/DME (BLS) 215912.553N 0820633.531E to be used for flight planning purpose

ENR 3.1 - CONVENTIONAL ROUTES

Route Designator (RNP Type) Name of Significant Points Coordinates	Track-Magnetic/Geo VOR Radial Distance COP	Upper Limit Lower Limit-or MEA Airspace Classification MOCA	Lateral Limits	Direction of Cruising Levels		Remarks Controlling Unit Frequency
				Odd	Even	
W12 (BLS-BBN)						
▲ **BILASPUR DVOR/DME (BLS) 215913N 0820634E**						See remarks below
	003/183 64.7 NM	FL 460 / FL 85 Class D 6300 FT	20 NM	↓	↑	
▲ **IBUDA 230402N 0820953E**						
	329/149 100.2 NM	FL 460 / FL 85 Class D 5400 FT	20 NM	↑	↓	
▲ **REWA DVOR/DME (RWA) 243014N 0811343E**						
	057/238 105.4 NM	FL 460 / FL 85 Class D 3800 FT	20 NM	↓	↑	
▲ **VARANASI DVOR DVOR/DME (BBN) 252715N 0825134E**						

REMARKS
1. Minimum 10 Minutes longitudinal separation applicable.
2. Coordinates of GUSIT refer to Rewa Airport (VERW).
3. ATC Frequencies:
i. Kolkata ACC: 125.950 MHZ 132.350 MHZ 132.450 MHZ
ii. Upper Varanasi (UBN): 127.525 MHz
iii. Lower Varanasi (LBN): 128.150 MHz 119.275 MHz
iv. Rewa TWR/APP: 120.800 MHz 119.775 MHz (Backup)
4. When Bilaspur DVOR/DME (BLS) is not available, Coordinates of Bilaspur DVOR/DME (BLS) 215912.553N 0820633.531E to be used for flight planning purpose

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ENR 3.1 - CONVENTIONAL ROUTES

	Route Designator (RNP Type) Name of Significant Points Coordinates	Track- Magnetic/Geo VOR Radial Distance COP	Upper Limit Lower Limit- or MEA Airspace Classification MOCA	Lateral Limits	Direction of Cruising Levels		Remarks Controlling Unit Frequency
					Odd	Even	
	W92 AKMIL						
▲	**AKMIL** **115135N 0800655E**						See remarks below
		249/069 37.6 NM	FL 250 FL 110 Class D 3200 FT	20 NM	↑	↓	
▲	**ENGIL** **113646N 0793139E**						
		266/- 16.5 NM	FL 250 FL 110 Class D 3200 FT	20 NM		↓	
▲	**TEGUT** **113510N 0791454E**						
		266/- 40.4 NM	FL 250 FL 110 Class D 7300 FT	20 NM		↓	
▲	**NUVTI** **113105N 0783355E**						

REMARKS
1. Minimum 10 minutes Longitudinal Separation applicable.
2. Waypoint ENGIL refers to ARP of Neyveli Airport.
3. ATC Frequencies:
i. Neyveli TWR:
118.650 MHz 118.025 MHz (Backup)
ii. Puducherry TWR:
122.900 MHz 118.750 MHz (Backup)
iii. Tiruchirappalli APP:
124.000 MHz 120.425 MHz (Backup)

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ENR 3.1 - CONVENTIONAL ROUTES

	Route Designator (RNP Type) Name of Significant Points Coordinates	Track- Magnetic/Geo VOR Radial Distance COP	Upper Limit Lower Limit- or MEA Airspace Classification MOCA	Lateral Limits	Direction of Cruising Levels		Remarks Controlling Unit Frequency
					Odd	Even	
	W93 ADKAL-ENGIL						
▲	**ADKAL** **115054N 0781649E**						See remarks below
		103/- 74.8 NM	FL 250 FL 110 Class D 8400 FT	20 NM	↓		
▲	**ENGIL** **113646N 0793139E**						

REMARKS
1. Minimum 10 minutes Longitudinal Separation applicable.
2. Waypoint ENGIL refers to ARP of Neyveli Airport.
3. ATC Frequencies:
i. Neyveli TWR:
118.650 MHz 118.025 MHz (Backup)
ii. Puducherry TWR:
122.900 MHz 118.750 MHz (Backup)
iii. Tiruchirappalli APP:
124.000 MHz 120.425 MHz (Backup)

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ENR 3.1 - CONVENTIONAL ROUTES

	Route Designator (RNP Type) Name of Significant Points Coordinates	Track- Magnetic/Geo VOR Radial Distance COP	Upper Limit Lower Limit- or MEA Airspace Classification MOCA	Lateral Limits	Direction of Cruising Levels		Remarks Controlling Unit Frequency
					Odd	Even	
	W151 (OJR-SG)						
▲	**OZAR VOR** **VOR/DME (OJR)** **200727N 0735549E**						See remarks below
		342/161 64.5 NM	FL 190 FL 100 Class D 7300 FT	20 NM	↑	↓	
▲	**SONGARH NDB** **NDB (SG)** **210839N 0733330E**						

REMARKS
1. Route not available for overflying aircraft.
2. Minimum 10 minutes longitudinal separation applicable.
3. Mumbai ACC: 132.700 MHz 120.500 MHz
4. Ozar ATC: 120.600 MHz 122.700 MHz

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Name of the Station (VAR) (VOR: Declination)	ID	Frequency (Channel)	Hours of operation	Coordinates	DME Antenna Elevation	Remarks
1.	2.	3.	4.	5.	6.	7.
BILASPUR/DME	BLS	114.900MHZ (96X)	HO	215912.55N 0820633.53E	932.41 FT	DME colocated with DVOR. EGM 08
CALICUT DVOR/ DME	CLC	116.500MHZ (112X)	H24	110803.03N 0755723.68E	353.38 FT	1. Vertical datum: EGM08 2. DME Collocated with DVOR
CHANDIGARH VOR/ DME	CHG	116.500MHZ (112X)	H24	304055.97N 0764600.26E	1048.20 FT	1. Controlling Authority: Indian Air Force
CHENNAI DVOR/ DME	MMV	112.500MHZ (72X)	H24	125915.49N 0800918.08E	70.00 FT	1. Vertical datum: EGM08
CHENNAI DVOR / DME	CNI	114.900MHZ (96X)		130015.47N 0800958.04E	72.00 FT	1. Vertical datum: EGM08
CHILLARKI DVOR/ DME	CHI	116.800MHZ (115X)	H24	282051.09N 0763958.75E	777.56 FT	Vertical datum: EGM08
CHITTAGONG DVOR	CTG			221520.00N 0914930.90E	0.00 FT	VOR is in Dhaka FIR. For latest information refer AIP Bangladesh.
COCHIN DVOR/DME	CIA	113.500MHZ (82X)	H24	100901.80N 0762221.30E	45.83 FT	
COCHIN DVOR /DME	CIB	117.300MHZ (120X)	H24	100700.80N 0764050.10E	155.18 FT	
COIMBATORE DVOR /DME	CCB	112.900MHZ (76X)	H24	110159.08N 0770255.09E	1311.61 FT	(I) CONTROLLING AUTHORITY: AIRPORTS AUTHORITY OF INDIA (II) GRAVITY MODEL: EGM-08 (III) DME COLOCATED WITH DVOR
COIMBATORE NDB	CB	354KHZ	H24	110132.73N 0770240.01E		
COMILLA DVOR	CML			232600.03N 0911124.93E	0.00 FT	VOR is in Dhaka FIR. For latest information refer AIP Bangladesh.
COOCHBEHAR NDB	CO	302KHZ	As ATS	261953.22N 0892820.79E		
DAMAN DVOR/DME	DMN	113.300MHZ (80X)	0200-0800 (UTC) except Sat/ Sun & holidays	202632.52N 0725115.95E	139.40 FT	1.DME collocated with DVOR 2. Controlling Authority: Indian Navy

Name of the Station (VAR) (VOR: Declination)	ID	Frequency (Channel)	Hours of operation	Coordinates	DME Antenna Elevation	Remarks
1.	2.	3.	4.	5.	6.	7.
DEHRADUN DVOR/ DME	DDN	112.600MHZ (73X)	As ATS	301120.07N 0781000.55E	1780.84 FT	1. DVOR & DME unusable below 12000 feet beyond 16NM from 350 DEG. to 110 DEG 2. Gravity Model: EGM-08
DELHI DVOR/DME	DIG	114.600MHZ (93X)	H24	283231.85N 0770449.66E	759.96 FT	
DELHI DVOR/DME	DPN	116.100MHZ (108X)	H24	283400.89N 0770536.66E	759.96 FT	
DEOGHAR DVOR/ DME	DGH	117.200MHZ (119X)	AS ATS	242645.30N 0864319.55E	250.50 M	1. DME COLOCATED WITH DVOR 2. VERICAL DATUM: EGM 08
DIBRUGARH DVOR/ DME	DRG	117.300MHZ (120X)	As ATS	272920.29N 0950112.92E	388.78 FT	DME Collocated with DVOR. Vertical datum: EGM-08
DIBRUGARH NDB	DBR	265KHZ	As ATS	272804.08N 0950105.58E		Vertical datum: EGM08
DIMAPUR DVOR/ DME	DMR	114.500MHZ (92X)	As ATS	255251.30N 0934655.29E	530.00 FT	Vertical Datum: EGM 08
DIU NDB	DU	307KHZ	HO	204306.76N 0705457.34E		
DURGAPUR DVOR/ DME	DGP	114.800MHZ (95X)	HO	233817.61N 0871407.38E	100.43 FT	
GAYA DVOR/DME	GGC	115.000MHZ (97X)	H24	244431.33N 0845635.18E	396.00 FT	DME Collocated with DVOR. Vertical datum: EGM08
GOA	GO	274KHZ	H24	152330.75N 0735324.66E		1. Controlling Authority: Indian Navy
GOA DVOR/DME	GGO	113.600MHZ (83X)	H24	152241.12N 0734837.23E	128.28 FT	1. Controlling Authority: AAI 2. DME Colocated with DVOR 3. Vertical Reference System: EGM-08
GONDIA DVOR/DME	GDA	114.200MHZ (89X)	As ATS	213139.48N 0801742.83E	1023.00 FT	1. Vertical Datum: EGM 08
GONDIA NDB	GN	230KHZ	As ATS	213114.51N 0801719.69E		
GORAKHPUR DVOR/ DME	GKP	116.200MHZ (109X)	As per NOTAM	264433.00N 0832622.00E	255.51 FT	Controlling Authority: Indian Air Force

Name of the Station (VAR) (VOR: Declination)	ID	Frequency (Channel)	Hours of operation	Coordinates	DME Antenna Elevation	Remarks
1.	2.	3.	4.	5.	6.	7.
GORAKHPUR NDB	GH	278KHZ	As per NOTAM	264412.00N 0832646.00E		1. Controlling Authority: Indian Air Force
GUWAHATI DVOR/ DME	GGT	117.600MHZ (123X)	H24	260802.85N 0913552.50E	192.59 FT	Elevation in EGM 08
GWALIOR DVOR/ DME	GWA	112.800MHZ (75X)	HJ	261704.00N 0781246.00E	652.00 FT	1. Controlling Authority: Indian Air Force 2. DME colocated with DVOR.
HALWARA DVOR/ DME	HLW	115.200MHZ ()	HJ	304437.00N 0753756.00E	817.00 FT	1. Controlling Authority: Indian Air Force 2. DME Collocated with DVOR
HINDAN DVOR/DME	HND	113.400MHZ (81X)	As ATS	284219.00N 0772151.00E	726.00 FT	1. Controlling Authority: Indian Air Force 2. Resolution of Coordinates is up to Second
HISAR DVOR/DME	HIS	115.400MHZ (101X)	AS ATS	291152.96N 0754325.64E	722.00 FT	1. Vertical datum: EGM08 2. DME colocated with DVOR
HOLLONGI DVOR/ DME	HOL	114.900MHZ (96X)	As ATS	265756.51N 0933721.36E	381.56 FT	1. Vertical datum: EGM08 2. DME Colocated with DVOR.
HUBBALLI DVOR/ DME	HBL	113.400MHZ (81X)	As ATS	152154.51N 0750547.72E	2170.28 FT	Vertical Datum: EGM 08
HYDERABAD DVOR/ DME	HHY	114.700MHZ (94X)	H24	172715.39N 0782727.11E	1783.14 FT	i. Collocated with DVOR ii. Vertical datum: EGM08
HYDERABAD DVOR/ DME	HIA	113.800MHZ (85X)	H24	171346.74N 0782420.70E	2002.95 FT	(I) Gravity Model: EGM-08 (II) DME colocated with DVOR.
IMPHAL DVOR/DME	IIM	115.900MHZ (106X)	As ATS	244447.29N 0935325.28E	2568.24 FT	1. Co-located with DVOR 2. Vertical datum: EGM08
INDORE DVOR/DME	IID	116.700MHZ (114X)	H24	224238.22N 0754646.17E	1854.00 FT	
JABALPUR DVOR/ DME	JJB	113.600MHZ (83X)	AS ATS	231046.00N 0800334.70E	1648.52 FT	Vertical Datum: EGM 08

Name of the Station (VAR) (VOR: Declination)	ID	Frequency (Channel)	Hours of operation	Coordinates	DME Antenna Elevation	Remarks
1.	2.	3.	4.	5.	6.	7.
JAIPUR DVOR/DME	JJP	112.900MHZ (76X)	H24	264932.71N 0755016.99E	1273.00 FT	1.DVOR coverage unrestricted between region 020 DEG-180 DEG-340 DEG. 2. Restriction in DVOR coverage between 340 DEG-000 DEG-020 DEG is as below: A) Unrestricted coverage AVBL up to 12 NM. B) Coverage not AVBL below 5000 FT between 12NM to 25 NM due terrain. C). Coverage not AVBL below7000 FT beyond 25 NM due terrain.
JAISALMER DVOR/ DME	JAS	117.800MHZ (125X)	HJ	265236.71N 0705115.71E		DME Collocated with DVOR EGM-08
JALALABAD DVOR/ DME	JAL	115.800MHZ (105X)	H24	274139.60N 0793920.20E	499.21 FT	
JALGAON DVOR/ DME	JLG	117.500MHZ (122X)	0930-1600	205750.57N 0753805.28E	824.00 FT	1. DME Collocated with DVOR 2. Vertical Datum: EGM 08
JAMMU DVOR/DME	JJU	113.300MHZ (80X)	Refer NOTAM	324118.52N 0745011.27E	968.00 FT	1. Controlling Authority: AAI 2.. Collocated with DVOR
JAMNAGAR VOR/ DME	JNR	117.900MHZ (126X)	As ATS	222758.00N 0700102.80E	130.25 FT	1. Controlling Authority: Indian Air Force 2. Coverage 150 NM.
JAMSHEDPUR DVOR/DME	JJS	115.400MHZ (101X)	H24	224847.48N 0861026.15E	492.00 FT	Vertical Reference System: EGM08
JAMSHEDPUR NDB	TS	410KHZ	H24	224843.47N 0861007.82E		
JEWAR DVOR/DME	JWR	117.500MHZ (122X)	HO	281033.42N 0773817.54E	684.00 FT	1. Collocated with DVOR JWR 2. Geoid Model: EGM 08
JHARSUGUDA DVOR/DME	JRS	112.600MHZ (73X)	H24	215457.30N 0840342.40E	794.62 FT	Vertical datum: EGM08
JHARSUGUDA NDB	JH	314KHZ	H24	215518.45N 0840204.57E		
JINDAL VIJAYANAGAR NDB	VN	217KHZ	AS ATS	151033.74N 0763743.77E		Controlling Authority: Jindal Vijayanagar

ENR 4.4 - Name-code designators for significant points

Waypoints	Coordinates	Number of routes
ABVUL	273854N 0715353E	Z8, Z9
ADBUK	243431N 0745427E	Q2, Q4
ADKAL	115054N 0781649E	J15, J18, W114, W42, W93
ADKIT	103758N 0825122E	L896, N563, T3
ADMUT	321128N 0760407E	J33
ADPOP	190303N 0680000E	P574
AGAXI	155415N 0733024E	R461, V19, V51
AGEGA	085007N 0935949E	L510, N877
AGELA	163624N 0752757E	G208, J104, N571, Q8, V101, W56
AGODA	241920N 0883606E	R472, R598
AGRIX	230924N 0742027E	L639, Q2, Q7
AGROM	223145N 0845000E	G450, M875
AGUNO	231421N 0902614E	B593
AGUPA	240126N 0744111E	Q2
AKDUV	260926N 0830650E	J98, V69, W45
AKLON	112110N 0745424E	P895, T7
AKMIL	115135N 0800655E	A465, N563, N564, V5, W92
AKMOL	104213N 0763937E	Q13
AKNEX	110514N 0762815E	W46
AKNOL	253925N 0783034E	J114, W13
AKOLU	112059N 0725033E	W154
AKPIT	211312N 0795854E	V53
AKRIB	272501N 0764756E	Q23, W174, W19, Z16
AKSAN	173130N 0821100E	V48, W29
AKSIX	230115N 0800008E	V15
AKTIM	120340N 0773458E	J14, V45, W118
AKTIV	201453N 0731530E	A474, L301, Q2, W10S, W158, Z3
ALBED	180702N 0783924E	Q24
ALGAV	111410N 0725510E	W155
ALGOB	251932N 0821508E	G590
AMVIG	225113N 0732233E	A347, G472, N895
AMVOV	204853N 0774304E	V103, V104
AMVUR	104434N 0895950E	N877, P762
ANBAS	171434N 0800824E	V46, V49, V58, W136, W29, W38, W41
ANDAV	172818N 0784849E	Q23, Q24
ANGAL	161406N 0600006E	P751, UM551
ANGUP	211944N 0741544E	J19, W157, Z3
ANIRO	140210N 0783630E	B211, W121, W148, W47, W48
ANKOX	220256N 0662842E	L301
ANODA	095806N 0722358E	R329, UL425, V26, V27
ANOKO	070812N 0942500E	B466
ANPOL	311606N 0751837E	V32, W23, W24, W36, Z1
ANSOS	232703N 0932748E	A201
APAGO	221211N 0923858E	B465, W104
APANO	213502N 0725858E	A347, G208, G451, W10N, W11, Z1
APASI	075428N 0923842E	B466
APAVU	102937N 0775142E	J99

Waypoints	Coordinates	Number of routes
APIPU	265839N 0825953E	G598, W86, Z2
APUDI	290250N 0771225E	J6
APUNA	124835N 0680100E	B459, UL425
APUSU	180004N 0762544E	J116, W18, W218
ARADO	240136N 0734311E	A347, A791
AREKO	065544N 0634253E	B459
ARIVO	225817N 0840745E	A791, V79
ARUMO	105106N 0781220E	J15, J16
ASARI	304815N 0750931E	A466, A589, J24, J35, L509, W21, W23, W24, Z1, Z6
ASIPI	203130N 0775245E	J2, Q20, V92, W20
ASOGA	193233N 0764956E	L301
ASOPO	231109N 0800338E	A791, P628, W66
ASPUX	174404N 0600004E	T208, UL425
ATALI	240036N 0834933E	W109
ATEMA	050007N 0622041E	B459
ATETA	091906N 0793855E	M300, T4
ATIDA	095849N 0874503E	B466
ATLUN	244704N 0734700E	W58, Z1, Z9
ATMUV	211059N 0784408E	G472, N895, Q19
ATNUS	324357N 0752835E	W22, W24
ATOGA	251600N 0900112E	R472, W110
ATOPA	291936N 0760907E	V99
ATRIN	274906N 0751908E	V67, W65
ATVEG	212200N 0884700E	Z12, Z14
ATVIK	273946N 0951727E	W51
AVDAX	221339N 0921624E	B465
AVKOR	180204N 0735757E	G208, W128, W56, W67
AVLEL	264851N 0771051E	J20
AVMOR	123327N 0820041E	V3, V6, V8
AVNAK	242144N 0882844E	B209
AVNOS	114528N 0832135E	B466, V8
AVPOP	221809N 0890050E	L507
BASUR	075549N 0780915E	P570
BAVAN	230409N 0895930E	B593
BAVOX	260831N 0771256E	J1, L333, Q24, W20
BEBOK	104330N 0800536E	A465, T3
BEDIL	123500N 0715958E	L875
BEDOL	174539N 0735535E	Q8, Z5
BEDUX	221901N 0794226E	W140
BEGON	223753N 0740802E	G472, N895, Q2
BEGUM	230855N 0804546E	A791, W138, W86
BEKUT	174321N 0731305E	N571, Q13, Q9, W15, Z5
BEMAK	225539N 0885356E	A462
BEPDA	240129N 0722500E	Z8
BERPO	210003N 0694459E	W103
BESRI	254815N 0754746E	J60
BETKU	202839N 0720058E	L301, V47, V80, W61
BEVSU	192649N 0771533E	J107, L301, L518
BIBGI	180004N 0795542E	W38
BIBGO	073000N 0705648E	L894
BIBVA	281302N 0743403E	Z1, Z6, Z7

Waypoints	Coordinates	Number of routes
EGOGI	121100N 0690000E	L875, UL425
EGOLU	141858N 0844952E	L518
EGUGU	224730N 0733517E	G472, N895, Q1, Q6, W95
EKAKU	250007N 0765417E	Z16
EKIGA	234047N 0755956E	A791
ELBAB	201333N 0815954E	L510, L524, Q17, V76
ELKEL	014900N 0691100E	G465, L516
ELKUX	295030N 0753041E	A466, J34, V99, W22, Z7
ELMON	270334N 0751956E	L333, Q1
ELPED	213321N 0855728E	J26, J4
ELPUR	255803N 0870942E	J120, Q18, Z2
ELSAR	094606N 0872106E	P574, P762
EMPUN	165750N 0791751E	L518, Q17, Q23, W26
EMRAK	192514N 0735216E	J41, Q20
EMRAN	083430N 0942500E	L510
EMVUK	153326N 0733750E	T9
ENBAD	051755N 0673354E	A474, L516
ENGIL	113646N 0793139E	W92, W93
ENPOL	092435N 0740533E	UL425
ENTAP	220435N 0832810E	L759, Q20, V60, W100, W49
ENTUG	171237N 0741532E	J5, N571
ENVUK	183123N 0835142E	J26
EPDAD	243830N 0754731E	J52, V30, W122
EPDAL	205107N 0805532E	G472, N895
EPKIK	152811N 0791153E	V17, W153, W20
EPKOS	165308N 0740713E	B211, J5, Q9, V59, W126, W128, W67
EPKUN	283608N 0940733E	J90, W166
ERVIS	170528N 0720314E	A474, P574
ESDOT	212045N 0903250E	L507
ESGIK	253849N 0914228E	R472, W110
ESMIT	094402N 0691020E	A474, L894
EXOLU	201250N 0713410E	B342, L505, M638, N519, W14
EXUNA	242306N 0842952E	V78, W107
GIDAS	142000N 0600006E	P323
GIRNA	113506N 0831853E	P574, V6
GIVEK	202547N 0760000E	Q15, Q19
GOBIG	031413N 0683132E	L516, L756
GODEP	174028N 0755956E	J116, J28, W28
GOGVE	231314N 0784421E	A791, L510, Q15, V15
GOKUL	104408N 0794146E	T3, V7
GOKUM	122025N 0701005E	A474, L875
GOLAN	204853N 0873010E	Q10
GOLEM	115739N 0672213E	B459, L875, L894
GOLOX	231225N 0793404E	A791, W139
GOMIL	141305N 0765841E	W88
GOMTI	240143N 0740450E	A791, Q1, Q4
GONAB	144058N 0744440E	R461, W101W, W17
GOPNU	155112N 0820224E	A465, L518
GOSBI	234053N 0871726E	B209, V41, W52
GOSGU	000008N 0653255E	A474, G465
GOVKO	264446N 0851852E	G463, R581

Waypoints	Coordinates	Number of routes
GUBDU	254104N 0720719E	Z15, Z8
GUGAL	301430N 0735757E	M875
GUGIP	265620N 0812800E	B345, L509
GUGTU	271110N 0803738E	W85
GUKIB	283835N 0763746E	G333
GULAM	150819N 0755956E	P574
GULGA	264755N 0925841E	J11
GULIV	315413N 0755241E	J22
GULUP	162330N 0734830E	Q13
GUNDI	172137N 0712936E	B459, P574, T9
GUNIM	140508N 0753209E	N563, R458, R461, V61, W101W
GUNRI	153620N 0805135E	V11, V9
GURAS	140005N 0804954E	A465, N571, Q11
GUREV	225728N 0682241E	L639, N519
GUROG	185615N 0755550E	J64
GURTI	274346N 0774740E	L759, V97, W10S
GURVI	223402N 0792555E	L510, T1, W139
GUSTU	161627N 0890521E	L301, W111
GUTBO	105537N 0742941E	T6
GUTEG	091100N 0773154E	P895, R457
GUTID	210441N 0845552E	J4, J45, W50
GUTNA	161911N 0731448E	Q12, R461, V51
GUTNO	214050N 0820000E	Q20, T1
GUTUN	235025N 0794217E	W139
GUVGU	284910N 0785528E	V38
IBANI	250001N 0764311E	J52, L510, P628, Q23, W19
IBAPA	251102N 0912609E	B593
IBELA	192233N 0764956E	L505
IBETI	111750N 0772653E	W114
IBITA	185512N 0915949E	P646
IBUDA	230402N 0820953E	A791, L759, V15, V79, W102, W12, W49
IDASO	123935N 0833323E	N571, P761, V3
IDIBI	084426N 0792147E	G325
IDISU	263338N 0815535E	W30
IDOLA	250001N 0750657E	A474
IDPEM	195331N 0770313E	Q29
IDSIB	144830N 0750955E	R458, V61, W101E
IDSUL	305059N 0761656E	J34, J35, W36
IGANU	220410N 0675605E	M638, P518
IGINO	290106N 0763207E	A466, V99
IGMAR	154318N 0755956E	B211
IGNOR	121359N 0751832E	V86
IGNOS	231235N 0762845E	V44
IGOGU	073101N 0942500E	N571
IGOLU	273123N 0761850E	A474, Q2
IGONA	255800N 0801530E	J30, M875, W40
IGOTU	261650N 0921914E	W51
IGREM	160012N 0733158E	V51, V52, W172, W173
IGREX	094328N 0942500E	P628
IGURO	250418N 0854111E	Q17, W170, W52
IKABU	121438N 0754041E	V89

Waypoints	Coordinates	Number of routes
IKATI	142905N 0744557E	N563, Q13, W17
IKAVA	255417N 0762356E	Q23, V12, W19
IKEDI	264912N 0812859E	W31
IKIKO	221517N 0772156E	N877, Q14, W19
IKINA	212703N 0815953E	P628, Q16, Z14
IKOSI	204303N 0815654E	G472, N895, V72, V76, W66
IKOVO	104134N 0730050E	W145
INTIL	262751N 0763241E	J1, J43, L333, Q23, W19
INTIX	241303N 0740923E	A325, Q1
IPKAX	212757N 0761752E	J107, L518, V90, W146
IPLAS	261941N 0853913E	G335, G463, R581, V98, Z2
IPNIB	205628N 0722401E	Q25, R458, V80, W144
IRMUD	222723N 0690432E	J53
IRPAX	261535N 0835213E	G590, J71, Z13
IRSAD	120351N 0750000E	V87
IRTEP	280354N 0952012E	W80
ISKEN	263314N 0741115E	P628, Z1
ISLIL	225238N 0694207E	L639
ISMON	190704N 0851552E	A465, L524, W90
ISRIS	204529N 0725647E	G208, Q1, W10N, W11, Z1
ITBAN	274943N 0774248E	L759, W10S
IVSET	262255N 0794621E	J37, J73
IVSIS	222824N 0863114E	J26
KABEL	274400N 0735016E	L333
KABEM	263912N 0855724E	R325
KABIM	233002N 0662131E	P518
KABSO	170515N 0724910E	Q12, R461
KADMI	143633N 0740854E	W15
KADOL	190003N 0633602E	M300
KAGBI	215622N 0832020E	V60, V62
KAGUL	184415N 0845845E	P628, Q11
KAKIB	150004N 0734707E	N563
KAKID	203833N 0865951E	A465, M770, M875, W41
KAKPO	194536N 0740057E	W158, W159, Z4
KALAM	263618N 0934217E	W34, W51
KALRI	190428N 0820213E	V73, V75, V76
KAMGU	145831N 0792512E	Q24, V16, W148, W20, W47, W96
KAMLO	205509N 0774803E	Q19, V104, W108, W20
KAMOL	193803N 0733957E	L505
KAMSI	172004N 0775256E	W19, W27
KAMVA	255232N 0812700E	J56
KANTI	141335N 0741750E	Q12, W15
KARKU	205828N 0690639E	L301, M638, P518, V1, W103
KASRO	154030N 0822200E	L518, Q11
KASVI	171147N 0885716E	L759, W111
KATBI	193133N 0650002E	N563
KEVIB	192305N 0784612E	J36
KEVOD	270853N 0821208E	B345, J71, V37, Z2
KIBUD	140251N 0914947E	W112
KIKED	315249N 0753045E	J108, J110, W21, W23, W24, Z1
KIKIG	075812N 0761513E	V23, V24
KIKUR	155855N 0791032E	Q24

Waypoints	Coordinates	Number of routes
KINKI	221918N 0835538E	G450, W100, W50
KITAL	200300N 0601800E	L516, L894, P570
KLONG	255748N 0730022E	J50, Z9
LADER	121320N 0940150E	L759, P762
LADIB	171704N 0642202E	P570, P751
LAGAM	221520N 0844900E	J75, W76
LAGOG	083539N 0915950E	N571
LAKET	310659N 0752856E	J111, M890, W36
LALEK	263810N 0855151E	G335
LAMBU	181708N 0875002E	L524, L759
LAPAN	234355N 0832608E	B209, M875, V69, V77, W50
LARIK	185004N 0845222E	A465, P628, W90
LAROB	191014N 0782340E	Q24, V49
LARUP	243238N 0714947E	J51, J62
LASUB	241518N 0863730E	V31, W52
LATID	142835N 0775656E	Q22, W121, W48, W57, W71
LATLI	282113N 0791056E	W85
LATOS	265731N 0732157E	P628
LAXEN	260403N 0922012E	J49, J7
LAXIK	123009N 0792713E	W115
LAXOM	224830N 0705000E	J61, L639, W135, W143, W74, Z10
LEBUS	165840N 0752952E	J115, J29
LEDOB	163652N 0784104E	W20
LEGEB	234830N 0785441E	Q14
LEGEN	180434N 0674930E	N563, P751
LEGIN	115136N 0911750E	L510, P761
LEGOS	213803N 0880521E	A465, M773, W41
LEKAP	120505N 0793555E	N563, T5
LEKIN	254544N 0872433E	J120, J121, J122
LELAX	322329N 0773755E	W39
LEMAX	173704N 0654701E	M300, P751
LEMEX	195433N 0860922E	A465, L759
LENBO	112634N 0770814E	W43
LETPU	273221N 0772800E	L760, V100, W10N
LEVLU	030809S 0680000E	N628
LIBDI	141505N 0915949E	L759
LIGPI	221845N 0704640E	J100, J103, J86, J94, W61, W62
LIGSA	252515N 0934947E	V56, W55
LIPDU	215331N 0763218E	G472, N895, W146
LOSPO	275302N 0955720E	W51
LOTAV	203700N 0605700E	M300
LOTPU	260605N 0875630E	J122, Q18, W105, Z2
LOVGA	270138N 0764218E	W123
LUKTI	181430N 0744203E	J28, J5, W28
LULDA	122345N 0942500E	P762
LULPA	240733N 0830236E	V69, W13
LUMBU	130106N 0753026E	Q13, V88
LUMSI	272539N 0831103E	B345
LUNTA	112300N 0761928E	Q13, V34
LURGI	161234N 0783053E	Q17, Q21, V16, V21, W71
LUTGU	185931N 0772802E	J107, J89, L518, W19
LUVOM	175710N 0752059E	J65

Waypoints	Coordinates	Number of routes
LUXIP	200054N 0760000E	Q20
MABDU	185926N 0832124E	L510
MABTA	170829N 0732146E	B211, Q13, R458, W15, W78
MABUR	160100N 0901006E	L301, L759
MABVI	191152N 0741052E	J40, J41
MADOG	161210N 0735415E	P574, Q13, W17
MADOM	233200N 0804800E	W86
MAGIL	255800N 0932300E	J7
MAKUP	104523N 0760348E	Q12
MALNO	254054N 0941622E	V56, W166
MALSU	205113N 0852852E	J26, J27, J75
MAMIG	164100N 0614641E	P751, UL425
MANPU	155904N 0845452E	N877
MAPSU	283820N 0950110E	W60
MARVA	163628N 0811913E	V58
MATPA	105520N 0774536E	J13, J14, J16
MAVLA	204915N 0864730E	M875, Q11
MELAX	192955N 0753757E	J2, J42, L505, Q27, Q29, W18, W218, W75
MEMAK	060000N 0930500E	N563
MEMID	253631N 0781755E	J1, L333, L760, W13
MEMIR	243302N 0870851E	R325
MEMOP	213700N 0711300E	J85, W61, W74
MEPAR	240003N 0915149E	W54, W55, W84
MEPAT	171134N 0693259E	G450, N563
MEPEL	160200N 0920000E	M770
MEPIP	183145N 0803450E	J4, J66, L301, Q17, V75, W136
MEPOK	180413N 0815954E	L301
MEPOL	193945N 0844022E	J26, W41
MERUN	282850N 0721454E	G333, G452, L333
MESAN	161604N 0675630E	G450, M300
MESAR	332958N 0751356E	W22, W24
METIP	153504N 0665001E	G450, P570
METOM	264605N 0881055E	G348
MEVOP	111741N 0775153E	W115
MIBOG	250913N 0725402E	J50, J62
MIDIL	233854N 0860833E	V71, W64
MIDOK	194116N 0732820E	J118, W134
MIGAB	261139N 0855455E	V98, W170, W171
MIGOP	251220N 0884708E	R598
MIKAG	263223N 0932506E	W51
MILUP	225728N 0645000E	L639
MIPAK	115000N 0942500E	L759
MOLGO	180938N 0732306E	Q8, W126
MOLRU	111345N 0754915E	M300, Q12
MOLVI	144054N 0782603E	V42, W153
MONDA	252102N 0862616E	A201, G463, R581, V14
MONPI	220414N 0755956E	G472, J107, L518, N895, V90, W79, Z4
MOTRI	140204N 0775223E	Q22, Q9
MOVRI	263601N 0850052E	G336
MOXAX	150006N 0744235E	W101E, W17
MOXET	110146N 0645024E	L516, L875

Waypoints	Coordinates	Number of routes
MOXUM	042052N 0615123E	B459
MUBKU	185502N 0732525E	V108, W134
MUDIT	115111N 0760546E	Q13, V33, V35, V88
MULMO	253253N 0780014E	W13
MUPID	294922N 0755848E	J24
MURUS	060000S 0631942E	A474
NIKIR	181721N 0840650E	A465, L510
NIKOT	255252N 0752624E	A474, P628, Q2, Q5, R462, V13
NIMOV	112121N 0914750E	L510, P762
NINAT	203248N 0772456E	G450, V104, W19
NINIM	231102N 0755956E	L639, N877
NINOB	163134N 0704959E	B459, N563
NIPAD	215218N 0815953E	G450, V78
NIPUX	195356N 0825415E	J4, L524
NISUN	135605N 0921949E	L759
NITAG	213546N 0801530E	Q19
NITIX	150704N 0694459E	B459, M300
NIVUD	140505N 0685900E	B459, P570
NIXIB	230554N 0731242E	Q25
NIXIG	214026N 0835903E	L759, Z14
NOBOD	145442N 0735721E	N563, Q12
NOBOM	260901N 0784855E	J30, L759, W33
NODAX	171345N 0834115E	N877, Q11
NOGIS	250124N 0805426E	G590, W86
NOKAT	224727N 0885630E	B593
NOKIL	215547N 0714703E	W161
NOKOK	261024N 0745737E	P628, Q1, V13
NOLOV	181522N 0815954E	W41
NOMAG	270854N 0943841E	V55, W51
NONEN	201745N 0752942E	Q19, W75, W79
NONEX	262059N 0822348E	J105
NOPAM	074456N 0763022E	V22
NOPEK	063614N 0942500E	P574
NOPES	123256N 0792100E	W114
NOPIM	244656N 0721454E	J62, Z8
NUDLA	221635N 0860830E	J46
NULKU	273013N 0803242E	Z2
NUSRU	191743N 0775522E	L301, Q23
NUTVO	314314N 0770558E	W35
NUVTI	113105N 0783355E	J13, W115, W92
OBKIX	292635N 0750631E	Z6
ODOLI	113705N 0695259E	A474, UL425
ODUMI	221314N 0802519E	T1
OGUNA	212904N 0824021E	T1, V60, W160, Z14
OKILA	163534N 0730628E	P574, Q12, R461, V51, W17
OLNIK	122850N 0711440E	L875, P570
OLSOR	172130N 0843000E	L301, Q10
OLTOG	264716N 0814705E	W30, W31
OMDEV	160557N 0730501E	T9, V19
OMKOP	264640N 0790510E	J20, J47
OMKUR	320403N 0755956E	J106, J108
OMLEG	205415N 0791630E	N877, Q20, V39

Waypoints	Coordinates	Number of routes
OMUPA	270001N 0844716E	G590
ONALO	274956N 0794606E	W85
ONATI	195944N 0860404E	L759, Q11
ONERO	242149N 0823231E	W102
ONISA	285808N 0800533E	L626
ONOGI	302400N 0771155E	M890, W35
ONOTO	241626N 0875729E	A467
OPAKA	193621N 0743258E	G450, L505, Q20, W18, W218
OPAMO	143535N 0770526E	P574, Q9, W121, W48, W56
OPASA	203503N 0825723E	G472, N895, P628
OPESU	232849N 0870145E	B209, R460, V41
OPIGI	271301N 0752356E	Q1
OPIMO	263458N 0885550E	Q18, W137
OPIRA	160604N 0713858E	A474, N563, T5
OPONI	214703N 0813824E	G450, P628, T1
ORAPI	233418N 0732323E	Q25, Q4
ORISA	121547N 0741606E	M300, V87
ORLID	111812N 0600000E	G450
OROTI	291700N 0752956E	A589, W25, W69, Z7
OSBEM	205500N 0760000E	Q14, W146
OSEPU	230914N 0765907E	G590, Q23, W10N, W10S, W40, Z3
OSERA	060000N 0745728E	R457, V22, V23
OSIBO	252505N 0732156E	J62, Z9
OSIRI	142105N 0705659E	A474, M300
OSRUB	223607N 0752814E	W157, Z3
OSUDU	221405N 0852340E	J27
OSUPI	150000N 0721220E	T5
OSVAS	212017N 0804630E	L510, Q20, V92, Z14
OSVIN	174200N 0741901E	Z5
OTABA	221103N 0831923E	G450, L759, V77, W49
OTABI	130305N 0702659E	A474, P570
OTGEV	163922N 0764936E	W120, W88
OTKIR	022619S 0600000E	G465
OVLAP	263920N 0842138E	G590, Z2
PADBI	151356N 0782130E	Q21
PAGDA	262820N 0893406E	Q18, R598, V95, W137
PAKSI	264544N 0800839E	J20, J58
PALKO	200303N 0861922E	A465
PALMU	215540N 0812850E	P628, Q19
PAMLU	121052N 0762852E	R461, V87
PAMTO	145141N 0743028E	R461, W101W
PANLA	332122N 0745439E	W21, W23
PAPLI	242222N 0913106E	R472
PAPMA	191400N 0743847E	J65
PAPVO	205111N 0773331E	Q19, Q23
PAPVU	175730N 0885035E	L524, W111
PARAR	222630N 0630700E	N571
PARSA	270822N 0843954E	G598
PARTY	241438N 0705159E	G208, G451, N895
PASBA	174511N 0754907E	V106
PATKA	174015N 0844600E	L510, Q10
PATVA	340158N 0754830E	J109

Waypoints	Coordinates	Number of routes
PAVRU	272001N 0792854E	G452
PEDMA	185838N 0775949E	Q23, Q28, W27
PEGBO	161219N 0735851E	J5, V10, W172, W67
PEGMA	310958N 0773150E	W39
PEGNU	210915N 0751209E	W156, Z4
PEGTA	154001N 0762242E	W163, W56
PESKY	273006N 0820149E	V37
PEXEG	130415N 0760230E	J44, L875, R461, T5, V61, V89, W81
PIGUT	194237N 0760518E	J2
POLOT	253602N 0913004E	B593, J31, W110
POMAN	115605N 0715958E	P570, R329, T6, T7
POMUT	114010N 0753546E	Q12
PONIP	171849N 0764811E	J104, J28, J29, J41, J63, W18, W218, W28, W88, W98, Z5
PONOG	212241N 0880004E	Q10
POPAG	312616N 0754526E	V32
POPET	071343N 0681336E	A474
POREG	242103N 0924733E	W54, W82
POSIG	271301N 0773455E	L760, W10N, W123
POTAS	173000N 0835515E	L301, Q11
POVOS	250000N 0721200E	J51, R462, Z8
POXOD	073000N 0725548E	R329
PUKES	244202N 0771612E	P628, Q24, W20
PUKIR	151730N 0754216E	V61, W48
PUKON	254329N 0920339E	W110, W53
PUMOT	282800N 0784655E	M890, V38, V94, W37
PUNID	200541N 0831052E	V72
PUNOR	203939N 0744657E	J19, Z11, Z4
PUPAM	241232N 0842722E	P646, Q16
RABAN	313532N 0743451E	A456
RAMSA	252002N 0704423E	R462, Z15
RASKI	230330N 0635200E	L301, L639
REDAP	245400N 0881115E	R344
RENAG	220312N 0773932E	Q15, Q24
REPER	261000N 0711300E	V107, W16
REXOD	211230N 0613830E	N563
RIBRO	184250N 0815954E	N877
RIBTO	025333N 0663653E	A474, L756
RIDRA	255923N 0754749E	W122
RIGLO	164436N 0620117E	L516, P751
RIKBU	150957N 0762134E	Q9
RILVU	334041N 0744959E	W21, W23
RIMGU	254710N 0740043E	J62, Z1
RINDA	153500N 0920000E	L301
RINTO	142314N 0800318E	Q23, V11
RITLI	165000N 0733400E	Q13
RITNU	144903N 0781731E	Q21, W71
RITPO	225728N 0665748E	L639, P518
RITVI	243400N 0805100E	W13, W86
RUKNI	255002N 0862436E	J121, Q18, R325, W171, Z13
RULON	221526N 0824300E	Q16, Q19
RULSA	033000N 0700000E	L756

Waypoints	Coordinates	Number of routes
RULUD	275454N 0951515E	W80
RUNOT	092936N 0790725E	G325, M300
RUPAK	262448N 0925240E	J49, J9, W51
RUPAM	225728N 0675219E	L639, M638
RUPEN	250831N 0743156E	Q1, Q5, R462
RUPKU	133833N 0802020E	Q11, Q23, V9
RUPTI	075535N 0932950E	L645, N571
RUSAB	225917N 0831146E	V77, V78, V79
RUSLI	260340N 0942536E	V55, W166
RUSUV	082526N 0760505E	V25, V26
RUVAN	085201N 0761050E	V27, V28
RUXAL	205314N 0803857E	G472, N895, Q29, V39
SABAP	223305N 0794956E	W99
SABIV	152210N 0744011E	V20, W163, W17
SABKU	090301N 0761849E	V29
SADEV	204739N 0812213E	G472, J67, L510, N895, Q16, W136
SADGU	191638N 0852635E	A465, Q11
SADRI	074136N 0891942E	L645, N563
SAGOD	175548N 0915949E	G472, N895
SAGOR	100000N 0800454E	A465, V7
SAKEB	180702N 0781153E	Q23
SAKRO	163400N 0781747E	Q22, W57, W59
SAKUN	193627N 0711149E	V1, V2
SALIG	191850N 0772724E	J93
SALOR	251302N 0864545E	R325
SAMAK	075842N 0942500E	L645
SAMEL	180050N 0781748E	J3, Q23, W20
SANKI	102230N 0764930E	Q13
SANUG	185535N 0855119E	L524, Q10
SAPLO	273854N 0770815E	Q24, W174, W20
SAPNA	233002N 0675000E	B342, M638, N519
SAPNU	175010N 0811318E	W41
SAPOT	241924N 0794833E	Q15, W139
SAPUM	113804N 0775719E	V45, W114
SARAL	271057N 0935037E	J11
SASRO	240417N 0705959E	A791, G208, G451, J62, N895
SATBI	112422N 0771430E	W118
SEBMA	225345N 0850827E	A791, Q19
SEGMO	240802N 0864551E	W52
SEKDO	251156N 0711949E	Z15
SEKVI	193534N 0734103E	W159, Z4
SUBSU	265855N 0885150E	G348
SUDAK	333534N 0745113E	W21, W23
SUDEL	193418N 0781719E	J89, Q24, Q28, W27
SUDIV	261956N 0892823E	R598
SUDUM	182934N 0794722E	W38
SUGAN	152500N 0825045E	L518, Q10
SUGID	193303N 0692059E	N571, V2
SUGLI	161454N 0770801E	W163, W98
SUKMI	233753N 0865831E	W64
SULIP	091341N 0780317E	W147
SULOM	312047N 0743357E	A466, L509, M890

Waypoints	Coordinates	Number of routes
SULTO	073837N 0880151E	L645
SULVO	173731N 0760630E	V106
SUMAD	261131N 0714631E	J117, W16
SUMAG	223539N 0885626E	B465
SUPLU	165045N 0840345E	N877, Q10
SURAM	284500N 0755256E	G333
SUREK	160216N 0793145E	Q23, V4
SURGO	272901N 0770846E	Q24, V100, W20
SURUP	202815N 0862900E	Q11, W41
SUSIK	142405N 0760956E	W101E, W121, W59, W78
TAMID	204118N 0775056E	G450, J3, V103, W20
TANGE	184708N 0794223E	J67, Q16
TAPAS	111804N 0792357E	V5, V7
TARAB	213916N 0693939E	B342, N519
TASEX	203354N 0780137E	Q20, Q24
TASOP	251320N 0704759E	A325
TATAK	280020N 0800654E	J119, J58, J98
TATIP	214053N 0803259E	Q19, V54
TATUX	193720N 0862730E	L759, Q10
TAXOP	253459N 0863314E	J122, R325, W105
TAXUN	211907N 0701542E	B342, N519, W14
TEBID	244102N 0880150E	A201, G463
TEBOV	202504N 0915949E	L507
TEBUL	233627N 0923735E	A201, W104
TEGIG	213009N 0803537E	G450, L510, W108
TEGOR	183503N 0623003E	P570
TEGUT	113510N 0791454E	R457, V7, W92
TEKEM	285921N 0945353E	W166, W60
TEKID	135135N 0753704E	V61, W121
TELAR	070752N 0740000E	L899, V24, V25
TELEM	240702N 0684600E	A791, G210, G472, N893, Z10
TELUV	140942N 0781113E	Q21, W153
TEPAL	234842N 0862603E	G335, R460, V31, V71
TOGOL	171819N 0765725E	J89, J97, Q28, W218
TORIV	222440N 0685934E	J87
TOTOX	215030N 0622230E	P574
TULNA	125806N 0790543E	W116
TUMLA	093045N 0765830E	Q13, W43, W91
TUNPU	335504N 0773457E	W39
TURVU	135545N 0764704E	J95, W101E
UBGIK	154343N 0742407E	V19, W120
UBSAB	191358N 0750749E	J2, J5
UDULO	162204N 0733343E	P574, V52, W15, W17
UDUPU	101559N 0753712E	W145
UGABA	120859N 0771729E	W43
UGISO	242130N 0734109E	Q25, W58, Z1
UGPEG	093051N 0653435E	B459, L516
UGRIX	125659N 0774052E	J96, N563
UKADU	091622N 0763946E	Q12, W15
UKASO	273815N 0755151E	A347, Q1, R218
UNRIV	133541N 0633555E	G424, G450, L516
UNRUV	260340N 0850317E	G336, Z13

Waypoints	Coordinates	Number of routes
UNSIL	211914N 0852707E	J27, J4
UNVOM	293955N 0774336E	J6
UPLUB	263032N 0775343E	L760
UPMAV	214328N 0754148E	W156, W75, W79, Z4
UPNIR	320740N 0760921E	J106, J108
UPTAR	213042N 0774055E	G472, J3, N895, W20
UPTEX	294440N 0764736E	J21, J77
URBUR	250929N 0805527E	J113, W86
URKOK	164412N 0870906E	L301, P628
UXAGA	253505N 0861509E	G463, R581, W105
UXENA	193445N 0805651E	N877, V73, W136
UXENI	263813N 0745335E	W58
UXIDA	300100N 0751756E	W22, W25
UXOGO	165248N 0755620E	J104, J65, V101
UXUPO	254716N 0831700E	G590, L509
VABDI	150551N 0783802E	G208, V16, V43, W153, W71
VAGPU	154136N 0764113E	Q8
VANTU	260530N 0891450E	R598
VARKA	131011N 0740541E	T8
VARLO	214933N 0863250E	J4
VASGI	312616N 0751927E	V32, W22
VASLA	233117N 0705959E	G210, G472, J51, N893
VASTU	134105N 0715958E	M300, P895, T8
VATLA	144405N 0891850E	P628, W111
VATMO	134200N 0812700E	N571, Q10
VAVDU	172621N 0742128E	J5, Q8
VAVNO	155911N 0733929E	V20, V52, W15, W173
VEBRU	264612N 0835429E	J54, J57, V96, Z2
VEDGI	223338N 0765510E	N877, W146
VEGLU	264858N 0762904E	J20
VEKRA	192300N 0820000E	J4
VEKTU	125424N 0790406E	J96
VELNU	240000N 0763100E	W122
VEMBO	133530N 0785000E	W141, W48
VEMDI	111722N 0781521E	J13, J15
VEMPI	215240N 0803012E	V53, V54, W140
VENAX	241350N 0871612E	V14
VENRA	204250N 0705522E	J103, J84, J85
VENUM	251205N 0923841E	J31, W53
VEPLU	114934N 0735937E	W155
VESOL	260825N 0895428E	J31, V95
VETED	212020N 0883151E	P646, W111
VETOL	150224N 0743711E	W101E
VEXIR	222244N 0771103E	N877, Q23
VIBAL	210316N 0834700E	T1, W149
VIGAB	201120N 0780734E	Q29
VIKAS	162936N 0743814E	Q9
VIKIT	275215N 0712528E	P628, Z8, Z9
VILEN	260041N 0872450E	Q18, Z2
VILOP	241132N 0815953E	B209, W13
VIMIK	165151N 0754805E	J115, V101, V102
VINAD	252214N 0884920E	R598

Waypoints	Coordinates	Number of routes
VINAK	291500N 0800000E	W87
VINEP	141642N 0781426E	B211, V43, W121, W153, W48, W72
VINUK	172852N 0795527E	V49
VIPAT	165700N 0822430E	V9
VIRAM	152134N 0780555E	G208, N571, Q22, W57
VUTAS	091200N 0600000E	G424, L875
XIVIL	131740N 0785504E	W117, W142, W48
XOKRO	091506N 0855218E	N563, P762
XOPOX	164604N 0823847E	A465

Name Lateral limits	Upper/Lower Limits System/Means of Activation Announcement INFO for CIV FLT	Remarks Time of ACT Risk of Interception (ADIZ)
TSA614 [DIGARU] Circular area centered on 260810N 0915835E within a 2KM radius.	2500 FT AMSL/ MSL	1. Controlling Authority: Indian Air Force. 2. Controlling Unit: SAS&IO, IAF (Digaru). 3. Contact detail: AF Digaru Civil Exchange: 0361-2786449 FAX: 0361-2786680 4. Active: H24 5. TSA valid until 24 March 2027.
TSA701(A) [Adampur] Area bounded by lines joining points 314359N 0753956E; 315100N 0754830E then along the clockwise arc of a circle of 25NM radius centred on ARP VIAX (312602N 0754527E) to 310700N 0760400E; 311230N 0754645E to point of origin.	FL 280 / FL 145	1. Controlling Authority: Indian Air Force. 2. Controlling ATS Unit: Adampur TWR: 122.7 MHz. 3. Availability of TSA will be notified through AUP/UUP by AMC. 4. Activation, use and deactivation of the TSA shall be governed by the SOP between AAI and IAF established for the purpose. 5. TSA valid till 14 AUGUST 2026.
TSA701(B) [Adampur] Area bounded by lines joining points 315100N 0754830E then along the clockwise arc of a circle of 25NM radius centred on ARP VIAX (312602N 0754527E) to 310700N 0760400E; 311230N 0754645E; 310600N 0754800E; 310100N 0760500E; 310000N 0763300E; 312000N 0764700E; 315800N 0764400E; 320300N 0762900E; 315600N 0755500E to point of origin.	FL 280 / GND	1. Controlling Authority: Indian Air Force. 2. Controlling ATS Unit: Adampur TWR: 122.7 MHz. 3. Availability of TSA will be notified through AUP/UUP by AMC. 4. Activation, use and deactivation of the TSA shall be governed by the SOP between AAI and IAF established for the purpose. 5. TSA valid till 14 AUGUST 2026.
TSA707 [Mandalthang] Area bounded by lines joining points 344752N 0780353E; 344444N 0781002E; 343910N 0781142E; 343829N 0781125E; 343704N 0780437E; 344153N 0780030E; 344542N 0780020E to point of origin.	FL 530 / GND	1. Controlling Authority: Indian Army. Controlling from: Stn HQ Tanges/3 Inf Div Controlling officer: SSO2 Contact number: 9711220235 Email ID: akumar.122a@gov.in 2. Field Firing Range. Non-participating aircraft shall NOT enter the TSA when active. 3. Activation of TSA will be notified through a NOTAM at least SEVEN days in advance. 4. Activation, use and deactivation of the TSA shall be governed by the SOP established for the purpose between Delhi ACC, Indian Army and IAF. 5. TSA valid until 10th August, 2028.

Name Lateral limits	Upper/Lower Limits System/Means of Activation Announcement INFO for CIV FLT	Remarks Time of ACT Risk of Interception (ADIZ)
TSA717 [Kharonala] Area bounded by lines joining points 342448N 0753645E; 342610N 0753620E; 342916N 0753031E; 342838N 0752359E; 342314N 0752332E; 341908N 0752742E; 341857N 0752900E; 341759N 0752859E; 341940N 0753334E; 342028N 0753338E; 342026N 0753413E; 342122N 0753457E; 342124N 0753430E; 342308N 0753439E; 342305N 0753522E; 342331N 0753528E; 342405N 0753554E; 342418N 0753643E to point of origin.	FL 520 / GND	1. Controlling Authority: Indian Army. Controlling from: 8 Mtn Arty Bde/8 Mtn Div Controlling officer: GSO2 Contact details: 8755768302 Email ID:topgunknffr@gmail.com 2. Field Firing Range. Non-participating aircraft shall NOT enter the TSA when active. 3. Activation of TSA will be notified through a NOTAM at least SEVEN days in advance. 4. Activation, use and deactivation of the TSA shall be governed by the SOP established for the purpose between Delhi ACC, Indian Army and IAF. 5. TSA valid until 10th August, 2028.
TSA721 [Mundota] Area bounded by lines joining points 270030N 0753400E; 270019N 0753332E; 270038N 0753321E; 270049N 0753400E to point of origin.	2300 FT AMSL/ GND	1. Controlling Authority: Indian Army. 2. Controlling Unit: HQ 45 Inf Bde and HQ 322 Inf Bde. 3. Contact detail:Bde GSO-1, (HQ 45 Inf Bde) 4. Activation of TSA will be DAILY between 0030-1130 and 1230-1630 UTC. 5. Activation, use and deactivation of the TSA shall be governed by the SOP between Indian Army and AAI established for the purpose. 6. TSA valid until 19th April, 2029.
TSA722 [GRASS BIR-13] Area bounded by lines joining points 260524N 0782508E; 255436N 0782508E; 255436N 0784348E; 255805N 0784348E; 261012N 0783332E; 261012N 0782848E to point of origin.	FL 400 / GND	1. Controlling Authority: Indian Airforce. 2. Controlling ATS Unit: Gwalior ATC Gwalior Tower: 122.700 MHz Gwalior Approach: 127.500 MHz 3. Availability of TSA will be notified through AUP/UUP by AMC. 4. Activation, use and deactivation of the TSA shall be governed by the SOP between AAI and IAF established for the purpose. 5. Any aircraft entering active TSA 722 due to any contingency/exigency shall relay its position to Gwalior ATC on the designated frequency. 6. TSA valid until 12th July 2026.

AD 1.3 INDEX TO AERODROMES

Aerodrome/Heliport Name Location Indicator		Type of traffic permitted to use the aerodrome/heliport			Reference to AD Section and Remarks
		International-Domestic (INTL-DOM)	IFR/VFR	S =Scheduled NS =Non-scheduled P =Private	
1		2	3	4	5
AGARTALA AIRPORT, AGARTALA	VEAT	DOM	IFR/VFR	S - NS - P	AD 2-VEAT
AGATTI AIRPORT, AGATTI	VOAT	DOM	VFR	S - NS - P	AD 2-VOAT
AGRA AIRPORT, AGRA [INDIAN AIR FORCE]	VIAG	DOM	IFR/VFR	S - NS - P	AD 2-VIAG
ALIGARH AIRPORT, ALIGARH	VIAH	DOM	VFR	S - NS - P	AD 2-VIAH
AMRAVATI AIRPORT, AMRAVATI	VAAM	DOM	VFR	S - NS - P	AD 2-VAAM
AURANGABAD AIRPORT, AURANGABAD	VAAU	DOM	IFR/VFR	S - NS - P	AD 2-VAAU
AZAMGARH AIRPORT, AZAMGARH	VEAH	DOM	VFR	S - NS - P	AD 2-VEAH
BAGDOGRA AIRPORT, BAGDOGRA	VEBD	DOM	IFR/VFR	S - NS - P	AD 2-VEBD
BARAPANI AIRPORT, BARAPANI	VEBI	DOM	IFR/VFR	S - NS - P	AD 2-VEBI
BAREILLY AIRPORT, BAREILLY [INDIAN AIR FORCE]	VIBY	DOM	IFR/VFR	S - NS - P	AD 2-VIBY
BELAGAVI AIRPORT, BELAGAVI	VOBM	DOM	IFR/VFR	S - NS - P	AD 2-VOBM
BHAVNAGAR AIRPORT, BHAVNAGAR	VABV	DOM	IFR/VFR	S - NS - P	AD 2-VABV
BIDAR AIRPORT, BIDAR [INDIAN AIR FORCE]	VOBR	DOM	IFR/VFR	S - NS - P	AD 2-VOBR
BIJU PATNAIK INTERNATIONAL AIRPORT, BHUBANESWAR	VEBS	INTL - DOM	IFR/VFR	S - NS - P	AD 2-VEBS
BILASPUR AIRPORT, BILASPUR	VEBU	DOM	IFR/VFR	S - NS - P	AD 2-VEBU
BIRSA MUNDA AIRPORT, RANCHI	VERC	DOM	IFR/VFR	S - NS - P	AD 2-VERC
CALICUT AIRPORT, CALICUT	VOCL	INTL - DOM	IFR/VFR	S - NS - P	AD 2-VOCL
CHANDIGARH AIRPORT, CHANDIGARH[INDIAN AIR FORCE]	VICG	INTL - DOM	IFR/VFR	S - NS - P	AD 2-VICG
CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT, LUCKNOW	VILK	INTL - DOM	IFR/VFR	S - NS - P	AD 2-VILK
CHENNAI INTERNATIONAL AIRPORT, CHENNAI	VOMM	INTL - DOM	IFR/VFR	S - NS - P	AD 2-VOMM
CHHATRAPATI SHIVAJI MAHARAJ INTERNATIONAL AIRPORT, MUMBAI	VABB	INTL - DOM	IFR/VFR	S - NS - P	AD 2-VABB

CHITRAKOOT AIRPORT, CHITRAKOOT	VECT	DOM	VFR	S - NS - P	AD 2-VECT
COCHIN INTERNATIONAL AIRPORT, NEDUMBASSERY	VOCI	INTL - DOM	IFR/VFR	S - NS - P	AD 2-VOCI
COIMBATORE AIRPORT, COIMBATORE	VOCB	INTL - DOM	IFR/VFR	S - NS - P	AD 2-VOCB
COOCH-BEHAR AIRPORT, COOCH-BEHAR	VECO	DOM	VFR	S - NS - P	AD 2-VECO
DAMAN AIRPORT, DAMAN [COAST GUARD AIR STATION]	VADN	DOM	IFR/VFR	S - NS - P	AD 2-VADN
DATIA AIRPORT, DATIA	VIDT	DOM	VFR	S - NS - P	AD 2-VIDT
DEHRADUN AIRPORT, DEHRADUN	VIDN	DOM	IFR/VFR	S - NS - P	AD 2-VIDN
DEOGHAR AIRPORT, JHARKHAND	VEDO	DOM	IFR/VFR	S - NS - P	AD 2-VEDO
DEVI AHILYA BAI HOLKAR AIRPORT, INDORE	VAID	DOM	IFR/VFR	S - NS - P	AD 2-VAID
DIBRUGARH AIRPORT, DIBRUGARH	VEMN	DOM	IFR/VFR	S - NS - P	AD 2-VEMN
DIMAPUR AIRPORT, DIMAPUR	VEMR	DOM	IFR/VFR	S - NS - P	AD 2-VEMR
DONYI POLO AIRPORT, ITANAGAR	VEHO	DOM	IFR/VFR	S - NS - P	AD 2-VEHO
DR BABASAHEB AMBEDKAR INTERNATIONAL AIRPORT , NAGPUR	VANP	INTL - DOM	IFR/VFR	S - NS - P	AD 2-VANP
DURGAPUR AIRPORT, DURGAPUR	VEDG	DOM	IFR/VFR	S - NS - P	AD 2-VEDG
GAYA AIRPORT, GAYA	VEGY	DOM	IFR/VFR	S - NS - P	AD 2-VEGY
GOA INTERNATIONAL AIRPORT, DABOLIM, GOA [INDIAN NAVY]	VOGO	INTL - DOM	IFR/VFR	S - NS - P	AD 2-VOGO
GONDIA AIRPORT, GONDIA	VAGD	DOM	IFR/VFR	S - NS - P	AD 2-VAGD
GORAKHPUR AIRPORT, GORAKHPUR [INDIAN AIR FORCE]	VEGK	DOM	IFR/VFR	S - NS - P	AD 2-VEGK
GWALIOR AIRPORT, GWALIOR [INDIAN AIR FORCE]	VIGR	DOM	IFR/VFR	S - NS - P	AD 2-VIGR
HAL AIRPORT BENGALURU	VOBG	DOM	IFR/VFR	S - NS - P	AD 2-VOBG
HALWARA AIRPORT, HALWARA	VIHX	DOM	IFR/VFR	S - NS - P	AD 2-VIHX
HINDAN AIRPORT, HINDAN [INDIAN AIR FORCE]	VIDX	DOM	IFR/VFR	S - NS - P	AD 2-VIDX
HISAR AIRPORT, HISAR	VIHR	DOM	IFR/VFR	S - NS - P	AD 2-VIHR
HUBBALLI AIRPORT, HUBBALLI	VOHB	DOM	IFR/VFR	S - NS - P	AD 2-VOHB
HYDERABAD INTERNATIONAL AIRPORT, HYDERABAD	VOHY	DOM	IFR/VFR	S - NS - P	AD 2-VOHY
IMPHAL AIRPORT, IMPHAL	VEIM	INTL - DOM	IFR/VFR	S - NS - P	AD 2-VEIM

S.No	Aerodrome Name	ICAO Location Indicator	Date of issue of license (dd mm yyy)	Validity date of license (d dmm yyyy)	Remarks if any License no.
34	HAL Ozar Airport, Nasik	VAOZ	28.07.2023	27.01.2028	AL/PUB/068 Refer AD 2.23 for permanent exemptions granted by DGCA India .
35	Hubballi Airport, Hubballi	VOHB	12.08.2023	11.08.2028	AL/PUB/047 Refer AD 2.23 for permanent exemptions granted by DGCA India .
36	Hyderabad International Airport, Hyderabad	VOHY	16.04.2024	15.04.2029	AL/PUB/011 Refer AD 2.23 for permanent exemptions granted by DGCA India .
37	Imphal Airport, Imphal	VEIM	10.05.2023	09.05.2028	AL/PUB/042 Refer AD 2.23 for temporary exemptions granted by DGCA India
38	Indira Gandhi International Airport	VIDP	03.05.2024	02.05.2029	AL/PUB/004 Refer AD 2.23 for temporary exemptions granted by DGCA India .
39	Jabalpur Airport, Jabalpur	VAJB	04.07.2023	03.07.2028	AL/PUB/046
40	Jagdalpur Airport, Jagdalpur	VEJR	12.04.2025	11.04.2029	AL/PUB/078
41	Jai Prakash Narayan International Airport, Patna	VEPT	15.02.2026	14.02.2027	AL/PUB/071
42	Jaipur International Airport, Jaipur	VIJP	07.04.2023	06.10.2027	AL/PUB/014
43	Jalgaon Airport, Jalgaon	VAJL	21.12.2024	20.12.2028	AL/PUB/075
44	Jeypore Airport, Odisha	VEJP	20.10.2025	19.10.2027	AL/PUB/095
45	Jindal Vijayanagar	VOJV	14.11.2024	13.11.2029	AL/PUB/002
46	Jolly Grant Airport, Dehradun	VIDN	18.11.2023	17.11.2028	AL/PUB/051 Refer AD 2.23 for temporary exemptions granted by DGCA India

S.No	Aerodrome Name	ICAO Location Indicator	Date of issue of license (dd mm yyy)	Validity date of license (d dmm yyyy)	Remarks if any License no.
47	Juhu Airport, Mumbai	VAJJ	08.02.2025	07.02.2029	AL/PUB/067
48	Kadapa Airport, Kadapa	VOCP	15.05.2023	14.05.2028	AL/PUB/070
49	Kalaburagi Airport, Kalaburagi	VOGB	01.05.2024	30.10.2028	AL/PUB/086
50	Kandla Airport, Kandla	VAKE	28.11.2023	27.11.2028	AL/PUB/055
51	Kangra Airport, Kangra	VIGG	08.12.2023	07.12.2028	AL/PUB/056
52	Kannur International Airport, Mattannur, Kannur	VOKN	03.10.2024	02.10.2027	AL/PUB/082
53	Keshod Airport, Keshod	VAKS	17.03.2023	16.03.2028	AL/PUB/090
54	Khajuraho Airport, Khajuraho	VEKO	05.04.2023	04.04.2028	AL/PUB/039
55	Kishangarh Airport, Kishangarh	VIKG	09.10.2023	08.10.2028	AL/PUB/073
56	Kolhapur Airport, Kolhapur	VAKP	15.12.2023	14.12.2028	AL/PUB/074
57	Kullu Manali Airport, Bhuntar	VIBR	19.12.2023	18.12.2028	AL/PUB/063
58	Kushinagar Airport	VEKI	22.08.2023	21.02.2028	AL/PUB/089
59	Lal Bahadur Shastri Airport, Varanasi	VEBN	25.11.2024	24.11.2028	AL/PUB/016
60	Kurnool Airport, Kurnool	VOKU	15.01.2025	14.01.2028	AL/PUB/088
61	Lilabari Airport, North Lakhimpur	VELR	23.08.2023	22.08.2028	AL/PUB/048
62	Lokpriya Gopinath Bordoloi International Airport	VEGT	21.05.2023	08.12.2027	AL/PUB/015 Refer AD 2.23 for temporary exemptions granted by DGCA India
63	Ludhiana Airport, Ludhiana	VILD	28.12.2023	27.12.2028	AL/PUB/064
64	Madurai Airport, Madurai	VOMD	21.03.2023	20.03.2028	AL/PUB/036 Refer AD 2.23 for temporary exemptions granted by DGCA India .
65	Maharana Pratap Airport, Udaipur	VAUD	06.01.2023	05.01.2028	AL/PUB/030
66	MAA Mahamaya Airport, Ambikapur	VEAP	15.12.2024	14.03.2029	AL/Public/106

S.No	Aerodrome Name	ICAO Location Indicator	Date of issue of license (dd mm yyy)	Validity date of license (d dmm yyyy)	Remarks if any License no.
67	Mangaluru International Airport, Mangaluru	VOML	16.09.2023	15.09.2028	AL/PUB/023 Refer AD 2.23 for temporary exemptions granted by DGCA India .
68	Manohar International Airport, MOPA	VOGA	26.04.2023	25.10.2027	AL/PUB/096
69	Moradabad Airport, Moradabad	VIMB	17.11.2023	16.11.2028	AL/PUB/100
70	Mundra Airport, Mundra	VAMA	16.02.2024	15.02.2029	AL/PUB/077
71	Mysuru Airport, Mysuru	VOMY	29.09.2024	28.09.2027	AL/PUB/027
72	Naini Saini , Pithoragarh, Uttarakhand	VIPG	12.12.2023	25.12.2027	AL/PUB/084
73	Navi Mumbai International Airport, Navi Mumbai	VANM	30.03.2026	29.09.2030	AL/PUB/112
74	Netaji Subhash Chandra Bose International Airport	VECC	06.03.2024	05.03.2029	AL/PUB/007
75	Pakyong Airport, Pakyong	VEPY	03.05.2025	02.05.2026	AL/PUB/079 AD is licensed as Non-instrument under VFR condition.
76	Pantnagar Airport, Pantnagar	VIPT	08.12.2023	07.12.2028	AL/PUB/057
77	Porbandar Airport, Porbandar	VAPR	28.12.2023	27.12.2028	AL/PUB/065
78	Puducherry Airport, Puducherry	VOPC	16.12.2023	15.12.2028	AL/PUB/060
79	Raja Bhoj Airport, Bhopal	VABP	15.04.2024	14.04.2029	AL/PUB/025
80	Rajahmundry Airport, Rajahmundry	VORY	18.11.2023	17.11.2028	AL/PUB/053
81	Rajiv Gandhi International Airport Ltd, Shamshabad.	VOHS	04.03.2024	03.03.2029	AL/PUB/021
82	Rajkot International Airport (Hirasar)	VAHS	29.04.2023	28.04.2028	AL/PUB/041
83	Rewa Airport, Rewa	VERW	09/09/2024	08/09/2029	AL/PUB/107
84	Rourkela Airport, Rourkela	VERK	03.07.2023	02.01.2028	AL/PUB/085
85	Rupsi Airport, Rupsi	VERU	10.07.2022	09.07.2027	AL/PUB/087
86	Salem Airport, Salem	VOSM	29.08.2023	28.08.2028	AL/PUB/050
87	Sardar Vallabh Bhai Patel International Airport. Ahmedabad	VAAH	10.06.2023	09.06.2028	AL/PUB/010
88	Shimla Airport, Shimla	VISM	16.12.2023	15.12.2028	AL/PUB/061

S.No	Aerodrome Name	ICAO Location Indicator	Date of issue of license (dd mm yyy)	Validity date of license (d dmm yyyy)	Remarks if any License no.
89	Shirdi Airport, Shirdi	VASD	21.09.2023	20.09.2028	AL/PUB/072
90	Shri Guru Gobind Singh ji airport, Nanded	VOND	03.04.2026	02.04.2027	AL/PUB/024
91	Sindhudurg Airport, Sindhudurg	VOSR	15.09.2023	16.09.2028	AL/PUB/092
92	Sonari Aerodrome, Jamshedpur	VEJS	22.08.2023	21.08.2028	AL/PUB/020
93	Shivamogga Airport, Shivamogga	VOSH	24.10.2025	23.02.2028	AL/PUB/97
94	Shravasti	VISV	01.02.2025	01.08.2026	AL/PUB/105
95	Sri Guru Ram Das Jee International Airport, Amritsar	VIAR	19.12.2023	18.12.2028	AL/PUB/017
96	Surat Airport, Surat	VASU	08.12.2023	07.12.2028	AL/PUB/058
97	Swami Vivekananda Airport, Raipur	VERP	24.01.2023	23.01.2028	AL/PUB/031
98	Tezu Airport, Tezu	VETJ	09.02.2025	08.02.2027	AL/PUB/076
99	Thiruvananthapuram International Airport, Thiruvananthapuram	VOTV	04.09.2024	06.09.2029	AL/PUB/006 Refer AD 2.23 for temporary exemptions granted by DGCA India .
100	Tiruchirappalli Airport, Tiruchirappalli	VOTR	20.12.2022	19.12.2027	AL/PUB/026
101	Tirupati Airport, Tirupati	VOTP	18.05.2023	17.05.2028	AL/PUB/043
102	Tuticorin Airport, Tuticorin	VOTK	20.06.2023	19.06.2028	AL/PUB/044
103	Utkela Airport, Utkela (Govt. of Odisha)	VEUK	07.02.2025	06.08.2028	AL/PUB/099 AD certified for VFR(DAY) OPS only
104	Vadodara Airport, Vadodara	VABO	06.07.2023	05.01.2028	AL/PUB/028
105	Veer Surendra Sai Airport, Jharsuguda, Odisha	VEJH	04.11.2025	03.11.2026	AL/PUB/080
106	Vijayawada Airport, Vijayawada	VOBZ	16.12.2023	15.12.2028	AL/PUB/062
107	Hisar Airport, Hisar	VIHR	07.04.2025	12.03.2026	AL/PUB/081 AD Certified For VFR(Day) Ops Only

Refer NOTAM for validity of the license

2. ARRIVALS

2.1 STARs are presented in diagrammatic format on a chart which comprises two main elements:

a) A TRANSITION route; and

b) An ARRIVAL route.

2.2 A TRANSITION starts at a waypoint on the ATS route and then requires VOR/DME or RNAV tracking to position the aircraft for the ARRIVAL route.

2.3 All arriving aircraft are required to follow the appropriate TRANSITION and ARRIVAL routes.

2.4 Additional elements on the STAR chart include the following:

a) Vertical restrictions - designed to contain aircraft in controlled airspace and to separate aircraft from obstacles and to avoid, to the degree possible, conflict with departing traffic.

b) Speed restrictions - designed for flow control purposes.

c) Minimum safe altitude (MSA) - provides a minimum clearance of 1000Ft above all objects located in an area contained within 25NM of AAE VOR.

2.5 Arrivals can expect radar vectors to intercept the localizer for an ILS approach from the RNAV STARs.

2.6 STARs shall be issued by ATC in the following order:

a) ARRIVAL identifier;

b) TRANSITION identifier;

c) Runway-in-use;

d) An assigned level

2.7 Holding

a) AH393 – 1 min left hand race track pattern, inbound track 215 deg M, minimum holding altitude 9000Ft

b) AH394 – 1 min right hand racetrack pattern, inbound track 212 deg M, minimum holding altitude 9000Ft

c) AH367 – 1 min right hand racetrack pattern, inbound track 315 deg M, minimum holding altitude 9000Ft

d) AH374 – 1 min left hand race track pattern, inbound track 345 deg M, minimum holding altitude 4000Ft

3. DEPARTURES

3.1 All departing aircraft will be cleared on the appropriate RNAV(GNSS/DME-DME-IRU) SID.

3.2 A Transition will be issued by ATC in conjunction with the RNAV(GNSS/DME-DME-IRU) SID

4. TRANSITION

4.1 Aircraft may be radar vectored off a Transition/RNAV SID/RNAV STAR. Such aircraft will subsequently be given an instruction to intercept the appropriate Transition/RNAV SID/RNAV STAR.

5. VERTICAL AND SPEED RESTRICTIONS

5.1 Pilots shall comply with an ATC assigned level. Pilots shall also adhere to the vertical and speed restrictions depicted on the cleared Transition and RNAV(GNSS/DME-DME-IRU) SIDs/STARs. ATC clearance will take precedence when the ATC clearance does not allow the pilots to adhere to the vertical and speed restrictions depicted on the Transition and RNAV(GNSS/DME-DME-IRU) SIDs/STARs.

6. OPERATORS' PROCEDURES

6.1 Pilots shall inform ATC when on-board equipment does not meet the requirements of RNAV. Pilots can then expect radar vector from ATC.

RADIO COMMUNICATION FAILURE PROCEDURES
SARDAR VALLABHBHAI PATEL INTERNATIONAL AIRPORT
AHMEDABAD (VAAH)

1.INTRODUCTION

Aircraft emergencies encompass a wide range of critical situations that can threaten the safety of the flight, its occupants, or people on the ground. Among various emergencies, Radio Communication Failure (RCF) is one of the common occurrences which may arise during any phase of flight. Understanding and responding to RCF situations effectively is crucial for pilots and air traffic controllers to mitigate risks and ensure the best possible outcome.

The Radio Communication Failure may occur due to:

•Airborne Transmitter and/or Receiver Failure

•Ground Station Transmitter and/or Receiver Failure

The objective of this document is to standardize the actions to be taken by the pilot of arriving and departing aircraft experiencing radio communication failure at Ahmedabad Airport.

GENERAL:

i)All Transponder equipped aircraft experiencing Radio Communication failure shall set transponder to Mode A/C code 7600 as soon as practicable.

Note: This Requirement of Setting transponder to Mode A/C code 7600 in no way imposes any restriction on the pilot's decision to set transponder to Mode A/C code 7500 or 7700, whenever required.

ii)Watch for ALDIS Lamp signal shown by ATC, when established on final approach of assigned runway.

iii)In case communication failure takes place prior to establishing on final approach track, maintain the last assigned level or FL070 whichever is higher and proceed direct to AAE VOR (113.100 MHz) to join AAE holding pattern. Descend to 2000 feet in hold. After reaching 2000 feet, carry out instrument approach procedure via overhead AAE.

iv)In case radio communication failure takes place after establishing the final approach track, aircraft may continue the approach and land if runway visual or initiate go around climbing to 2000 feet then turn right to join AAE VOR (113.100) hold and carry out instrument approach procedure via overhead AAE.

v)If AAE VOR is not available, aircraft shall hold over Ahmedabad ARP (230416N 0723735E) in 1-minute right hand pattern, descend in the hold to 2000 feet. Reaching 2000 feet leave the hold to establish final approach for the assigned runway or carry out visual approach for the assigned runway.

vi)Aircrafts shall keep looking for potential traffic while executing any manoeuvre as specified in this document.

vii)An aircraft equipped with ADS-B may indicate the loss of air ground communication by all of the available means.

viii)The pilot of affected aircraft may try to communicate to the concerned ATS unit through 121.5 MHz or the frequency of adjacent units/stations, or by relay through another aircraft.

ix)Pilot may make blind transmissions to ATC of all necessary reports and actions taken by the aircraft, e.g., descent, turn, proceeding to waypoint etc., irrespective of whether partial/ complete RCF has been experienced or not.

x)Aircraft may be suffering from partial radio communication failure, e.g., aircraft may be able to receive instructions from ATC and following the same.

xi)To ascertain RCF in an aircraft, ATC should:

a)Change aircraft heading by 30 degrees or more

b)Instruct to change SSR code/squawk ident, and

c)Observe the compliance by pilot of above instructions.

xii)If it is identified by ATC using the procedure above as mentioned in para (xi), that the aircraft is able to receive their transmissions, then ATC shall continue providing suitable ATC instructions.

xiii)After landing, aircraft shall lookout for follow-me jeep on taxiway Alpha holding point (Runway in use-23) and taxiway R4 holding point (Runway in use-05) and after sighting the Follow-me Jeep, Aircraft shall follow the Follow Me Jeep for parking to the allotted bay. Upon sighting the Marshaller, aircraft shall stop following "Follow me Jeep" and shall follow marshaller for parking

3. ASSIGNED RWY AND ITS AVAILABILITY FOR RCF AIRCRAFT

i)If arriving aircraft has been advised and acknowledged of runway in use at Ahmedabad, then such runway shall be considered as the assigned runway.

ii)If arriving aircraft has not been advised of runway in use at Ahmedabad, then Runway 23 shall be considered as assigned runway.

iii)In strong tail wind conditions for assigned Runway, aircraft experiencing RCF will carry out a missed approach on assigned runway and after following complete missed approach for such approach, aircraft will carry out published instrument approach procedure for the opposite runway.

VAAM AD 2.16 HELICOPTER LANDING AREA

1	Geographical coordinates of the geometric centre of touchdown and lift-off (TLOF) or of each threshold of final approach and take-off (FATO) area	Not Established
2	TLOF and/or FATO area elevation:	Not Established
3	TLOF and FATO area dimensions to the nearest metre or foot, surface type, bearing strength and marking;	Not Established
4	True bearings of FATO;	Not Established
5	Declared distances available	Not Established
6	Approach and FATO lighting;	Not Established
7	Remarks	Not Established

VAAM AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	CTR: Circular area centered on 204853N 0774304E within a 15NM radius.
2	Vertical limits	FL 75
3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	AMRAVATI TWR, English
5	Transition altitude	4000 FT
6	Hours of applicability	HO
7	Remarks	1) Airspace classified as Class D 2) Beyond operational hours the airspace classification is Class G.

VAAM AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	**2**	**3**	**4**
APP	AMRAVATI TOWER	118.650 MHZ	
APP	AMRAVATI TOWER	124.475 MHZ	
TWR	AMRAVATI TWR	118.650 MHZ	
TWR	AMRAVATI TWR	124.475 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	**6**	**7**
	HO	1. Backup Frequency 2. Functions of APP combined with TWR.
	HO	1. Main Frequency 2. Functions of APP combined with TWR.
	HO	BACK UP
	HO	MAIN

VAAM AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aids, magnetic variation and type of supported operation for ILS/ MLS, basic GNSS, SBAS and GBAS, and for VOR/ILS/MLS station used for technical lineup of the aid	Identification	Frequency(ies), Channel number(s), Service provider, and reference path identifier(s) (RPI), as appropriate	Hours of operation, as appropriate;
1	2	3	4

Geographical coordinates of the position of the transmitting antenna	Elevation of transmitting antenna of DME/ elevation of GBAS reference point	Service volume radius from the GBAS reference point	Remarks
5	6	7	8

VAAM AD 2.20 LOCAL AERODROME REGULATIONS

1) TAXI PROCEDURE:
i). All the aircraft stands are power in/ power out, precaution required during taxiing.
ii). Wing Tip Marsheller mandatory to be available during movement of aircraft on apron.
iii).No Aircraft shall take lock turn/ pivotal turn on the Runway to avoid pavement damage. Use turn pad for 180 deg turn, provided on END of RWY 08 & 26

VAAM AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VAAM AD 2.22 FLIGHT PROCEDURES

NIL

VAAM AD 2.23 ADDITIONAL INFORMATION

NIL

VAAM AD 2.24 CHARTS RELATED TO AN AERODROME

1. Aerodrome Chart(07 August 2025)
2. Aircraft Parking/Docking Chart(07 August 2025)
3. Aerodrome Obstacle Chart Type A (Operating Limitations) RWY 08/26(07 August 2025)
4. Aerodrome Obstacle Chart Type B(07 August 2025)

VAAM AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Procedure	Procedure Minima	VSS Penetration
1	2	3

VABB AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	2	3	4
SAR	-	123.100 MHZ	SHORT CODE :441931 PSTN : 8991117564
APP	Mumbai Approach	119.300 MHZ	
APP	Mumbai Approach	120.350 MHZ	
APP	Mumbai Approach	124.650 MHZ	
APP	Mumbai Approach	125.450 MHZ	
APP	Mumbai Approach	126.975 MHZ	
APP	Mumbai Approach	127.900 MHZ	
TWR	Mumbai Tower	118.100 MHZ	
TWR	Mumbai Tower	122.500 MHZ	
ATIS	Mumbai information	126.400 MHZ	
ACC	MUMBAI CONTROL/ RADAR	133.425 MHZ	
ACC	Mumbai Control/Radar	120.500 MHZ	SHORT CODE : 441901 PSTN : 0091 22 20888088
ACC	Mumbai Control/Radar	125.350 MHZ	SHORT CODE : 441901 PSTN : 0091 22 20888088
ACC	Mumbai Control/Radar	127.150 MHZ	SHORT CODE : 441920 PSTN : 8991117565
ACC	Mumbai Control/Radar	132.700 MHZ	SHORT CODE : 441901 PSTN : 0091 22 20888088
ACC	Mumbai Control/Radar	133.300 HZ	SHORT CODE : 441901 PSTN : 0091 22 20888088
ACC	Mumbai Control/Radar	133.850 MHZ	SHORT CODE : 441901 PSTN : 0091 22 20888088
ACC	Mumbai Control/Radar	133.925 MHZ	
ACC	Mumbai Control/Radar	135.750 MHZ	SHORT CODE : 441920 PSTN : 8991117565
ALRS	----	121.500 MHZ	
SMC	Mumbai Delivery	121.850 MHZ	
SMC	Mumbai Ground	121.750 MHZ	
SMC	Mumbai Ground	121.900 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	6	7
	H24	Search and Rescue

Logon address, as appropriate	Hours of operation	Remarks
	H24	1. Approach Arrival 2. Main Frequency
	H24	1.Backup Frequency 2.Combined Backup Frequency for Approach Arrival and Approach Departure
	H24	1. Approach Departure 2. Main Frequency
	H24	1. Approach Arrival 2. Main Frequency
	H24	1. Backup Frequency 2. Combined Backup Frequency for Approach Arrival and Approach Departure
	H24	1. Approach Departure 2. Main Frequency
	H24	NIL
	H24	Tower Backup Frequency
	H24	NIL
	H24	Lower Area Control 1
	H24	RSR (Backup Frequency)
	H24	RSR (S), RCAG at Goa
	H24	NIL
	H24	RSR (N), RCAG at VAAU & VAPR
	H24	Area West, RCAG facility at VAPR
	H24	Area Backup Frequency, RCAG facility at VASU
	H24	Lower Area Control 2
	H24	REMOTE OPERATION AT VAPR
	H24	Emergency Frequency
	H24	Clearence Delivery
	H24	SMC-2
	H24	SMC-1

VABB AD 2.19 RADIO NAVIGATION AND LANDING AIDS

43 Aircraft Pushback Procedure RWY 14/09/27, Stands: C21 TO C26 (07 August 2025)
44 Aircraft Pushback Procedure RWY 32, Stands: C21 TO C26 (07 August 2025)
45 Aircraft Pushback Procedure RWY 09, Stands: C27 TO C33 (07 August 2025)
46 Aircraft Pushback Procedure RWY 14/27 Stands: C27 TO C33 (07 August 2025)
47 Aircraft Pushback Procedure RWY 32, Stands: C27 TO C33 (07 August 2025)
48 Aircraft Pushback Procedure RWY 14/32/09/27, Stands: C80
49 Aircraft Pushback Procedure RWY 14/09, Stands: C81-C85(07 August 2025)
50 Aircraft Pushback Procedure RWY 27/32, Stands: C81-C85(07 August 2025)
51 Aircraft Pushback Procedure RWY 14/09, Stands: C86-C88(07 August 2025)
52 Aircraft Pushback Procedure RWY 27/32, Stands: C86-C88(07 August 2025)
53 Aircraft Pushback Procedure RWY 09/27/14/32, Stands: G1 to G5 (07 August 2025)
54 Aircraft Pushback Procedure RWY 09/27/14/32, Stands: K1-K2 (22 JAN 2026)
55 Aircraft Pushback Procedure RWY 09/27/14/32 Stands: K3L-K3R (22 JAN 2026)
56 Aircraft Pushback Procedure (For Code D & E ACFT) RWY 09/27/14/32, Stands: K3 (22 JAN 2026)
57 Aircraft Pushback Procedure RWY 09/27/14/32, Stands: K4R, K4L, K5R, K5L, K6R, K6L (22 JAN 2026)
58 Aircraft Pushback Procedure (For Code D & E ACFT) RWY 09/27/14/32, Stands: K4, K5 & K6 (22 JAN 2026)
59 Aircraft Pushback Procedure RWY 09/27/14/32, Stands: J1 to J5
60 Aircraft Pushback Procedure RWY 09/27/14/32, Stands: J6 to J10
61 Aircraft Pushback Procedure RWY 09/27/14/32, Stands: R1L, R1, R1R, R2L, R2, R2R(22 JAN 2026)
62 Aircraft Pushback Procedure RWY 09/27/14/32, Stands: R3(22 JAN 2026)
63 Aircraft Pushback Procedure RWY 09/27/14/32, Stands: R4 - R5(22 JAN 2026)
64 Aircraft Pushback Procedure RWY 09/14, Stands: S1L - S3R(02 OCT 2025)
65 Aircraft Pushback Procedure RWY 27/32, Stands: S1L - S3R(02 OCT 2025)
66 Aircraft Pushback Procedure RWY 09/27/14/32 Stands: V6R (07 August 2025))
67 Aircraft Pushback Procedure RWY 09/27/14/32 Stands: V7L & V7R (07 August 2025)
68 Aircraft Pushback Procedure RWY 09/27/14/32 Stands: V8L & V8R (07 August 2025)
69 Aircraft Pushback Procedure RWY 09/27/14/32, Stands: V4 - V8 (07 August 2025)
70 Aircraft Pushback Procedure RWY 09/27/14/32, Stands: V 9 & V 10 (07 August 2025)
71 Aircraft Pushback Procedure RWY 09/27/14/32, Stands: V11 (02 OCT 2025)
72 Aircraft Pushback Procedure RWY 09/14, Stands: V12 - V15(22 JAN 2026)
73 Aircraft Pushback Procedure RWY 27/32, Stands: V12 - V15(22 JAN 2026)
74 Aircraft Pushback Procedure RWY 09/27/14/32, Stands: V 16 - V 17(22 JAN 2026)
75 Aircraft Pushback Procedure RWY 09/27/14/32, Stands: V18L, V18, V18R & V19(22 JAN 2026)
76 Aircraft Pushback Procedure RWY 09/27/14/32 Stands: V20L, V20R & V21L(22 JAN 2026)
77 Aircraft Pushback Procedure (For Code C) RWY 09/27/14/32 Stands: V21R & V22 (22 JAN 2026)
78 Aircraft Pushback Procedure (For Code D & E) RWY 09/27/14/32 Stands: V20, V21 & V22 (22 JAN 2026)
79 Aircraft Pushback Procedure RWY 09/27/14/32, Stands: V 23 & V 24 (22 JAN 2026)
80 Aircraft Pushback Procedure (For Code D & E ACFT) RWY 09/27/14/32, Stands: V23 & V24 (22 JAN 2026)
81 Aircraft Pushback Procedure RWY 09/27/14/32, Stands: V25 (22 JAN 2026)
82 Aircraft Pushback Procedure (For Code D & E ACFT) RWY 09/27/14/32, Stands: V25 (22 JAN 2026)
83 Aircraft Pushback Procedure RWY 09/27/14/32, Stands: V 26L, V 26R, V 27L & V27R (22 JAN 2026)
84 Aircraft Pushback Procedure (For Code D & E ACFT) RWY 09/27/14/32, Stands: V26 & V27 (22 JAN 2026)
85 Aircraft Pushback Procedure RWY 09/27/14/32, Stands: V28L & V28R(22 JAN 2026)
86 Aircraft Pushback Procedure (For Code D & E ACFT) RWY 09/27/14/32, Stands: V28(22 JAN 2026)
87 Aircraft Pushback Procedure RWY 09/27/14/32, Stands: V29, V30L, V30R & V31L(22 JAN 2026)
88 Aircraft Pushback Procedure (For Code D & E ACFT) RWY 09/27/14/32, Stands: V29, V30 & V31(22 JAN 2026)

89 Aircraft Pushback Procedure RWY 09/27/14/32, Stands: V 31R, V 32L & V 32R(22 JAN 2026)
90 Aircraft Pushback Procedure RWY 09/14, Stands: General Aviation(02 OCT 2025)
91 Aircraft Pushback Procedure RWY 27/32, Stands: General Aviation(02 OCT 2025)
92 Instrument Approach Chart - ILS Procedure RWY09
93 Instrument Approach Chart - ILS (Z) (DME Required) Procedure RWY 27
94 Instrument Approach Chart - ILS (Y) Procedure RWY27
95 Instrument Approach Chart - ILS or LOC Y Procedure RWY 14 (17 APR 2025)
96 Instrument Approach Chart - RNP Y Procedure RWY 09
97 Coding Table - RNP Y Procedure RWY 09
98 Instrument Approach Chart - RNP Y Procedure RWY 14
99 Coding Table - RNP Y Procedure RWY 14
100 Instrument Approach Chart - VOR Procedure RWY 09
101 Instrument Approach Chart - VOR Procedure RWY 27
102 Instrument Approach Chart - VOR Procedure RWY 14
103 Instrument Approach Chart - VOR Procedure RWY 32
104 ATC Surveillance Minimum Altitude Chart
105 Location Of Stop Bars & No Entry Bars (22 JAN 2026)
106 Aircraft Pushback Procedure RWY 09/27/14/32 Stands: V3L - V3R-V4L(11 JUN 2026)
107 Aircraft Pushback Procedure (For Code C) RWY 09/27/14/32 Stands: V4R,V5 & V6L(11 JUN 2026)

VABB AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Procedure	Procedure Minima	VSS Penetration
1	2	3

VABB/BOM

For Aircraft upto Code C

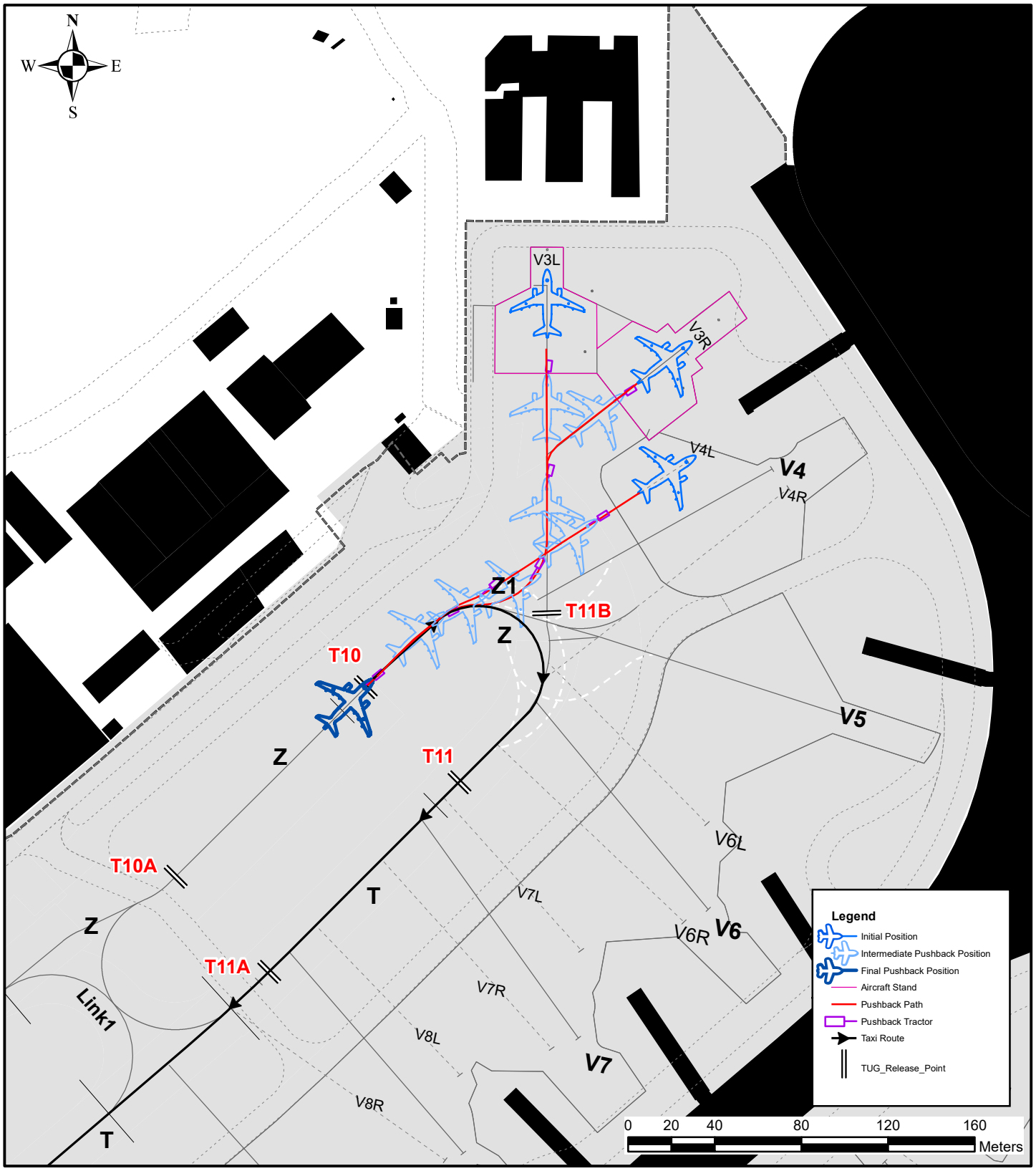
AIRCRAFT PUSHBACK PROCEDURE
Runway 09 / 27 / 14 / 32
Stands - V3L, V3R & V4L

MUMBAI INDIA
CHHATRAPATI SHIVAJI MAHARAJ
INTL AIRPORT

V3L, V3R & V4L	• Pushback facing Northeast on TWY Z up to Tug Release Point T10

CAUTION :

• Pushback from V3L, V3R, V4L, V4R, V5, V6L and V6R are interdependent.



VABB/BOM

For Aircraft upto Code C

AIRCRAFT PUSHBACK PROCEDURE

Runway 09 / 27 / 14 / 32

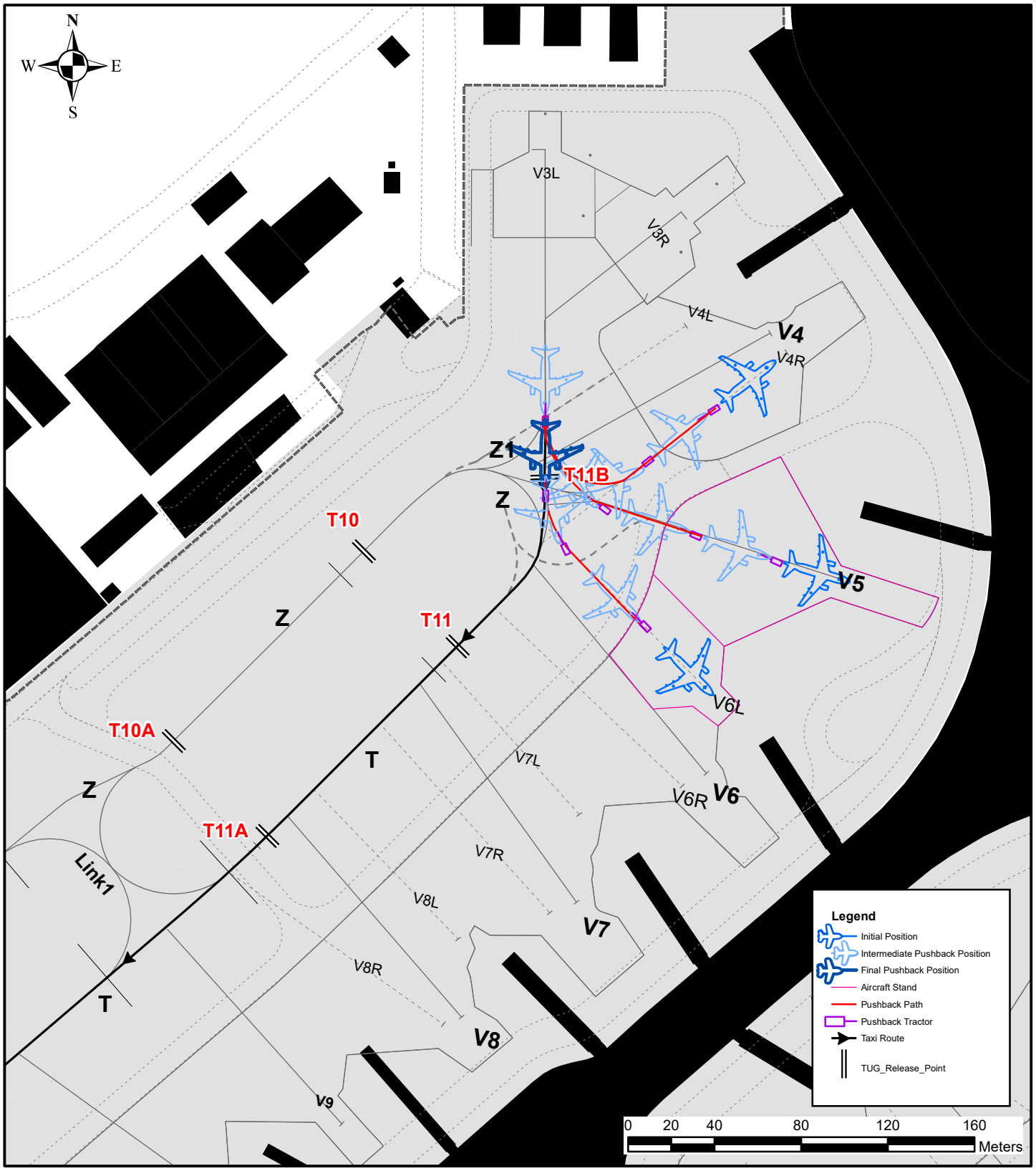
Stands - V4R, V5 & V6L

MUMBAI INDIA
CHHATRAPATI SHIVAJI
MAHARAJ INTL APT.

V4R, V5 & V6L	• Pushback facing South on Taxilane T and pull forward up to Tug Release Point T11B

CAUTION :

• Pushback from V3L, V3R, V4L, V4R, V5, V6L and V6R are interdependent.



4. PROCEDURE FOR ARRIVALS:

4.1 In case radio communication failure takes place after establishing the ILS/final approach track, aircraft may continue the approach and land if visual, or go around and carry out the missed approach procedure and join the VOR (114.100) BVR holding procedure climbing to and maintaining 2400 ft.

4.2 Except when descent clearance has already been received from ATC BHAVNAGAR and acknowledged, the pilot shall continue on the ATS route maintaining filed fligh plan level or level cleared by adjacent ATC/ ACC Unit i.e. VASU ATC, VABB AREA or VAAH AREA and do not commence descent before 25NM VOR (114.100) BVR.

4.3 After crossing 25NM, the pilot shall descend to FL080 to join the published hold over VOR (114.100) BVR for the runway as mentioned in para 3.1.

4.4 Commence descent to 2100 feet in published hold over VOR (114.100) BVR at, or as close as possible to, the expected approach time (EAT) last received and acknowledged;or, if no expected approach time (EAT) has been received and acknowledged, at, or as close as possible to, the estimated time of arrival (ETA) over VOR (114.100) BVR.

4.5 Leave VOR (114.100) BVR and carry out the published ILS/VOR Procedure for the runway as mentioned in para 3.1.

4.6 Land, if possible, within 30 minutes after the estimated time of arrival (ETA) or the last acknowledged expected approach time (EAT), whichever is later.

5. PROCEDURE FOR DEPARTURE:

5.1 Departing aircraft experiencing radio communication failure and intending to continue to its filed flight plan destination shall:

5.1.1 Continue ATS route as per filed flight plan, climbing to/maintaining cleared and acknowledged flight level, or minimum flight altitude if higher, for a period of 20 minutes following the aircraft's failure to report its position over compulsory reporting point and thereafter adjust level and speed in accordance with the filed flight plan to destination.

5.1.2 When the aircraft is given clearance for offset from flight plan route in without a specified limit, re-join the current flight plan route after passing 25 NM from VOR (114.100) BVR but no later than the next significant point, taking intoonsiderationthe applicable minimum flight altitude.

5.2 A departing aircraft, experiencing radio communication failure and intending to land back at Bhavnagar Airport, shall:

5.2.1 Maintain the last assigned level, or minimum flight altitude if higher, for a period of 10 minutes on the flight plan route or on offset radial as cleared in ATC clearance.

5.2.2 After 10 minutes turn towards VOR (114.100) BVR via the same flight plan route or radial as per departure clearance. On Reaching VOR (114.100) BVR joins hold as published.

5.2.3 If required jettison fuel, then remain in hold over VOR (114.100) BVR after taking all precautions.

5.2.4 Commence descent in the hold to 2100 feet. Leave VOR (114.100) BVR and carry out the published ILS/VOR Procedure for the runway as mentioned in para 3.2.

5.3 Procedures for VFR Traffic:

5.3.1 In case of a VFR flight experiencing RCF and does not intend to land at Bhavnagar:

It shall continue to fly in VMC, land at the nearest suitable aerodrome/ helipad, and report its arrival by the most expeditious means to the ATC, Bhavnagar.

5.3.2 In case of a VFR flight experiencing RCF and intending to land at Bhavnagar:

a) Proceed according to the current flight plan route in VMC and maintain the altitude/level last assigned and acknowledged.

b) Proceed towards 15 NM North of the field subject to arrival route and descent

1000 FT AGL.

c) Maintaining 1000 FT AGL proceed to Bhavnagar to join the traffic circuit for the last acknowledged Runway or the Runway as per para 3.1.

d) Carry out a complete aerodrome traffic circuit and land on the last acknowledged Runway or the Runway as per para 3.1.

• When Bhavnagar ATC becomes aware of the RCF of the aircraft, the controller concerned shall accord priority for the RCF aircraft to land.

• If the aircraft re-establishes communication or has landed, the ATC unit shall inform all concerned units/aerodromes along the route as per the flight plan including the alternate aerodrome.

5.4 Various Signals used by ATCO during communication failure Air traffic controllers have ALDIS lamps as backup systems for communication if the radio fails.

The various signals used by the ATCO during communication failure are as follows	**Aircraft in Flight**	**Aircraft on the ground**
Steady green	Cleared to land	Cleared for take-off
Steady red	Give way to other aircraft, continue circling	Stop
A series of green flashes	Return for landing* (*Clearances to land and to taxi will be given in due course.)	Cleared to taxi
Series of red flashes	The aerodrome is unsafe, do not land	Taxi clear of landing area in use
Series of white flashes	Land at this aerodrome and proceed to the apron*	Return to starting point on the aerodrome
Alternate Red and Green	Exercise extreme caution	Exercise extreme caution
Blinking runway lights	Vehicles, Plans, and pedestrians immediately clear the landing area in use	

LOW VISIBILITY PROCEDURES

1.INTRODUCTION

1.1 Until the latest amendment of DGCA Civil Aviation Requirements (CAR) section 8, Series 'C', Part-I on All-Weather Operations, Low visibility procedures were required at aerodromes for the purpose of ensuring safe operations during Categories II and III approaches and/or low visibility take-offs (LVTO).

1.2 However, in latest amendment to CAR (Rev. 10, issue Oct 2022), para 5.3, following provision regarding Low visibility procedures is added. "An operator shall not conduct takeoff with RVR/visibility less than standard Category I conditions of 550 m RVR/800 m visibility unless low visibility procedures are enforced".

1.3 Further, as per para 5.2 of DGCA CAR Section 8, Series C, Part-1 on All Weather Operations, "An operator shall not conduct low visibility take-offs in less than 400 m RVR unless approved by DGCA. Operators may be authorized LVTO minima of up to 75m".

1.4 These provisions necessitated the need for low visibility procedures for accommodating/permitting departures in Visibility/RVR less than 800M/550M even at such airports where there are no CAT II and CAT III operations

1.5 As per provisions of Aerodrome Design and Operations CAR and ICAO Annex 14, Runway centre line lights are required for take-off in RVR below 400 M. Further, as per Aerodrome Design and operations CAR para 9.8.7, Surface Movement Radar (SMR) need to be provided at an aerodrome intended for use in Runway Visual Range conditions less than a value of 350 M.

1.6 Accordingly, as per the provisions of DGCA CAR Section 8, Series C, Part-1 on All Weather Operations; DGCA CAR Section 4, Series B, Part-1 on Aerodrome Design and Operations; ICAO DOC 9365; DGCA Aerodrome Advisory Circular AD AC NO. 4 of 2022; and DGCA letter no. AV1503/02/03-AL dated 12.01.2018; Low visibility Procedures have been developed for BHAVNAGAR Airport to accommodate/permit departures in Visibility/RVR less than 800M/550M up to 400 M RVR from RWY 25.

2. PURPOSE

2.1 The purpose of this document is to define the Standard Operating Procedures (SOP) for Low Visibility Procedures at Bhavnagar Airport.

3. SCOPE

3.1 This is applicable to all the concerned personnel involved in the Low Visibility Procedures as mentioned in this SOP.

3.2 The Low Visibility Procedure (LVP) describe the procedures and actions that are required to be taken by the Air Traffic Control (ATC), Pilots, Airline Operators, MET dept, Vehicle Operators, Airport Operations, Electrical Engg., CNS, Airport Fire Services and Ground Handling Agencies during Low Visibility procedures - Take-Off at Bhavnagar Airport.

3.3 The procedures contained in this document shall be read in conjunction with other applicable ICAO DOCs and Annexes / DGCA CARs and relevant circulars, AAI CHQ/RHQ instructions on the subject issued from time to time.

4. DEFINITIONS

4.1 Aerodrome Operating Minima:

The limits of usability of an aerodrome for:

i) take-off, expressed in terms of runway visual range and/or visibility and, if necessary, cloud conditions.

ii) landing in 2D instrument approach operations, expressed in terms of visibility and/or runway visual range; minimum descent altitude/height (MDA/H) and, if necessary, cloud conditions; and

iii) landing in 3D instrument approach operations, expressed in terms of visibility and/or runway visual range and decision altitude/height (DA/H) appropriate to the type and/or category of the operation.

4.2 Instrument approach operations (Annex 6): An approach and landing using instruments for navigation guidance based on an instrument approach procedure. There are two methods for executing instrument approach operations:

i) a two-dimensional (2D) instrument approach operation, using lateral navigation guidance only; and

ii) a three-dimensional (3D) instrument approach operation, using both lateral and vertical navigation guidance

Note – Lateral and vertical navigation guidance refers to the guidance provided either by:

i) a ground-based radio navigation aid; or

ii) computer-generated navigation data from ground-based, space-based, self-contained navigation aids or a combination of these.

Instrument approach operations shall be classified based on the designed lowest operating minima below which an approach operation shall only be continued with the required visual reference as follows:

i) Type A: a minimum descent height or decision height at or above 75 m (250 ft); and

ii) Type B: a decision height below 75 m (250 ft). Type B instrument approach operations are categorized as:

a) Category I (CAT I): a decision height not lower than 60 m (200 ft) and with either a visibility not less than 800 m or a runway visual range not less than 550 m;

b) Category II (CAT II): a decision height lower than 60 m (200 ft) but not lower than 30 m (100 ft) and a runway visual range not less than 300 m;

c) Category III (CAT III): a decision height lower than 30 m (100 ft) or no decision height and a runway visual range less than 300 m or no runway visual range limitations.

4.3 Decision Altitude/Height: A specified altitude or height in a 3D instrument approach operation at which a missed approach must be initiated if the required visual reference to continue the approach has not been established.
Note: Decision altitude (DA) is referenced to mean sea level and decision height (DH) is referenced to the threshold elevation.
4.4 ILS Critical Area: An area of defined dimensions about the localizer and glide path antennas where aircraft and vehicles are excluded during all ILS operations. The critical area is protected because the presence of vehicles / or aircraft inside its boundaries will cause unacceptable disturbance to the ILS signal-in-space.
4.5 ILS Sensitive Area: An area extending beyond the ILS critical area where the parking and/or movement of vehicles, including aircraft, are controlled to prevent the possibility of unacceptable interference to the ILS signal during ILS operations. The sensitive area is protected to provide protection against interferences cause by large moving objects outside the critical area but still normally within the airfield boundary.
4.6 Low Visibility Procedures: Specific procedures applied at an aerodrome for the purpose of ensuring safe operations during Categories II/ III approaches and/or low visibility take-offs.
Note: As per para 5.3 of CAR on All Weather Operations, an operator shall not conduct Take-off with RVR/Visibility less than standard CAT-I conditions of 550m RVR/800m Visibility unless low visibility procedures are enforced.
4.7 Low Visibility Take-Off (LVTO): A term used in relation to flight operations referring to a take-off on a Runway where the RVR is less than 400m.
4.8 Manoeuvring Area: That part of an aerodrome to be used for the take-off, landing and taxiing of aircraft, excluding aprons.
4.9 Movement Area: That part of an aerodrome to be used for the take-off, landing and taxiing of aircraft, consisting of the manoeuvring area and the apron(s).
4.10 Runway Visual Range: The range over which the pilot of an aircraft on the centre line of a runway can see the runway surface markings or the lights delineating the runway or identifying its centre line.
4.11 Visibility (Doc 9365): Visibility for aeronautical purposes is the greater of:
i) the greatest distance at which a black object of suitable dimensions, situated near the ground, can be seen and recognized when observed against a bright background;
ii) the greatest distance at which lights in the vicinity of 1000 candelas can be seen and identified against an unlit background.
Note 1: The two distances have different values in air of a given extinction coefficient, and the latter ii) varies with the background illumination. The former i) is represented by the meteorological optical range (MOR).
Note 2: The definition applies to the observations of visibility in local routine and special reports, to the observations of prevailing and minimum visibility reported in METAR and SPECI and to the observations of ground visibility.

5. ABBREVIATIONS

5.1The abbreviations used in descriptions of Low Visibility Procedures have the following meanings:
ARFF: AIRCRAFT RESCUE & FIRE FIGHTING
AGL: AERONAUTICAL GROUND LIGHT
AOM: AERODROME OPERATING MINIMA
ATC: AIR TRAFFIC CONTROL
ATIS: AUTOMATIC TERMINAL INFORMATION SERVICE
CFT: CRASH FIRE TENDER
DG: DIESEL GENERATING SET
GP: GLIDE PATH
ILS: INSTRUMENT LANDING SYSTEM
IHP: INTERMEDIATE HOLDING POSITION
LOC: LOCALIZER
LSA: LOCALIZER SENSITIVE AREA
LVP: LOW VISIBILITY PROCEDURE
MID: MID POINT
MET: METEOROLOGY
NAV: NAVIGATIONAL
RVR: RUNWAY VISUAL RANGE
SMC: SURFACE MOVEMENT CONTROL
SP: SAFEGUARDING PROCEDURES
SSO: SHIFT SUPERVISORY OFFICER
TDZ: TOUCHDOWN ZONE
TSO: TOWER SUPERVISORY OFFICER
WSO: WATCH SUPERVISORY OFFICER

6. GENERAL

6.1 The Low Visibility Procedure (LVP) incorporates safeguarding measures to mitigate runway incursions and defines operational restrictions to ensure safe Airside Operations taking into account the available Aerodrome facilities.

7. MINIMUM REQUIREMENTS:

7.1 The following Aeronautical Ground lights and RVR equipment shall be serviceable to the required standard to support Low Visibility Procedures.

i) Runway edge lights,

ii) Runway end lights,

iii) Instrumented RVR at the beginning (TDZ RVR).

iv) Stand by Power supply to maintain switch over time of 1 Second for Runway Edge Lights and Runway End Lights. This requirement can be met with the help of DG Set and/or UPS.

7.2 Unserviceability of Aeronautical Ground Lights/ Equipment before Implementation of LVP

Low Visibility Procedures will not be implemented when any of the light/equipment mentioned in para 7.1 above is un-serviceable or is not maintained as per the required standard.

Aeronautical Ground Lighting Facility	Un-serviceability	Restrictions
Runway Edge lights	More than 15% of all lights are unserviceable	LVP operations will be suspended.
	Any two consecutive lights or more are unserviceable	
Runway End lights	More than 15% of all lights are unserviceable	LVP operations will be suspended
	Any two consecutive lights or more are unserviceable	
Standby Generators/UPS	Any of the generator/UPS is unserviceable	LVP operations will be suspended.
RVR system	RVR system unserviceable	LVP operations will be suspended.

7.3 Unserviceability of Aeronautical Ground Lights / Equipment after Implementation of LVP:
When any of the light/equipment mentioned in para 7.1 above becomes un-serviceable or fails to meet the required standard during periods of LVP, TWR shall advise the aircraft accordingly and LVP shall be suspended and information to this effect shall be included in ATIS broadcast.

8.SAFEGUARDING PROCEDURES

8.1 Safeguarding Procedures (SP) are instructions for relevant airport departments to prepare ground services and facilities for low visibility operations in order that when LVP are implemented all safeguarding procedures are complete. WSO/Duty Officer Tower will initiate and co-coordinate with all the concerned agencies for completion of safeguarding procedures before implementation of Low Visibility Procedures.

8.2 Safeguarding Procedures shall be initiated when:

i) The Visibility/RVR is less than 1200m and visibility/RVR is forecast to deteriorate to 800 m or less; and/or

ii) The cloud ceiling is less than 400ft and forecast to fall to 200ft or less.

8.3 Whenever meteorological conditions stipulated in para 8.2 prevails or anticipated WSO/Duty Officer Tower shall coordinate with Airport Rescue Fire Station (ARFS) for implementing the Safeguarding Procedures (SP). WSO/Duty Officer Tower shall also coordinate with following agencies for initiation of implementation/ cancellation/completion of SP as appropriate.

8.3.1 Coordination responsibilities are divided as follows:

i) ATC will inform:

a) Airport Rescue Fire Station (ARFS)

b) CNS/Equipment Room

c) Duty MET Officer

d) Airside Operations/Management (ASM)

ii) Airside Operations (ASM) will inform:

a) Concerned Airlines

b) Terminal Manager

c) Electrical Engineering/Powerhouse

d) M. T. Section

e) Civil Engineering

f) CISF

g) BPCL

8.4 The ASM will inform the above-listed agencies (Airlines, BPCL, Electrical, Civil, M.T., T.M. and CISF) and, upon confirmation of the implementation of safeguarding procedures, will confirm it to ATC.

8.5 When all the concerned agencies have completed their necessary actions, they shall report to WSO/Duty Officer Tower that their Safeguarding Procedure (SP) is completed and the airport is safeguarded for LVP operations.

8.6 Actions to be taken by Various Agencies:

8.6.1 Before commencement of winter season, a meeting will be held by Airport Director in the month of October every year to inform all airlines and agencies operating at airport about their roles/ responsibilities and create awareness to ensure cooperation for safe airport operations during periods of low visibility.

8.6.2 A refresher program for ATCO's and personnel responsible for airside operations should be conducted every year.

8.6.3 All the agencies shall ensure that staff and drivers are suitably trained during Low visibility procedure operations.

8.7 WSO/Duty Officer Tower shall ensure that the provision mentioned in para 8.7 are complied in respect of SP and proper log entry shall be made in respect of initiation of implementation/ cancellation/completion of SP as appropriate.

8.8 Safeguarding procedures include:

i) Positioning of CFTs at the predetermined position [PDP].

ii) Stopping of all maintenance works on the manoeuvring area as well as removal of all men and mobile equipment from the said area.

iii) Ensuring availability of secondary power supply for change over time of maximum one second for RWY Edge and RWY End lights supported by UPS.

RWY Edge and RWY End lights may continue to operate on main power supply during safeguarding Procedures. Whenever, LVP is to be implemented as per para 9 below, the RWY Edge and RWY End lights shall be put on Standby Power Supply (DG set or UPS). This operation needs to be completed before LVP is implemented.

As UPS is available at Bhavnagar Airport and is capable of maintaining the required AGL system (refer table under para 7.2) with one second of Switch Over time with Main Supply, the main supply can continue to be primary supply and the Generator Supply can be kept as Standby Power supply. In case of UPS is unserviceable, Generator supply will become primary source of power supply and Main power supply shall act as standby power supply.

iv) Ensuring that Runways, Taxiways and other associated facilities such as Markings, Aeronautical Ground Lights are inspected within one hour preceding the implementation of LVP Operations. This is done to ensure that the lighting systems and markings are serviceable as described. Thereafter, Inspections should be done every two hours while LVP is in progress. These lighting inspections should be accorded priority and, if necessary, aircraft operations may be delayed.
v) Ensure all access roads are closed.

9. LOW VISIBILITY PROCEDURES-TAKE OFF

Implementation of Low Visibility Take off Procedures:
MET officer shall inform WSO/Duty Officer Tower controller whenever Visibility/RVR reduces to 800 Meters or below and/ or cloud ceiling is at 200 ft or below. WSO/Duty officer Tower controller shall coordinate with all the agencies (as mentioned in 8.3.2 above) to confirm whether the Safeguarding procedures have been completed or not. When Visibility/ RVR falls below 800M/550M and or Cloud Ceiling is 200 ft or below and safeguarding procedures are complete (as mentioned in 8.4 and 8.5) WSO/Duty Officer Tower will implement Low Visibility Procedures. WSO/Duty Officer Tower shall inform all users of the imposition of low visibility take off procedures (as stipulated in 8.3.1 above).
9.1 A take-off alternate aerodrome shall be selected and specified in the operational flight plan if either the meteorological conditions at the aerodrome of departure are below the operator's established aerodrome landing minima for that operation or if it would not be possible to return to the aerodrome of departure for other reasons.
9.2 Take-off minima established by the operator must be expressed as visibility or RVR limits, considering all relevant factors for each aerodrome planned to be used and the aeroplane characteristics.
9.3 RVR/Visibility for Take-off (Commercial Transport Aeroplanes) is as per Table, below:

Take-off RVR/Visibility	
Take-off RVR/Visibility	RVR/VIS[1] CAT A, B, C & D
Adequate Visual reference[2] (Day only)	500 m
Runway edge lights or Runway Centre line markings[3]	400m
Runway edge lights and Runway Centre line markings[3]	300m
Runway edge lights and Runway Centre line lights	200m
Runway edge lights and Runway Centre line lights and relevant RVR information[4]	150m
High intensity Runway edge lights and Runway Centre line lights (spacing 15 m or less) and relevant RVR information[4]	125m
High intensity Runway edge lights and Runway Centre line lights (spacing 15 m or less), approved lateral guidance system and relevant RVR information[4]	75m

Note 1 – The TDZ RVR/VIS may be assessed by the pilot subject to Pilot fulfilling conditions of para 14,15 & 16 of DGCA CAR Section 8 Series C Part –I Annexure 2.

Note-1a: Pilot assessment of TDZ RVR is to be made only when the MID & ROLL OUT zone RVR are reported and both these are not less than 200 m. (DGCA CAR Section 8 Series C Part –I Annexure 2 Para 17)

Note1b: An operator shall not conduct take-off with RVR/visibility less than standard Category I conditions of 550m RVR/ 800 m visibility unless low visibility procedures are enforced. (DGCA CAR Section 8 Series C Part –I Para 5.3)

Note1c: Below 200 m all three RVR are required. The governing RVR shall be the lowest of the reported RVRs. (DGCA CAR Section 8 Series C Part –I Table 10: RVR/Visibility for take-off).

Note 2 - Adequate Visual reference means, that a pilot is able to continuously identify the take-off surface and maintain directional control.

Note 3 - For night operations at least runway edge lights or centre line lights and runway end lights are available.

Note-4: The required RVR must be achieved for all relevant RVR reporting points (touchdown, mid-point and stop-end/ rollout). The governing RVR shall be the lowest of the reported RVRs.

Note-5: An operator shall not conduct low visibility take-offs in less than 400m RVR unless approved by DGCA.

10.ACTIONS BY VARIOUS UNITS DURING LVP

10.1 Actions by ATC:

i) Inform CNS, Aircraft Rescue & Fire Fighting Services, Airside operations, MET, etc.
ii) Only one aircraft shall be permitted at a time on the maneuvering area during the time LVP is in force.
iii) Towing of aircraft during LVP will be permitted only in case of extreme operational requirement. TWR shall ensure that the towing of aircraft is done under escort of “Follow Me” vehicles. “Follow Me” shall follow the route cleared by ATC.
iv) TWR shall not permit any ground run on the manoeuvring area except idle power run on the stands;
v) TWR shall ensure that “Follow Me” services are provided to pilots on request;
vi) The number of the vehicles on the manoeuvring area shall be restricted to bare minimum and records of all vehicles operating on the manoeuvring area shall be maintained and all vehicles operating on the manoeuvring area shall be in two-way contact with Aerodrome Control Tower.
vii) The following may be included in ATIS: “LOW VISIBILITY PROCEDURES IN FORCE”.
viii)TWR shall permit departures only from the beginning of the Runway in use.
ix) Whenever visibility/RVR is less than 800M/550M, Duty officer tower shall confirm from pilot that the reported RVR value is within minima before issuing take-off clearance.
x) Duty Officer Tower shall stop all flight operations whenever RVR falls below 350 M.
xi) Runway inspection should be done when interval between two aircraft movements is 30 minutes or more.
xii) The bird sarers deployed in the operational area shall be specifically instructed not to come near the Runway/Taxiway.
xiii) Inform changes in RVR readings to the departing aircraft as required.
xiv) Inform pilots of all failures of ILS, lighting system etc. relevant to Low Visibility Operations.
xv) Initiate emergency action if aircraft on CAT I ILS is not in radio contact, as expected.
xvi) Duty officer tower shall take the Take – off Alternate from pilot before issuing take-off clearance.

10.2 Actions by CNS In-charge/ Duty Officer, NAV AIDS:

i) On receipt of “Initiating SP” from ATC, CNS In-charge will inform the Duty Officer, NAV AIDS and have the ILS equipment and its status indicators in ATC units checked up. He will inform ATC of any unserviceability in the equipment which is likely to affect ILS CAT I operation.
ii)On receipt of “Initiating LVP” from ATC that LVP are to be made effective CNS In-charge will maintain continuous watch on the performance of ILS equipment and will inform ATC of any un-serviceability which may affect ILS CAT I operation.

10.3Actions by Duty Manager, Airside operations:

Duty officer shall ensure that:
i)No vehicle/person enters or is present in the sensitive/critical areas of localizer and glide path.
ii)Inform CISF, Airlines, T.M., M.T., Electrical, Civil & BPCL, etc.
iii)All civil/electrical works in progress are to be stopped in the manoeuvring area immediately and men/material/ equipment to be removed from the sensitive/critical areas of localizer and glide path.
iv)Where low visibility procedures are in effect, persons and vehicles operating on an apron shall be restricted to the essential minimum.
NOTE:After ensuring above, Follow-me vehicles/operational vehicles will confirm the same to the ATC.
Subsequently, follow-me vehicle/ operational vehicles shall remain available and will maintain listening watch on Walkie-Talkie.

Any information about unserviceability of any of the Runway visual aids or power supply system will be immediately informed to ATC Tower accordingly.
No vehicles shall enter/cross in the vicinity of Runway without permission from ATC Control Tower. Such vehicles shall be able to communicate with ATC.
The vehicles of the ARFF services, civil, electrical division or of any other agency which are not equipped with RT but has to enter the Runway or taxiway for urgent operational requirement shall be escorted by the follow me jeep all the time.
10.4 Action by Civil Incharge:
i) Shift Manager (Civil) to ensure that all civil works in progress in manoeuvring area, are stopped and that the work area is restored in complete serviceable condition and confirm to WSO/Duty Officer ATC (Through ASM) accordingly.
ii) Shift Manager, Civil shall ensure closure of roads leading to critical/sensitive area by chains.
iii) During CAT I operations, ATC may authorize operations of vehicles Specially trained about
iv) Critical and sensitive area, on manoeuvring area, including the crossing of taxiways. Ensure that Runways, Taxiways and other associated facilities such as Markings, Lights are inspected every 2 hours while LVP is in progress.
10.5 Action by Electrical Incharge:
i) On receipt of advice to implement Low Visibility Procedures from ATC, Shift Manager (Electrical) will check that following visual aids are serviceable and can be operated at full intensity:
a) Approach lighting system
b) Approach supplementary lighting
c) Runway edge lights
d) Runway threshold and end lights
NOTE 1: The Electrical Department Personnel shall be present in Control Tower during periods of reduced visibility and ensure that the ALCMS display(s) in the Control Tower are serviceable.
NOTE 2: No adjustment in light intensity shall be made without permission from ATC Tower during LVP.
ii) They shall ensure that no electrical maintenance works is carried out during LVP either in powerhouse or on any other electrical facilities used during CAT I operations.
iii) They will inform the un-serviceability or any change in status of any facility/systems to ATC & Airside Ops Manager immediately.

10.6 Actions by ARFF:

i) Positioning of crash fire tenders on pre-determined position (PDP).
ii) ARFF/ CFTs must obtain clearances from ATC prior to entry to any aircraft movement area other than the designated service roads.

10.7 Actions by CISF:

i) The officer in charge on duty shall ensure by deploying adequate manpower that vital electrical installations are properly secured and protected against any unauthorized intrusion.
ii) The Officer in charge, on receipt of advice to implement Low Visibility Procedures, will immediately inform all access gates and CISF posts under their respective controls in operational area to restrict movement of vehicles under their control.

10.8 Actions by Duty Officer (Meteorological Office):

i) Duty Meteorological Officer would issue an 'Outlook for Low Visibility Procedures' to the ATC whenever he expects that the RVR and/or cloud ceiling will fall below 800 m and/or 400ft or less respectively.
ii) Whenever Duty Meteorological Officer visualizes that RVR is likely to fall below 800 m and/or cloud ceiling to 200ft or less within next 2 hours, he will issue an 'Advisory Message' to ATC to this effect.
iii) When the RVR and/or cloud ceiling are 800m and/or 200ft respectively and the trend is towards improvement in these elements of weather conditions the Duty Met Officer may, when requested by ATC, advise him about such improving weather conditions for the purpose of termination of LVP.
iv) The Duty Met Officer shall be present in Control Tower during periods of reduced visibility and ensure that the RVR displays in the Control Tower is serviceable.
v) In case, Instrumented RVR is not available, real time RVR shall be provided, whenever requested.

11. TERMINATION OF LOW VISIBILITY TAKE OFF PROCEDURES

11.1 When Visibility/RVR improves to 800M/550 M or more and cloud ceiling is 200 feet or higher and trend is for improvement, WSO/Duty Officer Tower would terminate operations of LVP-Take Off. He may obtain advice from Duty Met. Officer regarding improvement in weather conditions before the termination of LVP.
i) The WSO/Duty Officer Tower will intimate the following regarding termination of operations:
a) ARFF
b) Duty Met Officer
c) CNS/Equipment Room
d) Airside Operations
ii) ASM will intimate all previously notified personnel (undermentioned) to resume normal operations:
a)Terminal Manager
b)Civil & Electrical Engg.
c)Airlines

d)CISF
e)BPCL
11.2 On cancelling of LVP, following message shall be included in two subsequent ATIS broadcasts. “LOW VISIBILITY PROCEDURES CANCELLED”.
11.3 If SP are implemented and LVP are not subsequently implemented and the visibility/RVR improves and is more than 1200 m and/or the cloud ceiling is 400ft or higher and both are forecast to remain above the required SP criteria, WSO/Duty Officer Tower may cancel SP.

12. ACTIONS BY OTHER AGENCIES (AIRLINES, REFUELLING COMPANIES, CATERING AGENCIES, ETC.)

12.1 Every year before commencement of monsoon/winter season, a meeting will be held by Airport Director, to inform all airlines and agencies operating at airport about their roles/responsibilities and create awareness to ensure cooperation for safe airport operations during periods of low visibility.
12.2 All the agencies shall ensure that staff and drivers are suitably trained during Low Visibility Procedure operations.
12.3 All agencies operating in the operational area shall ensure that only those vehicles that are absolutely essential for aircraft operations operate in the operational area during periods of low visibility. The drivers of these vehicles should keep a look out for taxiing aircraft and other vehicles to prevent accidents.
12.4 All the vehicles must have their obstruction lights “ON” during Low Visibility Procedures operations.
12.5 All instructions/sign boards provided for vehicular movement area/service roads must be followed while operating in the operational area

VABV AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VABV AD 2.22 FLIGHT PROCEDURES

NIL

VABV AD 2.23 ADDITIONAL INFORMATION

1.Bird activity in and around airfield. Pilots to exercise caution.

2.Additional caution for hills with respect to ARP Bhavnagar:

i. Hill Top: 994FT 210 DEG 10NM
ii. Hill Top: 541FT 235 DEG 12NM
iii. Hill Top: 610FT 258 DEG 12NM

3. **Exemption Granted by DGCA:**
DGCA India has granted exemption vide letter dated 11.10.2024 for non-compliant width of runway strip for RWY 07/25 against provisions in CAR Section 4 Series B Part I Para 3.4.3 for the period up to 31.07.2026.
4. Local FLY in progress beyond ATC watch in and around VABV by FLY TRG organization.All ACFT transiting through VABV are advised to EXER CTN for TFC and CK TFC PSN. FLY TRG organization [dunes aviation] has been allotted FREQ 131.850MHZ.Contact details of GND is +916353182899.
5. Heavy kite FLY ACT are there in and around APCH specially on APCH RWY 07 BTN months of NOV and FEB every year. PIlots To EXER CTN while LDG and TKOF.
6. Pilot EXER CTN while LDG/TKOF due jackal menace.

VABV AD 2.24 CHARTS RELATED TO AN AERODROME

1 Aerodrome Chart (12 June 2025)

2 Aircraft Parking/Docking Chart (12 June 2025)

3 Aerodrome Obstacle Chart Type A (Operating Limitations) RWY 07(17 April 2025)

4 Aerodrome Obstacle Chart Type A (Operating Limitations) RWY 25(17 April 2025)

5 ILS Procedure RWY 25

6 VOR Procedure RWY 07 (17 APR 2025)

7 Instrument Approach Chart - VOR Procedure RWY 25 (CAT A/B/C) (08 August 2024)

8 RNP Y Procedure RWY 25

9 Coding Table - RNP Y Procedure RWY 25

VABV AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Procedure	Procedure Minima	VSS Penetration
1	2	3

7	Runway Threshold & Threshold Wingbar-05 (Working)	05 Threshold + Wing Bar (1) (Working)	Inset Elevated	6 10
8	Runway Threshold & Threshold Wingbar-05 (Standby)	05 Threshold + Wing Bar (2) (Standby)	Inset Elevated	6 10
9	Runway Centreline Light Circuit (Active, Interleaving)	Runway Centre line Light (1A) Interleaved Circuit	Inset	101
10		Runway Centre line Light (1B) Interleaved Circuit	Inset	101
11	Runway Edge Light + End + New turn pad (Working)	Runway Edge Light Circuit-1	Inset Elevate	10 96
		Runway End Light	Elevated	12
		Turn pad edge light (A)	Elevated	4
		Runway Designation Sign Board	LED	2
		Turning Pad Edge	Elevated	11
12	Runway Edge Light + End + new turn pad (Standby)	Runway Edge Light Circuit-2	Inset Elevated	13 95
		Runway End Light	Elevated	12
		Turn pad edge light (A)	Elevated	4
		Runway Designation Sign Board	LED	2
		Turning Pad Edge	Elevated	10
13	PAPI-23 (Two Interleaving Circuits)	23 PAPI (1A) (Interleaved Circuit)	Elevated	6
14		23 PAPI (1B) (Interleaved Circuit)	Elevated	6
15	PAPI-05 (Two Interleaving Circuits)	05 PAPI (1A) (Interleaved Circuit)	Elevated	6
16		05 PAPI (1B) (Interleaved Circuit)	Elevated	6
17	Turning Pad Centreline - 1 (Working)	Turning Pad Centreline (1) (Working)	Inset	47
18	Turning Pad Centreline - 2 (Standby)	Turning Pad Centreline (2) (Standby)	Inset	47
19	STOP BAR Taxi-A1 (Two Interleaving Circuits)	Stop Bar A1 (1A) Interleaved Circuit	Inset	6
20		Stop Bar A1 (1B) Interleaved Circuit	Inset	5
21	STOP BAR Taxi-A2 (Two Interleaving Circuits	Stop Bar A2 (1A) Interleaved Circuit	Inset	6
22		Stop Bar A2 (1B) Interleaved Circuit	Inset	5
23	STOP BAR Taxi-A3 (Two Interleaving Circuits)	Stop Bar A3 (1A) Interleaved Circuit	Inset	6
24		Stop Bar A3 (1B) Interleaved Circuit	Inset	5
25	STOP BAR Taxi C (Two Interleaving Circuits)	Stop Bar C (1A) Interleaved Circuit	Inset	5
26		Stop Bar C (1B) Interleaved Circuit	Inset	4
27	Runway Guard Light	Runway Guard Light (Working)	Elevated	8
28	Intermediate Holding Position (Taxiway A, B1, B2)	IHP Light (PTT) (Working	Inset	15

29	Taxiway-A1, A2, A3, A, B1 & B2 (Active, Interleaving)	Taxiway Edge Light (A/A1/A2/A3/ B1/B2) + Guidance Sign (1A) Interleaved Circuit	Elevated LED Signboard	110 41
30		Taxiway Edge Light (A/A1/A2/A3/ B1/B2) + Guidance Sign (1B) Interleaved Circuit	Elevated LED Signboard	113 41
31	Taxiway-C (Active, Interleaving	Taxiway Edge Light (C) + Guidance Sign (1A) Interleaved Circuit	Elevated LED Signboard	24 6
32		Taxiway Edge Light (C) + Guidance Sign (1B) Interleaved Circuit	Elevated LED Signboard	23 6
33	DTGM	Distance To Go Markers (Double Sided) 1-9	LED	9
	DTGM	Distance To Go Markers (Double Sided) 0/10	LED	2

VAHS AD 2.23 ADDITIONAL INFORMATION

NIL

VAHS AD 2.24 CHARTS RELATED TO AN AERODROME

1. Aerodrome Chart
2. Aircraft Parking/Docking Chart (11 JUNE 2026)
3. Aerodrome Obstacle Chart Type A (Operating Limitations) RWY 05
4. Aerodrome Obstacle Chart Type A (Operating Limitations) RWY 23
5. Aerodrome Obstacle Chart Type B
6. Instrument Approach Chart - ILS or LOC Z Procedure RWY 23 (CAT A/B/C) (13 June 2024)
7. Instrument Approach Chart - ILS or LOC Y Procedure RWY 23 (CAT A/B/C) (13 June 2024)
8. Instrument Approach Chart - RNP Procedure RWY 23 (CAT A/B/C) (08 August 2024)
9. Tabular Description - RNP Procedure RWY 23 (CAT A/B/C) (08 August 2024)
10. Instrument Approach Chart - RNP Y Procedure RWY 05 (17 April 2025)
11. Tabular Description - RNP Y Procedure RWY 05 (17 April 2025)

VAHS AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Procedure	Procedure Minima	VSS Penetration
1	**2**	**3**

AIRCRAFT PARKING/ DOCKING CHART

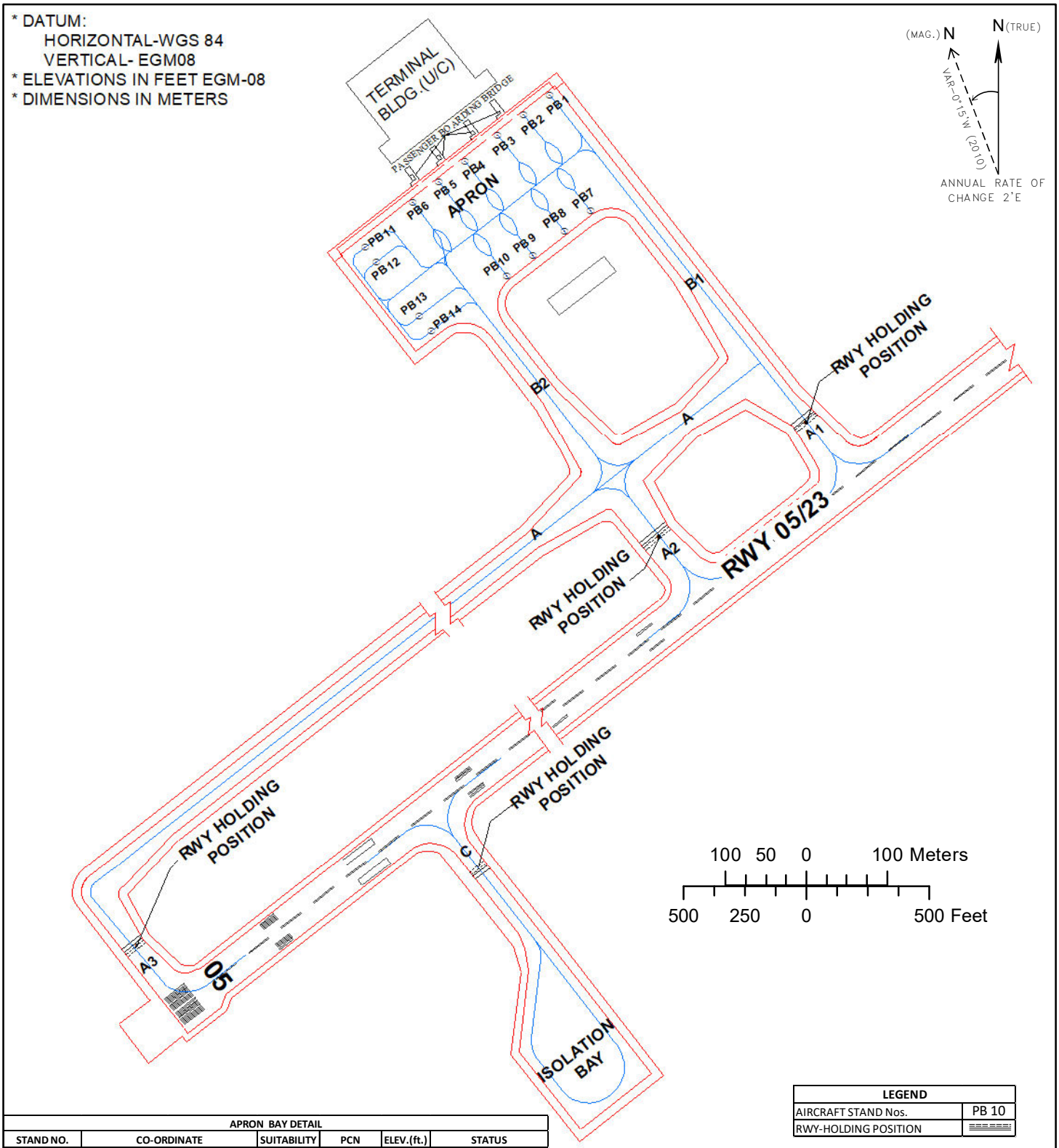
APRON ELEV 614ft.

TWR MAIN- 120.025
BACKUP- 120.275

RAJKOT, INDIA

RAJKOT INT'L AIRPORT

* DATUM:
  HORIZONTAL-WGS 84
  VERTICAL- EGM08
* ELEVATIONS IN FEET EGM-08
* DIMENSIONS IN METERS



LEGEND	
AIRCRAFT STAND Nos.	PB 10
RWY-HOLDING POSITION	

APRON BAY DETAIL

STAND NO.	CO-ORDINATE		SUITABILITY	PCN	ELEV.(ft.)	STATUS
PB-01	22° 22' 52.950" N	071° 02' 01.423" E	A321	99/R/B/W/T	614	POWER IN PUSH BACK
PB-02	22° 22' 52.074" N	071° 02' 00.366" E	A321	99/R/B/W/T	613	POWER IN PUSH BACK
PB-03	22° 22' 51.194" N	071° 01' 59.312" E	A321	99/R/B/W/T	613	POWER IN PUSH BACK
PB-04	22° 22' 50.082" N	071° 01' 57.979" E	A321	99/R/B/W/T	612	POWER IN PUSH BACK
PB-05	22° 22' 49.202" N	071° 01' 56.926" E	A321	99/R/B/W/T	612	POWER IN PUSH BACK
PB-06	22° 22' 48.322" N	071° 01' 55.872" E	A321	99/R/B/W/T	612	POWER IN PUSH BACK
PB-07	22° 22' 48.464" N	071° 02' 03.473" E	A320	99/R/B/W/T	613	POWER IN PUSH BACK
PB-08	22° 22' 47.585" N	071° 02' 02.420" E	A320	99/R/B/W/T	612	POWER IN PUSH BACK
PB-09	22° 22' 46.532" N	071° 02' 01.157" E	A320	99/R/B/W/T	612	POWER IN PUSH BACK
PB-10	22° 22' 45.653" N	071° 02' 00.102" E	A320	99/R/B/W/T	611	POWER IN PUSH BACK
PB-11	22° 22' 46.430" N	071° 01' 53.996" E	CH605	99/R/B/W/T	611	POWER IN POWER OUT
PB-12	22° 22' 45.883" N	071° 01' 54.524" E	CH605	99/R/B/W/T	611	POWER IN POWER OUT
PB-13	22° 22' 43.829" N	071° 01' 56.505" E	CH605	99/R/B/W/T	611	POWER IN POWER OUT
PB-14	22° 22' 43.283" N	071° 01' 57.033" E	CH605	99/R/B/W/T	610	POWER IN POWER OUT

TAXIWAY DETAIL

TWY NAME	PCN	WIDTH
A	PCN 99/R/B/W/T	23M
A1	PCN 99/R/B/W/T	23M
A2	PCN 99/R/B/W/T	23M
A3	PCN 99/R/B/W/T	23M
B1	PCN 99/R/B/W/T	23M
B2	PCN 99/R/B/W/T	23M
C	PCN 90/R/B/W/T	23M

DATE OF AERONAUTICAL INFORMATION
APRIL 2023.

DRG NO. AAI/36-PDC/2022
(UPDATED-20/04/2026)

VAJB AD 2.20 LOCAL AERODROME REGULATIONS

1. PUSHBACK AND TAXI PROCEDURES: New Apron

a) STAND NUMBER 1 TO 3

- Arriving aircraft shall vacate the runway via TWY A and turn right for powered in taxi to stand number 1 to 3.
- Aircraft parked at Stand 2 and 3 shall pushback facing WEST and pull forward the aircraft behind Stand number 3 for Startup or as instructed by ATC.
- Aircraft parked at stand number 1 shall make deep pushback on extended portion of apron and then shall pull forward facing WEST behind stand number 3 for Startup, or as instructed by ATC.
- Simultaneous pushback from stands 1 to 3 not permitted.
- Startup will be approved only when the aircraft has reached behind Stand number 3 after pushback. Startup while pushing back not allowed.

b) STAND NUMBER 4 TO 8)

- Arriving aircraft shall vacate the runway via TWY A and turn left for powered in taxi to stands 4 to 8 and for taxi out aircraft will power taxi out and turn right for Taxiway A and further for RWY 06-24, or as instructed by ATC.
- When an aircraft is parked on Stand number 4, the other aircraft cannot taxi in to Stand number 5 to 8.
- Stand number 4 and 5 cannot be used simultaneously.
- If Stand number 6 and 7 are occupied, then aircraft on Stand number 4 cannot taxi out until Stand number 6 and 7 are vacant.

2. Take off Run Available for Departures from Intermediate Runway Position:

i) RWY 06:

a) From TWY A - 1088 M

b) From TWY C - 960M

ii) RWY 24:

a) From TWY A - 1662 M

b) From TWY C - 1790 M

iii) RWY 24:

a) From intermediate turn pad - 1988 M

3. Departures on RWY 24 from intermediate turn pad can be initiated by ATC with concurrence of pilot or as per request from pilots.

4. Aircraft landing on RWY 06 can use intermediate turn pad for making 180 degree turn for runway vacation. Critical aircraft A320.

5. No Aircraft shall take lock turn/ pivotal turn on the Runway to avoid pavement damage.

6.All ACFT after LDG RWY 24 and RWY 06 shall make 180 DEG turn using turn pad at the end of RWY for backtrack.

VAJB AD 2.21 NOISE ABATEMENT PROCEDURES

VAJB AD 2.22 FLIGHT PROCEDURES

VAJB AD 2.23 ADDITIONAL INFORMATION

VAJB AD 2.24 CHARTS RELATED TO AN AERODROME

1 Aerodrome Chart (19 March 2026)
2 Aircraft Parking/Docking Chart (19 March 2026)
3 Aerodrome Obstacle Chart Type A (Operating Limitations) RWY 06/24
4 Instrument Approach Chart - ILS or LOC RWY 24 (CAT A/B/C) (17 April 2025)
5 Instrument Approach Chart - VOR Procedure RWY 06 (17 April 2025)
6 Instrument Approach Chart - VOR Procedure RWY 24 (CAT A/B/C) (17 April 2025)
7 Instrument Approach Chart - RNP Y Procedure RWY 06 (17 April 2025)
8 Coding Table - RNP Y Procedure RWY 06
9 Instrument Approach Chart - RNP Z Procedure RWY 06 (17 April 2025)
10 Coding Table - RNP Z Procedure RWY 06 (11 JUNE 2026)
11 Coding Table - RNP Z Procedure RWY 06 (17 April 2025)

VAJB AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Procedure	Procedure Minima	VSS Penetration
1	**2**	**3**

INSTRUMENT APPROACH CHART | **AERODROME ELEV 1626 ft** **HEIGHTS RELATED TO** **THR RWY 06 ELEV 1575 ft** | **JABALPUR (VAJB)** INDIA **RNP Z RWY 06 (CAT A/B/C) (LPV Only)**

TABULAR DESCRIPTION- RNP Z RWY 06 (CAT A/B/C) (LPV Only)-VAJB

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Distance NM	Turn Direction	Altitude (FT)	Speed Limit (Kt)	VPA/ TCH °/ Ft	Navigation Specification
10	IF	JB411	-	-	-	-	+3700.00	-210.00	-	RNP APCH
20	TF	JB410	-	148.96°M (148.60°T)	5.00	L	+3700.00	-	-	RNP APCH
10	IF	JB412	-	-	-	-	+3700.00	-210.00	-	RNP APCH
20	TF	JB410	-	58.94°M (58.58°T)	5.00	-	+3700.00	-	-	RNP APCH
10	IF	JB413	-	-	-	-	+3700.00	-210.00	-	RNP APCH
20	TF	JB410	-	328.99°M (328.63°T)	5.00	R	+3700.00	-	-	RNP APCH
10	IF	JB410	-	-	-	-	+3700.00	-	-	RNP APCH
20	TF	JB409	-	58.98°M (58.62°T)	5.00	-	@3700.00	-	-	RNP APCH
30	TF	RW06	Y	59.00°M (58.64°T)	6.52	-	@1624.80	-	-3.00/ 50	RNP APCH
40	CF	JB414	Y	59.04°M (58.68°T)	-	-	-	-210.00	-	RNP APCH
50	DF	JB413	-	-	-	R	+3700.00	-210.00	-	RNP APCH
60	HM	JB413	Y	329.00°M (328.64°T)	1.00 min	R	+3700.00	-230.00	-	RNP APCH
10	HM	JB410	Y	58.94°M (58.58°T)	1.00 min	L	+3700.00	-230.00	-	RNP APCH

WAYPOINT LIST

RNP Z RWY 06 (CAT A/B/C) (LPV Only)-VAJB	
WAYPOINT IDENTIFIER	**COORDINATES**
JB410	N 23:04:22.48 E 079:51:57.07
JB409	N 23:06:59.17 E 079:56:34.89
RW06	N 23:10:23.20 E 080:02:37.26
JB411	N 23:08:39.42 E 079:49:07.55
JB412	N 23:01:45.65 E 079:47:19.44
JB414	N 23:12:59.59 E 080:07:15.49
JB413	N 23:00:05.48 E 079:54:46.41

AD 2. AERODROMES

VAKP AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VAKP - KOLHAPUR AIRPORT, KOLHAPUR

VAKP AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	Aerodrome reference point coordinates and its site	163959N 0741726E Mag Brg 264.64 DEG from physical extremity of RWY 25	
2	Direction and distance of aerodrome reference point from the center of the city or town which the aerodrome serves	180 DEG / 09KM from Kolhapur city	
3	Aerodrome elevation and reference temperature	2001 FT / 37.0 DEG C	
4	Magnetic variation, date of information and annual change	1.25 DEG W (2010) /0.033 DEG E	
5	Name of aerodrome operator, address, telephone, telefax, e-mail address, AFS address, website (if available)	Airports Authority of India, Kolhapur Airport, Ujalaiwadi, Kolhapur, Maharashtra (India), PIN-416004.,	
		Telephone:	(91) 231 2677701
		Fax:	(91) 231 2677355
		AFS:	VAKPYDYX
		Email:	apdkolhapur@aai.aero
6	Types of traffic permitted (IFR/VFR)	IFR/VFR	
7	Remarks	1. Elevations in EGM08 2. AD is licensed for use in IFR (All Weather operations.)	

VAKP AD 2.3 OPERATIONAL HOURS

1	Aerodrome Operator	MON - FRI: 0400-1230 (0930-1800 IST) SAT, SUN+ HOL : Nil
2	Custom and immigration	NIL
3	Health and sanitation	NIL
4	AIS briefing office	NIL
5	ATS reporting office (ARO)	As per ATS
6	MET Briefing office	As per ATS
7	Air Traffic Service	Refer NOTAM for Current Watch Hours
8	Fuelling	Available
9	Handling	NIL
10	Security	Maharashtra State Police/MSSC
11	De-icing	Not Applicable
12	Remarks	The ATS approved hourly RWY traffic handling capacity is as follows: Maximum number of ARR and DEP -12 (The minimum spacing Between two successive ARR shall be more than five minutes) Maximum number of ARR only – 6 Maximum number of DEP only – 10

VAKP AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	NIL
2	Fuel and Oil types	JET A1

3	Fuelling facilities and capacity	Available on prior coordination with oil companies
4	De-icing facilities	NIL
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	NIL
7	Remarks	NIL

VAKP AD 2.5 PASSENGER FACILITIES

1	Hotel(s) at or in the vicinity of aerodrome	In the city
2	Restaurant(s) at or in the vicinity of aerodrome	In the city
3	Transportation possibilities	In the city
4	Medical Facilities	First Aid at AD. Hospitals in city.
5	Bank and post office at or in the vicinity of aerodrome	Banks: In the city Post office: In the city
6	Tourist office	In the city
7	Remarks	NIL

VAKP AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	Aerodrome category for fire fighting	Within ATS HR: CAT-5
2	Rescue equipment	Available as per AES Category
3	Capability for removal of disabled aircraft	1.The critical aircraft for the airport is ATR-72 2. Primary responsibility for removal of disabled aircraft rests with the concerned airline. 3. The airlines may contact 'Aerodrome Coordinator for Disabled Aircraft Removal Operations' for coordinating with the agencies having Disabled Aircraft Recovery Kit. 4. Contact Details of Aerodrome Coordinator for Disabled Aircraft Removal Operations: Airport Director Contact number :0231-2677701/2677352 Email-apdkolhapur@aai.aero
4	Remarks	NIL

VAKP AD 2.7 SEASONAL AVAILABILITY CLEARING

1	Type(s) of clearing equipment	NIL
2	Clearance priorities	NIL
3	Remarks	NIL

VAKP AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Designation, surface and strength of aprons	Refer Aircraft Parking / Docking Chart
2	Designation, width, surface and strength of taxiways	Refer Aircraft Parking / Docking Chart
3	Location and elevation of altimeter checkpoints	Location Elevation (FT) PB1 2007 PB2 2007 PB3 1992 PB4 1991 PB5 1991
4	Location of VOR checkpoints	NIL

VANP AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	2	3	4
APP	Nagpur Approach	120.400 MHZ	
APP	Nagpur Approach	125.600 MHZ	
TWR	Nagpur Tower	118.100 MHZ	
ATIS	---	128.325 MHZ	
ACC	Nagpur Control Nagpur Radar	123.900 MHZ	
ACC	Nagpur Control Nagpur Radar	133.650 MHZ	
ALRS	Emergency Frequency	121.500 MHZ	
SMC	Nagpur Ground	121.900 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	6	7
	H24	ATS Surveillance Service using ADS-B / or MSSR available between 0030-1700 UTC.
	H24	Backup Frequency
	H24	Standby frequency 121.9MHZ
	H24	Updating & Monitoring
	H24	Sector Nagpur North, Standby Frequency 132.3 MHz
	H24	Sector Nagpur South, Standby Frequency 132.3 MHz
	H24	Monitoring H24
	H24	SMC Combined with Nagpur Tower H24

VANP AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aids, magnetic variation and type of supported operation for ILS/ MLS, basic GNSS, SBAS and GBAS, and for VOR/ILS/MLS station used for technical lineup of the aid	Identification	Frequency(ies), Channel number(s), Service provider, and reference path identifier(s) (RPI), as appropriate	Hours of operation, as appropriate;
1	2	3	4
LOC 32 CAT I	INGR	110.300 MHz	H24
GP 32	INGR	335.000 MHz	H24
DME ILS 32	INGR	CH40X	H24
DVOR/DME	NNP	112.700 MHz CH74X	H24

Geographical coordinates of the position of the transmitting antenna	Elevation of transmitting antenna of DME/ elevation of GBAS reference point	Service volume radius from the GBAS reference point	Remarks
5	6	7	8
210641.2N 0790155.3E			
210514.5N 0790258.6E			3 DEG
210514.7N 0790258.5E	1023 FT		Collocated with GP32
210455.1N 0790322.2E	1033 FT		(I) CONTROLLING AUTHORITY: AIRPORTS AUTHORITY OF INDIA (II) GRAVITY MODEL: EGM-08 (III) DME COLOCATED WITH DVOR

VANP AD 2.20 LOCAL AERODROME REGULATIONS

NIL

VANP AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VANP AD 2.22 FLIGHT PROCEDURES

1. ADS-B based Enroute ATS Surveillance services are provided to suitably equipped aircraft on opportunity basis within the coverage area of Nagpur ADS-B sensors in jurisdiction of Nagpur Area Control.
ADS-B equipped aircraft flying within the jurisdiction of Nagpur Area Control to comply with relevant provisions.

2. MSSR and or ADS-B based ATS Surveillance services are provided to suitably equipped aircraft BTN 0030-1700 UTC within the coverage area of Nagpur Approach Control.
SSR Transponder/ADS-B equipped aircraft flying within Nagpur Approach Control to comply with relevant provisions.
In ADDN the ABV Service may be provided at other times also for ATCO training.

Dimensions of runway end safety areas	Location and description of arresting system (if any)	Existence of an obstacle-free zone	Remarks.
11	**12**	**13**	**14**
90M x 90M	NIL	NIL	NIL
90M x 90M	NIL	NIL	NIL

VASL AD 2.13 DECLARED DISTANCES

RWY Designator	Take-off run available TORA (M)	Take-off distance available TODA (M)	Accelerate distance available ASDA (M)	Landing distance available LDA (M)	Remarks (including runway entry or start point where alternative reduced declared distances have been declared)
1	**2**	**3**	**4**	**5**	**6**
15	1926	1926	1926	2009	--
33	2009	2009	2009	1926	THR displaced by 83M

VASL AD 2.14 APPROACH AND RUNWAY LIGHTING

Runway Designator	Type, length and intensity of approach lighting system	Runway threshold lights, colour and wing bars	Type of visual slope indicator system	Length of runway touchdown zone lights
1	**2**	**3**	**4**	**5**
15	NIL	NIL	PAPI LEFT/3.20 DEG	NIL
33	NIL	NIL	PAPI LEFT/3.22 DEG	NIL

Length, spacing, colour and intensity of runway centre line lights	Length, spacing, colour and intensity of runway edge lights	Colour of runway end lights and wing bars	Length and colour of stopway lights	Remarks
6	**7**	**8**	**9**	**10**
NIL	NIL	NIL	NIL	NIL
NIL	NIL	NIL	NIL	NIL

VASL AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Location, characteristics and hours of operation of aerodrome beacon/identification beacon (if any)	ABN	Available Installed on top of ATC Tower. Green and White flashes
		IBN	Not AVBL
2	Location and lighting (if any) of anemometer/ landing direction indicator;	LDI	Available adjacent to ARP
		Anemometer	Not Available Windsock available near ARP

3	Taxiway edge and taxiway centre line lights;	Edge	Not Available
		Centre Line	Not Available
4	Secondary power supply including switch-over time;	Substation: 2 Nos. DG Set 320 KVA each (01 main and 01 standby) Switch-over time: less than 15 SEC	
5	Remarks	NIL	

VASL AD 2.16 HELICOPTER LANDING AREA

1	Geographical coordinates of the geometric centre of touchdown and lift-off (TLOF) or of each threshold of final approach and take-off (FATO) area	Not Established
2	TLOF and/or FATO area elevation:	Not Established
3	TLOF and FATO area dimensions to the nearest metre or foot, surface type, bearing strength and marking;	Not Established
4	True bearings of FATO;	Not Established
5	Declared distances available	Not Established
6	Approach and FATO lighting;	Not Established
7	Remarks	NIL

VASL AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	CTR: Circular area centered on 173740N 0755603E within a 10NM radius.
2	Vertical limits	FL 55
3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	Solapur TWR, English
5	Transition altitude	5000 FT
6	Hours of applicability	HO
7	Remarks	Beyond operational hours airspace classification is Class G

VASL AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	**2**	**3**	**4**
TWR	Solapur TWR	118.600 MHZ	
TWR	Solapur TWR	124.300 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	**6**	**7**
	HO	Main Frequency
	HO	Backup Frequency

3	Capability for removal of disabled aircraft	1. The Critical Aircraft for the Airport is A321. 2. Primary responsibility for the removal of disabled aircraft rests with the concerned airline. 3. The airlines may contact 'Aerodrome Coordinator for Disabled Aircraft Removal Operations' for coordinating with the agencies having Disabled Aircraft Recovery Kit. 4. Contact Details of Aerodrome Coordinator for Disabled Aircraft Removal Operations: Airport Director, Surat Airport Phone: 9429892020/0261-2700200 Email: apdsurat@aai.aero
4	Remarks	NIL

VASU AD 2.7 SEASONAL AVAILABILITY CLEARING

1	Type(s) of clearing equipment	
2	Clearance priorities	
3	Remarks	All Season

VASU AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Designation, surface and strength of aprons	Refer Aircraft Parking/Docking Chart
2	Designation, width, surface and strength of taxiways	Refer Aircraft Parking/Docking Chart
3	Location and elevation of altimeter checkpoints	Location: All aircraft Stands Elevation: Refer Aircraft Parking/Docking Chart
4	Location of VOR checkpoints	TWY E1: 210733.509N 0724507.889E / ELEV: 22 FT TWY E2: 210713.092N 0724446.969E / ELEV: 17 FT TWY E3: 210707.404N 0724441.579E / ELEV: 17 FT TWY E4: 210648.639N 0724422.943E / ELEV: 17 FT TWY E6: 210624.925N 0724359.782E / ELEV: 18 FT
5	Position of INS checkpoints	

6	Remarks	i. Isolated Aircraft parking Position details: a) Location: NE of THR RWY 04 b) Dimensions: 75MX65M c) Link TWY: TWY D, 70.35M X 23M d) Surface: Concrete e) Strength (PCN): 66/R/A/W/T ii. Coordinates of RWY Holding Positions: a) TWY E1: 210733.374N 0724508.0466E / ELEV: 22 FT b) TWY E2: 210712.841N 0724447.257E / ELEV: 17FT c) TWY E3: 210707.273N 0724441.729E / ELEV: 17FT d) TWY E4: 210648.516N 0724423.105E / ELEV: 17 FT e) TWY E5: 210642.897N 0724417.518E / ELEV: 17 FT f) TWY E6: 210624.765N 0724359.964E / ELEV: 18 FT iii.Coordinates of RWY & TAXI intersection: a) TWY E1: 210731.353N 0724510.350E / ELEV: 25 FT b) TWY E2: 210710.643N 0724449.782E / ELEV: 18 FT c) TWY E3: 210705.073N 0724444.248E / ELEV: 19 FT d) TWY E4: 210646.472N 0724425.770E / ELEV: 18 FT e) TWY E5: 210640.690N 0724420.034E / ELEV: 18 FT f) TWY E6: 210622.743N 0724402.217E / ELEV: 20 FT iv. Gravity Model: EGM-08

VASU AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand identification signs, taxiway guidelines and visual docking/parking guidance system at aircraft stands	Taxiing guidance sign at all the intersections with TWY and RWY and all holding position guidance at apron. Standard Markings at Apron.
2	Runway and taxiway markings and lights	RWY Markings: Edge, Designation, THR, TDZ, Aiming Point, Centreline RWY Lighting: THR, RWY Edge, RWY END. RWY Guard LGT: AVBL at TWY E1, A,B,C,D and E6. TWY Markings: Edge, Centreline, TWY RWY Holding Position, VOR Check location TWY Lighting: Edge
3	Stop bars (if any)	NIL
4	Remarks	NIL

VASU AD 2.10 AERODROME OBSTACLES

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
22/TKOF 04/APCH	OTHER	210618.9N 0724349.9E	40 FT	NO	Mobile Road Traffic (Road Elev. 7.1M + 5M Mobile Traffic)
22/TKOF 04/APCH	OTHER	210621.9N 0724353.9E	41 FT	NO	Mobile Road Traffic (Road Elev. 7.5M + 5M Mobile Traffic)

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
22/TKOF 04/APCH	FENCE	210621.4N 0724353.3E	36 FT	NO	Airport Boundary Wall with Fencing on Top
22/TKOF 04/APCH	OTHER	210621.2N 0724353.5E	40 FT	NO	Mobile Road Traffic (Road Elev. 7.3M + 5M Mobile Traffic)
22/TKOF 04/APCH	OTHER	210620.2N 0724351.6E	40 FT	NO	Mobile Road Traffic (Road Elev. 7.2M + 5M Mobile Traffic)
22/TKOF 04/APCH	POLE	210618.3N 0724349.6E	39 FT	NO	Light Pole
22/TKOF 04/APCH	OTHER	210617.4N 0724356.9E	32 FT	NO	Lightning Arrestor
22/TKOF 04/APCH	OTHER	210616.7N 0724352.0E	39 FT	NO	Mobile Road Traffic (Road Elev. 6.8M + 5M Mobile Traffic)
22/TKOF 04/APCH	TREE	210615.7N 0724348.8E	55 FT	NO	Group of Trees
22/TKOF 04/APCH	TREE	210616.0N 0724348.0E	61 FT	NO	Group of Trees
22/APCH 04/TKOF	OTHER	210739.2N 0724510.8E	40 FT	NO	Mobile Road Traffic (Road Elev. 7.2M + 5M Mobile Traffic)
22/APCH 04/TKOF	POLE	210739.5N 0724511.9E	34 FT	NO	Light Pole
22/APCH 04/TKOF	BUILDING	210803.2N 0724554.3E	135 FT	NO	Star Galaxy Building Top - Block G
22/APCH 04/TKOF	BUILDING	210806.0N 0724602.2E	155 FT	LGTD	Lighted Top on Shrungar Residency (Building Top - 46.6M) - Block J
22/APCH 04/TKOF	BUILDING	210806.7N 0724553.4E	139 FT	NO	Dish on Star Galaxy Building (Building Top - 41.5M) - Block D
22/APCH 04/TKOF	BUILDING	210808.2N 0724559.5E	168 FT	NO	Dish on Aagam Crossroad (Building Top - 50.2M) - Block A
22/APCH 04/TKOF	BUILDING	210809.2N 0724554.7E	147 FT	LGTD	Lighted Top on Horizon Building (Dish Top - 43.6M, Building Top - 42.7M) - Block B
22/APCH 04/TKOF	BUILDING	210809.9N 0724539.0E	161 FT	LGTD	Lighted Top on 7 Heavan Building (Building Top - 47.3M) - Block F
22/APCH 04/TKOF	BUILDING	210810.4N 0724554.5E	146 FT	NO	Pipe on Empire Regency (Dish Top - 44.0M, Building Top - 43.2M) - Block C

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
22/APCH 04/TKOF	BUILDING	210810.4N 0724547.6E	169 FT	LGTD	Lighted Top on The Evolution Building (Building Top - 50.2M) - Block A
22/APCH 04/TKOF	BUILDING	210810.8N 0724538.4E	159 FT	LGTD	Lighted Top on 7 Heavan Building (Building Top - 47.2M) - Block G
22/APCH 04/TKOF	BUILDING	210811.4N 0724557.0E	145 FT	NO	Empire Regency Board Top (Building Top - 43.4M) – Block A
22/APCH 04/TKOF	BUILDING	210811.6N 0724605.2E	164 FT	LGTD	Lighted Top on Shyam Palace (Building Top - 49.6M) - Block C
22/APCH 04/TKOF	BUILDING	210812.6N 0724542.0E	163 FT	LGTD	Board on 7 Heavan Building (Lighted Top - 48.8M, Building Top - 47.2M) - Block C
22/APCH 04/TKOF	BUILDING	210816.0N 0724539.3E	159 FT	LGTD	Lighted Top on Samarth Building (Building Top - 47.5M, Board Top - 46.9M) - Block A
22/APCH 04/TKOF	BUILDING	210817.8N 0724617.7E	179 FT	LGTD	Lighted Top on Florence Building (Building Top - 53.7M) - Block E
22/APCH 04/TKOF	BUILDING	210821.5N 0724548.9E	173 FT	NO	Happy Glorious Building Top - Block G4
22/APCH 04/TKOF	BUILDING	210821.8N 0724604.3E	167 FT	NO	Sarjan Building, Dish Antenna Top - 50.3M
22/APCH 04/TKOF	BUILDING	210821.8N 0724550.1E	174 FT	NO	Happy Glorious Building Top - Block G3
22/APCH 04/TKOF	BUILDING	210822.7N 0724552.8E	170 FT	NO	Dish Antenna on Green Fortune Building (Hoarding Top - 50.9M, Building Top - 50.8M) - Block C
22/APCH 04/TKOF	BUILDING	210822.8N 0724553.9E	154 FT	NO	Vastugram Building Top - Block D
22/APCH 04/TKOF	BUILDING	210824.6N 0724550.8E	153 FT	NO	Salasar Building Top - Block A
22/APCH 04/TKOF	BUILDING	210824.6N 0724557.5E	166 FT	LGTD	Lighted Top on Rashik Villa Building (Building Top - 50.2M)

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
22/APCH 04/TKOF	BUILDING	210824.9N 0724549.6E	174 FT	NO	Board On Happy Glorious Building (Building Top - 52.8M) - Block G1
22/APCH 04/TKOF	BUILDING	210825.4N 0724554.2E	157 FT	NO	Vastugram Building - Block A
22/APCH 04/TKOF	BUILDING	210826.6N 0724608.6E	173 FT	NO	Board On Shubh Residency (Building Top - 51.1M) - Block A
22/APCH 04/TKOF	BUILDING	210826.8N 0724604.4E	178 FT	NO	Dish On Shilp Residency Building (Building Top - 52.0M) - Block B
22/APCH 04/TKOF	BUILDING	210828.5N 0724552.8E	177 FT	NO	Dish On Gokul Platinum Building (Building Top - 53.2M) - Block B
22/APCH 04/TKOF	BUILDING	210830.3N 0724605.1E	174 FT	NO	Dish On Hi-Tech Building (Building Top - 52.2M) - Block C
22/APCH 04/TKOF	BUILDING	210831.1N 0724607.2E	175 FT	NO	Hi-Tech Board Top - Block A
22/APCH 04/TKOF	BUILDING	210831.8N 0724556.1E	170 FT	NO	The Legend Top - Block A
22/APCH 04/TKOF	BUILDING	210839.2N 0724619.8E	182 FT	LGTD	Lighted Top on Fionna Apartment (Building Top - 54.4 M) - Block B
22/APCH 04/TKOF	BUILDING	210839.6N 0724607.9E	173 FT	NO	Surya Heritage (Under Construction)
22/APCH 04/TKOF	BUILDING	210841.6N 0724621.9E	174 FT	LGTD	Lighted Top on Hampton Park Building (Shed Top - 54.1M, Building Top - 52.7M) - Block A
22/APCH 04/TKOF	BUILDING	210844.5N 0724642.4E	180 FT	NO	Swastik Vihar Appt. Top
22/APCH 04/TKOF	BUILDING	210844.8N 0724614.4E	176 FT	LGTD	Solar Panel on Building, Lighted Top -53.4M, Building Top - 53.1M - Block A
22/APCH 04/TKOF	BUILDING	210845.2N 0724615.9E	177 FT	NO	Dish on Jolly Residency (Building Top - 52.9M) - Block G

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
22/APCH 04/TKOF	BUILDING	210846.6N 0724609.5E	178 FT	LGTD	Lighted Top on Happy Excelencia Building (Building Top - 54.1M) - Block U2
22/APCH 04/TKOF	BUILDING	210848.3N 0724613.1E	184 FT	LGTD	Lighted Top on Happy Excelencia Building (Building Top - 54.1M) - Block S2
22/APCH 04/TKOF	BUILDING	210849.0N 0724619.4E	181 FT	LGTD	Shed On Jolly Residency (Lighted Top - 54.4M, Building Top - 52.8M) - Block B
22/APCH 04/TKOF	BUILDING	210856.4N 0724655.6E	177 FT	NO	Shreeji Residency Building Top
22/APCH 04/TKOF	BUILDING	210858.4N 0724634.3E	175 FT	NO	Pipe on Shrenik Residency (Building Top - 52.0M) - Block A
22/APCH 04/TKOF	BUILDING	210900.6N 0724637.2E	174 FT	LGTD	Lighted Top on Ravi Ratnam Building, Building Top - 52.6M
22/APCH 04/TKOF	BUILDING	210902.3N 0724622.5E	187 FT	LGTD	Cell Phone Mast on Western Business Park (Building Top - 45.8M)
22/APCH 04/TKOF	BUILDING	210913.1N 0724620.7E	188 FT	NO	Board on Ratna Aashtha Building (Building Top - 52.9M)
22/APCH 04/TKOF	OTHER	210902.3N 0724614.4E	185 FT	LGTD	Mast
22/APCH 04/TKOF	BUILDING	210844.5N 0724631.3E	178 FT	LGTD	Lighted Top on Samprati Palace (Building Top - 53.7M)
In circling area and at AD	BUILDING	210638.4N 0724425.3E	40 FT	NO	DVOR Antenna (Building Top - 9.4 M)
In circling area and at AD	OTHER	210638.2N 0724425.6E	48 FT	LGTD	DVOR DME
In circling area and at AD	OTHER	210640.6N 0724427.5E	48 FT	LGTD	DVOR Monitor Antenna
In circling area and at AD	POLE	210620.9N 0724350.4E	60 FT	NO	Light Pole
In circling area and at AD	POLE	210622.1N 0724353.5E	43 FT	NO	Light Pole
In circling area and at AD	POLE	210621.4N 0724352.6E	42 FT	NO	Electric Pole
In circling area and at AD	TREE	210621.9N 0724352.4E	56 FT	NO	Group of Trees

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	TREE	210621.2N 0724351.2E	55 FT	NO	Group of Trees
In circling area and at AD	TREE	210623.4N 0724352.1E	61 FT	NO	Group of Trees
In circling area and at AD	FENCE	210622.2N 0724353.6E	36 FT	NO	Airport Boundary Wall with Fencing on Top
In circling area and at AD	POLE	210622.0N 0724353.6E	42 FT	NO	Light Pole
In circling area and at AD	POLE	210620.8N 0724351.4E	50 FT	NO	Electric Pole
In circling area and at AD	TREE	210620.2N 0724349.7E	54 FT	NO	Group of Trees
In circling area and at AD	POLE	210617.6N 0724347.9E	46 FT	NO	Electric Pole
In circling area and at AD	BUILDING	210456.6N 0724313.9E	175 FT	NO	Antenna on Aquatica Building (Building Top - 50.6M)
In circling area and at AD	POLE	210621.3N 0724352.0E	43 FT	NO	Light Pole
In circling area and at AD	TREE	210620.1N 0724350.6E	54 FT	NO	Group of Trees
In circling area and at AD	POLE	210739.1N 0724510.6E	34 FT	NO	Light Pole
In circling area and at AD	BUILDING	210806.6N 0724605.4E	155 FT	LGTD	Lighted Top on Shrungar Residency (Building Top - 46.4M) - Block G
In circling area and at AD	BUILDING	210813.5N 0724631.7E	187 FT	NO	Antila Dream Building Corner (Under Construction)
In circling area and at AD	BUILDING	210814.3N 0724615.1E	178 FT	LGTD	Lighted Top on Crystal Palace (Building Top - 53.3M) - Block A
In circling area and at AD	BUILDING	210814.5N 0724616.8E	178 FT	LGTD	Lighted Top on Crystal Palace (Building Top - 53.4M) - Block B
In circling area and at AD	BUILDING	210814.1N 0724514.1E	177 FT	LGTD	Lighted Top On L&T Building, Building Top - 53.8M
In circling area and at AD	BUILDING	210815.7N 0724618.1E	179 FT	LGTD	Lighted Top on Florence Building (Dish Top - 54.8M, Building Top - 53.7M) - Block D

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	BUILDING	210816.6N 0724623.7E	185 FT	LGTD	Lighted Top on Florence Building (Board Top - 55.5M, Building Top - 53.7M) - Block A
In circling area and at AD	BUILDING	210819.2N 0724538.3E	177 FT	LGTD	Building Top of OM Icon Building - Block D
In circling area and at AD	BUILDING	210819.3N 0724538.2E	171 FT	LGTD	OM Icon Building Top - Block D
In circling area and at AD	BUILDING	210819.5N 0724539.9E	177 FT	LGTD	Lighted Top on OM Icon Building (Building Top - 52.1M) - Block C
In circling area and at AD	BUILDING	210842.5N 0724556.3E	173 FT	NO	Happy Residency Building - Block A
In circling area and at AD	BUILDING	210845.5N 0724713.5E	261 FT	LGTD	Lighted Top on Cellestial Dream Block-A Building, (Building Top - 79.5M)
In circling area and at AD	BUILDING	210849.2N 0724718.3E	261 FT	NO	Cellestial Dream Block-C Building
In circling area and at AD	BUILDING	210819.3N 0724519.4E	182 FT	LGTD	Antenna on Mufaddal Heights, Hoarding Top - 51.0M, Building Top - 47.0M
In circling area and at AD	BUILDING	210823.9N 0724524.8E	183 FT	LGTD	Lighted Top on Shell Building, Building Top - 54.8M
In circling area and at AD	BUILDING	210913.3N 0724610.4E	185 FT	NO	KPM Terre Prime Building Top
In circling area and at AD	BUILDING	210801.4N 0724611.3E	181 FT	LGTD	Lighted Top on Sumeru Residency - Milestone (Building Top -53.7M)
In circling area and at AD	BUILDING	210809.4N 0724615.6E	176 FT	NO	Dish Antenna on Building (Building Top - 52.1M)
In circling area and at AD	BUILDING	210820.5N 0724636.3E	180 FT	LGTD	Lighted Top on Swapna Sangini Building (Dish Antenna Top - 53.5M, Building Top -53.5M)
In circling area and at AD	BUILDING	210830.9N 0724652.5E	177 FT	NO	Hoarding Top on Building (Building (Under Constriction) - 51.6M)

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	BUILDING	210837.1N 0724708.0E	178 FT	NO	Sangini Terraza Building Top
In circling area and at AD	OTHER	210705.8N 0724450.8E	75 FT	LGTD	GP Antenna (Hut Top - 8.6M)
In circling area and at AD	OTHER	210705.7N 0724450.8E	35 FT	LGTD	GP DME
In circling area and at AD	OTHER	210707.8N 0724452.8E	35 FT	LGTD	GP Monitor Antenna
In circling area and at AD	OTHER	210658.6N 0724429.8E	44 FT	LGTD	W.D.I.
In circling area and at AD	OTHER	210638.3N 0724425.3E	56 FT	NO	Lightning Arrestor on DVOR
In circling area and at AD	TREE	210705.7N 0724437.6E	34 FT	NO	Tree
In circling area and at AD	OTHER	210704.7N 0724449.7E	50 FT	LGTD	CWIS Antenna
In circling area and at AD	OTHER	210714.2N 0724436.2E	125 FT	LGTD	Flood Light Mast
In circling area and at AD	OTHER	210715.2N 0724437.2E	126 FT	LGTD	Flood Light Mast
In circling area and at AD	OTHER	210716.2N 0724438.2E	126 FT	LGTD	Flood Light Mast
In circling area and at AD	OTHER	210717.4N 0724439.4E	126 FT	LGTD	Flood Light Mast
In circling area and at AD	OTHER	210718.6N 0724440.5E	125 FT	LGTD	Flood Light Mast
In circling area and at AD	OTHER	210720.3N 0724442.2E	125 FT	LGTD	Flood Light Mast
In circling area and at AD	OTHER	210721.9N 0724443.8E	125 FT	LGTD	Flood Light Mast
In circling area and at AD	OTHER	210713.2N 0724435.2E	125 FT	LGTD	Flood Light Mast
In circling area and at AD	OTHER	210712.2N 0724434.2E	126 FT	LGTD	Flood Light Mast
In circling area and at AD	OTHER	210711.2N 0724433.2E	125 FT	LGTD	Flood Light Mast
In circling area and at AD	OTHER	210709.6N 0724431.6E	126 FT	LGTD	Flood Light Mast
In circling area and at AD	OTHER	210707.9N 0724429.9E	127 FT	LGTD	Flood Light Mast
In circling area and at AD	BUILDING	210814.5N 0724401.1E	193 FT	NO	Narmada Cement Factory
In circling area and at AD	BUILDING	210821.2N 0724421.4E	179 FT	NO	Factory
In circling area and at AD	OTHER	210918.6N 0724537.6E	305 FT	NO	H.T. Tower
In circling area and at AD	OTHER	210935.5N 0724522.1E	303 FT	NO	H.T. Tower
In circling area and at AD	STACK	210906.8N 0724417.7E	250 FT	LGTD	Chimney

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	STACK	210913.4N 0724416.1E	363 FT	LGTD	Chimney
In circling area and at AD	OTHER	210937.2N 0724424.2E	356 FT	LGTD	Mast Rod Top (GAIL)
In circling area and at AD	STACK	210931.6N 0724358.9E	241 FT	LGTD	Chimney White ONGC
In circling area and at AD	OTHER	210938.0N 0724359.4E	354 FT	LGTD	Mast (Disc. Top) ONGC
In circling area and at AD	OTHER	210612.2N 0724141.9E	336 FT	NO	H.T. Tower
In circling area and at AD	OTHER	210604.7N 0724201.0E	211 FT	NO	H.T. Tower
In circling area and at AD	STACK	210936.2N 0724120.2E	740 FT	LGTD	Chimney
In circling area and at AD	STACK	210931.4N 0724120.4E	739 FT	LGTD	Chimney
In circling area and at AD	BUILDING	210708.5N 0724309.0E	177 FT	LGTD	Mast on Utopia Building (Building Top - 50.3M)
In circling area and at AD	BUILDING	210833.1N 0724507.3E	181 FT	LGTD	Lighted Top on Building, Building Top -53.2M
In circling area and at AD	BUILDING	210729.0N 0724628.8E	180 FT	NO	Lift Top of Building (Under Construction), Building Top - 52.1M
In circling area and at AD	BUILDING	210727.5N 0724628.8E	176 FT	NO	Lift Top of Building (Under Construction), Building Top - 52.0M
In circling area and at AD	BUILDING	210745.9N 0724629.7E	181 FT	NO	Building Top
In circling area and at AD	BUILDING	210741.3N 0724630.6E	177 FT	NO	Building (Under Construction)
In circling area and at AD	BUILDING	210730.5N 0724635.0E	174 FT	NO	Building Top

VASU AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Name of the associated meteorological office	Available in City
2	Hours of service and, where applicable, the designation of the responsible meteorological office outside these hours	AS ATS
3	Office responsible for preparation of TAFs and periods of validity and interval of issuance of the forecasts	NOT AVBL
4	Availability of the trend forecast for the aerodrome and interval of issuance	NOT AVBL
5	Information on how briefing and/or consultation is provided	NOT AVBL
6	Types of flight documentation supplied and language(s) used in flight documentation	ENGLISH

7	Charts and other information displayed or available for briefing or consultation	NOT AVBL
8	Supplementary equipment available for providing information on meteorological conditions, e.g. weather radar and receiver for satellite images;	NOT AVBL
9	The air traffic services unit(s) provided with meteorological information	METAR
10	Additional information, e.g. concerning any limitation of service.	Wind Direction Indicator Available, Lighted.

VASU AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations	TRUE Bearings	Dimensions of RWY (M)	Strength of pavement (PCN) and associated data) and surface of runway and associated stopways	Geographical coordinates for threshold and runway end
1	2	3	4	5
04	42.98 DEG	2906 x 45 M	71/F/C/W/T Asphalt	THR: 210622.49N 0724401.97E RWY END: 210731.63N 0724510.62E
22	222.98 DEG	2906 x 45 M	71/F/C/W/T Asphalt	THR: 210716.97N 0724456.07E RWY END: 210622.49N 0724401.97E

THR elevation and highest elevation of TDZ of precision APP RWY	Slope of runway and associated stopway	Dimensions of stopway (M)	Dimensions of clearway (M)	Dimensions of strips (M)
6	7	8	9	10
THR: 20.0FT TDZ: 20.0FT	0.10%			3026 x 280 M
THR: 19.0FT TDZ: 19.0FT	-0.10%			3026 x 280 M

Dimensions of runway end safety areas	Location and description of arresting system (if any)	Existence of an obstacle-free zone	Remarks.
11	12	13	14
240M x 90M			i. PCN RWY 04: 0 to 655 M: 73/R/B/W/T 655 M to 2755 M: 71/F/C/W/T 2755 M to 2906 M: 73/R/B/W/T ii. Gravity Model: EGM-08
240M x 90M			i. PCN RWY 22 0 to 151 M: 73/R/B/W/T 151 M to 2251 M: 71/F/C/W/T 2251 M to 2906 M: 73/R/B/W/T ii. Gravity Model: EGM-08

VASU AD 2.13 DECLARED DISTANCES

RWY Designator	Take-off run available TORA (M)	Take-off distance available TODA (M)	Accelerate distance available ASDA (M)	Landing distance available LDA (M)	Remarks (including runway entry or start point where alternative reduced declared distances have been declared)
1	2	3	4	5	6
04	2290	2290	2290	2906	
22	2906	2906	2906	2290	Threshold displaced by 616 M

VASU AD 2.14 APPROACH AND RUNWAY LIGHTING

Runway Designator	Type, length and intensity of approach lighting system	Runway threshold lights, colour and wing bars	Type of visual slope indicator system	Length of runway touchdown zone lights
1	2	3	4	5
04	SALS 420 M LIH	Green	PAPI /3.00 DEG	
22	SALS 420 M LIH	Green	PAPI /3.00 DEG	

Length, spacing, colour and intensity of runway centre line lights	Length, spacing, colour and intensity of runway edge lights	Colour of runway end lights and wing bars	Length and colour of stopway lights	Remarks
6	7	8	9	10
	2906 M 60 M White LIH	Red		NIL
	2906 M 60 M White LIH	Red		NIL

VASU AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Location, characteristics and hours of operation of aerodrome beacon/identification beacon (if any)	ABN	Available at ATC Tower with alternate White & Green flashes: 30 flashes per minute. As ATS
		IBN	NIL
2	Location and lighting (if any) of anemometer/ landing direction indicator;	LDI	In front of ATC Control Tower near approach road to fire station
		Anemometer	Not Available
3	Taxiway edge and taxiway centre line lights;	Edge	Available
		Centre Line	Not Available
4	Secondary power supply including switch-over time;	Available Switch over Time 10 sec	
5	Remarks	NIL	

VASU AD 2.20 LOCAL AERODROME REGULATIONS

1. **Pushback Procedures on Main Apron:**

i) All stands are power -in and push back stands in the Main Apron. For Runway 04

I. Push back from stand 1,2,3,14 and 15 shall be facing the south-west direction only.

II. Aircraft from stand 2,3 and 15 shall be deep push abeam stand 1 to keep taxiway A clear (if required)

III. Push back from stand 4,5,6,7,8,16,17,18, and 19 should facing south-west direction only.

IV. Aircraft from stands 4 and 16 shall pull abeam stand 5 to keep taxiway A clear (if required)

V. Aircraft from stand 8 shall push abeam 6 to keep taxiway B clear (if required).

VI. Push back from stand 9,10,20 and 21 shall be facing the north -east direction only.

For Runway 22

I. Push back from stand 1,2,3,14 and 15 shall be facing the south-west direction only.

II. Aircraft from stands 2,3 and 15 shall be deep push abeam stand 1 to keep taxiway A clear (if required).

III. Push back from stand 4 to 10 and 16 to 21 shall be facing the north-east direction only. Aircraft from stands 7,8, and 19 shall deep push abeam stand 10 to keep taxiway B clear (if required).

2. No Aircraft shall take lock turn/ pivotal turn on the Runway to avoid pavement damage.

2. RADIO COMMUNICATION FAILURE PROCEDURE:

1. INTRODUCTION:

Radio communication failure procedures are described in ICAO PANS ATM DOC 4444. Based on these provisions , following radio communication failure procedures are established, to standardize the actions to be taken by the pilot of arriving and departing aircraft at Surat Airport.

The purpose of this document is to establish the standard procedure to handle the event of a radio communication failure situation at Surat airport to ensure safe and efficient aircraft operation**.**

2. GENERAL

2.1 As soon as it is known to ATC that two-way communication has failed, the action shall be taken to ascertain whether the aircraft is able to receive transmissions from the air traffic control unit by requesting it to execute a specified manoeuvre (if the aircraftvisual with ATC Tower) or to transmit, if possible, a specified signal in order to indicate acknowledgment.

2.2 SURAT ATC shall immediately forward information concerning the radio communication failure to all air traffic units concerned along the route of the flight

2.3 All Transponder-equipped aircraft experiencing Radio Communication failure shall set transponder to Mode A/C code 7600 as soon as practicable

2.4 Immediately after detection of RCF, the aircraft shall attempt to establish communications with the appropriate air traffic control unit using all other available means. In addition, the aircraft shall keep a watch for any instructions that may be issued by visual signals.

2.5 The pilot shall make blind transmission to ATC of all necessary reports and actions taken by the aircraft, e.g. descent, turn, proceeding to waypoint, etc., irrespective of whether partial/ complete RCF has been established or not.

2.6 Aircraft experiencing radio communication failure shall be provided all required information necessary for the safe and efficient conduct of flight and landing clearance without expecting acknowledgment.

3. ASSIGNED RUNWAY AND ITS AVAILABILITY FOR RCF AIRCRAFT:

3.1 In case of an arriving aircraft experiencing RCF, when the Runway for landing has already been advised to the aircraft by SURAT ATC via VHF, such runway shall be considered as the assigned runway. If an arriving aircraft has not been advised of any runway, Runway 22 shall be considered as an assigned runway for such arrival.

NOTE: In the case of RCF, pilots shall not assume runway on the basis of ATIS (127.075MHZ) Broadcast.

3.2 In case of departures from Surat airport is returning due to RCF, Runway 22 shall be considered as the assigned runway for landing, irrespective of the runway used for departure.

3.3 Runway lights and Approach lights shall be in the 'SWITCHED ON' position to indicate the availability of such Runway for aircraft experiencing RCF irrespective of visibility and Day or Night.

3.4 Runway and Approach lights in the 'SWITCHED OFF' position shall indicate the non-availability of such Runway for aircraft experiencing RCF.

3.5 In case strong tailwind conditions are encountered during approach for

3.6 the Runway as mentioned in para 3.1, the aircraft experiencing RCF will carry out a missed approach on the runway as mentioned in para 3.1 and after following the complete missed approach procedure for such approach, aircraft will carry out the published approach procedure for the opposite runway.

4. PROCEDURE FOR ARRIVALS:

4.1 In case radio communication failure takes place after establishing the ILS/final approach track, aircraft may continue the approach and land if visual or go around andcarry out the missed approach procedure and join the VOR (112.2) SUR holdingprocedure climbing to and maintaining 3100ft.

.4.2 Except when descent clearance has already been received from ATC SURAT and acknowledged, the pilot shall continue on the ATS route maintaining filed flight plan level or level cleared by adjacent area control unit i.e. VABB AREA or VAAH AREA and do not commence descent before 20-mile VOR (112.2) SUR.

4.3 After crossing 20-mile, the pilot shall descend to FL080 to join the published hold over VOR (112.2) SUR for the runway as mentioned in para 3.1.

4.4 Commence descent to 3100 feet in published hold over VOR (112.2) SUR at, or as close as possible to, the expected approach time (EAT) last received and acknowledged; or, if no expected approach time (EAT) has been received and acknowledged, at, or as close as possible to, the estimated time of arrival (ETA) over SUR VOR.

4.5 Leave VOR (112.2) SUR and carry out the published ILS/VOR Procedure for the runway as mentioned in para 3.1.

4.6 Land, if possible, within 30 minutes after the estimated time of arrival (ETA) or the last acknowledged expected approach time (EAT), whichever is later.

5. PROCEDURE FOR DEPARTURES:

5.1 Departing aircraft experiencing radio communication failure and intending to continue to its filed flight plan destination shall:

5.1.1 Continue ATS route as per filed flight plan, climbing to/maintaining cleared and acknowledged flight level, or minimum flight altitude if higher, for a period of 20 minutes following the aircraft's failure to report its position over compulsory reporting point and thereafter adjust level and speed in accordance with the filed flight plan to destination.

5.1.2 When the aircraft is given clearance for offset from flight plan route in without a specified limit, re-join the current flight plan route after passing 20Mile from SUR VOR but no later than the next significant point, taking into consideration the applicable minimum flight altitude.

5.2 A departing aircraft, experiencing radio communication failure and intending to land back at Surat Airport, shall:

5.2.1 Maintain the last assigned level, or minimum flight altitude if higher, for a period of 10 minutes on the flight plan route or on offset radial as cleared in ATC clearance.

5.2.2 After 10 minutes turn towards VOR (112.2) SUR via the same flight plan route or radial as per departure clearance. On Reaching VOR (112.2) SUR joins hold as published.

5.2.3 If required jettison fuel, then remain in hold over VOR (112.2) SUR after taking all precautions.

5.2.4 Commence descent in the hold to 3100 feet. Leave VOR (112.2) SUR and carry out the published ILS/VOR Procedure for the runway as mentioned in para 3.2

.

5.3 Procedures for VFR Traffic:

5.3.1 In case of a VFR flight experiencing RCF and does not intend to land at Surat:

It shall continue to fly in VMC, land at the nearest suitable aerodrome/helipad, and report its arrival by the most expeditious means to the ATC, Surat.

5.3.2 In case of a VFR flight experiencing RCF and intending to land at Surat:

a) Proceed according to the current flight plan route in VMC and maintain the altitude/level last assigned and acknowledged.

b) Proceed towards 15 miles NW/SE of the field subject to arrival route and descent 1500 ft AGL.

c) Maintaining 1500 ft AGL proceed to Surat to join the traffic circuit for the last acknowledged Runway or the Runway as per para 3.1.

d) Carry out a complete aerodrome traffic circuit and land on the last acknowledged Runway or the Runway as per para 3.1

• *When Surat ATC becomes aware of the RCF of the aircraft, the controller concerned shall accord priority for the RCF aircraft to land.*

• *If the aircraft re-establishes communication or has landed, the ATC unit shall inform all con**cerned units/aerodromes** along the route as per the flight plan including the alternate aerodrome**.***

5.4 Various Signals used by ATCO during communication failure

Air traffic controllers have ALDIS lamps as backup systems for communication if the radio fails**.**

The various signals used by the ATCO during communication failure are as follows	**Aircraft in Flight**	**Aircraft on the ground**
Steady green	**Cleared to land**	**Cleared for take-off**
Steady red	**Give way to other aircraft, continue circling**	**Stop**
A series of green flashes	**Return for landing* (*Clearances to land and to taxi will be given in due course.)**	**Cleared to taxi**
Series of red flashes	**The aerodrome is unsafe, do not land**	**Taxi clear of landing area in use**
Series of white flashes	**Land at this aerodrome and proceed to the apron***	**Return to starting point on the aerodrome**
Alternate Red and Green	**Exercise extreme caution**	**Exercise extreme caution**
Blinking runway lights	**Vehicles, Plans, and pedestrians immediately clear the landing area in use**	

VASU AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VASU AD 2.22 FLIGHT PROCEDURES

NIL

VASU AD 2.23 ADDITIONAL INFORMATION

1. All bays on Main APN are Power-in Pushback only, ACFT operator to arrange pushback facility while operating at the Airport.
2. Runway Turn Pad capable of handling B777-300 ER type of aircraft, provided at the beginning of RWY 22 for special ops with prior permission. PCN for extended portion of turn pad RWY 22: 74/R/A/W/T.
3. No aircraft shall take a Lock Turn / Pivotal Turn on the RWY to avoid pavement damage
4. Following intersection Take Off Run Available (TORA):

RWY	From TWY Intersection	TORA (M)
RWY 22	TWY E3	1790
RWY 22	TWY E2	2025

VASU AD 2.24 CHARTS RELATED TO AN AERODROME

1. Aerodrome Chart(11 JUNE 2026)
2. Aircraft Parking/Docking Chart(11 JUNE 2026)
3. Aerodrome Obstacle Chart Type-A, (Operating Limitations) RWY 04
4. Aerodrome Obstacle Chart Type-A, (Operating Limitations) RWY 22
5. ILS or LOC Procedure RWY 22
6. VOR Procedure RWY 04 (CAT A/B/C)
7. VOR Procedure RWY 22 (CAT A/B/C)
8. RNP Procedure RWY 22
9. Coding Table - RNP Procedure RWY 22
10. RNP Procedure RWY 04 (17 April 2025)
11. Coding Table - RNP Procedure RWY 04 (17 April 2025)
12. FAS DATA - RNP Procedure RWY 04 (17 April 2025)

VASU AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Procedure	Procedure Minima	VSS Penetration
1	**2**	**3**

AERODROME CHART 21°06'57.78"N 072°44'30.58"E AD.ELEV 25ft.

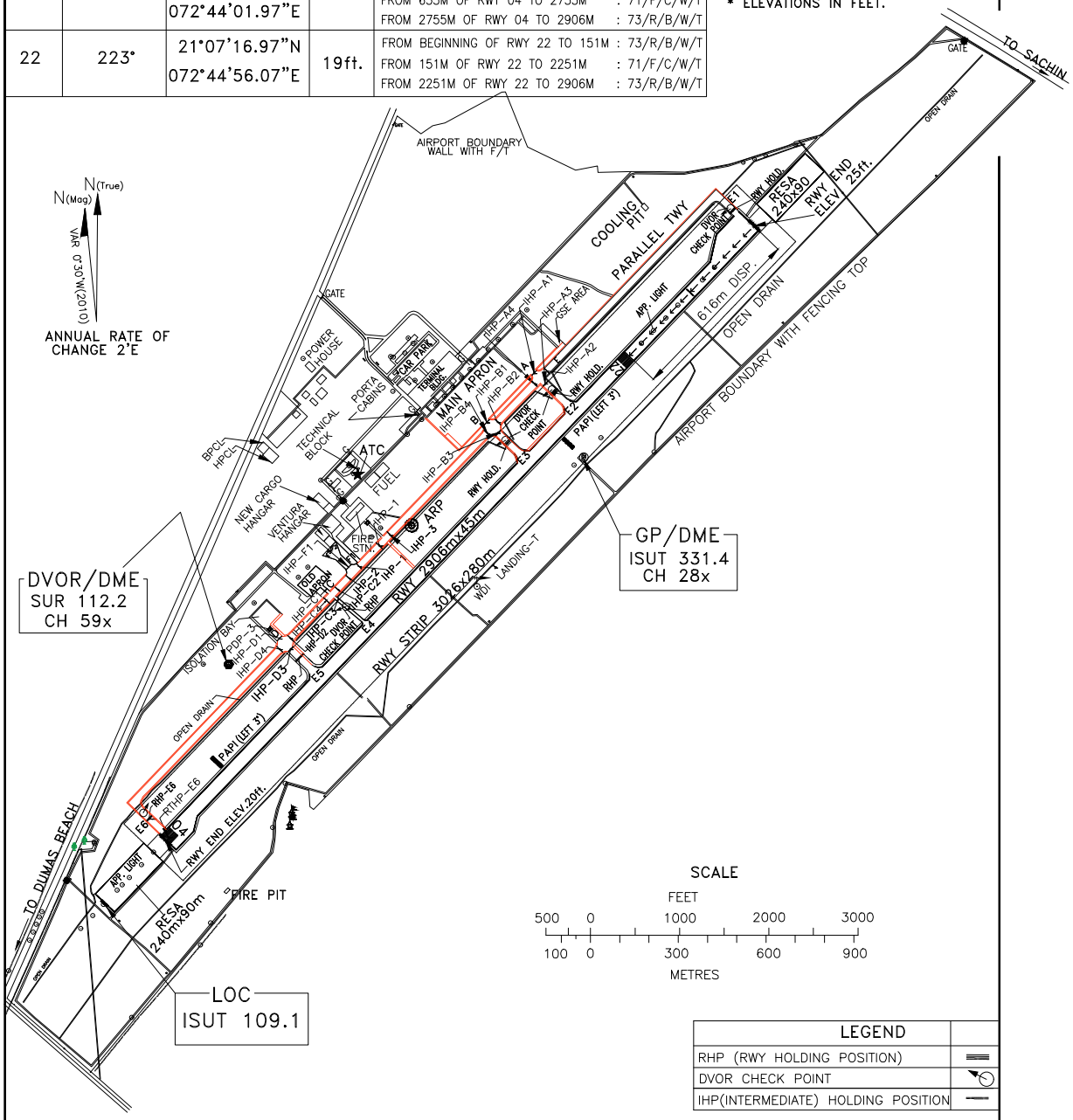
TWR 118.550
BACKUP 118.050

SURAT, INDIA

SURAT AIRPORT

RWY	DIRECTION	THR CO-ORDINATES	THR ELEV.	BEARING STRENGTH
04	043°	21°06'22.49"N 072°44'01.97"E	20ft.	FROM BEGINNING OF RWY 04 TO 655M : 73/R/B/W/T FROM 655M OF RWY 04 TO 2755M : 71/F/C/W/T FROM 2755M OF RWY 04 TO 2906M : 73/R/B/W/T
22	223°	21°07'16.97"N 072°44'56.07"E	19ft.	FROM BEGINNING OF RWY 22 TO 151M : 73/R/B/W/T FROM 151M OF RWY 22 TO 2251M : 71/F/C/W/T FROM 2251M OF RWY 22 TO 2906M : 73/R/B/W/T

* DATUM :
HORIZONTAL : WGS-84
VERTICAL : EGM-08
* DIMENSIONS IN METRES
* ELEVATIONS IN FEET.



SCALE

FEET
500 0 1000 2000 3000

100 0 300 600 900
METRES

LEGEND	
RHP (RWY HOLDING POSITION)	
DVOR CHECK POINT	
IHP(INTERMEDIATE) HOLDING POSITION	

MARKING AIDS RUNWAY 04/22



DATE OF AERONAUTICAL INFORMATION
MARCH 2025

DRG. NO.-AAI/11-AC/2022
UPDATED ON 05-01-2026

Airports Authority of India, Carto.

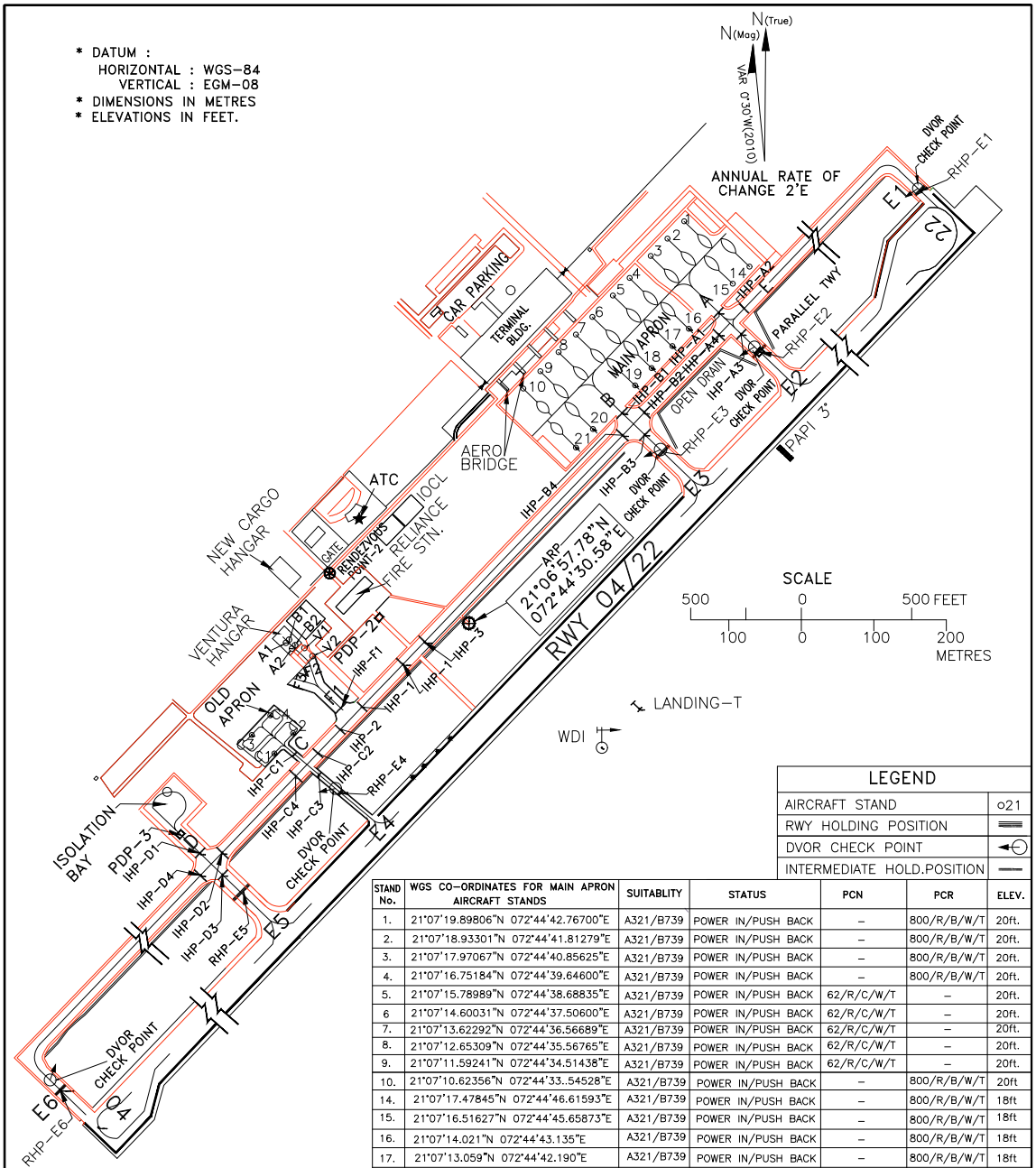
AIRCRAFT PARKING/
DOCKING CHART

MAIN APRON ELEV 20ft
OLD APRON ELEV 17ft

TWR	118.550
BACKUP	118.050

SURAT, INDIA

SURAT AIRPORT



LEGEND	
AIRCRAFT STAND	o21
RWY HOLDING POSITION	
DVOR CHECK POINT	
INTERMEDIATE HOLD.POSITION	

TAXIWAY	PCN	PCR	WIDTH
A	62/R/C/W/T	–	23M
B	62/R/C/W/T	–	23M
C	26.2/F/C/W/T	–	10.5M
D	66/R/A/W/T	–	23M
E	–	800/R/B/W/T	23M
E1	74/R/B/W/T	–	23M
E2	62/R/C/W/T	–	23M
E3	62/R/C/W/T	–	23M
E4	26.2/F/C/W/T	–	10.5M
E5	66/R/A/W/T	–	23M
E6	–	780/R/B/W/T	23M
F1	18/R/B/W/T	–	23M
F2	18/R/B/W/T	–	23M
F3	18/R/B/W/T	–	23M

STAND No.	WGS CO-ORDINATES FOR MAIN APRON AIRCRAFT STANDS	SUITABLITY	STATUS	PCN	PCR	ELEV.
1.	21°07'19.89806"N 072°44'42.76700"E	A321/B739	POWER IN/PUSH BACK	–	800/R/B/W/T	20ft.
2.	21°07'18.93301"N 072°44'41.81279"E	A321/B739	POWER IN/PUSH BACK	–	800/R/B/W/T	20ft.
3.	21°07'17.97067"N 072°44'40.85625"E	A321/B739	POWER IN/PUSH BACK	–	800/R/B/W/T	20ft.
4.	21°07'16.75184"N 072°44'39.64600"E	A321/B739	POWER IN/PUSH BACK	–	800/R/B/W/T	20ft.
5.	21°07'15.78989"N 072°44'38.68835"E	A321/B739	POWER IN/PUSH BACK	62/R/C/W/T	–	20ft.
6	21°07'14.60031"N 072°44'37.50600"E	A321/B739	POWER IN/PUSH BACK	62/R/C/W/T	–	20ft.
7.	21°07'13.62292"N 072°44'36.56689"E	A321/B739	POWER IN/PUSH BACK	62/R/C/W/T	–	20ft.
8.	21°07'12.65309"N 072°44'35.56765"E	A321/B739	POWER IN/PUSH BACK	62/R/C/W/T	–	20ft.
9.	21°07'11.59241"N 072°44'34.51438"E	A321/B739	POWER IN/PUSH BACK	62/R/C/W/T	–	20ft.
10.	21°07'10.62356"N 072°44'33..54528"E	A321/B739	POWER IN/PUSH BACK	–	800/R/B/W/T	20ft
14.	21°07'17.47845"N 072°44'46.61593"E	A321/B739	POWER IN/PUSH BACK	–	800/R/B/W/T	18ft
15.	21°07'16.51627"N 072°44'45.65873"E	A321/B739	POWER IN/PUSH BACK	–	800/R/B/W/T	18ft
16.	21°07'14.021"N 072°44'43.135"E	A321/B739	POWER IN/PUSH BACK	–	800/R/B/W/T	18ft
17.	21°07'13.059"N 072°44'42.190"E	A321/B739	POWER IN/PUSH BACK	–	800/R/B/W/T	18ft
18.	21°07'11.857"N 072°44'41.002"E	A321/B739	POWER IN/PUSH BACK	–	800/R/B/W/T	19ft
19.	21°07'10.896"N 072°44'40.049"E	A321/B739	POWER IN/PUSH BACK	–	800/R/B/W/T	18ft
20.	21°07'08.497"N 072°44'37.640"E	A321/B739	POWER IN/PUSH BACK	–	800/R/B/W/T	18ft
21.	21°07'07.45851"N 072°44'36.65095"E	A321/B739	POWER IN/PUSH BACK	–	800/R/B/W/T	19ft
	OLD APRON					
C1.	21°06'50.51765"N 072°44'19.35182"E	BEECH200T	POWER IN/POWER OUT	33/R/B/W/T	–	17ft
C2.	21°06'51.62786"N 072°44'20.42726"E	BEECH200T	POWER IN/POWER OUT	33/R/B/W/T	–	17ft
C3.	21°06'51.50791"N 072°44'18.01885"E	BEECH200T	POWER IN/POWER OUT	33/R/B/W/T	–	17ft
C4.	21°06'52.62018"N 072°44'19.09674"E	BEECH200T	POWER IN/POWER OUT	33/R/B/W/T	–	17ft
ISOL. BAY	21°06'48.29224"N 072°44'13.18252"E	A321	POWER IN POWER OUT	66/R/A/W/T	–	18ft
	VENTURA HANGAR					
A1.	21°06'56.556"N 072°44'19.934"E	C208B	POWER IN/PUSH BACK	–	–	21ft.
A2.	21°06'56.250"N 072°44'20.290"E	C208B	POWER IN/PUSH BACK	–	–	20ft.
B1.	21°06'56.738"N 072°44'20.117"E	C208B	POWER IN/PUSH BACK	–	–	20ft.
B2.	21°06'56.434"N 072°44'20.467"E	C208B	POWER IN/PUSH BACK	–	–	20ft.
V1.	21°06'56.286"N 072°44'21.010"E	C208B	POWER IN/PUSH BACK	18/R/B/W/T	–	20ft.
V2.	21°06'55.863"N 072°44'21.493"E	C208B	POWER IN/PUSH BACK	18/R/B/W/T	–	20ft.

DATE OF AERONAUTICAL INFORMATION
MARCH 2025

DRG. NO.-AAI/12-PDC/2022
UPDATED ON 05-02-2026

VEAP AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Location, characteristics and hours of operation of aerodrome beacon/identification beacon (if any)	ABN	Top of ATC Tower LAT/LONG: 225909.819N 0831155.392E 28-30 flashes per minute Alternate White & Green As per ATC Watch Hours
		IBN	NIL
2	Location and lighting (if any) of anemometer/ landing direction indicator;	LDI	NIL
		Anemometer	NIL
3	Taxiway edge and taxiway centre line lights;	Edge	NIL
		Centre Line	NIL
4	Secondary power supply including switch-over time;	Available 15 seconds	
5	Remarks	Nil	

VEAP AD 2.16 HELICOPTER LANDING AREA

1	Geographical coordinates of the geometric centre of touchdown and lift-off (TLOF) or of each threshold of final approach and take-off (FATO) area	Not established
2	TLOF and/or FATO area elevation:	Not established
3	TLOF and FATO area dimensions to the nearest metre or foot, surface type, bearing strength and marking;	Not established
4	True bearings of FATO;	Not established
5	Declared distances available	Not established
6	Approach and FATO lighting;	Not established
7	Remarks	NIL

VEAP AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	CTR: Circular area centered on 225936N 0831134E within a 25NM radius.
2	Vertical limits	FL 75
3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	AMBIKAPUR TOWER, English
5	Transition altitude	7000 FT
6	Hours of applicability	HO
7	Remarks	1. CTR available only during published watch hrs. 2. Airspace classified as Class ‘D’ 3. Beyond Watch hrs airspace Classification is Class G

VEAP AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	2	3	4
APP	Ambikapur Tower	118.200 MHZ	
APP	Ambikapur Tower	118.325 MHZ	
TWR	AMBIKAPUR TOWER	118.200 MHZ	
TWR	AMBIKAPUR TOWER	118.325 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	6	7
	HO	1.Main 2.Functions of Approach combined with Tower.
	HO	1.Back up 2.Functions of Approach combined with Tower.
	HO	MAIN
	HO	BACK UP

VEAP AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aids, magnetic variation and type of supported operation for ILS/ MLS, basic GNSS, SBAS and GBAS, and for VOR/ILS/MLS station used for technical lineup of the aid	Identification	Frequency(ies), Channel number(s), Service provider, and reference path identifier(s) (RPI), as appropriate	Hours of operation, as appropriate;
1	2	3	4

Geographical coordinates of the position of the transmitting antenna	Elevation of transmitting antenna of DME/ elevation of GBAS reference point	Service volume radius from the GBAS reference point	Remarks
5	6	7	8

VEAP AD 2.20 LOCAL AERODROME REGULATIONS

NIL

VEAP AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VEAP AD 2.22 FLIGHT PROCEDURES

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	TREE	254137.4N 0915921.1E	3284 FT	NIL	Tree on Hill
In circling area and at AD	NATURAL HIGHPOINT	254915.4N 0915856.8E	3467 FT	NIL	Hill Top
In circling area and at AD	NATURAL HIGHPOINT	254647.9N 0915657.5E	3448 FT	NIL	Hill Top
In circling area and at AD	NATURAL HIGHPOINT	254833.2N 0920233.7E	3924 FT	NIL	Hill Top
In circling area and at AD	NATURAL HIGHPOINT	254723.0N 0920144.3E	4052 FT	NIL	Hill Top
In circling area and at AD	NATURAL HIGHPOINT	254543.5N 0920358.6E	3527 FT	NIL	Hill Top
In circling area and at AD	NATURAL HIGHPOINT	254406.1N 0915707.8E	3776 FT	NIL	Hill Top
In circling area and at AD	NATURAL HIGHPOINT	254253.8N 0915654.7E	3776 FT	NIL	Hill Top
In circling area and at AD	NATURAL HIGHPOINT	254127.8N 0915706.4E	3225 FT	NIL	Hill Top
In circling area and at AD	NATURAL HIGHPOINT	254055.1N 0915230.2E	3776 FT	NIL	Hill Top
In circling area and at AD	NATURAL HIGHPOINT	254038.4N 0915926.4E	3448 FT	NIL	Hill Top
In circling area and at AD	NATURAL HIGHPOINT	254033.2N 0915825.4E	3218 FT	NIL	Hut on Hill Top
In circling area and at AD	NATURAL HIGHPOINT	254015.1N 0915128.5E	3917 FT	NIL	Hill Top
In circling area and at AD	NATURAL HIGHPOINT	254222.6N 0920355.9E	3563 FT	NIL	Hill Top
In circling area and at AD	NATURAL HIGHPOINT	254220.1N 0920516.7E	3612 FT	NIL	Hill Top
In circling area and at AD	NATURAL HIGHPOINT	253957.6N 0920022.6E	3320 FT	NIL	Hill Top
In circling area and at AD	NATURAL HIGHPOINT	253546.3N 0920138.7E	3989 FT	NIL	Hill Top
In circling area and at AD	NATURAL HIGHPOINT	254610.3N 0920605.0E	4051 FT	NIL	Hill Top
In circling area and at AD	TREE	254038.8N 0915946.3E	3610 FT	NIL	Tree on Hill
In circling area and at AD	TREE	254057.0N 0915516.9E	3492 FT	NIL	Group of Trees
In circling area and at AD	OTHER	254057.6N 0915518.8E	3570 FT	NIL	Cellphone Mast
In circling area and at AD	OTHER	254231.2N 0915517.8E	4542 FT	NIL	Cellphone Mast on Hill
In circling area and at AD	OTHER	254232.0N 0915525.8E	4530 FT	NIL	Cellphone Mast on Hill
In circling area and at AD	TREE	254322.8N 0915729.5E	4007 FT	NIL	Tree on Hill
In circling area and at AD	TREE	254400.6N 0915811.7E	4043 FT	NIL	Tree on Hill

VEBI AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	Name of the associated meteorological office	GUWAHATI
2.	Hours of service and, where applicable, the designation of the responsible meteorological office outside these hours	0330-1030 UTC 0100-1130 UTC
3.	Office responsible for preparation of TAFs and periods of validity and interval of issuance of the forecasts	Guwahati
4.	Availability of the trend forecast for the aerodrome and interval of issuance	Yes, every 30 min
5.	Information on how briefing and/or consultation is provided	At MET office GUWAHATI
6.	Types of flight documentation supplied and language(s) used in flight documentation	NIL
7.	Charts and other information displayed or available for briefing or consultation	NIL
8.	Supplementary equipment available for providing information on meteorological conditions, e.g. weather radar and receiver for satellite images;	NIL
9.	The air traffic services unit(s) provided with meteorological information	VEBI Tower
10.	Additional information, e.g. concerning any limitation of service.	DCWIS for RWY 04 available.

VEBI AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations	TRUE Bearings	Dimensions of RWY (M)	Strength of pavement (PCN) and associated data) and surface of runway and associated stopways	Geographical coordinates for threshold and runway end
1	2	3	4	5
04	39.03 DEG	1829 x 45 M	23/R/C/W/T Concrete	THR: 254158.93N 0915827.60E RWY END: 254237.40N 0915902.02E
22	219.03 DEG	1829 x 45 M	23/R/C/W/T Concrete	THR: 254237.40N 0915902.02E RWY END: 254151.24N 0915820.72E

THR elevation and highest elevation of TDZ of precision APP RWY	Slope of runway and associated stopway	Dimensions of stopway (M)	Dimensions of clearway (M)	Dimensions of strips (M)
6	7	8	9	10
THR: 2919.0FT TDZ: 2919.0FT	-0.43%			1949 x 280 M
THR: 2901.0FT TDZ: 2913.0FT	0.43%			1949 x 280 M

VEBI AD 2.18 ATS COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	2	3	4
APP	Barapani TWR	119.150 MHZ	
APP	Barapani TWR	122.300 MHZ	
TWR	Barapani Tower	119.150 MHZ	
TWR	Barapani Tower	122.300 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	6	7
		1.BACKUP FREQ 2. Functions of TWR & APP are combined
		1. Main 2. Functions of TWR & APP are combined
	AS ATS	BACKUP FREQ
	As ATS	NIL

VEBI AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aids, magnetic and type of supported operation for ILS/MLS, basic GNSS, SBAS and GBAS, and for VOR/ILS/MLS station used for technical lineup of the aid	Identification	Frequency(ies), Channel number(s), Service provider, and reference path identifier(s) (RPI), as appropriate	Hours of operation, as appropriate;
1	2	3	4
LOC 22 CAT I	IBRP	108.900 MHz	AS ATS
GP 22		329.300 MHz	AS ATS
DME ILS 22	IBRP	CH26X	AS ATS
DVOR/DME	BPN	116.000 MHz CH107X	AS ATS

Geographical coordinates of the position of the transmitting antenna	Elevation of transmitting antenna of DME/ elevation of GBAS reference point	Service volume radius from the GBAS reference point	Remarks
5	6	7	8
254137.8N 0915808.7E			1. LOC IS USABLE UPTO 10 DEG TOWARDS 90 HZ SIDE (LEFT OF CENTERLINE ON APPROACH) AND UPTO 8 DEG TOWARDS 150 HZ SIDE (RIGHT OF CENTERLINE ON APPROACH) AT 2000FT ABOVE THRESHOLD. COVERAGE IS AVBL UPTO 17NM ONLY.
254232.3N 0915851.9E			1. GP ANGLE 3.2 DEG. 2. GLIDE PATH IS USABLE AT 10NM ABOVE 2500FT OVER THRESHOLD ELEVATION.
254232.4N 0915851.8E	2921 FT		1. COLOCATED WITH GP. 2. Elevation in EGM08.
254226.5N 0915842.6E	2948 FT		1. DME Collocated with DVOR. 2. Radio coverage is restricted at Radial 237.4 degree beyond FL100. Restriction is as per simulation study report.

VEBI AD 2.20 LOCAL AERODROME REGULATIONS

No Aircraft shall take lock turn/ pivotal turn on the Runway to avoid pavement damage.

1. **LOW VISIBILITY PROCEDURES**

2. **SCOPE**

Shillong Airport is certified ILS CAT I aerodrome with a prescribed landing minima of 550 m RVR for RWY 22. The DGCA CAR on All Weather Operations mandates establishment of Low Visibility Procedures for continuing operations below RVR values of 550 m. Accordingly Low Visibility Procedures (Only for Take-off up to (not less than) 400 m RVR) have been established at Shillong Airport to enhance and ensure safety during Low visibility/bad weather conditions.

3. DEFINITIONS

3.1 **ILS Critical Area:** An area of defined dimensions about the localizer and glide path antennas where aircraft and vehicles are excluded during all ILS operations. The critical area is protected because the presence of vehicles / or aircraft inside its boundaries will cause unacceptable disturbance to the ILS signal-in-space.

3.2 **ILS Sensitive Area:** An area extending beyond the ILS critical area where the parking and/or movement of vehicles, including aircraft, are controlled to prevent the possibility of unacceptable interference to the ILS signal during ILS operations. The sensitive area Airports is protected to provide protection against interferences cause by large moving objects outside the critical area but still normally within the airfield boundary.

3.3 **Low Visibility Procedures (LVP)**: Specific procedures applied at an aerodrome for the purpose of ensuring safe operations during Categories II and III approaches and/or low visibility take-offs.

Note: as per para 5.3 of CAR on All Weather Operations, an operator shall not conduct Take-off with RVR/ Visibility less than standard CAT-I conditions of 550m RVR/800m Visibility unless low visibility procedure are enforced.

3.4 **Low Visibility Take-Off (LVTO):** A term used in relation to flight operations referring to a take-off on a runway where the RVR is less than 400m.

3.5 **Manoeuvring Area:** That part of an aerodrome to be used for the take-off, landing and taxiing of aircraft, excluding aprons.

3.6 **Obstacle Free Zone:** The airspace above the inner approach surface, inner transitional surface and balked landing surface and that portion of the strip bounded by these surfaces, which is not penetrated by any fixed obstacle other than of low mass and frangible mounting, required for air navigation purposes.

3.7 **Runway Visual Range:** The range over which the pilot of an aircraft on the centre line of a runway can see the runway surface markings or the lights delineating the runway or identifying its centre line.

3.8 **Safeguarding Procedures:** Safeguarding Procedures (SP) are instructions for relevant airport departments and airside operators to prepare ground services and facilities for low visibility operations, in order that when LVP are implemented all SP are complete and airport is configured for Low Visibility Procedures and Low Visibility Take-offs.

3.9 **Missed approach procedure:** The procedure to be followed if the approach cannot be continued.

3.10 **Aerodrome Operating Minima**: The limits of usability of an aerodrome for:

i) take-off, expressed in terms of runway visual range and / or visibility and, if necessary, cloud conditions;
ii) landing in 2 D instrument approach operations, expressed in terms of visibility and/or runway visual range; minimum descent altitude/height (MDA/H) and, if necessary, cloud conditions.
iii) landing in 3D instrument approach operations, expressed in terms of visibility and/or runway visual range and decision altitude/height (DA/H) appropriate to the type and/or category of the operation.

3.11 **Touchdown Zone:** The portion of a runway, beyond the threshold, where it is intended landing aeroplanes first contact the runway.

3.12 **Visibility**: Visibility for aeronautical purposes is the greater of:
i) the greatest distance at which a black object of suitable dimensions, situated near the ground, can be seen and recognized when observed against a bright background;
ii) The greatest distance at which lights in the vicinity of 1000 candelas can be seen and identified against an unlit background.
Note 1. — The two distances have different values in air of a given extinction coefficient, and the latter b) varies with the background illumination. The former a) is represented by the meteorological optical range (MOR).
Note 2. — The definition applies to the observations of visibility in local routine and special reports, to the observations of prevailing and minimum visibility reported in METAR and SPECI and to the observations of ground visibility.

4. ABBREVIATIONS

ADC: Aerodrome Control
ARFF: Airport Rescue and Fire Fighting Services
ATC: Air Traffic Control
ATM: Air Traffic Management
CFT: Crash Fire Tender
ATIS: Automatic Terminal Information Service
DG: Diesel Generating Set
LVP: Low Visibility Procedures
MET: Meteorology
OPS: Operations
RWY: Runway
RVR: Runway Visual Range
SMC: Surface Movement Control
SP: Safeguarding Procedures
TDZ: Touchdown Zone
TMO: Tower Metrological Officer
TWY: Taxiway

5. **LOW VISIBILITY PROCEDURES:**

5.1 **Regulations**: CIVIL AVIATION REQUIREMENT SECTION 8 - AIRCRAFT OPERATIONS SERIES 'C' PART I ISSUE II, DATED 28TH OCTOBER 2022:
An operator shall not conduct low visibility take-offs in less than 400 m RVR unless approved by DGCA. Operators may be authorized LVTO minima of up to 75m. Foreign operators, who are authorized by their State Regulatory Authority for LVTO, shall submit requisite documents to DGCA for approval of LVTO at Indian aerodromes.
An Operator shall not conduct take-off with RVR/visibility less than standard Category I conditions of 550m RVR/800 m visibility unless low visibility procedures are enforced.

6. **GENERAL:**

6.1 Low Visibility Procedures (Only for Take-off up to (not less than) 400 m RVR) have been developed for Barapani Airport, Shillong to accommodate/permit departures in visibility/RVR less than 800M/550M (from RWY 04 beginning (runway served with RVR instrument).
6.2 The Low Visibility Procedure (LVP) incorporates safeguarding measures to mitigate runway incursions and defines operational restrictions to ensure safe Airside Operations taking into account the available Aerodrome facilities.

7. **MINIMUM REQUIREMENTS**

7.1 The following Aeronautical Ground lights and RVR equipment shall be serviceable to the required standard to support Low Visibility Procedures:

i) Runway edge lights,
ii) Runway end lights,
iii) Runway Guard Lights (available on TWY 'A', TWY 'B'&TWY 'F'.)
iv) Instrument RVR (Available for TDZ runway 04).
v) Stand by Power supply to maintain switch over time of 1 Second for Runway Edge Light and Runway End Lights. This requirement can be met with the help of DG Set and/or UPS. Unserviceability of Aeronautical Ground Lights/ Equipment before Implementation of LVP Visibility Procedures will not be implemented when any of the light/equipment mentioned in para 7.1 above is un- serviceable or is not maintained as per the required standard.

Aeronautical Ground Lighting Facility	Un-serviceability	Restrictions
Runway Edge lights	**More than 15% of all lights are unserviceable**	**LVP operations will be suspended.**
	Any two consecutive lights or more are unserviceable	
Runway End lights	**More than 15% of all lights are unserviceable**	**LVP operations will be suspended.**
	Any two consecutive lights or more are unserviceable	
Standby Generators/UPS	**Any of the generator/UPS is unserviceable**	**LVP operations will be suspended.**

Note: When any of the light/equipment mentioned in para 7.1 above becomes un- serviceable or fails to meet the required standard during periods of LVP, Tower shall advise the aircraft accordingly and LVP shall be suspended and information to this effect shall be included in ATIS broadcast.

8. **EQUIPMENT AND SERVICES**

8.1 RVR Equipments

i) AWOS (Automated Weather Observing System) for Runway 04 side
ii) RVR is reported in the following scales:
a) The maximum reportable value of RVR is 2000 m. When RVR is above 1500 m, it is reported as 2000 m.
b) In the increments 100 m when greater than 800 m.
c) In the increments 50 m when RVR greater than 400 m but less than 800 m.
d) In the increments 25 m when less than 400 m. (as per Annex 3, Appendix 3, 4.3.6.1)

iii) In case of unserviceability of the above mereological equipment, the LVP shall be suspended.

8.2 ILS

8.2.1 Runway is equipped with CAT 1 ILS.

9. **SAFEGUARDING PROCEDURES**

9.1 Safeguarding Procedures (SP) are instructions for relevant airport, departments and airside operators to prepare ground services and facilities for low visibility operations in order that when LVP are implemented all Safeguarding procedures are complete.

9.2 Safeguarding Procedures shall be initiated when-

i) The Visibility/RVR is less than 1200m and visibility/RVR is forecast to deteriorate to 800m or less; and/or
ii) The cloud ceiling is less than 400ft and forecast to fall to 200ft or less.

9.3 Safeguarding procedures include-

i) Positioning of 1 CFT and ambulance at the predetermined position (Fire approach road).
ii) Stopping of all maintenance works on the manoeuvring area, ILS sensitive and critical area as removal of all men and mobile equipment from the said area.
iii) Ensuring availability of secondary power supply for change over time of maximum one second for Runway Edge and Runway End lights supported by UPS/ DG.
iv) The appropriate Aeronautical ground lights must have been inspected during the hour preceding implementation of LVP, and thereafter once every two-hour period. These lighting inspections should be accorded priority and, if necessary, aircraft operations may be delayed.
Note- Runway Edge and Runway End lights may continue to operate on main power supply during safeguarding Procedures. Whenever, LVP is to be implemented as per para 10 below, the Runway Edge and Runway End lights shall be put on Standby Power Supply
(DG set or UPS). This operation needs to be completed before LVP is implemented. In case the Lights are running on DG set, Main power supply shall act as stand by power. If UPS is capable of maintaining the required AGL system with one second of Switch Over time with Main Supply, the main supply can continue to be primary supply and t he Generator Supply can be kept as Stand by Power supply.
v) Ensure all access roads are closed.

9.4 Process of initiation of Safeguarding Procedures-

i) When meteorological conditions meet the criteria for initiation of SP as stipulated in Para 7.2, the Tower Supervisor/ Duty Officer will initiate and co coordinate with Electrical team, CNS, Duty Terminal Manager and Fire Station for completion of safeguarding procedures before implementation of Low Visibility Procedures.

ii) When all the CCR(Electrical), SSO (CNS), Duty Terminal Manager and Fire Station have completed their necessary actions, they shall report to Tower Supervisor/Duty Officer that their Safeguarding Procedure (SP) is completed, and the airport is safeguarded for LVP operations.

10. LOW VISIBILITY OPERATIONS

Low Visibility Procedures are the procedures to ensure the safe operation of aircraft during periods of reduced visibility or low cloud base. LVP shall only be implemented when Safeguarding Procedure (SP) has been completed, and the airport is configured for low visibility operations.

10.1 Implementation of Low Visibility Procedures-

i) Whenever Visibility/RVR reduces to 800 Meters or below and/ or cloud ceiling is at 200 ft or below the Tower Supervisor/Duty Officer shall coordinate with CCR (Electrical), SSO (CNS), Duty Terminal Manager and Fire Station to confirm whether the Safeguarding procedures have been completed or not.
ii) Once, it is confirmed that Safeguarding Procedures are implemented and LVP is necessitated, the Tower Supervisor/Duty Officer will implement Low Visibility Procedures and shall inform CCR(Electrical), SSO (CNS), Duty Terminal Manager and Fire Station of the imposition of low visibility procedures.

10.2 Actions by Tower Controller

i) Whenever visibility/RVR is less than 800M/550M, Tower shall confirm from pilot that the reported RVR value is within minima before issuing take-off clearance
ii) Tower shall ensure only one aircraft movement on the manoeuvring area at a time.
iii) Tower shall not permit any high-power ground run on the manoeuvring area except idle power run on the stands.
iv) The number of the vehicles on the manoeuvring area shall be restricted to bare minimum and records of all operating on the manoeuvring area shall be maintained by Tower.
v) As ATIS is not available the duty officer (Tower) shall inform all aircrafts in contact "Low Visibility Procedures in Force" in contact regarding on VHF.

10.3 Actions by SSO (CNS)

10.3.1 On receipt of "Initiating SP" from Tower Supervisor/Duty Officer, SSO (CNS) will inform the Duty Officer, NAV AIDS and have the ILS equipment and its status indicators in ATC units checked up.
10.3.2 On receipt of "Initiating LVP" from Tower Supervisor/Duty Officer that LVP are to be made effective SSO(CNS) will maintain continuous watch on the performance of ILS equipment.
10.3.3 He will inform Tower Supervisor/Duty Officer of any unserviceability in the equipment which is likely to affect Low Visibility operations.

10.4 Actions by Duty Terminal Manager (Airside)

10.4.1 On receipt of advice from Tower Supervisor/Duty Officer to implement Safeguarding procedure, the Terminal Duty Manager, will immediately inform the following:
i) Central Industrial Security Force (CISF) Control Room.
ii) All airlines/GHA.
iii) Civil In-charge.

10.4.2 Duty Terminal Manager (Airside) shall ensure that-
i) No vehicle/person enters or is present in the sensitive/critical areas of localizer and glide path.
ii) All civil/electrical works in progress are to be stopped in the manoeuvring area immediately and men/material/ equipment to be removed from the sensitive/critical areas of localizer and glide path.

10.4.3 Duty Terminal Manager (Airside) would advise Tower Supervisor/Duty Officer when all actions allocated to them are completed.
10.4.4 Subsequently, Duty Terminal Manager shall remain available in apron and will maintain listening watch on Walkie-Talkie.

10.4.5 The vehicles which are not equipped with RT but has to enter the runway or taxiway for urgent operational requirement shall be escorted by follow me/vehicle equipped with RT at all times...

10.4.6 Duty Terminal Manager (Airside) shall ensure that all the roads are closed during the Low Visibility Operations, except the Fire approach road designated as PDPs.

10.5 Actions by Shift In-Charge (Civil)

10.5.1 Shift In-Charge (Civil) to ensure that all civil works in progress in manoeuvring area, are stopped and that the work area is restored in complete serviceable condition and confirm to Tower Supervisor/Duty Officer accordingly.
10.5.2 Shift In-Charge (Civil) to ensure that during Low Visibility Operations, no equipment, manpower shall be present in sensitive areas of localizer and glide path.
10.5.3 Shift In-Charge (Civil) to ensure that none of the civil contract workers/vehicles shall enter the manoeuvring area during the Low Visibility operations.

10.6 Actions by Shift In-Charge (Electrical)

10.6.1 On receipt of advice to implement Low Visibility Procedures from Tower Supervisor/Duty Officer, will check that following visual aids are serviceable and can be operated at full intensity:

i) Approach lighting system.
ii) Runway edge lights.
iii) Runway threshold and end lights.
iv) Runway guard lights.
v) Taxiway edge lights.

(NOTE - No adjustment in light intensity shall be made without permission from ATC Tower during LVP)

10.6.2 Shift In-Charge (Electrical) shall ensure that no electrical maintenance works is carried out during LVP either in powerhouse or on any other electrical facilities used during Low visibility operations.

10.6.3 Shift In-Charge (Electrical) will ensure that Runway switch room is manned and position themselves at halls for ground lighting facilities.
10.6.4 Shift In-Charge (Electrical) will inform the un-serviceability or any change in status of any facility/systems to Tower Supervisor/Duty Officer immediately.

10.7 Actions by ARFF/Fire Station

10.7.1 Positioning of 1 CFT and Ambulance at the predetermined positions (Fire approach road).
10.7.2 ARFF/ CFTs must obtain clearances from Tower prior to entry to any aircraft movement area.

10.8 Actions by Tower Met Officer (Meteorological Office)

10.8.1 Tower Met Officer would issue an 'Outlook for Low Visibility Procedures' to the Tower Supervisor/ Duty Officer of air traffic services whenever he expects that the RVR and/or cloud ceiling will fall below 800 m and/or 200ft or less respectively.
10.8.2 Whenever Tower Met Officer visualizes that RVR is likely to fall below 800 m and/or cloud ceiling to 200ft or less within next 2 hours, he will inform to Tower Supervisor/Duty Officer to this effect.
10.8.3 When the RVR and/or cloud ceiling are 800m and/or 200ft respectively and the trend is towards improvement in these elements of weather conditions the Duty Met Officer may, when requested by Tower Supervisor/Duty Officer, advise him about such improving weather conditions for the purpose of termination of LVP.
10.8.4 The Tower Met Officer shall be present in Tower during periods of reduced visibility and ensure that the RVR displays in ATC units in the Tower and Approach Control are serviceable.

11. **Termination of Low Visibility Procedures**

11.1 When Visibility/RVR improves to 800M or more and cloud ceiling is 200 feet or Higher and trend is for improvement, Tower Supervisor/Duty Officer Tower would terminate operations of LVP. He may obtain advice from Tower Met Officer regarding improvement in weather conditions before the termination of LVP.
11.2 As ATIS is not available, on termination of LVP, following message shall be broadcast by the duty officer (Tower) shall inform all aircrafts in contact “LOW VISIBILITY PROCEDURES TERMINATED” on VHF.

11.3 If SP are implemented and LVP are not subsequently implemented and the visibility/RVR improves and is more than 1200 m and/or the cloud ceiling is 400ft or higher and both are forecast to remain above the required SP criteria, Tower Supervisor/ Duty Officer Tower may cancel SP.

12. **Other Actions: -**

i) Every year before commencement of monsoon/winter season, a meeting will be held by Airport Director, to inform all airlines and agencies operating at airport about their roles/responsibilities and create awareness to ensure co-operation for safe airport operations during periods of low visibility.
ii) Before issuing the Airside drive permits, the OPS In charge shall ensure that staff and drivers are suitably trained for Low Visibility operations.
iii) All agencies operating in the operational area shall ensure that only those vehicles that are absolutely essential for aircraft operations operate in the operational area during periods of low visibility. The drivers of these vehicles should keep a look out for taxiing aircraft and other vehicles to prevent accidents.
iv) All the vehicles must have their obstruction lights "ON" during Low Visibility Procedures operations.
v) A refresher program for ATCO's and personnel responsible for airside operations shall be conducted every year.

VEBI AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VEBI AD 2.22 FLIGHT PROCEDURES

NIL

VEBI AD 2.23 ADDITIONAL INFORMATION

1. Only RWY22 (ILS Procedure is designed and approved for CAT A/B/C type ACFT) shall be used for all weather OPS.

VEBI AD 2.24 CHARTS RELATED TO AN AERODROME

1. Aerodrome Chart (07 August 2025)
2. Aircraft Parking / Docking Chart (07 August 2025)
3. Aerodrome Obstacle Chart Type-A (Operating Limitations) RWY 04 (07 August 2025)
4. Aerodrome Obstacle Chart Type-A (Operating Limitations) RWY 22 (07 August 2025)
5. Aerodrome Obstacle Chart Type-B (07 August 2025)
6. ILS Procedure RWY 22 (17 April 2025)
7. VOR Visual Circling Procedure (CAT A/B) (DME Required)
8. Standard Departure Chart Instrument (SID) RWY 04 (17 April 2025)

VEBI AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Procedure	Procedure Minima	VSS Penetration
1	2	3

VEBN AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	CTR: Circular area centered on 252704N 0825131E within a 30NM radius.
2	Vertical limits	FL 105
3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	Varanasi Tower / Varanasi Approach, English
5	Transition altitude	4000 FT
6	Hours of applicability	HO
7	Remarks	Micro light training flight activity 5NM east south east Banaras Hindu University airfield. Lower limit: GND, Upper limit: 1000FT AMSL.

VEBN AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	**2**	**3**	**4**
APP	Varanasi Approach	119.000 MHZ	
APP	Varanasi Approach	123.875 MHZ	
TWR	Varanasi Tower	118.100 MHZ	
TWR	Varanasi Tower	119.000 MHZ	
ATIS	Varanasi Information	126.200 MHZ	
ACC	Varanasi Control/ Radar	118.950 MHZ	
ACC	Varanasi Control/ Radar	119.275 MHZ	
ACC	Varanasi Control/ Radar	119.275 MHZ	
ACC	Varanasi Control/ Radar	128.150 MHZ	
ALRS	-----	121.500 MHZ	
SMC	Varanasi Ground	121.625 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	**6**	**7**
	AS ATS	SDBY
	AS ATS	NIL
	AS ATS	When Tower and Approach is combined Main Fequancy-118.1 MHz Standby Frequancy-119.0 MHz
	AS ATS	SDBY - When Tower and Approach is combined Main Fequancy-118.1 MHz Standby Frequancy-119.0 MHz
	AS ATS	NIL
	H24	NIL
	H24	RSR (N) SDBY
	H24	RSR (S) SDBY
	H24	RSR (N)
	H24	NIL

Logon address, as appropriate	Hours of operation	Remarks
	H24	Main Frequency

VEBN AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aids, magnetic variation and type of supported operation for ILS/ MLS, basic GNSS, SBAS and GBAS, and for VOR/ILS/MLS station used for technical lineup of the aid	Identification	Frequency(ies), Channel number(s), Service provider, and reference path identifier(s) (RPI), as appropriate	Hours of operation, as appropriate;
1	2	3	4
LOC 27 CAT I	IVNS	109.900 MHz	AS ATS
GP 27	IVNS	333.800 MHz	AS ATS
DME ILS 27	IVNS	CH36X	AS ATS
DVOR/DME	BBN	113.900 MHz CH86X	H24

Geographical coordinates of the position of the transmitting antenna	Elevation of transmitting antenna of DME/ elevation of GBAS reference point	Service volume radius from the GBAS reference point	Remarks
5	6	7	8
252710.5N 0825044.1E			
252701.8N 0825220.3E			1. GLIDE ANGLE: 3.0 DEG 2. GP COVERAGE RESTRICTED TO 06 DEG ON 90 SIDE AT 10NM AT 2000FT ABV THR
252701.6N 0825220.3E	288 FT		Vertical Datum: EGM08
252715.2N 0825134.2E	294 FT		1. DME Collocated with DVOR 2. Vertical Datum: EGM08

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM08)	Marking/LGT	Remarks
35/TKOF 17/APCH	POLE	220004.0N 0820636.6E	948 FT	NO	Rail OHE Pole
35/TKOF 17/APCH	OTHER	220021.3N 0820618.8E	996 FT	LGTD	Over Head Water Tank
35/TKOF 17/APCH	OTHER	220022.0N 0820620.0E	999 FT	LGTD	Over Head Water Tank
In circling area and at AD	OTHER	215923.3N 0820641.6E	924 FT	LGTD	WDI
In circling area and at AD	BUILDING	220000.5N 0820640.0E	955 FT	NO	Building
In circling area and at AD	OTHER	215855.7N 0820650.1E	891 FT	NO	Airport Fencing
In circling area and at AD	POLE	215855.3N 0820649.7E	892 FT	NO	Light Pole
In circling area and at AD	OTHER	215856.4N 0820651.0E	896 FT	NO	Mobile Road Traffic (Road Elev.=268m +5m Mobile Traffic)
In circling area and at AD	TREE	215859.2N 0820648.6E	897 FT	NO	Group of Trees
In circling area and at AD	TREE	215857.5N 0820649.4E	897 FT	NO	Group of Trees
In circling area and at AD	OTHER	215923.0N 0820643.2E	918 FT	LGTD	Met Instrument
In circling area and at AD	TREE	215856.8N 0820649.5E	901 FT	NO	Group of Trees
In circling area and at AD	OTHER	220600.7N 0821108.4E	1416 FT	NO	Doordarshan Tower

VEBU AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Name of the associated meteorological office	AMS Bilaspur
2	Hours of service and, where applicable, the designation of the responsible meteorological office outside these hours	As ATS, Current weather observation will be recorded during off hours of Airport operation.
3	Office responsible for preparation of TAFs and periods of validity and interval of issuance of the forecasts	TBN
4	Availability of the trend forecast for the aerodrome and interval of issuance	Trend Available
5	Information on how briefing and/or consultation is provided	TBN
6	Types of flight documentation supplied and language(s) used in flight documentation	TBN
7	Charts and other information displayed or available for briefing or consultation	TBN
8	Supplementary equipment available for providing information on meteorological conditions, e.g. weather radar and receiver for satellite images;	TBN
9	The air traffic services unit(s) provided with meteorological information	Bilaspur ATS
10	Additional information, e.g. concerning any limitation of service.	NIL

VEBU AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations	TRUE Bearings	Dimensions of RWY (M)	Strength of pavement (PCN) and associated data) and surface of runway and associated stopways	Geographical coordinates for threshold and runway end
1	2	3	4	5
17	167.81 DEG	1439 x 30 M	42/F/A/W/T Asphalt	THR: 215942.02N 0820635.46E RWY END: 215856.28N 0820646.05E
35	347.81 DEG	1439 x 30 M	42/F/A/W/T Asphalt	THR: 215856.28N 0820646.05E RWY END: 215943.64N 0820635.08E

THR elevation and highest elevation of TDZ of precision APP RWY	Slope of runway and associated stopway	Dimensions of stopway (M)	Dimensions of clearway (M)	Dimensions of strips (M)
6	7	8	9	10
THR: 906.0FT TDZ: 906.0FT	0.47%	NIL	NIL	1559 x 280 M
THR: 884.0FT TDZ: 894.0FT	-0.49%	NIL	NIL	1559 x 280 M

Dimensions of runway end safety areas	Location and description of arresting system (if any)	Existence of an obstacle-free zone	Remarks.
11	12	13	14
240M x 60M		YES	Vertical Reference System: EGM08
90M x 60M		YES	Vertical Reference System: EGM08

VEBU AD 2.13 DECLARED DISTANCES

RWY Designator	Take-off run available TORA (M)	Take-off distance available TODA (M)	Accelerate distance available ASDA (M)	Landing distance available LDA (M)	Remarks (including runway entry or start point where alternative reduced declared distances have been declared)
1	2	3	4	5	6
17	1439	1439	1439	1439	IFR flights are permitted to land on RWY 35 and take-off from RWY 17 only
35	1439	1439	1439	1439	IFR flights are permitted to land on RWY 35 and take-off from RWY 17 only

VEBU AD 2.14 APPROACH AND RUNWAY LIGHTING

Runway Designator	Type, length and intensity of approach lighting system	Runway threshold lights, colour and wing bars	Type of visual slope indicator system	Length of runway touchdown zone lights
1	2	3	4	5
17	NIL	NIL	PAPI LEFT/3.00 DEG	
35	SALS LIH	Green Wing Bars not available	PAPI LEFT/3.00 DEG	

Length, spacing, colour and intensity of runway centre line lights	Length, spacing, colour and intensity of runway edge lights	Colour of runway end lights and wing bars	Length and colour of stopway lights	Remarks
6	7	8	9	10
	1439 M 59 M White LIH	Red		NIL
	1439 M 59 M White LIH	Red		NIL

VEBU AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Location, characteristics and hours of operation of aerodrome beacon/identification beacon (if any)	ABN	At ATC Tower FLASHES W&G; 20-30 RPM; As ATS HR
		IBN	NIL
2	Location and lighting (if any) of anemometer/ landing direction indicator;	LDI	Abeam TWY A; Illuminated.
		Anemometer	At the Met observatory
3	Taxiway edge and taxiway centre line lights;	Edge	Available
		Centre Line	Not Available
4	Secondary power supply including switch-over time;	Available within 15 seconds	
5	Remarks	NIL	

VEBU AD 2.16 HELICOPTER LANDING AREA

1	Geographical coordinates of the geometric centre of touchdown and lift-off (TLOF) or of each threshold of final approach and take-off (FATO) area	Not established
2	TLOF and/or FATO area elevation:	---
3	TLOF and FATO area dimensions to the nearest metre or foot, surface type, bearing strength and marking;	---
4	True bearings of FATO;	---
5	Declared distances available	---
6	Approach and FATO lighting;	---
7	Remarks	---

VEBU AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	CTR: Circular area centered on 215939N 0820655E within a 20NM radius.
2	Vertical limits	FL 65
3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	Bilaspur Tower, English
5	Transition altitude	5000 FT
6	Hours of applicability	HO
7	Remarks	1. CTR available only during published watch hrs. 2. Beyond hours of operations airspace classification is Class G.

AD 2. AERODROMES

VECC AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VECC - NETAJI SUBHASH CHANDRA BOSE INTERNATIONAL AIRPORT, KOLKATA

VECC AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	Aerodrome reference point coordinates and its site	223914N 0882648E M. Brg. 02.32 DEG/ 1303M from physical beginning of RWY 01R	
2	Direction and distance of aerodrome reference point from the center of the city or town which the aerodrome serves	045 DEG/15KM from Howrah Railway Station	
3	Aerodrome elevation and reference temperature	20 FT / 36.0 DEG C	
4	Magnetic variation, date of information and annual change	0.50 DEG W (2010) /0.00	
5	Name of aerodrome operator, address, telephone, telefax, e-mail address, AFS address, website (if available)	Airports Authority of India Netaji Subash Chandra Bose International Airport, Kolkata -700052.,	
		Telephone:	(91) 33 25119944
		Fax:	
		AFS:	VECCYUYU
		Email:	apdkolkata@aai.aero
6	Types of traffic permitted (IFR/VFR)	IFR/VFR	
7	Remarks	Geoid Model : EGM 08	

VECC AD 2.3 OPERATIONAL HOURS

1	Aerodrome Operator	MON-FRI 0400-1230 UTC (0930-1800 IST) Sat, Sun and Hol : Nil
2	Custom and immigration	H24
3	Health and sanitation	H24
4	AIS briefing office	H24
5	ATS reporting office (ARO)	H24
6	MET Briefing office	H24
7	Air Traffic Service	H24
8	Fuelling	H24
9	Handling	H24
10	Security	H24
11	De-icing	NIL

12	Remarks	1. The approved hourly runway traffic handling capacity is as follows: (i) Peak capacity when runway 19L/01R in use: Maximum number of Arrival and Departure- 39 Maximum number of Arrival only – 27 Maximum number of Departure only -30 (ii) Peak capacity when runway 19R in use: Maximum no of Arrival & Departure - 29 (12 Arrivals & 11 Departures) Maximum no of Arrival only - 18 Maximum no Departure only- 30 (iii) Peak Capacity when runway 01L in use: Maximum no of Arrival & Departure - 25 (11 Arrivals & 11 Departures) Maximum no of Arrival only- 16 Maximum no Departure only – 30 2. Peak capacity during Low visibility procedures: (i) Peak capacity when RWY 19L is in use: Maximum number of Arrival & Departure: 20 (10A/10D) Maximum number of Arrival only: 15 Maximum number of Departure only: 20 (ii) Peak capacity when RWY 01R is in use: Maximum number of Arrival & Departure: 22 (11A/11D) Maximum number of Arrival only: 15 Maximum number of Departure only: 20

VECC AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	Upto 12 Tons Handling Possible.
2	Fuel and Oil types	i) Indian Oil Aviation – AVGAS 100LL and (ATF) JET A-1 fuel available ii) BPCL- ATF JET A-1 fuel available. iii) HPCL- ATF JET A-1 fuel available. iv) Reliance BP Mobility Limited – ATF JET A-1 fuel available v) MWM 45.55 MJO II not in possession at AIESL, Kolkata (Centralized at AIESL, DEL) and airlines to make their own arrangements.
3	Fuelling facilities and capacity	i) Indian Oil – Refuelling rate of oil bowsers 1000 litre/min. ii) BPCL – Refuelling rate:1000 litre/min for 15 KL refuellers and 2000 litre/min for more than 23 KL refuellers. iii) HPCL – Refuelling rate: 1500 litre/min and above. iv) Reliance BP Mobility Limited – 1000 litre/min.
4	De-icing facilities	NIL
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	Available For A321/A320/A319 & B737-800 & ATR - 72 Type Of Aircraft, with AIESL. Requiring Prior Arrangements
7	Remarks	At NSCBI Airport, Kolkata, Ground Handling Service provided by: 1. Air India Airport Services Limited, Email: nonsechdule.ccu@aiasl.in; Contact: +91 9674 567 891 / +91 33 2831 8469 2. Indothai Kolkata Private Limited, E-mail: indothaiccu@indothai.in; Contact: +91 9073 964 055 / +91 33 25118100

VECC AD 2.5 PASSENGER FACILITIES

1	Hotel(s) at or in the vicinity of aerodrome	Near The AD and in the city.

2	Restaurant(s) at or in the vicinity of aerodrome	At AD and in the city.
3	Transportation possibilities	Taxis, Buses from AD.
4	Medical Facilities	First aid at AD. Hospitals in the city.
5	Bank and post office at or in the vicinity of aerodrome	Banks: At AD. Open H24. Post office: At AD. Open H24.
6	Tourist office	At AD and in the City
7	Remarks	NIL

VECC AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	Aerodrome category for fire fighting	Within ATS HR: CAT-9
2	Rescue equipment	AVBL. as per category
3	Capability for removal of disabled aircraft	1. The critical aircraft for the airport is B777-300-ER. 2. Primary responsibility for removal of disabled aircraft rests with the concerned airline. 3. The airlines may contact 'Aerodrome Coordinator for Disabled Aircraft Removal Operations for coordinating with the agencies having Disabled Aircraft Recovery Kit. 4. Contact Details of Aerodrome Coordinator for Disabled Aircraft Removal Operations: Airport Director, AAI, NSCBI Airport, Kolkata Contact No : 9830037890, 033-25119977 Email : apdkolkata@aai.aero
4	Remarks	The emergency access road is running parallel at a distance of 105 meter from the centreline of main runway (19L-01R) in the eastern side and connected with main runway for approaching of CFTs from Main Fire station. The road is rigid pavement having width of 9.5 meter including shoulder on both side.

VECC AD 2.7 SEASONAL AVAILABILITY CLEARING

1	Type(s) of clearing equipment	NIL
2	Clearance priorities	NIL
3	Remarks	NIL

VECC AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Refer Aircraft Parking/Docking Chart.Designation, surface and strength of aprons
2	Refer Aircraft Parking/Docking Chart.Designation, width, surface and strength of taxiways
3	NILLocation and elevation of altimeter checkpoints
4	At TWY A: 223941.08N 0882650.97E / ELEV: 15 FT. EGM-08Location of VOR checkpoints
5	NILPosition of INS checkpoints

6	Remarks	**1. Coordinates of RWY Holding Position**		
		TWY	**COORDINATES**	**ELEVATION (FT)**
		TWY A for RWY 01L	223811.53036N 0882633.69182E	17
		TWY A for RWY 19R	223932.16983N 0882643.06667E	19
		TWY A RWY 19R (PATTERN B)	223930.94851N 0882642.27664E	19
		TWY A RWY 19L	223941.01185N 0882651.65547E	15
		TWY B RWY 19L	223923.28964N 0882649.53508E	16
		TWY B RWY 19R	223922.47721N 0882642.01432E	18
		TWY C RWY 19L	223847.06515N 0882645.32196E	16
		TWY C RWY 19L (PATTERN B)	223847.17576N 0882644.24210E	17
		TWY C RWY 19R	223847.82287N 0882637.93000E	18
		TWY D RWY 01R	223833.28840N 0882644.13848E	16
		TWY D RWY 01R (PATTERN B)	223832.55497N 0882642.28907E	16
		TWY D RWY 01L	223829.99432N 0882635.84633E	16
		TWY E	223900.20951N 0882639.34202E	17
		TWY H	223824.37288N 0882635.13740E	16
		TWY J	223815.02174N 0882634.06935E	16
		TWY K	223957.97371N 0882653.32873E	17
		TWY P	224023.84710N 882656.48922E	16
		TWY N	223956.48785N 882645.90769E	15
		2. Geoid Model : EGM 08		

VECC AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand identification signs, taxiway guidelines and visual docking/parking guidance system at aircraft stands	For Aircraft stand identification sign & SVDGS, Refer AD 2.23 Taxiway guideline marking available on all Taxiways. Appropriate signages available.

2	Runway and taxiway markings and lights	RWY19L/01R Markings: Designation, Aiming Point, THR, TDZ, Centreline, Side Strip, Chevron Marking, Runway Turn pad and Displaced THR. RWY 19L Lights: CAT-III Approach, Centreline, TDZ, THR, wing bar, RWY edge, RWY end. RWY 01R Lights: CAT-III Approach, Centreline, TDZ, THR, wing bar, RWY edge, RWY end PAPI. RWY19R/01L Markings: Designation, Aiming Point, THR, TDZ, Centreline, Side Strip, Runway Turn pad and Displaced THR. RWY 19R Lights: CAT-I Approach, THR, RWY edge, RWY end and Runway Turn pad PAPI. RWY 01L Lights: Simple Approach, THR, RWY edge and RWY end PAPI. TWY Markings: Centreline, Edge, Holding Position, Fillet. TWY Lights: Centreline lights on TWYs A, D, F, F1, F2, J1, H1, L, N1, N2, N3, N4, N, P, Q1, Q2 and R1. TWY Edge lights on all taxiways except TWY G, M, F, F1, F2, N1, N2, N3, N4, A1 and for TWY P on curves.
3	Stop bars (if any)	Available on TWY D, A, C and P
4	Remarks	Runway Guard lights have been provided for primary runway at CAT I holding positions on taxiways A, B, C, D, K and P. Intermediate Holding Position (IHP) lights have been provided on the following taxiways: i. F1 Short of junction of F1, F2, H1, J1 ii. F2 Short of junction of F1, F2, H1, J1 iii. H1 Short of junction of F1, F2, H1, J1 iv. J1 Short of junction of F1, F2, H1, J1 v. A North of junction of A & D vi. A South of junction of A & D vii. A North of junction of A, H & H1 viii. A South of junction of A & H1. ix. A Short of 19R/01L near Cat II holding position x. N1 South of junction of N & N1, N2, N3, N4 xi. N2 South of junction of N & N1, N2, N3, N4 xii. N3 South of junction of N & N1, N2, N3, N4 xiii. N4 South of junction of N & N1, N2, N3, N4 xiv. N Short of 19R GP antenna on the southern side xv. P North of junction of P & N

VECC AD 2.10 AERODROME OBSTACLES

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
19R/TKOF 01L/APCH	BUILDING	223725.2N 0882635.9E	109 FT	NIL	Big Bazaar Building
19R/TKOF 01L/APCH	BUILDING	223740.3N 0882642.4E	94 FT	NIL	Building
19R/TKOF 01L/APCH	BUILDING	223735.8N 0882636.1E	85 FT	NIL	Building
19R/TKOF 01L/APCH	BUILDING	223757.9N 0882633.1E	51 FT	NIL	Building
19R/TKOF 01L/APCH	BUILDING	223757.7N 0882633.9E	49 FT	NIL	Building
19R/TKOF 01L/APCH	BUILDING	223751.6N 0882639.6E	72 FT	NIL	Building
19R/TKOF 01L/APCH	BUILDING	223757.6N 0882637.3E	43 FT	NIL	Building
19R/TKOF 01L/APCH	BUILDING	223758.8N 0882634.9E	54 FT	NIL	Building
19R/TKOF 01L/APCH	BUILDING	223758.4N 0882638.3E	45 FT	NIL	Building
19R/TKOF 01L/APCH	BUILDING	223755.7N 0882632.8E	48 FT	NIL	BUILDING
19R/TKOF 01L/APCH	BUILDING	223750.0N 0882641.9E	72 FT	NIL	Building
19R/TKOF 01L/APCH	BUILDING	223744.7N 0882639.5E	82 FT	NIL	Building
19R/TKOF 01L/APCH	BUILDING	223745.7N 0882641.3E	68 FT	NIL	Building
19R/TKOF 01L/APCH	BUILDING	223741.6N 0882642.3E	71 FT	NIL	Building
19R/TKOF 01L/APCH	BUILDING	223745.7N 0882642.4E	65 FT	NIL	Building
19R/TKOF 01L/APCH	BUILDING	223744.1N 0882641.3E	67 FT	NIL	BUILDING
19R/TKOF 01L/APCH	BUILDING	223745.3N 0882640.7E	68 FT	NIL	Building
19R/TKOF 01L/APCH	BUILDING	223737.8N 0882642.4E	86 FT	NIL	BUILDING
19R/TKOF 01L/APCH	BRIDGE	223737.6N 0882636.5E	82 FT	NIL	Building
19R/TKOF 01L/APCH	BUILDING	223742.6N 0882641.9E	91 FT	NIL	Building
19R/TKOF 01L/APCH	BUILDING	223743.8N 0882640.3E	83 FT	NIL	Building
19R/TKOF 01L/APCH	BUILDING	223740.3N 0882638.3E	90 FT	NIL	BUILDING
19R/TKOF 01L/APCH	BUILDING	223744.0N 0882636.9E	80 FT	NIL	Building
19R/TKOF 01L/APCH	BUILDING	223742.9N 0882636.7E	82 FT	NIL	Building
19R/TKOF 01L/APCH	BUILDING	223736.4N 0882635.2E	86 FT	NIL	Building
19R/TKOF 01L/APCH	BUILDING	223752.4N 0882635.1E	55 FT	NIL	BUILDING

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	BUILDING	223720.6N 0882804.8E	168 FT	NIL	Building
In circling area and at AD	BUILDING	223715.4N 0882807.3E	172 FT	NIL	Building (Hiland Woods Apartment)
In circling area and at AD	BUILDING	223900.9N 0882622.8E	188 FT	NIL	New ATC Building U/C
In circling area and at AD	BUILDING	223717.7N 0882805.5E	279 FT	NIL	Building (Akanksha)
In circling area and at AD	BUILDING	224052.4N 0882745.3E	169 FT	NIL	Building
In circling area and at AD	OTHER	223718.1N 0882714.2E	173 FT	NIL	LC Rod Building (Building Top 49.0m)
In circling area and at AD	TOWER	222943.1N 0882139.1E	613 FT	NIL	TV Tower
In circling area and at AD	OTHER	223254.1N 0882059.0E	850 FT	NIL	Lightning Arrester on Building (Building Top 255.1m)

VECC AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Name of the associated meteorological office	AMO Kolkata
2	Hours of service and, where applicable, the designation of the responsible meteorological office outside these hours	H24
3	Office responsible for preparation of TAFs and periods of validity and interval of issuance of the forecasts	Kolkata 9, 30HR
4	Availability of the trend forecast for the aerodrome and interval of issuance	Trend Trend Type landing forecast appended with each METAR / SPECI
5	Information on how briefing and/or consultation is provided	Provided, , through Documentation and OLBS
6	Types of flight documentation supplied and language(s) used in flight documentation	Chart And Tabular English
7	Charts and other information displayed or available for briefing or consultation	1. WAFC Products: Data for upper wind & temperature for levels: 850 h.Pa, 700 h.Pa, 500 h.Pa, 300 h.Pa, 250 h.Pa, 200 h.Pa, 150 h.Pa, SIG Wx charts for FL 100 - 250 & for FL 250 - 630. 2. National Charts for consultation only. Surface charts, synoptic upper air charts for levels: 100, 150, 200, 250, 300, 400, 500, 600, 700, 850 hPa, prognostic upper air charts at constant pressure, prognostic significant weather chart, DWR products / Satellite imagery.
8	Supplementary equipment available for providing information on meteorological conditions, e.g. weather radar and receiver for satellite images;	RS / RW Ascent, Transmissometer at TDZ 19L, TDZ 19R, MID 19L, TDZ 01R, MID 01R, END 19L & END 01R, AWOS at TDZ 19L & TDZ 01R, Radar & Satellite Picture
9	The air traffic services unit(s) provided with meteorological information	Kolkata ATC, ATS and ACC
10	Additional information, e.g. concerning any limitation of service.	Ceilometer at Runway 01R End operational .

VECC AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations	TRUE Bearings	Dimensions of RWY (M)	Strength of pavement (PCN) and associated data) and surface of runway and associated stopways	Geographical coordinates for threshold and runway end
1	2	3	4	5
01L	6.20 DEG	3271 x 45 M	85/F/B/W/T Asphalt	THR: 223824.95N 0882638.43E RWY END: 223956.50N 0882649.16E
19R	186.20 DEG	3271 x 45 M	85/F/B/W/T Asphalt	THR: 223953.65N 0882648.82E RWY END: 223810.79N 0882636.78E
01R	6.20 DEG	3633 x 45 M	82/F/A/W/T Asphalt	THR: 223831.95N 0882646.76E RWY END: 224029.36N 0882700.51E
19L	186.20 DEG	3633 x 45 M	82/F/A/W/T Asphalt	THR: 224015.57N 0882658.89E RWY END: 223831.95N 0882646.76E

THR elevation and highest elevation of TDZ of precision APP RWY	Slope of runway and associated stopway	Dimensions of stopway (M)	Dimensions of clearway (M)	Dimensions of strips (M)
6	7	8	9	10
THR: 18.0FT TDZ: 19.0FT		NIL	NIL	3391 x 266 M
THR: 17.0FT TDZ: 19.0FT		NIL	NIL	3391 x 266 M
THR: 18.0FT TDZ: 19.0FT		NIL	NIL	3753 x 300 M
THR: 18.0FT TDZ: 19.0FT		NIL	NIL	3753 x 300 M

Dimensions of runway end safety areas	Location and description of arresting system (if any)	Existence of an obstacle-free zone	Remarks.
11	12	13	14
165M x 90M	NIL	AVBL	1. PCN from junction of TWY H to TWY A End (RWY 01L beginning rigid portion): 103/R/B/W/T, Surface: concrete; PCN from Taxi H Junction to TWY A Junction including turn pad at RWY 01L: 85/F/B/W/T, Surface: Bitumen; PCN from TWY A junction to RWY 19R end including turn pad at RWY 19R: 87/F/B/W/T, Surface: Bitumen. 2. Slope: -0.33% (0 to 60M), +0.14% (60m to 360m), -0.17% (420m to 780m), +0.1% (780m to 1380m), -0.04% (1380m to 1830m), +0.14% (1830m to 2190m), - 0.07% (2190m to 3271m) 3. Geoid Model : EGM 08
220M x 90M		AVBL	1. Overall RWY Slope: (-)0.006% 2. Geoid Model: EGM 08
240M x 90M		AVBL	1. PCN from junction of TWY B to RWY 01R end: 82/F/A/W/T, Surface: Bitumen; PCN from Junction of TWY B to TWY A junction: 90/F/A/W/T, Surface: Bitumen; PCN from junction of TWY A to RWY 19L end: 107/F/A/W/T, Surface: Bitumen; PCN of turn pad at RWY 19L: 96/R/A/W/T, Surface: concrete. 2. Slope: +0.12% (0 to 330m), -0.07% (330m to 2100m), +0.15% (2100m to 2850m), -0.1% (2850m to 3633m) 3. Geoid Model: EGM 08
240M x 90M		AVBL	1. Overall RWY Slope: (-) 0.01% 2. Geoid Model: EGM 08

VECC AD 2.13 DECLARED DISTANCES

RWY Designator	Take-off run available TORA (M)	Take-off distance available TODA (M)	Accelerate distance available ASDA (M)	Landing distance available LDA (M)	Remarks (including runway entry or start point where alternative reduced declared distances have been declared)
1	2	3	4	5	6
01L	3271	3271	3271	2833	RWY displaced by 438M.
19R	3271	3271	3271	3183	RWY displaced by 88M.
01R	3633	3633	3633	3633	
19L	3633	3633	3633	3207	RWY displaced by 426M.

VECC AD 2.14 APPROACH AND RUNWAY LIGHTING

Runway Designator	Type, length and intensity of approach lighting system	Runway threshold lights, colour and wing bars	Type of visual slope indicator system	Length of runway touchdown zone lights
1	2	3	4	5
01L	SALS 420 M LIH	Green Wing Bar - NIL	PAPI LEFT/3.00 DEG MEHT (50.00FT)	
19R	CAT I 900 M LIH	Green Wing Bar - NIL	PAPI LEFT/3.00 DEG MEHT (50.00FT)	
01R	CAT III 900 M LIH	Green Wing Bar- Available	PAPI LEFT/3.00 DEG MEHT (50.00FT)	900 M
19L	CAT III 900 M LIH	Green Wing Bar- Available	PAPI LEFT/3.00 DEG MEHT (50.00FT)	900 M

Length, spacing, colour and intensity of runway centre line lights	Length, spacing, colour and intensity of runway edge lights	Colour of runway end lights and wing bars	Length and colour of stopway lights	Remarks
6	7	8	9	10
	3271 M 60 M Variable white LIH	Red		1. APCH with cross bar at 300M.
	3271 M 60 M Variable white LIH	Red		1. Last 600M of runway edge lights amber.
3633 M 15 M LIHVariable White	3633 M 60 M Variable white LIH	Red		1. Runway Centreline lights Last 900m to 300m from RWY end alternate red & variable white Red for last 300m from RWY end 2. Last 600M of Runway Edge lights amber.
3633 M 15 M LIHVariable White	3633 M 60 M Variable white LIH	Red		1. RWY Centreline lightsLast 900m to 300m from RWY end alternate red & variable white Red for last 300m from RWY end 2. Last 600M ofrunway edge lights amber. 3. Inset Turn Pad Lights on Runway 19L Available InSingle Circuit with Turn Pad Edge Light

VECC AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Location, characteristics and hours of operation of aerodrome beacon/identification beacon (if any)	ABN	Installed on the top of ATC tower; Beam colour- Green & White; 24-30 flashes per minutes; H-24 H24
		IBN	NIL
2	Location and lighting (if any) of anemometer/ landing direction indicator;	LDI	Available
		Anemometer	1. 390 M from THR19L, Lighted 2. 300 M from THR01R, Lighted (Both 1&2 located North of RWY 19L / 01R)
3	Taxiway edge and taxiway centre line lights;	Edge	All Taxiways except TWY-G, M, F, F1, F2, N1, N2, N3, N4, A1 and P on curves.
		Centre Line	ON TWYs A,D, F, F1, F2, J1,H1, L, N1, N2, N3, N4, N, P, Q1, Q2 and R1
4	Secondary power supply including switch-over time;	Secondary power supply to all air field lighting. Switch-over time : CAT-I 15 SEC CATII/III 1 sec.	
5	Remarks		

VECC AD 2.16 HELICOPTER LANDING AREA

1	Geographical coordinates of the geometric centre of touchdown and lift-off (TLOF) or of each threshold of final approach and take-off (FATO) area	Not Established
2	TLOF and/or FATO area elevation:	Not Established
3	TLOF and FATO area dimensions to the nearest metre or foot, surface type, bearing strength and marking;	Not Established
4	True bearings of FATO;	Not Established
5	Declared distances available	Not Established
6	Approach and FATO lighting;	Not Established
7	Remarks	Not Established

VECC AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	CTR: Circular area centered on 223914N 0882648E within a 25NM radius.
2	Vertical limits	FL 50
3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	Kolkata Tower / Kolkata Radar, English
5	Transition altitude	4000 FT
6	Hours of applicability	H24
7	Remarks	Airspace from 4000 FT AMSL and above is Classified as Class ‘C’.

VECC AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	2	3	4
OAC	KOLKATA CONTROL	123.775 MHZ	SHORT CODE : 441921 PSTN: 00918991117566 SATVOICE AVBL WITH WSO: SHORT CODE : 441902 PSTN: 00913325119520
OAC	KOLKATA CONTROL	128.300 MHZ	SHORT CODE : 441921 PSTN: 00918991117566 SATVOICE AVBL WITH WSO: SHORT CODE : 441902 PSTN: 00913325119520
OTHER	Kolkata Delivery	121.625 MHZ	
FIS	Kolkata Information	127.175 MHZ	
SAR	-	123.100 MHZ	SHORT CODE : 441932 PSTN NUMBER : 00918991117567
APP	Kolkata Radar	119.300 MHZ	
APP	Kolkata Radar	120.025 MHZ	
APP	Kolkata Radar	120.675 MHZ	
APP	Kolkata Radar	126.075 MHZ	
APP	Kolkata Radar	127.300 MHZ	
APP	Kolkata Radar	127.900 MHZ	
TWR	Kolkata Tower	118.025 MHZ	
TWR	Kolkata Tower	118.100 MHZ	
ATIS	Kolkata Information	126.400 MHZ	
ACC	Kolkata Radar	120.100 MHZ	
ACC	Kolkata Radar	120.575 MHZ	
ACC	Kolkata Radar	120.700 MHZ	
ACC	Kolkata Radar	124.650 MHZ	
ACC	Kolkata Radar	125.775 MHZ	
ACC	Kolkata Radar	125.900 MHZ	
ACC	Kolkata Radar	126.100 MHZ	
ACC	Kolkata Radar	127.525 MHZ	
ACC	Kolkata Radar	132.250 MHZ	
ACC	Kolkata Radar	132.350 MHZ	
ACC	Kolkata Radar	133.750 MHZ	
ALRS	---------	121.500 MHZ	
SMC	Kolkata Ground	121.725 MHZ	

VECT AD 2.16 HELICOPTER LANDING AREA

1	Geographical coordinates of the geometric centre of touchdown and lift-off (TLOF) or of each threshold of final approach and take-off (FATO) area	Not Established
2	TLOF and/or FATO area elevation:	Not Established
3	TLOF and FATO area dimensions to the nearest metre or foot, surface type, bearing strength and marking;	Not Established
4	True bearings of FATO;	Not Established
5	Declared distances available	Not Established
6	Approach and FATO lighting;	Not Established
7	Remarks	NIL

VECT AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	CTR: Circular area centered on 250929N 0805527E within a 10NM radius.
2	Vertical limits	FL 55
3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	Chitrakoot TWR, English
5	Transition altitude	4000 FT
6	Hours of applicability	HO
7	Remarks	1. CTR available only during notified operational hours of Chitrakoot. 2. Beyond operational hours the airspace classification is Class G.

VECT AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	**2**	**3**	**4**
APP	Chitrakoot Tower	118.500 MHZ	
APP	Chitrakoot Tower	122.250 MHZ	
TWR	Chitrakoot TWR	118.500 MHZ	
TWR	Chitrakoot TWR	122.250 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	**6**	**7**
	HO	1. Main Freq 2. Functions of Approach combined with Tower
	HO	1. Backup Freq 2. Functions of Approach combined with Tower
	HO	1. Main Frequency
	HO	1. Backup Frequency

VECT AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aids, magnetic variation and type of supported operation for ILS/ MLS, basic GNSS, SBAS and GBAS, and for VOR/ILS/MLS station used for technical lineup of the aid	Identification	Frequency(ies), Channel number(s), Service provider, and reference path identifier(s) (RPI), as appropriate	Hours of operation, as appropriate;
1	2	3	4

Geographical coordinates of the position of the transmitting antenna	Elevation of transmitting antenna of DME/ elevation of GBAS reference point	Service volume radius from the GBAS reference point	Remarks
5	6	7	8

VECT AD 2.20 LOCAL AERODROME REGULATIONS

NIL

VECT AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VECT AD 2.22 FLIGHT PROCEDURES

NIL

VECT AD 2.23 ADDITIONAL INFORMATION

NIL

VECT AD 2.24 CHARTS RELATED TO AN AERODROME

1. Aerodrome Chart (27 November 2025)
2. Aircraft Parking/Docking Chart (27 November 2025)
3. Aerodrome Obstacle Chart Type A (Operating Limitations) RWY 06 (27 November 2025)
4. Aerodrome Obstacle Chart Type A (Operating Limitations) RWY 24 (27 November 2025)
5. Aerodrome Obstacle Chart Type B (27 November 2025)

VECT AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Procedure	Procedure Minima	VSS Penetration
1	2	3

2	Rescue equipment	Available as per category.
3	Capability for removal of disabled aircraft	1. The critical aircraft for the airport is A321-200 NEO. 2. Primary responsibility for removal of disabled aircraft rests with the concerned airline. 3. The airlines may contact 'Aerodrome Coordinator for Disabled Aircraft Removal Operations' for coordinating with the agencies having Disabled Aircraft Recovery Kit. 4. Contact Details of Aerodrome Coordinator for Disabled Aircraft Removal Operations: [Aerodrome Coordinator:Mr. Sanjeev Kumar Gupta, Head-Operations, Guwahati International Airport Limited. Contact details.:+91 9029266499 Email:sanjeev.gupta@adani.com, arff.gau@adani.com
4	Remarks	NIL

VEGT AD 2.7 SEASONAL AVAILABILITY CLEARING

1	Type(s) of clearing equipment	Manual sweeping and Runway Sweeper Machine
2	Clearance priorities	Available 24x7
3	Remarks	NIL

VEGT AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Designation, surface and strength of aprons	Refer Aircraft Parking/Docking Chart
2	Designation, width, surface and strength of taxiways	Refer Aircraft Parking/Docking Chart
3	Location and elevation of altimeter checkpoints	Location: All Stands Elevation: Refer parking and docking charts of Aprons
4	Location of VOR checkpoints	Available on TWY E, F, G, H and J
5	Position of INS checkpoints	
6	Remarks	1. Coordinates of RWY Holding Position: i. TWY E: 260626.156N 0913511.417E/ELEV: 161FT ii. TWY F: 260620.367N 0913508.752E /ELEV: 161FT iii. TWY G: 260711.901N 0913533.891E/ELEV: 162FT 2. Coordinates of RWY & Taxi Intersection: i. TWY E: 260627.291N 0913508.422E/ELEV: 163FT ii. TWY F: 260621.498N 0913505.740E /ELEV: 163FT iii. TWY G: 260713.414N 0913529.821E/ELEV: 163FT 3. Gravity Model: EGM08. 4. All Taxiways (L1, L2, L3 & L4) on the west side of Airfield are for Military use Only.

VEGT AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand identification signs, taxiway guidelines and visual docking/parking guidance system at aircraft stands	i) Illuminated stand identification boards displaying stand number and stand co-ordinates are available for aircraft stands 1,2,3,4,5,6,7,8 and 9, on Apron I, and Stands 21L, 21, 21R, 22L, 22R, 23L, 27 and 28 on T2 Apron. Stand identification marking available on ground for Stands 41, 42, 43, 44, and 45 on Apron K ii) Taxiing guidance signs available at all intersection of TWY and RWY and at holding positions. iii) Advanced Visual Docking Guidance system (A-VDGS) installed on stands 2 on Apron I, and stands 21L, 21, 21R, 22L, 22R, 23L, 27 & 28 on T2 Apron. iv) Marshaling guidance available for Stand 1, 6, 7, 8 and 9 on Apron I, and Stand 41, 42, 43, 44, and 45 through authorized Ground Handing agents (GHA). v) Aircraft Stand Lead-In Lines available at apron.
2	Runway and taxiway markings and lights	RWY Markings: Designation, THR,Transverse stripe, TDZ, Centre line,Side Stripe, Aiming Point. Lights: THR, Edge, End TWY Markings: Center line, RWY Holding Positions Intermediate Holding Position, Edge (Enhanced RWY Holding Positions are marked on all TWYs connected with RWYs) Lights: Edge lights available on E, F, G, H, J, B9, C8, portion of Taxiway A.
3	Stop bars (if any)	Nil
4	Remarks	A-VDGS / VDGS is operational H24 in all-weather / visibility conditions. NOTAM is promulgated whenever A-VDGS / VDGS is unserviceable.

VEGT AD 2.10 AERODROME OBSTACLES

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM08)	Marking/LGT	Remarks
20/TKOF 02/APCH	TREE	255904.9N 0913230.7E	1271 FT	NIL	TREE ON HILL
20/TKOF 02/APCH	TREE	255758.2N 0913236.7E	1264 FT	NIL	TREE ON HILL
20/TKOF 02/APCH	OTHER	260535.6N 0913443.5E	178 FT	NIL	MOBILE ROAD TRAFFIC (ROAD ELEV - 49.16 M + 5 M MOBILE TRAFFIC)
20/TKOF 02/APCH	OTHER	260535.8N 0913443.2E	178 FT	NIL	MOBILE ROAD TRAFFIC (ROAD ELEV - 49.16 M + 5 M MOBILE TRAFFIC)

Duty Officer Tower may cancel SP.

6.8 ACTIONS BY OTHER AGENCIES (AIRLINES, REFUELING COMPANIES, CATERING AGENCIES, ETC.)

a. Every Year before commencement of monsoon/winter season, a meeting will be held by Airport Director, to inform all airlines and agencies operating at airport about their roles/responsibilities and create awareness to ensure cooperation for safe airport operations during periods of low visibility.

b. All the agencies shall ensure that staff and drivers are suitably trained during Low Visibility operations.

c. A refresher program for ATCO's and personnel responsible for airside operations shall be conducted every year.

d. All agencies operating in the operational area shall ensure that only those vehicles that are absolutely essential for aircraft operations operate in the operational area during periods of low visibility. The drivers of these vehicles should keep a look out for taxiing aircraft and other vehicles to prevent accidents.

e. All the vehicles must have their obstruction lights "ON" during Low Visibility Procedures operations.

f. All instructions/sign boards provided for vehicular movement area/service roads, must be followed while operating in the operational area.

7. ASMGCS commissioned to enhance visual surveillance.

8. Bird activty observed in and around the airfield. Pilots to exercise caution while landing and takeoff.

9. **Exemption Granted by DGCA:**

DGCA India has granted exemption vide letter dated 12.09.2022 for non-compliant width of runway strip against provisions in CAR Section 4, Series B, Part I, Para 3.4.3 for the period from up to 31.12.2025.

10. AD minima for take off is RVR 550M and ABV DUE RWY GUARD LGT not available.

11. Y2 Pushback PSN not AVBL for OPS while ACFT is TAX via TWY A to APN 1.Pilots to EXER CTN.

12 ACFT SUITABILITY OF TAXILANE D3 IS CODE C.)

13.The T2 Apron is made available with Multiple Aircraft Receiving Stand (MARS) 21L, 21, 21R, and Aircraft Stands 22L, 22R, 23L, 27 and 28. The details of facilities are as follows:

STAND NO.	COORDINATES FOR AIRCRAFT STAND	SUITABILITY	PCR	ELEV. (FT) (EGM 08)	REMARKS	CONTACT/ REMOTE
STAND 21 L						
Stop Position A	**260722.91N 0913553.39E**	**A21N**	**1420/R/D/ W/T**	**161.30**	**Power-in Pushback**	**Contact**
Stop Position B	**260722.96N 0913553.25E**	**B737, B739, B38M, A320**				
Stop Position C	**260722.98N 0913553.19E**	**B734, B737, B738, B739, B38M, A318, A319**				
STAND 21						

Stop Position A	**260721.9N 0913553.45E**	**B77W, A346**	**1420/R/D/ W/T**	**161.30**	**Power-in Pushback**	**Contact**
Stop Position B	**260721.95N 0913553.31E**	**B789,B753,B77L A332, A333**				
STAND 21R						
Stop Position A	**260721.55N 0913553.21E**	**A21N**	**1420/R/D/ W/T**	**161.30**	**Power-in Pushback**	**Contact**
Stop Position B	**260721.61N 0913553.06E**	**B737, B739, B38M, A322**				
Stop Position C	**260721.63N 0913553.01E**	**B734, B739, B738, B38M, B737, A318, A319**				
STAND 22L						
Stop Position A	**260720.33N 0913552.2E**	**A32N**	**1420/R/D/ W/T**	**161.30**	**Power-in Pushback**	**Contact**
Stop Position B	**260720.39N 0913552.06E**	**B737, B739, B38M, A322**				
Stop Position C	**260720.41N 0913552.0E**	**B734, B737, B738, B739, B38M, A318, A319**				
STAND 22R						
Stop Position A	**260718.98N 0913552.01E**	**A21N**	**1420/R/D/ W/T**	**161.30**	**Power-in Pushback**	**Contact**
Stop Position B	**260719.03N 0913551.86E**	**B737, B739, B38M, A322**				
Stop Position C	**260719.05N 0913551.81E**	**B734, B737, B738, B739, B38M, A318, A319**				
STAND 23L						
Stop Position A	**260717.75N 0913551.01E**	**A21N**	**1420/R/D/ W/T**	**161.30**	**Power-in Pushback**	**Contact**
Stop Position B	**260717.81N 0913550.86E**	**B737, B739, B38M, A320**				
Stop Position C	**260717.83N 0913550.81E**	**B734, B737, B738, B739, B38M, A318, A319**				
STAND 27						
Stop Position A	**260720.83N 0913544.88E**	**AT72**	**690/R/D/ W/T**	**161**	**Power-in Pushback**	**Remote**
STAND 28						

Stop Position A	**260719.79N 0913543.84E**	**A21N**	**690/R/D/ W/T**	**161**	**Power-in Pushback**	**Remote**
Stop Position B	**260719.79N 0913543.88E**	**B737, B739, B38M, A322**				
Stop Position C	**260719.74N 0913543.99E**	**B734, B737, B738, B739, B38M, A318, A319**				
Stop Position D	**260719.71N 0913544.07E**	**A318, DH8D**				
Stop Position E	**260719.69N 0913544.12E**	**AT72**				

VEGT AD 2.24 CHARTS RELATED TO AN AERODROME

1 Aerodrome Chart (13 June 2024)
2 Aircraft Parking / Docking Chart APRON I (19 March 2026)
3 Aircraft Parking/Docking Chart Apron K (19 March 2026)
4 Aerodrome Obstacle Chart Type-A (Operating Limitations) RWY 02 (22 January 2026)
5 Aerodrome Obstacle Chart Type-A (Operating Limitations) RWY 20 (22 January 2026)
6 Aerodrome Obstacle Chart - Type B (22 January 2026)
7 Aerodrome Obstacle Chart - Type B - Aerodrome Obstacle Tabulation 1 (22 January 2026)
8 Aerodrome Obstacle Chart - Type B - Aerodrome Obstacle Tabulation 2 (22 January 2026)
9 Aerodrome Obstacle Chart - Type B - Aerodrome Obstacle Tabulation 3 (22 January 2026)
10 Aerodrome Obstacle Chart - Type B - Aerodrome Obstacle Tabulation 4 (22 January 2026)
11 Instrument Approach Chart - VOR Procedure RWY 02 (17 April 2025)
12 Instrument Approach Chart - VOR Procedure RWY 20 (16 May 2024)
13 ATC Surveillance Minimum Altitude Chart (16 May 2024)
14 Instrument Approach Chart - RNP Procedure RWY 02 (16 May 2024)
15 Tabular Description - RNP Procedure RWY 02 (16 May 2024)
16 Standard Departure Chart – Instrument, RNAV1 (GNSS), RWY 02
17 Standard Departure Chart – Instrument, RNAV1 (GNSS), RWY 02-Coding Table
18 Standard Departure Chart – Instrument, RNAV1 (GNSS), RWY 02-Waypoints
19 Standard Departure Chart – Instrument, RNAV1 (GNSS), RWY 20
20 Standard Departure Chart – Instrument, RNAV1 (GNSS), RWY 20-Coding Table
21 Standard Departure Chart – Instrument, RNAV1 (GNSS), RWY 20-Waypoints
22 Standard Arrival Chart – Instrument, RNAV1 (GNSS), RWY 02
23 Standard Arrival Chart – Instrument, RNAV1 (GNSS), RWY 02-Coding Table
24 Standard Arrival Chart – Instrument, RNAV1 (GNSS), RWY 02-Waypoints
25 Standard Arrival Chart – Instrument, RNAV1 (GNSS), RWY 20
26 Standard Arrival Chart – Instrument, RNAV1 (GNSS), RWY 20-Coding Table
27 Standard Arrival Chart – Instrument, RNAV1 (GNSS), RWY 20-Waypoints
28 Instrument Approach Chart - ILS or LOC Procedure RWY 02 (17 April 2025)
29 Aircraft Parking/Docking Chart – Apron T2 (19 March 2026)
30 Aircraft Pushback Procedure Chart – Stand 21L, 21R, 22L, 22R & 23L (19 March 2026)
31 Aircraft Pushback Procedure Chart – Stand 21 (19 March 2026)
32 Aircraft Pushback Procedure Chart – Stand 27 & 28 (19 March 2026)

VEGT AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Procedure	Procedure Minima	VSS Penetration
1	**2**	**3**

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM08)	Marking/LGT	Remarks
In circling area and at AD	POLE	190444.1N 0820236.8E	1824 FT	NIL	ELECTRIC POLE
In circling area and at AD	POLE	190416.4N 0820143.3E	1856 FT	NIL	LIGHT POST
In circling area and at AD	POLE	190436.1N 0820237.3E	1832 FT	NIL	ELECTRIC POLE
In circling area and at AD	FENCE	190442.9N 0820236.4E	1808 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCING ON TOP
In circling area and at AD	POLE	190434.8N 0820233.5E	1828 FT	NIL	ELECTRIC POLE
In circling area and at AD	BUILDING	190438.5N 0820226.0E	1826 FT	NIL	FLAG ON TEMPLE TOP
In circling area and at AD	POLE	190446.4N 0820242.1E	1824 FT	NIL	LIGHT POST
In circling area and at AD	POLE	190446.4N 0820242.1E	1824 FT	NIL	ELECTRIC POLE
In circling area and at AD	FENCE	190415.6N 0820141.0E	1860 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCING ON TOP
In circling area and at AD	POLE	190445.8N 0820241.0E	1822 FT	NIL	LIGHT POST
In circling area and at AD	POLE	190447.0N 0820242.9E	1825 FT	NIL	LIGHT POST
In circling area and at AD	TREE	190440.6N 0820248.2E	1851 FT	NIL	TREE
In circling area and at AD	POLE	190434.1N 0820233.1E	1829 FT	NIL	ELECTRIC POLE
In circling area and at AD	POLE	190430.3N 0820227.8E	1847 FT	NIL	ELECTRIC POLE
In circling area and at AD	FENCE	190429.4N 0820221.8E	1822 FT	NIL	AIRPORT BOUNDARY WALL TOP
In circling area and at AD	ANTENNA	190426.6N 0820217.2E	1833 FT	NIL	DISH ANTENNA ON BUILDING TOP
In circling area and at AD	BUILDING	190436.5N 0820236.9E	1815 FT	NIL	BUILDING TOP
In circling area and at AD	NAVAID	190435.7N 0820231.1E	1804 FT	NIL	PAPI LIGHTS
In circling area and at AD	NAVAID	190436.2N 0820230.8E	1804 FT	NIL	PAPI LIGHTS
In circling area and at AD	NAVAID	190435.5N 0820231.2E	1804 FT	NIL	PAPI LIGHTS
In circling area and at AD	BUILDING	190436.4N 0820237.6E	1818 FT	NIL	SINTEX TANK ON BUILDING TOP
In circling area and at AD	NATURAL HIGHPOINT	190415.1N 0820143.8E	1842 FT	NIL	GROUND ELEVATION
In circling area and at AD	NATURAL HIGHPOINT	190414.1N 0820144.1E	1842 FT	NIL	GROUND ELEVATION
In circling area and at AD	OTHER	190425.4N 0815940.7E	2008 FT	LGTD	MOBILE TOWER LT

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM08)	Marking/LGT	Remarks
In circling area and at AD	OTHER	190428.7N 0815940.3E	2003 FT	LGTD	MOBILE TOWER LT
In circling area and at AD	OTHER	190350.9N 0815952.1E	1996 FT	NIL	HTL
In circling area and at AD	OTHER	190459.3N 0820045.0E	1991 FT	LGTD	MOBILE TOWER LT
In circling area and at AD	OTHER	190420.6N 0820102.5E	1990 FT	LGTD	MOBILE TOWER LT
In circling area and at AD	OTHER	190222.7N 0815545.8E	2368 FT	LGTD	ALL INDIA RADIO TOWER LT
In circling area and at AD	FENCE	190434.8N 0820220.1E	1820 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCING TOP
In circling area and at AD	FENCE	190441.0N 0820232.6E	1810 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCING TOP
In circling area and at AD	TREE	190415.4N 0820135.7E	1928 FT	NIL	PINE TREE
In circling area and at AD	FENCE	190438.1N 0820226.8E	1815 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCING TOP
In circling area and at AD	BUILDING	190416.5N 0820142.3E	1886 FT	LGTD	FCI STORE ROOM LT
In circling area and at AD	TREE	190414.4N 0820134.6E	1921 FT	NIL	TREE
In circling area and at AD	BUILDING	190415.4N 0820139.6E	1890 FT	LGTD	FCI STORE ROOM LT
In circling area and at AD	TREE	190414.7N 0820136.6E	1906 FT	NIL	TREE
In circling area and at AD	BUILDING	190416.4N 0820141.0E	1889 FT	LGTD	FCI STORE ROOM LT
In circling area and at AD	TREE	190412.2N 0820130.6E	1920 FT	NIL	PINE TREE
In circling area and at AD	BUILDING	190415.2N 0820139.4E	1873 FT	NIL	FCI BUILDING WITH WATER TANK
In circling area and at AD	POLE	190414.1N 0820137.0E	1879 FT	NIL	LIGHT POLE
In circling area and at AD	BUILDING	190413.4N 0820134.6E	1880 FT	NIL	BUILDING WITH ANTENNA
In circling area and at AD	NATURAL HIGHPOINT	190411.5N 0820144.7E	1850 FT	NIL	GROUND LEVEL
In circling area and at AD	POLE	190414.7N 0820131.5E	1918 FT	NIL	ELECTRIC POLE
In circling area and at AD	BUILDING	190414.4N 0820136.7E	1869 FT	NIL	BUILDING TOP
In circling area and at AD	TREE	190407.2N 0820143.4E	1896 FT	NIL	TREE
In circling area and at AD	TREE	190419.3N 0820144.8E	1924 FT	NIL	GR. OF TREES
In circling area and at AD	OTHER	190430.8N 0820204.7E	1900 FT	LGTD	OHWT LT

Length, spacing, colour and intensity of runway centre line lights	Length, spacing, colour and intensity of runway edge lights	Colour of runway end lights and wing bars	Length and colour of stopway lights	Remarks
6	7	8	9	10
	2291 M 60 M White LIH	Red		LAST 600M OF RWY 05 RWY EDGE LIGHT AMBER
	2291 M 60 M White LIH	Red		NIL

VEMN AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Location, characteristics and hours of operation of aerodrome beacon/identification beacon (if any)	ABN	At Tower Building, Rotation Rate of ABN FLG W & G is 12 RPM. As ATS Hr
		IBN	NIL
2	Location and lighting (if any) of anemometer/ landing direction indicator;	LDI	215M west of control Tower
		Anemometer	South of RWY 05 (Latitude 272832.34N, Longitude 0950036.32E)
3	Taxiway edge and taxiway centre line lights;	Edge	Avbl.
		Centre Line	----------
4	Secondary power supply including switch-over time;	Secondary Power supply to all lighting at AD. Switch-over time : Less than 1 SEC.	
5	Remarks	Runway Guard lights Available on Taxiway D, E, and G	

VEMN AD 2.16 HELICOPTER LANDING AREA

1	Geographical coordinates of the geometric centre of touchdown and lift-off (TLOF) or of each threshold of final approach and take-off (FATO) area	
2	TLOF and/or FATO area elevation:	
3	TLOF and FATO area dimensions to the nearest metre or foot, surface type, bearing strength and marking;	
4	True bearings of FATO;	
5	Declared distances available	
6	Approach and FATO lighting;	
7	Remarks	1.For civil helicopter no helipad available, helicopter to land on runway. 2.For Defence, helipads are available on all taxiway, connecting to IAF Dispersal.

VEMN AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	CTR: Area bounded by lines joining points 272902N 0941947E; 274402N 0943247E; 275302N 0945947E; 275102N 0952947E; 271702N 0955447E; 264702N 0945947E to point of origin.
2	Vertical limits	FL 200

3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	Dibrugarh Tower, English
5	Transition altitude	8000 FT
6	Hours of applicability	HO
7	Remarks	

VEMN AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	2	3	4
APP	Dibrugarh Tower	118.250 MHZ	
APP	Dibrugarh Tower	124.000 MHZ	
TWR	Dibrugarh Tower	118.250 MHZ	
TWR	Dibrugarh Tower	124.000 MHZ	
ATIS	----	127.650 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	6	7
	As ATS	Functions of TWR & APP combined
	AS ATS	Functions of TWR & APP combined.
	As ATS	Backup Frequency
	AS ATS	Main Frequency
	AS ATS	NIL

VEMN AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aids, magnetic variation and type of supported operation for ILS/ MLS, basic GNSS, SBAS and GBAS, and for VOR/ILS/MLS station used for technical lineup of the aid	Identification	Frequency(ies), Channel number(s), Service provider, and reference path identifier(s) (RPI), as appropriate	Hours of operation, as appropriate;
1	2	3	4
LOC 05 CAT I	IDIB	109.500 MHz	As ATS
GP 05		332.600 MHz	As ATS
DME ILS 05	IDIB	CH32X	As ATS
DVOR/DME	DRG	117.300 MHz CH120X	As ATS
NDB	DBR	265 kHz	As ATS

6	Remarks	1. **Coordinates and Elevation of RWY Holding Position** **TWY** **Coordinates** **Elevation (FT)** TWY A 255251.72N 0934632.15E 483 TWY B 255254.339N 0934626.714E 484 TWY C 235305.924N 0934602.723E 480 2. Coordinates of RWY and Taxi Intersection **TWY** **Coordinates** **Elevation (FT)** TWY A 255254.38N 0934633.72E 482 TWY B 255257.04N 0934628.21E 481 TWY C 255308.64N 0934604.21E 477 3. Helipad: 255258.261N 0934610.743E/ELEV:476FT 4. Gravity Model: EGM 08

VEMR AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand identification signs, taxiway guidelines and visual docking/parking guidance system at aircraft stands	Taxiing Guidance Signs at all intersections with TWY and RWY. Guidelines at Apron.
2	Runway and taxiway markings and lights	RWY Markings: Designation, THR, TDZ, Centreline, Holding Position At TWY/RWY Intersections. RWY Guard lights: AVBL at TWY A, B, C RWY Lights: THR, Edge And RWY End. TWY Markings: Centreline, Holding Position At TWY/RWY Intersections TWY Lights: Edge.
3	Stop bars (if any)	NIL
4	Remarks	

VEMR AD 2.10 AERODROME OBSTACLES

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
30/TKOF 12/APCH	ANTENNA	255420.4N 0934411.6E	689 FT	NO	Antenna on Cell Phone Mast
30/TKOF 12/APCH	BUILDING	255321.2N 0934527.6E	510 FT	NO	Building
30/TKOF 12/APCH	BUILDING	255332.1N 0934529.0E	524 FT	NO	Building
30/TKOF 12/APCH	BUILDING	255320.7N 0934524.5E	522 FT	NO	Building
30/TKOF 12/APCH	BUILDING	255324.2N 0934540.2E	503 FT	NO	Building

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
30/TKOF 12/APCH	BUILDING	255329.0N 0934535.3E	525 FT	NO	Building
30/TKOF 12/APCH	OTHER	255420.4N 0934411.6E	683 FT	NO	Cell Phone Mast
30/TKOF 12/APCH	BUILDING	255321.9N 0934520.5E	552 FT	NO	Church
30/TKOF 12/APCH	TREE	255329.3N 0934500.3E	570 FT	NO	Group of Tree
30/TKOF 12/APCH	TREE	255327.4N 0934504.9E	562 FT	NO	Group of Tree
30/TKOF 12/APCH	TREE	255326.2N 0934536.7E	510 FT	NO	Group of Tree
30/TKOF 12/APCH	TREE	255327.3N 0934537.8E	519 FT	NO	Group of Tree
30/TKOF 12/APCH	TREE	255321.9N 0934522.9E	538 FT	NO	Group of Tree
30/TKOF 12/APCH	TREE	255323.9N 0934541.1E	525 FT	NO	Group of Tree
30/TKOF 12/APCH	BUILDING	255337.6N 0934522.6E	533 FT	NO	Hoarding on Building
30/TKOF 12/APCH	BUILDING	255323.4N 0934520.6E	513 FT	NO	Pipe on Building
30/TKOF 12/APCH	WALL	255324.7N 0934530.4E	494 FT	NO	Airport Boundary Wall
30/TKOF 12/APCH	BUILDING	255325.7N 0934529.6E	500 FT	NO	Building
30/TKOF 12/APCH	BUILDING	255324.7N 0934528.6E	505 FT	NO	Building
30/TKOF 12/APCH	BUILDING	255326.2N 0934524.6E	514 FT	NO	Building
30/TKOF 12/APCH	BUILDING	255328.5N 0934524.3E	519 FT	NO	Building
30/TKOF 12/APCH	BUILDING	255327.7N 0934528.9E	510 FT	NO	Building
30/TKOF 12/APCH	BUILDING	255325.6N 0934523.3E	518 FT	NO	Building
30/TKOF 12/APCH	BUILDING	255324.2N 0934521.5E	520 FT	NO	Building
30/TKOF 12/APCH	BUILDING	255325.5N 0934530.7E	507 FT	NO	Building
30/TKOF 12/APCH	BUILDING	255333.3N 0934524.7E	525 FT	NO	Building
30/TKOF 12/APCH	BUILDING	255329.8N 0934524.4E	523 FT	NO	Building
30/TKOF 12/APCH	BUILDING	255328.4N 0934531.1E	511 FT	NO	Building
30/TKOF 12/APCH	BUILDING	255322.9N 0934524.6E	523 FT	NO	Building
30/TKOF 12/APCH	BUILDING	255323.9N 0934539.0E	505 FT	NO	Building
30/TKOF 12/APCH	OTHER	255357.0N 0934406.7E	690 FT	NO	Cell Phone Mast

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
30/TKOF 12/APCH	OTHER	255343.3N 0934441.9E	617 FT	NO	Cell Phone Mast
30/TKOF 12/APCH	OTHER	255341.5N 0934459.6E	614 FT	NO	Cell Phone Mast
30/TKOF 12/APCH	POLE	255327.3N 0934527.7E	505 FT	NO	Electric Pole
30/TKOF 12/APCH	POLE	255328.5N 0934527.4E	507 FT	NO	Electric Pole
30/TKOF 12/APCH	POLE	255325.5N 0934526.3E	510 FT	NO	Electric Pole
30/TKOF 12/APCH	POLE	255326.0N 0934526.1E	512 FT	NO	Electric Pole
30/TKOF 12/APCH	POLE	255326.1N 0934523.6E	518 FT	NO	Electric Pole
30/TKOF 12/APCH	POLE	255325.8N 0934525.0E	519 FT	NO	Electric Pole
30/TKOF 12/APCH	POLE	255330.9N 0934526.1E	529 FT	NO	Electric Pole
30/TKOF 12/APCH	POLE	255329.6N 0934526.8E	529 FT	NO	Electric Pole
30/TKOF 12/APCH	POLE	255327.7N 0934515.9E	534 FT	NO	Flag Pole on Building
30/TKOF 12/APCH	GATE	255326.3N 0934527.9E	507 FT	NO	Gate Corner
30/TKOF 12/APCH	TREE	255334.4N 0934505.8E	548 FT	NO	Group of Tree
30/TKOF 12/APCH	TREE	255329.9N 0934530.0E	512 FT	NO	Group of Tree
30/TKOF 12/APCH	TREE	255327.0N 0934531.1E	515 FT	NO	Group of Tree
30/TKOF 12/APCH	TREE	255328.7N 0934530.8E	517 FT	NO	Group of Tree
30/TKOF 12/APCH	TREE	255326.3N 0934525.7E	529 FT	NO	Group of Tree
30/TKOF 12/APCH	TREE	255327.2N 0934524.3E	532 FT	NO	Group of Tree
30/TKOF 12/APCH	TREE	255325.6N 0934524.3E	531 FT	NO	Group of Tree
30/TKOF 12/APCH	TREE	255326.4N 0934536.0E	515 FT	NO	Group of Tree
30/TKOF 12/APCH	TREE	255325.0N 0934529.9E	524 FT	NO	Group of Tree
30/TKOF 12/APCH	TREE	255326.1N 0934531.3E	522 FT	NO	Group of Tree
30/TKOF 12/APCH	TREE	255327.7N 0934524.9E	535 FT	NO	Group of Tree
30/TKOF 12/APCH	TREE	255329.8N 0934526.4E	536 FT	NO	Group of Tree
30/TKOF 12/APCH	TREE	255328.6N 0934525.5E	556 FT	NO	Group of Tree
30/TKOF 12/APCH	TREE	255330.1N 0934524.7E	560 FT	NO	Group of Tree

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
30/TKOF 12/APCH	BUILDING	255323.1N 0934528.4E	502 FT	NO	IOCL Building
30/TKOF 12/APCH	POLE	255323.8N 0934528.9E	504 FT	NO	Light Post
30/TKOF 12/APCH	POLE	255328.8N 0934527.5E	517 FT	NO	Light Post
30/TKOF 12/APCH	OTHER	255323.6N 0934530.1E	503 FT	NO	Mobile Road Traffic (Road Elev. 148.2M + Traffic Ht. 5M)
30/TKOF 12/APCH	SIGN	255323.8N 0934529.3E	503 FT	NO	Petrol Pump Board
30/TKOF 12/APCH	OTHER	255343.4N 0934502.3E	572 FT	NO	Pylon Mast
30/TKOF 12/APCH	OTHER	255330.3N 0934503.2E	586 FT	NO	Pylon Mast
30/TKOF 12/APCH	BUILDING	255324.5N 0934530.7E	502 FT	NO	Security Hut
30/TKOF 12/APCH	BUILDING	255331.5N 0934527.3E	524 FT	NO	Water Tank on Building
30/APCH 12/TKOF	BUILDING	255237.2N 0934657.9E	505 FT	NO	Building
30/APCH 12/TKOF	POLE	255237.8N 0934656.7E	512 FT	NO	Electric Pole
30/APCH 12/TKOF	TREE	255243.1N 0934711.5E	553 FT	NO	Group of Tree
30/APCH 12/TKOF	OTHER	255019.4N 0935423.6E	2782 FT	NO	Hill
30/APCH 12/TKOF	WALL	255240.2N 0934658.2E	501 FT	NO	Airport Boundary Wall
30/APCH 12/TKOF	FENCE	255241.2N 0934658.7E	501 FT	NO	Airport Boundary Wall With Fencing On Top
30/APCH 12/TKOF	BUILDING	255237.8N 0934703.0E	510 FT	NO	Building
30/APCH 12/TKOF	BUILDING	255238.2N 0934704.1E	524 FT	NO	Building
30/APCH 12/TKOF	OTHER	255214.9N 0934819.3E	649 FT	NO	Cell Phone Mast
30/APCH 12/TKOF	OTHER	255208.1N 0934759.9E	634 FT	NO	Cell Phone Mast
30/APCH 12/TKOF	TREE	255241.9N 0934703.0E	510 FT	NO	Group of Tree
30/APCH 12/TKOF	TREE	255240.0N 0934703.6E	514 FT	NO	Group of Tree
30/APCH 12/TKOF	TREE	255241.1N 0934658.7E	511 FT	NO	Group of Tree
30/APCH 12/TKOF	TREE	255239.4N 0934706.3E	526 FT	NO	Group of Tree
30/APCH 12/TKOF	TREE	255240.3N 0934713.7E	541 FT	NO	Group of Tree
30/APCH 12/TKOF	TREE	255236.5N 0934702.4E	540 FT	NO	Group of Tree

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
30/APCH 12/TKOF	TREE	255244.6N 0934701.7E	531 FT	NO	Group of Tree
30/APCH 12/TKOF	TREE	255239.9N 0934658.5E	532 FT	NO	Group of Tree
30/APCH 12/TKOF	TREE	255238.9N 0934659.4E	538 FT	NO	Group of Tree
30/APCH 12/TKOF	TREE	255239.5N 0934658.0E	538 FT	NO	Group of Tree
30/APCH 12/TKOF	OTHER	255002.7N 0935247.6E	2463 FT	NO	Hill
30/APCH 12/TKOF	OTHER	254940.3N 0935337.6E	2526 FT	NO	Hill
30/APCH 12/TKOF	ANTENNA	255240.0N 0934657.3E	519 FT	NO	Lightning Arrester on Localizer Hut
30/APCH 12/TKOF	OTHER	255242.4N 0934658.5E	501 FT	NO	Localizer Antenna Centre
30/APCH 12/TKOF	OTHER	255243.3N 0934656.7E	498 FT	NO	Localizer Monitor Antenna
30/APCH 12/TKOF	OTHER	255242.0N 0934659.4E	507 FT	NO	Mobile Road Traffic (Road Elev.149.6 M +Traffic Ht.5 M)
30/APCH 12/TKOF	OTHER	255241.1N 0934654.6E	508 FT	NO	Mobile Road Traffic (Road Elev.149.8 M +Traffic Ht.5 M)
30/APCH 12/TKOF	BUILDING	255239.4N 0934657.5E	501 FT	NO	Security Hut
30/APCH 12/TKOF	BUILDING	255243.3N 0934702.0E	503 FT	NO	Shed
30/APCH 12/TKOF	BUILDING	255240.1N 0934700.3E	505 FT	NO	Shed on Building
30/APCH 12/TKOF	BUILDING	255238.3N 0934703.3E	514 FT	NO	U/C Building
In circling area and at AD	WALL	255246.2N 0934656.8E	502 FT	NO	Airport Boundary Wall
In circling area and at AD	FENCE	255317.7N 0934533.5E	492 FT	NO	Airport Boundary Wall With Fencing On Top
In circling area and at AD	FENCE	255323.1N 0934541.1E	486 FT	NO	Airport Boundary Wall With Fencing On Top
In circling area and at AD	ANTENNA	255250.5N 0934621.2E	558 FT	NO	Beacon on ATC
In circling area and at AD	BUILDING	255253.8N 0934648.9E	511 FT	NO	Building
In circling area and at AD	BUILDING	255241.4N 0934718.1E	535 FT	NO	Building
In circling area and at AD	BUILDING	255328.3N 0934538.5E	504 FT	NO	Building
In circling area and at AD	BUILDING	255309.7N 0934543.6E	527 FT	NO	Building
In circling area and at AD	BUILDING	255315.6N 0934532.9E	517 FT	NO	Building

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	BUILDING	255319.0N 0934523.7E	531 FT	NO	Building
In circling area and at AD	BUILDING	255239.5N 0934651.3E	515 FT	NO	Building
In circling area and at AD	BUILDING	255323.7N 0934548.6E	514 FT	NO	Building
In circling area and at AD	BUILDING	255237.8N 0934655.6E	512 FT	NO	Building
In circling area and at AD	BUILDING	255311.2N 0934541.3E	528 FT	NO	Building
In circling area and at AD	BUILDING	255303.4N 0934629.4E	513 FT	NO	Building
In circling area and at AD	BUILDING	255259.5N 0934636.6E	510 FT	NO	Building
In circling area and at AD	BUILDING	255240.4N 0934651.6E	511 FT	NO	Building
In circling area and at AD	BUILDING	255314.5N 0934536.4E	523 FT	NO	Building
In circling area and at AD	BUILDING	255314.5N 0934536.3E	526 FT	NO	Building
In circling area and at AD	BUILDING	255307.1N 0934549.3E	542 FT	NO	Building
In circling area and at AD	BUILDING	255317.8N 0934601.0E	529 FT	NO	Building
In circling area and at AD	BUILDING	255258.3N 0934636.7E	508 FT	NO	Building
In circling area and at AD	BUILDING	255306.5N 0934623.5E	528 FT	NO	Building
In circling area and at AD	BUILDING	255331.3N 0934532.1E	526 FT	NO	Building
In circling area and at AD	BUILDING	255309.7N 0934545.5E	539 FT	NO	Building
In circling area and at AD	BUILDING	255335.4N 0934526.0E	543 FT	NO	Building
In circling area and at AD	BUILDING	255321.0N 0934523.4E	532 FT	NO	Building
In circling area and at AD	BUILDING	255321.7N 0934548.9E	515 FT	NO	Building
In circling area and at AD	BUILDING	255314.8N 0934603.5E	523 FT	NO	Building
In circling area and at AD	BUILDING	255240.8N 0934653.5E	497 FT	NO	Building
In circling area and at AD	BUILDING	255240.9N 0934653.0E	504 FT	NO	Building
In circling area and at AD	BUILDING	255240.6N 0934652.5E	509 FT	NO	Building
In circling area and at AD	BUILDING	255240.1N 0934653.0E	509 FT	NO	Building
In circling area and at AD	BUILDING	255251.8N 0934648.3E	509 FT	NO	Building
In circling area and at AD	BUILDING	255316.6N 0934555.9E	499 FT	NO	Building

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	BUILDING	255323.6N 0934543.2E	499 FT	NO	Building
In circling area and at AD	BUILDING	255320.5N 0934546.4E	501 FT	NO	Building
In circling area and at AD	BUILDING	255320.8N 0934546.9E	502 FT	NO	Building
In circling area and at AD	BUILDING	255259.7N 0934630.8E	508 FT	NO	Building
In circling area and at AD	BUILDING	255320.1N 0934548.0E	503 FT	NO	Building
In circling area and at AD	BUILDING	255313.4N 0934601.9E	504 FT	NO	Building
In circling area and at AD	BUILDING	255319.6N 0934548.7E	504 FT	NO	Building
In circling area and at AD	BUILDING	255314.5N 0934600.1E	506 FT	NO	Building
In circling area and at AD	BUILDING	255312.6N 0934603.4E	507 FT	NO	Building
In circling area and at AD	BUILDING	255314.1N 0934601.4E	507 FT	NO	Building
In circling area and at AD	BUILDING	255321.3N 0934547.8E	508 FT	NO	Building
In circling area and at AD	BUILDING	255317.6N 0934553.3E	510 FT	NO	Building
In circling area and at AD	BUILDING	255302.5N 0934627.0E	516 FT	NO	Building
In circling area and at AD	OTHER	255414.3N 0934456.9E	642 FT	NO	Cell Phone Mast
In circling area and at AD	OTHER	255244.6N 0934544.3E	646 FT	NO	Cell Phone Mast
In circling area and at AD	OTHER	255356.5N 0934501.0E	647 FT	NO	Cell Phone Mast
In circling area and at AD	OTHER	255247.5N 0934530.9E	675 FT	NO	Cell Phone Mast
In circling area and at AD	OTHER	255312.1N 0934524.9E	657 FT	NO	Cell Phone Mast
In circling area and at AD	OTHER	255312.2N 0934525.0E	656 FT	NO	Cell Phone Mast
In circling area and at AD	BUILDING	255303.3N 0934633.2E	535 FT	NO	Church
In circling area and at AD	BUILDING	255300.0N 0934635.5E	527 FT	NO	Church
In circling area and at AD	OTHER	255305.1N 0934558.8E	503 FT	NO	Cooling Pit
In circling area and at AD	NAVAID	255250.9N 0934655.4E	530 FT	NO	DVOR DME
In circling area and at AD	ANTENNA	255250.7N 0934655.3E	534 FT	NO	DVOR Lightning Arrester
In circling area and at AD	NAVAID	255251.3N 0934655.3E	521 FT	NO	DVOR Main Antenna
In circling area and at AD	NAVAID	255252.5N 0934650.0E	527 FT	NO	DVOR Monitor Antenna

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	OTHER	255252.4N 0934629.9E	490 FT	NO	Electric Panel
In circling area and at AD	POLE	255311.2N 0934541.5E	535 FT	NO	Electric Pole
In circling area and at AD	POLE	255312.7N 0934539.7E	532 FT	NO	Electric Pole
In circling area and at AD	POLE	255312.0N 0934541.7E	533 FT	NO	Electric Pole
In circling area and at AD	POLE	255313.8N 0934538.0E	543 FT	NO	Electric Pole
In circling area and at AD	POLE	255247.1N 0934657.0E	516 FT	NO	Electric Pole
In circling area and at AD	POLE	255322.8N 0934544.7E	500 FT	NO	Electric Pole
In circling area and at AD	POLE	255322.3N 0934545.8E	502 FT	NO	Electric Pole
In circling area and at AD	POLE	255323.3N 0934543.4E	505 FT	NO	Electric Pole
In circling area and at AD	POLE	255321.7N 0934546.5E	507 FT	NO	Electric Pole
In circling area and at AD	POLE	255304.1N 0934621.7E	515 FT	NO	Electric Pole
In circling area and at AD	POLE	255321.2N 0934547.2E	513 FT	NO	Electric Pole
In circling area and at AD	OTHER	255249.6N 0934625.0E	535 FT	NO	Flood Light Mast
In circling area and at AD	OTHER	255250.4N 0934623.3E	537 FT	NO	Flood Light Mast
In circling area and at AD	GATE	255323.0N 0934541.3E	484 FT	NO	Gate
In circling area and at AD	OTHER	255308.3N 0934555.2E	496 FT	NO	GP DME
In circling area and at AD	BUILDING	255308.5N 0934555.5E	489 FT	NO	GP Hut
In circling area and at AD	OTHER	255308.5N 0934555.3E	528 FT	NO	GP Main Antenna
In circling area and at AD	OTHER	255309.4N 0934553.4E	492 FT	NO	GP Monitor Antenna
In circling area and at AD	TREE	255244.6N 0934711.7E	539 FT	NO	Group of Tree
In circling area and at AD	TREE	255252.4N 0934607.7E	602 FT	NO	Group of Tree
In circling area and at AD	TREE	255253.3N 0934653.5E	539 FT	NO	Group of Tree
In circling area and at AD	TREE	255337.9N 0934529.6E	573 FT	NO	Group of Tree
In circling area and at AD	TREE	255234.9N 0934655.7E	547 FT	NO	Group of Tree
In circling area and at AD	TREE	255325.0N 0934548.3E	529 FT	NO	Group of Tree
In circling area and at AD	TREE	255258.4N 0934602.2E	564 FT	NO	Group of Tree

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	TREE	255325.4N 0934546.4E	523 FT	NO	Group of Tree
In circling area and at AD	TREE	255251.8N 0934613.7E	586 FT	NO	Group of Tree
In circling area and at AD	TREE	255237.7N 0934654.4E	535 FT	NO	Group of Tree
In circling area and at AD	TREE	255328.0N 0934538.9E	522 FT	NO	Group of Tree
In circling area and at AD	TREE	255323.8N 0934547.8E	525 FT	NO	Group of Tree
In circling area and at AD	TREE	255237.7N 0934655.9E	529 FT	NO	Group of Tree
In circling area and at AD	TREE	255245.3N 0934635.0E	554 FT	NO	Group of Tree
In circling area and at AD	TREE	255318.0N 0934527.3E	546 FT	NO	Group of Tree
In circling area and at AD	TREE	255255.3N 0934609.8E	579 FT	NO	Group of Tree
In circling area and at AD	TREE	255318.3N 0934526.1E	553 FT	NO	Group of Tree
In circling area and at AD	TREE	255253.3N 0934649.3E	541 FT	NO	Group of Tree
In circling area and at AD	TREE	255318.5N 0934525.0E	561 FT	NO	Group of Tree
In circling area and at AD	TREE	255321.7N 0934548.8E	522 FT	NO	Group of Tree
In circling area and at AD	TREE	255312.7N 0934538.1E	559 FT	NO	Group of Tree
In circling area and at AD	TREE	255333.4N 0934529.1E	550 FT	NO	Group of Tree
In circling area and at AD	TREE	255310.9N 0934542.1E	560 FT	NO	Group of Tree
In circling area and at AD	TREE	255331.1N 0934533.2E	548 FT	NO	Group of Tree
In circling area and at AD	TREE	255306.9N 0934541.3E	620 FT	NO	Group of Tree
In circling area and at AD	TREE	255324.4N 0934543.9E	533 FT	NO	Group of Tree
In circling area and at AD	TREE	255314.4N 0934537.2E	552 FT	NO	Group of Tree
In circling area and at AD	TREE	255328.2N 0934537.2E	548 FT	NO	Group of Tree
In circling area and at AD	TREE	255311.9N 0934543.7E	552 FT	NO	Group of Tree
In circling area and at AD	TREE	255259.1N 0934635.2E	547 FT	NO	Group of Tree
In circling area and at AD	TREE	255310.1N 0934539.8E	607 FT	NO	Group of Tree
In circling area and at AD	TREE	255306.7N 0934552.3E	577 FT	NO	Group of Tree
In circling area and at AD	TREE	255308.2N 0934548.3E	590 FT	NO	Group of Tree

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	TREE	255313.2N 0934538.2E	590 FT	NO	Group of Tree
In circling area and at AD	TREE	255303.4N 0934557.5E	608 FT	NO	Group of Tree
In circling area and at AD	TREE	255305.3N 0934553.0E	613 FT	NO	Group of Tree
In circling area and at AD	TREE	255308.6N 0934547.5E	627 FT	NO	Group of Tree
In circling area and at AD	TREE	255241.3N 0934652.6E	528 FT	NO	Group of Tree
In circling area and at AD	TREE	255323.7N 0934543.1E	515 FT	NO	Group of Tree
In circling area and at AD	TREE	255309.9N 0934610.5E	519 FT	NO	Group of Tree
In circling area and at AD	TREE	255317.4N 0934554.3E	518 FT	NO	Group of Tree
In circling area and at AD	TREE	255258.1N 0934634.0E	529 FT	NO	Group of Tree
In circling area and at AD	TREE	255314.1N 0934601.6E	524 FT	NO	Group of Tree
In circling area and at AD	TREE	255314.1N 0934600.5E	526 FT	NO	Group of Tree
In circling area and at AD	TREE	255319.7N 0934548.4E	528 FT	NO	Group of Tree
In circling area and at AD	TREE	255256.8N 0934638.1E	536 FT	NO	Group of Tree
In circling area and at AD	TREE	255309.0N 0934612.2E	535 FT	NO	Group of Tree
In circling area and at AD	TREE	255317.3N 0934556.6E	537 FT	NO	Group of Tree
In circling area and at AD	TREE	255315.8N 0934558.0E	538 FT	NO	Group of Tree
In circling area and at AD	TREE	255321.1N 0934549.0E	541 FT	NO	Group of Tree
In circling area and at AD	TREE	255303.8N 0934624.2E	547 FT	NO	Group of Tree
In circling area and at AD	TREE	255317.7N 0934555.8E	544 FT	NO	Group of Tree
In circling area and at AD	TREE	255251.6N 0934647.9E	557 FT	NO	Group of Tree
In circling area and at AD	TREE	255259.8N 0934631.0E	554 FT	NO	Group of Tree
In circling area and at AD	TREE	255258.9N 0934634.6E	563 FT	NO	Group of Tree
In circling area and at AD	BUILDING	255258.5N 0934610.1E	511 FT	NO	Hangar
In circling area and at AD	NATURAL HIGHPOINT	254818.5N 0934955.7E	2024 FT	NO	Hill
In circling area and at AD	NATURAL HIGHPOINT	254718.2N 0934828.6E	2128 FT	NO	Hill
In circling area and at AD	NATURAL HIGHPOINT	254613.4N 0934630.4E	2382 FT	NO	Hill

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	NATURAL HIGHPOINT	254857.3N 0935115.4E	2437 FT	NO	Hill
In circling area and at AD	NATURAL HIGHPOINT	254642.2N 0934707.6E	2483 FT	NO	Hill
In circling area and at AD	ANTENNA	255252.5N 0934649.9E	532 FT	NO	Lightning Arrester
In circling area and at AD	ANTENNA	255250.5N 0934621.2E	569 FT	NO	Lightning Arrester on ATC Building
In circling area and at AD	ANTENNA	255327.4N 0934502.4E	555 FT	NO	Lightning Arrester on Building
In circling area and at AD	ANTENNA	255308.3N 0934555.7E	506 FT	NO	Lightning Arrester on GP Hut
In circling area and at AD	ANTENNA	255308.2N 0934556.7E	512 FT	NO	Lightning Arrester on MET Antenna
In circling area and at AD	OTHER	255255.7N 0934557.2E	666 FT	NO	Mast
In circling area and at AD	ANTENNA	255308.2N 0934556.6E	509 FT	NO	MET Antenna
In circling area and at AD	OTHER	255318.0N 0934532.6E	503 FT	NO	Mobile Road Traffic (Road Elev.148.4M + 5M)
In circling area and at AD	OTHER	255323.5N 0934541.4E	494 FT	NO	Mobile Road Traffic (Road Elev. 145.5M + Traffic Ht. 5M)
In circling area and at AD	OTHER	255322.4N 0934540.9E	494 FT	NO	Mobile Road Traffic (Road Elev. 145.5M + Traffic Ht. 5M)
In circling area and at AD	OTHER	255245.6N 0934657.1E	509 FT	NO	Mobile Road Traffic (Road Elev.149.9 M +Traffic Ht.5 M)
In circling area and at AD	NATURAL HIGHPOINT	255307.8N 0934553.3E	502 FT	NO	Natural Highpoint
In circling area and at AD	NATURAL HIGHPOINT	255305.4N 0934558.5E	504 FT	NO	Natural Highpoint
In circling area and at AD	NATURAL HIGHPOINT	255255.0N 0934639.6E	491 FT	NO	Natural Highpoint
In circling area and at AD	NATURAL HIGHPOINT	255308.4N 0934611.4E	488 FT	NO	Natural Highpoint
In circling area and at AD	NATURAL HIGHPOINT	255254.7N 0934640.5E	496 FT	NO	Natural Highpoint
In circling area and at AD	NATURAL HIGHPOINT	255317.4N 0934553.4E	491 FT	NO	Natural Highpoint
In circling area and at AD	NATURAL HIGHPOINT	255311.9N 0934604.4E	492 FT	NO	Natural Highpoint
In circling area and at AD	NAVAID	255302.5N 0934605.4E	513 FT	NO	NDB Antenna
In circling area and at AD	OTHER	255254.2N 0934615.8E	539 FT	NO	Obstacle Light on Fire Station
In circling area and at AD	BUILDING	255251.0N 0934652.6E	504 FT	NO	Old Hut

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	POLE	255302.6N 0934559.4E	523 FT	NO	Pole
In circling area and at AD	BUILDING	255308.1N 0934555.5E	483 FT	NO	Pump House
In circling area and at AD	BUILDING	255249.1N 0934656.9E	515 FT	NO	Security Hut
In circling area and at AD	BUILDING	255304.0N 0934559.2E	520 FT	NO	Security Hut
In circling area and at AD	BUILDING	255315.2N 0934537.2E	515 FT	NO	Security Hut
In circling area and at AD	BUILDING	255322.5N 0934542.0E	489 FT	NO	Security Hut
In circling area and at AD	BUILDING	255322.7N 0934541.9E	497 FT	NO	Security Hut
In circling area and at AD	BUILDING	255306.7N 0934615.2E	508 FT	NO	Security Hut
In circling area and at AD	BUILDING	255318.0N 0934551.6E	512 FT	NO	Security Hut
In circling area and at AD	BUILDING	255302.3N 0934606.1E	511 FT	NO	Shed
In circling area and at AD	BUILDING	255306.0N 0934618.1E	512 FT	NO	Shed
In circling area and at AD	BUILDING	255311.6N 0934543.9E	526 FT	NO	Temple
In circling area and at AD	TREE	255322.7N 0934541.8E	499 FT	NO	Tree
In circling area and at AD	BUILDING	255322.9N 0934545.6E	488 FT	NO	U/C Building
In circling area and at AD	TANK	255315.5N 0934559.4E	519 FT	NO	Water Tank
In circling area and at AD	BUILDING	255331.4N 0934532.2E	532 FT	NO	Water Tank on Building
In circling area and at AD	BUILDING	255320.8N 0934550.5E	516 FT	NO	Water Tank on Building
In circling area and at AD	BUILDING	255300.0N 0934630.1E	512 FT	NO	Water Tank on Building
In circling area and at AD	BUILDING	255310.0N 0934609.9E	509 FT	NO	Water Tank on Building
In circling area and at AD	BUILDING	255303.9N 0934622.5E	515 FT	NO	Water Tank on Building
In circling area and at AD	BUILDING	255308.8N 0934611.4E	518 FT	NO	Water Tank on Building
In circling area and at AD	NAVAID	255309.6N 0934556.6E	499 FT	NO	Windsock
In circling area and at AD	NAVAID	255256.3N 0934621.7E	508 FT	NO	Windsock

VEMR AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Name of the associated meteorological office	Dimapur
2	Hours of service and, where applicable, the designation of the responsible meteorological office outside these hours	NIL

AD 2. AERODROMES

VEPT AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VEPT - JAI PRAKASH NARAYAN INTERNATIONAL AIRPORT, PATNA

VEPT AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	Aerodrome reference point coordinates and its site	253537N 0850531E MAG. BRG. 263.22DEG /510 M from physical beginning of RWY 25.	
2	Direction and distance of aerodrome reference point from the center of the city or town which the aerodrome serves	259 DEG, 5KM from Patna Railway Station.	
3	Aerodrome elevation and reference temperature	175 FT / 35.4 DEG C	
4	Magnetic variation, date of information and annual change	0.25 DEG W (2010) /0.017 DEG E	
5	Name of aerodrome operator, address, telephone, telefax, e-mail address, AFS address, website (if available)	Airport Director, Airports Authority of India, Jai Prakash Narayan International Airport,, Patna - 800014	
		Telephone:	(91) 612 2220683 (91) 9431821772
		Fax:	(91) 612 2225227
		AFS:	VEPTYHYX
		Email:	apdpatna@aai.aero
6	Types of traffic permitted (IFR/VFR)	IFR/VFR	
7	Remarks	Elevation in EGM08	

VEPT AD 2.3 OPERATIONAL HOURS

1	Aerodrome Operator	MON-FRI: 0400-1230 UTC (0930-1800 IST) SAT,SUN & HOL: NIL	
2	Custom and immigration	See Remark No. 1	
3	Health and sanitation	As ATS	
4	AIS briefing office	As ATS	
5	ATS reporting office (ARO)	As ATS	
6	MET Briefing office	As ATS	
7	Air Traffic Service	H24	
8	Fuelling	As ATS	
9	Handling	As ATS	
10	Security	As ATS	
11	De-icing	NIL	
12	Remarks	1. Customs and immigration facilities are provided on limited basis to cover operations of scheduled international flights. The facilities can be arranged to cover any authorized non-SKED operations.	
		2.ATS approved hourly runway traffic handling capacity	Maximum number of arrival and departure- 10 Maximum number of arrival only – 05 Maximum number of departure only -05

VEPT AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	Nil

2	Fuel and Oil types	ATF-K50 Mj0-2
3	Fuelling facilities and capacity	Refueler: ATF2 16000 & 9000Litres each 25Ltr/sec, AVG1 9000 Ltr, 12.5 Litres/sec.
4	De-icing facilities	NIL
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	NIL

VEPT AD 2.5 PASSENGER FACILITIES

1	Hotel(s) at or in the vicinity of aerodrome	In the City
2	Restaurant(s) at or in the vicinity of aerodrome	At AD and in the City
3	Transportation possibilities	Buses,Taxis.
4	Medical Facilities	First Aid at AD. Hospitals in the city.
5	Bank and post office at or in the vicinity of aerodrome	Banks: At AD Post office: At AD
6	Tourist office	At AD
7	Remarks	NIL

VEPT AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	Aerodrome category for fire fighting	Within ATS HR: CAT-7
2	Rescue equipment	AVBL as per category
3	Capability for removal of disabled aircraft	1. The critical aircraft for the airport is [A320]. 2. Primary responsibility for removal of disabled aircraft rests with the concerned airline. 3. The airlines may contact 'Aerodrome Coordinator for Disabled Aircraft Removal Operations' for coordinating with the agencies having Disabled Aircraft Recovery Kit. 4. Contact Details of Aerodrome Coordinator for Disabled Aircraft Removal Operations: [HOD Operations] [0612-2220683 (O)] [Email: apdpatna@aai.aero]
4	Remarks	NIL

VEPT AD 2.7 SEASONAL AVAILABILITY CLEARING

1	Type(s) of clearing equipment	NIL
2	Clearance priorities	NIL
3	Remarks	NIL

VEPT AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Designation, surface and strength of aprons	Refer Aircraft Parking/Docking Chart
2	Designation, width, surface and strength of taxiways	Refer Aircraft Parking/Docking Chart
3	Location and elevation of altimeter checkpoints	Location At apron Elevation 168FT
4	Location of VOR checkpoints	On TWYA: 253534.01N 0850525.17E ELEV: 174 FT.
5	Position of INS checkpoints	

6	Remarks	**1. Coordinates of RWY Holding positions:** a. TWY A: 253533.74N 0850525.29E, Elev: 174 FT b. TWY B: 253535.45N 0850530.12E, Elev: 174 FT c. TWY C: 253538.26N 0850537.08E, Elev: 174 FT d. TWY D: 253539.17N 0850540.09E, Elev: 174 FT e. TWY E: 253526.44N 0850522.66E, Elev: 173 FT f. TWY F: 253517.37N 0850440.14E, Elev: 175 FT **2. Coordinates of RWY and Taxi intersection:** a. TWY A: 253530.98N 0850526.52E, Elev: 174 FT b. TWY B: 253532.70N 0850531.32E, Elev: 175 FT c. TWY C: 253536.58N 0850542.09E, Elev: 175 FT d. TWY D: 253536.61N 0850542.19E, Elev: 175 FT e. TWY E: 253529.16N 0850521.46E, Elev: 174 FT f. TWY F: 253514.46N 0850440.50E, Elev: 175 FT **3**. Isolated Aircraft Parking Position (IAPP): South of Runway connected via TWY E, surface Concrete strength (PCR): 547/R/B/W/T. **4. All elevations in EGM08**

VEPT AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand identification signs, taxiway guidelines and visual docking/parking guidance system at aircraft stands	Taxiing guidance provided on R/T, Guidelines at Apron. VDGS provided on Parking stand No 7, 8, 9, 10 & 11 with aerobridge facility
2	Runway and taxiway markings and lights	RWY Markings: Designation, THR, Fixed Distance, Centreline, EDGE, Aiming Point Lights: THR, End and Edge. TWY Marking: Centreline, Holding Position, Edge Lights: Edge.
3	Stop bars (if any)	Nil
4	Remarks	NIL

VEPT AD 2.10 AERODROME OBSTACLES

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
25/TKOF 07/APCH	TREE	253513.3N 0850430.3E	210 FT	NIL	TREE
25/TKOF 07/APCH	TREE	253515.2N 0850425.2E	248 FT	NIL	TREE
25/TKOF 07/APCH	POLE	253509.6N 0850429.5E	208 FT	NIL	POLE
25/TKOF 07/APCH	POLE	253509.1N 0850424.6E	210 FT	NIL	RAILWAY ELECTRIC POLE
25/TKOF 07/APCH	TREE	253509.1N 0850419.2E	221 FT	NIL	GROUP OF TREE
25/TKOF 07/APCH	POLE	253513.1N 0850425.4E	200 FT	NIL	ELECTRIC POLE WITH TRANSFORMER
25/TKOF 07/APCH	BUILDING	253513.9N 0850423.5E	218 FT	NIL	BUILDING

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
25/TKOF 07/APCH	OTHER	253510.2N 0850432.7E	217 FT	NIL	RAILWAY TRACK CROSSING BARRIER
25/TKOF 07/APCH	OTHER	253509.8N 0850432.5E	196 FT	NIL	MOBILE ROAD TRAFFIC (ROAD ELEVATION 54.7 M. + TRAFFIC HEIGHT 5.0 M.)
25/TKOF 07/APCH	OTHER	253510.0N 0850435.1E	204 FT	NIL	MOBILE RAIL TRAFFIC (RAIL TRACK ELEVATION 54.7 M. + TRAFFIC HEIGHT 7.6 M.)
25/TKOF 07/APCH	BUILDING	253508.8N 0850432.1E	202 FT	NIL	BUILDING
25/TKOF 07/APCH	OTHER	253507.1N 0850432.9E	229 FT	NIL	FLAG ON BUILDING (BUILDING. TOP 64.4 M.)
25/TKOF 07/APCH	BUILDING	253504.7N 0850423.4E	212 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253503.8N 0850420.6E	220 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253503.2N 0850423.1E	221 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 66.0 M.)
25/TKOF 07/APCH	BUILDING	253503.3N 0850418.8E	216 FT	NIL	BUILDING
25/TKOF 07/APCH	OTHER	253500.8N 0850418.2E	224 FT	NIL	ROD ON BUILDING
25/TKOF 07/APCH	BUILDING	253459.4N 0850418.2E	221 FT	NIL	Building
25/TKOF 07/APCH	TREE	253507.8N 0850412.2E	248 FT	NIL	GROUP OF TREE
25/TKOF 07/APCH	TREE	253514.6N 0850434.3E	216 FT	NIL	TREE
25/TKOF 07/APCH	TREE	253516.0N 0850434.3E	225 FT	NIL	TREE
25/TKOF 07/APCH	OTHER	253510.5N 0850438.5E	204 FT	NIL	MOBILE RAIL TRAFFIC (RAIL TRACK ELEVATION 54.7 M. + TRAFFIC HEIGHT 7.6 M.)
25/TKOF 07/APCH	POLE	253511.0N 0850439.0E	204 FT	NIL	POLE
25/TKOF 07/APCH	POLE	253510.8N 0850437.7E	208 FT	NIL	RAILWAY ELECTRIC POLE
25/TKOF 07/APCH	POLE	253510.6N 0850435.8E	208 FT	NIL	RAILWAY ELECTRIC POLE
25/TKOF 07/APCH	POLE	253510.2N 0850434.0E	208 FT	NIL	RAILWAY ELECTRIC POLE
25/TKOF 07/APCH	BUILDING	253509.5N 0850433.5E	211 FT	NIL	RAILWAY OUTERSIGNAL BUILDING

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
25/TKOF 07/APCH	FENCE	253510.7N 0850434.9E	188 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCING TOP
25/TKOF 07/APCH	BUILDING	253516.0N 0850432.9E	187 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253516.0N 0850435.1E	198 FT	NIL	TEMPLE
25/TKOF 07/APCH	BUILDING	253515.4N 0850434.3E	191 FT	NIL	SECURITY HUT
25/TKOF 07/APCH	FENCE	253514.3N 0850434.6E	187 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCING TOP
25/TKOF 07/APCH	OTHER	253514.2N 0850432.5E	190 FT	NIL	MOBILE ROAD TRAFFIC (ROAD ELEVATION 52.9 M. + TRAFFIC HEIGHT 5.0 M.)
25/TKOF 07/APCH	TREE	253507.7N 0850422.9E	214 FT	NIL	TREE
25/TKOF 07/APCH	BUILDING	253507.6N 0850426.3E	210 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 63.7 M.)
25/TKOF 07/APCH	BRIDGE	253506.9N 0850428.4E	215 FT	NIL	BUILDING
25/TKOF 07/APCH	OTHER	253457.3N 0850403.4E	267 FT	NIL	CELLPHONE MAST
25/TKOF 07/APCH	OTHER	253444.5N 0850344.3E	314 FT	NIL	CELLPHONE MAST
25/TKOF 07/APCH	OTHER	253511.3N 0850438.6E	190 FT	NIL	MOBILE ROAD TRAFFIC (ROAD ELEVATION 53.0 M. + TRAFFIC HEIGHT 5.0 M.)
25/TKOF 07/APCH	FENCE	253511.0N 0850438.0E	189 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCING TOP
25/TKOF 07/APCH	OTHER	253511.9N 0850433.2E	191 FT	NIL	MOBILE ROAD TRAFFIC (ROAD ELEVATION 53.2 M. + TRAFFIC HEIGHT 5.0 M.)
25/TKOF 07/APCH	BUILDING	253508.0N 0850437.1E	227 FT	NIL	SINTEX TANK ON BUILDING
25/TKOF 07/APCH	BUILDING	253507.9N 0850435.3E	209 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253508.7N 0850433.0E	218 FT	NIL	BUILDING
25/TKOF 07/APCH	OTHER	253458.0N 0850415.6E	287 FT	NIL	MAST
25/TKOF 07/APCH	TREE	253516.0N 0850431.4E	227 FT	NIL	TREE

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
25/TKOF 07/APCH	BUILDING	253504.3N 0850429.6E	223 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 67.8 M.)
25/TKOF 07/APCH	BUILDING	253513.9N 0850420.2E	213 FT	NIL	SINTEX TANK ON BUILDING
25/TKOF 07/APCH	TREE	253513.8N 0850417.4E	255 FT	NIL	GROUP OF TREE(PALM)
25/TKOF 07/APCH	TREE	253515.7N 0850429.1E	215 FT	NIL	Tree
25/TKOF 07/APCH	BUILDING	253513.6N 0850422.9E	218 FT	NIL	BUILDING
25/TKOF 07/APCH	TREE	253511.5N 0850425.8E	223 FT	NIL	TREE
25/TKOF 07/APCH	BUILDING	253508.2N 0850436.1E	225 FT	NIL	SINTEX TANK ON BUILDING (BUILDING. TOP 38.2 M.)
25/TKOF 07/APCH	TREE	253508.9N 0850437.3E	224 FT	NIL	Tree
25/TKOF 07/APCH	BUILDING	253511.9N 0850425.1E	212 FT	NIL	Building
25/TKOF 07/APCH	TREE	253512.1N 0850409.5E	234 FT	NIL	GROUP OF TREE
25/TKOF 07/APCH	TREE	253512.0N 0850422.9E	208 FT	NIL	TREE
25/TKOF 07/APCH	BUILDING	253506.6N 0850430.2E	198 FT	NIL	BUILDING
25/TKOF 07/APCH	POLE	253509.4N 0850431.6E	209 FT	NIL	RAILWAY ELECTRIC POLE
25/TKOF 07/APCH	TREE	253501.2N 0850403.0E	252 FT	NIL	Group of trees
25/TKOF 07/APCH	TREE	253517.4N 0850434.4E	242 FT	NIL	Tree
25/TKOF 07/APCH	TREE	253506.2N 0850433.1E	242 FT	NIL	TREE
25/TKOF 07/APCH	BUILDING	253502.1N 0850421.1E	233 FT	NIL	SINTEX TANK ON BUILDING
25/TKOF 07/APCH	SIGN	253511.3N 0850438.2E	179 FT	NIL	SIGN BOARD
25/TKOF 07/APCH	POLE	253510.6N 0850436.3E	204 FT	NIL	POLE
25/TKOF 07/APCH	POLE	253509.9N 0850435.9E	208 FT	NIL	RAILWAY ELECTRIC POLE
25/TKOF 07/APCH	BUILDING	253507.7N 0850436.0E	210 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 63.1 M.)
25/TKOF 07/APCH	BUILDING	253508.6N 0850436.6E	214 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253508.5N 0850437.0E	227 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253508.4N 0850437.2E	214 FT	NIL	BUILDING

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
25/TKOF 07/APCH	POLE	253510.3N 0850434.4E	205 FT	NIL	POLE
25/TKOF 07/APCH	BUILDING	253510.3N 0850436.8E	205 FT	NIL	MOBILE RAIL TRAFFIC (RAIL TRACK ELEVATION 54.9 M. + TRAFFIC HEIGHT 7.6 M.)
25/TKOF 07/APCH	POLE	253509.7N 0850434.1E	208 FT	NIL	RAILWAY ELECTRIC POLE
25/TKOF 07/APCH	BUILDING	253509.6N 0850433.8E	202 FT	NIL	RAILWAY GANGHUT BUILDING
25/TKOF 07/APCH	POLE	253510.1N 0850433.1E	205 FT	NIL	Pole
25/TKOF 07/APCH	BUILDING	253508.3N 0850432.8E	218 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 65.1 M.)
25/TKOF 07/APCH	BUILDING	253506.4N 0850433.7E	223 FT	NIL	BUILDING
25/TKOF 07/APCH	TREE	253506.2N 0850432.5E	240 FT	NIL	TREE
25/TKOF 07/APCH	BUILDING	253507.0N 0850432.0E	225 FT	NIL	BUILDING
25/TKOF 07/APCH	OTHER	253513.3N 0850433.4E	189 FT	NIL	LIGHTED TOP ON LLZ HUT (HUT TOP 56.5 M.)
25/TKOF 07/APCH	TREE	253514.2N 0850433.2E	210 FT	NIL	Tree
25/TKOF 07/APCH	OTHER	253515.2N 0850434.5E	192 FT	NIL	MOBILE ROAD TRAFFIC (ROAD ELEVATION 53.4 M. + TRAFFIC HEIGHT 5.0 M.)
25/TKOF 07/APCH	TREE	253516.4N 0850436.7E	216 FT	NIL	TREE
25/TKOF 07/APCH	POLE	253516.5N 0850432.4E	198 FT	NIL	ELECTRIC POLE
25/TKOF 07/APCH	TREE	253515.8N 0850432.2E	221 FT	NIL	TREE
25/TKOF 07/APCH	TREE	253513.3N 0850432.2E	187 FT	NIL	SHED
25/TKOF 07/APCH	TREE	253513.7N 0850432.0E	216 FT	NIL	TREE
25/TKOF 07/APCH	TREE	253514.6N 0850432.0E	217 FT	NIL	Tree
25/TKOF 07/APCH	BUILDING	253510.0N 0850432.7E	196 FT	NIL	MOBILE ROAD TRAFFIC (ROAD ELEVATION 54.8 M. + TRAFFIC HEIGHT 5.0 M.)
25/TKOF 07/APCH	POLE	253509.9N 0850431.6E	208 FT	NIL	RAILWAY ELECTRIC POLE
25/TKOF 07/APCH	TREE	253508.8N 0850431.8E	227 FT	NIL	PALM TREE

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
25/TKOF 07/APCH	BUILDING	253507.4N 0850431.4E	218 FT	NIL	BUILDING
25/TKOF 07/APCH	OTHER	253507.3N 0850431.1E	219 FT	NIL	SHED ON BUILDING (BUILDING. TOP 64.7 M.)
25/TKOF 07/APCH	TREE	253505.2N 0850430.2E	229 FT	NIL	TREE
25/TKOF 07/APCH	ANTENNA	253504.4N 0850430.1E	231 FT	NIL	COMMUNICATIO N ANTENNA ON BUILDING (BUILDING. TOP 68.3 M.)
25/TKOF 07/APCH	BUILDING	253503.3N 0850427.0E	206 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253504.5N 0850426.8E	207 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253505.2N 0850427.8E	216 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 64.8 M.)
25/TKOF 07/APCH	BUILDING	253506.4N 0850429.4E	215 FT	NIL	Building
25/TKOF 07/APCH	BUILDING	253506.2N 0850428.6E	216 FT	NIL	Building
25/TKOF 07/APCH	BUILDING	253507.3N 0850430.0E	213 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253507.9N 0850430.2E	208 FT	NIL	Building
25/TKOF 07/APCH	BUILDING	253507.3N 0850429.1E	210 FT	NIL	Building
25/TKOF 07/APCH	BUILDING	253507.8N 0850428.6E	216 FT	NIL	Building
25/TKOF 07/APCH	TREE	253509.0N 0850429.5E	216 FT	NIL	PALM TREE
25/TKOF 07/APCH	POLE	253509.2N 0850429.3E	207 FT	NIL	POLE
25/TKOF 07/APCH	OTHER	253508.9N 0850424.9E	205 FT	NIL	MOBILE RAIL TRAFFIC (RAIL TRACK ELEVATION 54.8 M. + TRAFFIC HEIGHT 7.6 M.)
25/TKOF 07/APCH	POLE	253509.3N 0850427.3E	207 FT	NIL	POLE
25/TKOF 07/APCH	POLE	253511.8N 0850426.0E	201 FT	NIL	ELECTRIC POLE
25/TKOF 07/APCH	BUILDING	253512.1N 0850426.3E	197 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 58.7 M.)
25/TKOF 07/APCH	BUILDING	253512.4N 0850425.5E	220 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 65.5 M.)

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
25/TKOF 07/APCH	BUILDING	253512.1N 0850425.5E	216 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 64.6 M.)
25/TKOF 07/APCH	BUILDING	253510.4N 0850425.3E	209 FT	NIL	BUILDING
25/TKOF 07/APCH	TREE	253509.6N 0850425.2E	226 FT	NIL	TREE
25/TKOF 07/APCH	POLE	253508.7N 0850424.8E	211 FT	NIL	POLE
25/TKOF 07/APCH	BUILDING	253511.5N 0850424.1E	209 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253510.8N 0850424.0E	207 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253511.4N 0850423.3E	216 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253510.0N 0850423.3E	205 FT	NIL	Building
25/TKOF 07/APCH	BUILDING	253509.8N 0850422.9E	208 FT	NIL	Building
25/TKOF 07/APCH	BUILDING	253509.0N 0850423.0E	209 FT	NIL	RAILWAY POLE
25/TKOF 07/APCH	BUILDING	253507.7N 0850423.8E	212 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 63.6 M.)
25/TKOF 07/APCH	BUILDING	253507.7N 0850424.2E	208 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 62.4 M.)
25/TKOF 07/APCH	BUILDING	253507.1N 0850424.4E	213 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 64.7 M.)
25/TKOF 07/APCH	BUILDING	253506.8N 0850424.9E	214 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253507.4N 0850425.7E	207 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 62.0 M.)
25/TKOF 07/APCH	BUILDING	253507.2N 0850426.3E	210 FT	NIL	TEMPLE
25/TKOF 07/APCH	BUILDING	253507.8N 0850426.9E	215 FT	NIL	Building
25/TKOF 07/APCH	BUILDING	253507.9N 0850427.0E	212 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 63.3 M.)
25/TKOF 07/APCH	ANTENNA	253508.0N 0850427.8E	213 FT	NIL	DISH ANTENNA ON BUILDING (BUILDING. TOP 64.2 M.)
25/TKOF 07/APCH	BUILDING	253507.3N 0850428.1E	214 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253507.3N 0850427.2E	214 FT	NIL	BUILDING

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
25/TKOF 07/APCH	BUILDING	253506.9N 0850427.0E	213 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253506.7N 0850427.7E	215 FT	NIL	Building
25/TKOF 07/APCH	BUILDING	253506.7N 0850428.2E	215 FT	NIL	Building
25/TKOF 07/APCH	BUILDING	253505.9N 0850426.8E	216 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 65.0 M.)
25/TKOF 07/APCH	BUILDING	253506.3N 0850426.7E	211 FT	NIL	Building
25/TKOF 07/APCH	BUILDING	253506.4N 0850425.9E	218 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 64.5 M.)
25/TKOF 07/APCH	BUILDING	253506.2N 0850425.3E	217 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 65.5 M.)
25/TKOF 07/APCH	BUILDING	253506.1N 0850424.8E	218 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 65.7 M.)
25/TKOF 07/APCH	BUILDING	253506.2N 0850424.7E	215 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253505.3N 0850424.7E	216 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253505.3N 0850425.2E	220 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 65.5 M.)
25/TKOF 07/APCH	BUILDING	253504.9N 0850425.7E	220 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 66.3 M.)
25/TKOF 07/APCH	BUILDING	253504.4N 0850425.4E	221 FT	NIL	Building
25/TKOF 07/APCH	BUILDING	253510.6N 0850421.8E	210 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253511.1N 0850421.8E	214 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253512.5N 0850422.4E	214 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 65.1 M.)
25/TKOF 07/APCH	TREE	253512.2N 0850421.7E	242 FT	NIL	TREE
25/TKOF 07/APCH	BUILDING	253513.7N 0850421.6E	211 FT	NIL	BUILDING
25/TKOF 07/APCH	POLE	253513.1N 0850426.0E	199 FT	NIL	ELECTRIC POLE WITH TRANSFORMER
25/TKOF 07/APCH	BUILDING	253513.4N 0850422.7E	219 FT	NIL	BUILDING

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
25/TKOF 07/APCH	BUILDING	253513.7N 0850423.1E	219 FT	NIL	Building
25/TKOF 07/APCH	TREE	253511.2N 0850420.7E	232 FT	NIL	PALM TREE
25/TKOF 07/APCH	BUILDING	253511.3N 0850419.2E	219 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 65.1 M.)
25/TKOF 07/APCH	BUILDING	253510.7N 0850417.7E	221 FT	NIL	Building
25/TKOF 07/APCH	BUILDING	253510.1N 0850415.2E	221 FT	NIL	BUILDING
25/TKOF 07/APCH	TREE	253510.7N 0850414.2E	238 FT	NIL	GROUP OF TREE (PALM)
25/TKOF 07/APCH	POLE	253508.3N 0850421.3E	209 FT	NIL	RAILWAY POLE
25/TKOF 07/APCH	TREE	253507.4N 0850419.8E	225 FT	NIL	GROUP OF TREE(PALM)
25/TKOF 07/APCH	BUILDING	253506.1N 0850418.8E	216 FT	NIL	BUILDING
25/TKOF 07/APCH	TREE	253505.8N 0850420.0E	236 FT	NIL	TREE
25/TKOF 07/APCH	ANTENNA	253506.4N 0850421.0E	229 FT	NIL	ANTENNA ON BUILDING (BUILDING. TOP 63.5 M.)
25/TKOF 07/APCH	BUILDING	253506.1N 0850423.5E	216 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 64.7 M.)
25/TKOF 07/APCH	BUILDING	253505.7N 0850422.5E	220 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253506.0N 0850422.2E	222 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253505.1N 0850421.5E	221 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253504.8N 0850422.8E	214 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 64.2 M.)
25/TKOF 07/APCH	BUILDING	253503.9N 0850422.3E	217 FT	NIL	Building
25/TKOF 07/APCH	BUILDING	253502.8N 0850423.3E	224 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 67.1 M.)
25/TKOF 07/APCH	BUILDING	253458.1N 0850417.6E	227 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 68.6 M.)
25/TKOF 07/APCH	BUILDING	253458.2N 0850417.0E	230 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 69.5 M.)
25/TKOF 07/APCH	BUILDING	253500.4N 0850416.0E	226 FT	NIL	BIRLA TEMPLE

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
25/TKOF 07/APCH	BUILDING	253500.6N 0850415.1E	229 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 68.4 M.)
25/TKOF 07/APCH	BUILDING	253503.0N 0850417.4E	226 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 67.2 M.)
25/TKOF 07/APCH	BUILDING	253502.9N 0850421.1E	218 FT	NIL	BUILDING
25/TKOF 07/APCH	BUILDING	253503.5N 0850421.2E	219 FT	NIL	BUILDING
25/TKOF 07/APCH	TREE	253503.9N 0850420.9E	251 FT	NIL	TREE
25/TKOF 07/APCH	OTHER	253458.4N 0850413.6E	248 FT	NIL	MULTI MAST ON BUILDING (BUILDING. TOP 66.7 M.)
25/TKOF 07/APCH	OTHER	253458.6N 0850411.6E	234 FT	NIL	FLAG ON BUILDING (BUILDING. TOP 66.5 M.)
25/TKOF 07/APCH	OTHER	253509.0N 0850434.3E	211 FT	NIL	CATENARY MAST
25/TKOF 07/APCH	TREE	253514.6N 0850434.0E	196 FT	NIL	GROUP OF TREES
25/TKOF 07/APCH	OTHER	253513.4N 0850433.1E	185 FT	NIL	TIN SHEET COVER ON TOP OF BOUNDARY WALL
25/TKOF 07/APCH	TREE	253510.6N 0850433.1E	188 FT	NIL	TIN SHEET COVER ON TOP OF BOUNDARY WALL
25/TKOF 07/APCH	OTHER	253509.4N 0850433.1E	228 FT	NIL	MAST NEAR RLY GUMTI BUILDING
25/TKOF 07/APCH	OTHER	253509.2N 0850432.3E	204 FT	NIL	VEHICLE HEIGHT RESTRICTION BAR (FLAG TOP=62.1M)
25/TKOF 07/APCH	BUILDING	253512.6N 0850414.7E	224 FT	NIL	WATER TANK ON BUILDING (BUILDING ELEVATION=67.2 M)
25/TKOF 07/APCH	OTHER	253500.7N 0850413.2E	244 FT	NIL	MAST ON BUILDING (BUILDING ELEVATION=67.5 M)
25/TKOF 07/APCH	NAVAID	253513.1N 0850436.6E	178 FT	NIL	LOCALIZER MONITOR ANTENNA
25/TKOF 07/APCH	BUILDING	253507.4N 0850433.6E	235 FT	NIL	SINTEX TANK ON BUILDING (BUILDING TOP=70.5 M.)

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
25/TKOF 07/APCH	BUILDING	253506.4N 0850432.8E	206 FT	NIL	BUILDING
25/TKOF 07/APCH	TREE	253513.9N 0850432.1E	216 FT	NIL	TREE
25/TKOF 07/APCH	BUILDING	253508.2N 0850432.7E	217 FT	NIL	STAIRCASE ROOM TOP ON BUILDING
25/TKOF 07/APCH	OTHER	253516.9N 0850435.8E	208 FT	NIL	LIGHTENING ROD ON SPEEDCRAFTS INFRATECH FACTORY SHED (SHED TOP=62.6M)
25/TKOF 07/APCH	OTHER	253513.2N 0850433.1E	185 FT	NIL	GATE WITH FENCING TOP (GATE TOP - 55.87 M.)
25/TKOF 07/APCH	POLE	253512.6N 0850433.5E	188 FT	NIL	LIGHTED POLE
25/TKOF 07/APCH	OTHER	253511.5N 0850434.1E	184 FT	NIL	LIGHT ON LOCALIZER ANTENNA (ANTENNA TOP=55.5 M.)
25/TKOF 07/APCH	BUILDING	253509.6N 0850418.3E	216 FT	NIL	BUILDING U/C
25/TKOF 07/APCH	BUILDING	253512.7N 0850417.1E	224 FT	NIL	BUILDING U/C
25/TKOF 07/APCH	BUILDING	253512.0N 0850421.2E	220 FT	NIL	BUILDING U/C
25/TKOF 07/APCH	TREE	253508.9N 0850433.7E	220 FT	NIL	Group of trees
25/TKOF 07/APCH	OTHER	253514.1N 0850428.5E	219 FT	NIL	MAST
25/TKOF 07/APCH	OTHER	253511.5N 0850408.5E	233 FT	NIL	SHED ON BUILDING (BUILDING TOP=68.1 M.)
25/TKOF 07/APCH	OTHER	253459.4N 0850412.2E	239 FT	NIL	SHED ON BUILDING (BUILDING TOP=70.7 M.)
25/APCH 07/TKOF	TREE	253544.5N 0850552.4E	239 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	OTHER	253543.3N 0850552.8E	190 FT	NIL	MOBILE ROAD TRAFFIC (ROAD ELEVATION 52.9 M. + TRAFFIC HEIGHT 5.0 M.)
25/APCH 07/TKOF	TREE	253543.2N 0850554.3E	210 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253536.9N 0850556.7E	250 FT	NIL	TREE

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
25/APCH 07/TKOF	OTHER	253538.5N 0850556.2E	189 FT	NIL	MOBILE ROAD TRAFFIC (ROAD ELEVATION 52.5 M. + TRAFFIC HEIGHT 5.0 M.)
25/APCH 07/TKOF	TREE	253540.2N 0850604.7E	220 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253546.4N 0850607.3E	228 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253545.5N 0850607.7E	242 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253546.5N 0850608.6E	218 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253547.0N 0850609.7E	228 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253549.0N 0850609.2E	230 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253549.0N 0850611.6E	238 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253550.5N 0850612.1E	234 FT	NIL	Group of trees
25/APCH 07/TKOF	BUILDING	253552.5N 0850612.0E	237 FT	NIL	Security hut (l)
25/APCH 07/TKOF	TREE	253553.4N 0850615.4E	263 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253550.7N 0850616.6E	246 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253551.9N 0850623.1E	255 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253553.9N 0850624.8E	263 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253546.1N 0850630.2E	256 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253544.1N 0850628.1E	237 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253544.3N 0850626.3E	249 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253543.4N 0850618.3E	239 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253545.3N 0850617.4E	226 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253546.0N 0850616.4E	239 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253544.5N 0850616.3E	245 FT	NIL	Group of trees
25/APCH 07/TKOF	OTHER	253558.5N 0850701.2E	338 FT	NIL	CLOCK TOWER ROD TOP (LIGHTED TOP 101.9 M. & TOWER TOP 101.7 M.)
25/APCH 07/TKOF	TREE	253544.7N 0850600.0E	206 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253548.3N 0850605.3E	219 FT	NIL	Group of trees

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
25/APCH 07/TKOF	TREE	253544.0N 0850555.3E	219 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253543.8N 0850556.1E	219 FT	NIL	Tree
25/APCH 07/TKOF	TREE	253542.1N 0850558.0E	189 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253541.3N 0850600.5E	200 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253550.3N 0850608.5E	229 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253557.6N 0850622.9E	267 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253539.3N 0850602.4E	208 FT	NIL	Tree
25/APCH 07/TKOF	TREE	253546.7N 0850600.6E	201 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253539.1N 0850556.6E	190 FT	NIL	MOBILE ROAD TRAFFIC (ROAD ELEVATION 52.8 M. + TRAFFIC HEIGHT 5.0 M.)
25/APCH 07/TKOF	FENCE	253538.3N 0850556.2E	183 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCING TOP
25/APCH 07/TKOF	TREE	253538.7N 0850556.5E	183 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCING TOP
25/APCH 07/TKOF	OTHER	253542.9N 0850552.1E	187 FT	NIL	MOBILE ROAD TRAFFIC (ROAD ELEVATION 52.0 M. + TRAFFIC HEIGHT 5.0 M.)
25/APCH 07/TKOF	FENCE	253543.3N 0850551.8E	181 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCING TOP
25/APCH 07/TKOF	OTHER	253541.5N 0850618.9E	188 FT	NIL	MOBILE ROAD TRAFFIC (ROAD ELEVATION 52.3 M. + TRAFFIC HEIGHT 5.0 M.)
25/APCH 07/TKOF	FENCE	253543.1N 0850552.4E	182 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCING TOP
25/APCH 07/TKOF	TREE	253540.1N 0850606.5E	240 FT	NO	Group of trees
25/APCH 07/TKOF	TREE	253544.1N 0850557.2E	222 FT	NO	Group of trees
25/APCH 07/TKOF	TREE	253544.7N 0850557.7E	217 FT	NO	Group of trees
25/APCH 07/TKOF	TREE	253544.3N 0850558.3E	216 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253542.0N 0850559.5E	199 FT	NIL	Group of trees

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
25/APCH 07/TKOF	TREE	253543.3N 0850600.8E	205 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253544.2N 0850601.1E	212 FT	NIL	TREE
25/APCH 07/TKOF	TREE	253544.5N 0850602.3E	211 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253545.0N 0850604.9E	201 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253545.4N 0850601.5E	212 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253547.6N 0850601.4E	235 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253547.3N 0850559.2E	248 FT	NIL	TREE
25/APCH 07/TKOF	TREE	253548.6N 0850604.2E	243 FT	NIL	TREE
25/APCH 07/TKOF	TREE	253549.3N 0850605.4E	260 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253548.5N 0850607.8E	239 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253545.1N 0850612.5E	227 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253540.5N 0850608.6E	253 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253542.9N 0850613.7E	250 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253544.6N 0850618.9E	241 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253550.9N 0850620.6E	246 FT	NIL	Group of trees
25/APCH 07/TKOF	TREE	253551.5N 0850613.6E	246 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253554.4N 0850612.4E	290 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253549.8N 0850627.2E	248 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253547.9N 0850559.5E	237 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253549.1N 0850601.6E	254 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253550.3N 0850602.1E	269 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253550.5N 0850602.9E	260 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253543.7N 0850553.3E	224 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253544.8N 0850556.0E	224 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253545.9N 0850557.6E	247 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253546.7N 0850558.6E	247 FT	NIL	GROUP OF TREE

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
25/APCH 07/TKOF	TREE	253550.3N 0850605.8E	244 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253544.9N 0850609.5E	238 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253540.6N 0850602.8E	212 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253536.9N 0850553.8E	225 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	BUILDING	253536.9N 0850556.1E	194 FT	NIL	BUILDING
25/APCH 07/TKOF	TREE	253536.0N 0850554.5E	247 FT	NIL	Tree
25/APCH 07/TKOF	TREE	253546.3N 0850556.0E	243 FT	NIL	Tree
25/APCH 07/TKOF	TREE	253538.5N 0850557.8E	231 FT	NIL	TREE
25/APCH 07/TKOF	TREE	253544.2N 0850553.0E	238 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	OTHER	253551.1N 0850610.7E	243 FT	NIL	MAST
25/APCH 07/TKOF	TREE	253542.4N 0850600.5E	205 FT	NIL	Tree
25/APCH 07/TKOF	TREE	253553.0N 0850609.1E	223 FT	NIL	Tree
25/APCH 07/TKOF	TREE	253544.9N 0850554.9E	242 FT	NIL	Tree
25/APCH 07/TKOF	TREE	253547.1N 0850619.3E	240 FT	NIL	Tree
25/APCH 07/TKOF	TREE	253544.3N 0850613.6E	224 FT	NIL	Tree
25/APCH 07/TKOF	OTHER	253541.9N 0850557.0E	186 FT	NIL	APPROACH LIGHT
25/APCH 07/TKOF	BUILDING	253543.9N 0850549.5E	191 FT	NIL	SECURITY HUT
25/APCH 07/TKOF	TREE	253544.3N 0850549.9E	190 FT	NIL	MOBILE ROAD TRAFFIC (ROAD ELEVATION 52.9 M. + TRAFFIC HEIGHT 5.0 M.)
25/APCH 07/TKOF	TREE	253538.3N 0850556.4E	221 FT	NIL	Tree
25/APCH 07/TKOF	TREE	253537.7N 0850556.9E	237 FT	NIL	Tree
25/APCH 07/TKOF	TREE	253546.6N 0850557.2E	243 FT	NIL	Tree
25/APCH 07/TKOF	TREE	253537.0N 0850557.8E	250 FT	NIL	Tree
25/APCH 07/TKOF	TREE	253540.8N 0850559.3E	198 FT	NIL	Tree
25/APCH 07/TKOF	OTHER	253537.9N 0850600.3E	201 FT	NIL	PIPE ON BUILDING (BUILDING TOP 58.1 M.)

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
25/APCH 07/TKOF	TREE	253540.0N 0850601.4E	217 FT	NIL	Tree
25/APCH 07/TKOF	TREE	253537.6N 0850601.7E	257 FT	NIL	GROUP OF PALM TREE
25/APCH 07/TKOF	TREE	253539.3N 0850602.9E	221 FT	NIL	Tree
25/APCH 07/TKOF	TREE	253539.5N 0850603.2E	216 FT	NIL	Tree
25/APCH 07/TKOF	TREE	253541.4N 0850603.3E	214 FT	NIL	Tree
25/APCH 07/TKOF	TREE	253540.1N 0850603.6E	218 FT	NIL	TREE
25/APCH 07/TKOF	TREE	253540.8N 0850603.8E	207 FT	NIL	Tree
25/APCH 07/TKOF	TREE	253540.7N 0850604.1E	214 FT	NIL	TREE
25/APCH 07/TKOF	TREE	253539.0N 0850604.4E	219 FT	NIL	Tree
25/APCH 07/TKOF	TREE	253540.7N 0850604.5E	221 FT	NIL	TREE
25/APCH 07/TKOF	TREE	253538.5N 0850605.0E	231 FT	NIL	Tree
25/APCH 07/TKOF	TREE	253540.2N 0850605.0E	212 FT	NIL	TREE
25/APCH 07/TKOF	TREE	253540.4N 0850606.3E	238 FT	NIL	TREE
25/APCH 07/TKOF	TREE	253551.6N 0850608.7E	231 FT	NIL	TREE
25/APCH 07/TKOF	TREE	253545.8N 0850610.2E	227 FT	NIL	TREE
25/APCH 07/TKOF	OTHER	253544.9N 0850610.2E	236 FT	NIL	CELLPHONE MAST (PORTABLE)
25/APCH 07/TKOF	TREE	253550.9N 0850610.6E	236 FT	NIL	TREE
25/APCH 07/TKOF	TREE	253552.7N 0850607.4E	275 FT	NIL	Tree
25/APCH 07/TKOF	TREE	253556.3N 0850616.1E	242 FT	NIL	TREE
25/APCH 07/TKOF	TREE	253554.7N 0850614.0E	247 FT	NIL	Tree
25/APCH 07/TKOF	OTHER	253544.9N 0850619.6E	232 FT	NIL	MAST
25/APCH 07/TKOF	TREE	253547.2N 0850612.0E	236 FT	NIL	TREE
25/APCH 07/TKOF	TREE	253550.0N 0850609.4E	265 FT	NIL	LYPTUS TREE
25/APCH 07/TKOF	TREE	253543.4N 0850607.0E	235 FT	NIL	TREE
25/APCH 07/TKOF	TREE	253544.6N 0850607.3E	219 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253538.7N 0850607.4E	244 FT	NIL	TREE

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
25/APCH 07/TKOF	TREE	253543.8N 0850604.0E	193 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	OTHER	253540.4N 0850552.8E	181 FT	NIL	APPROACH LIGHT
25/APCH 07/TKOF	TREE	253551.0N 0850624.3E	240 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253549.2N 0850624.9E	244 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253543.4N 0850606.2E	233 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253541.2N 0850605.7E	221 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	TREE	253542.7N 0850555.9E	185 FT	NIL	GROUP OF TREE
25/APCH 07/TKOF	BUILDING	253536.3N 0850554.8E	188 FT	NIL	HOUSE
25/APCH 07/TKOF	OTHER	253620.2N 0850758.5E	414 FT	NIL	MAST LIGHTED TOP
25/APCH 07/TKOF	OTHER	253620.8N 0850757.0E	404 FT	NIL	P & T MAST
25/APCH 07/TKOF	FENCE	253544.1N 0850549.5E	182 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCING TOP
In circling area and at AD	BUILDING	253516.8N 0850430.4E	207 FT	NIL	PHOOLTAS FACTORY
In circling area and at AD	OTHER	253517.1N 0850437.7E	205 FT	NIL	SHED TRUSS TOP
In circling area and at AD	OTHER	253510.7N 0850440.4E	204 FT	NIL	MOBILE RAIL TRAFFIC (RAIL TRACK ELEVATION 54.7 M. + TRAFFIC HEIGHT 7.6 M.)
In circling area and at AD	FENCE	253512.2N 0850443.3E	187 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCING TOP
In circling area and at AD	POLE	253510.9N 0850441.6E	210 FT	NIL	ELECTRIC POLE
In circling area and at AD	OTHER	253511.1N 0850440.4E	203 FT	NIL	MOBILE RAIL TRAFFIC (RAIL TRACK ELEVATION 54.4 M. + TRAFFIC HEIGHT 7.6 M.)
In circling area and at AD	POLE	253510.9N 0850440.0E	208 FT	NIL	RAILWAY ELECTRIC POLE
In circling area and at AD	OTHER	253511.3N 0850445.3E	204 FT	NIL	MOBILE RAIL TRAFFIC (RAIL TRACK ELEVATION 54.6 M. + TRAFFIC HEIGHT 7.6 M.)
In circling area and at AD	POLE	253511.8N 0850446.3E	209 FT	NIL	LIGHT POLE

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
In circling area and at AD	POLE	253511.7N 0850445.2E	210 FT	NIL	RAILWAY ELECTRIC POLE
In circling area and at AD	POLE	253511.5N 0850444.1E	210 FT	NIL	RAILWAY ELECTRIC POLE
In circling area and at AD	POLE	253511.3N 0850442.0E	210 FT	NIL	RAILWAY LIGHT POLE
In circling area and at AD	POLE	253511.4N 0850443.0E	210 FT	NIL	POLE
In circling area and at AD	POLE	253512.0N 0850448.8E	208 FT	NIL	ELECTRIC POLE
In circling area and at AD	TREE	253520.5N 0850432.5E	248 FT	NIL	PALM TREE
In circling area and at AD	OTHER	253521.7N 0850454.1E	196 FT	NIL	WDI LGT TOP (WDI TOP 57.3 M.)
In circling area and at AD	OTHER	253512.5N 0850452.4E	214 FT	NIL	RAILWAY FOOTOVER BRIDGE
In circling area and at AD	TREE	253510.7N 0850446.1E	227 FT	NIL	GROUP OF TREE
In circling area and at AD	OTHER	253513.0N 0850444.8E	195 FT	NIL	SECURITY HUT LIGHTED TOP (HUT TOP 58.9 M.)
In circling area and at AD	BUILDING	253507.9N 0850444.2E	222 FT	NIL	BUILDING
In circling area and at AD	OTHER	253456.4N 0850422.1E	288 FT	NIL	CELLPHONE MAST
In circling area and at AD	BUILDING	253516.3N 0850427.3E	219 FT	NIL	PHOOLTAS FACTORY TRUSS TOP
In circling area and at AD	OTHER	253510.4N 0850449.0E	247 FT	NIL	FLOOD LIGHT MAST (L)
In circling area and at AD	BUILDING	253506.6N 0850440.9E	223 FT	NIL	SINTEX TANK ON BUILDING
In circling area and at AD	TREE	253522.2N 0850439.0E	266 FT	NIL	GROUP OF TREE
In circling area and at AD	TREE	253518.1N 0850425.1E	246 FT	NIL	GROUP OF TREE
In circling area and at AD	BUILDING	253514.8N 0850420.8E	212 FT	NIL	SINTEX TANK ON BUILDING
In circling area and at AD	TREE	253518.0N 0850433.7E	235 FT	NIL	TREE
In circling area and at AD	BUILDING	253508.4N 0850442.7E	226 FT	NIL	SINTEX TANK ON BUILDING (BUILDING. TOP 67.5 M.)
In circling area and at AD	BUILDING	253508.8N 0850445.3E	233 FT	NIL	BUILDING
In circling area and at AD	BUILDING	253509.3N 0850442.9E	208 FT	NIL	TEMPLE
In circling area and at AD	BUILDING	253509.4N 0850448.0E	219 FT	NIL	BUILDING
In circling area and at AD	TREE	253510.4N 0850452.6E	238 FT	NIL	GROUP OF TREE

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
In circling area and at AD	OTHER	253510.9N 0850450.5E	229 FT	NIL	RAILWAY MAST ON BUILDING
In circling area and at AD	BUILDING	253508.1N 0850440.1E	224 FT	NIL	SINTEX TANK ON BUILDING (BUILDING. TOP 67.3 M.)
In circling area and at AD	TREE	253526.4N 0850449.9E	247 FT	NIL	GROUP OF TREE
In circling area and at AD	OTHER	253522.5N 0850452.3E	192 FT	NIL	SECURITY HUT LIGHTED TOP(HUT TOP 58.0 M.)
In circling area and at AD	TREE	253517.1N 0850437.8E	220 FT	NIL	GROUP OF TREE
In circling area and at AD	OTHER	253514.7N 0850458.6E	193 FT	NIL	SECURITY HUT LIGHTED TOP(HUT TOP 58.6 M.)
In circling area and at AD	TREE	253513.1N 0850448.6E	220 FT	NIL	Group of trees
In circling area and at AD	TREE	253513.5N 0850454.2E	210 FT	NIL	TREE
In circling area and at AD	TREE	253512.4N 0850445.7E	213 FT	NIL	TREE
In circling area and at AD	FENCE	253514.2N 0850454.9E	188 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCING TOP
In circling area and at AD	OTHER	253519.8N 0850446.3E	188 FT	NIL	MOBILE ROAD TRAFFIC (ROAD ELEVATION 52.2 M. + TRAFFIC HEIGHT 5.0 M.)
In circling area and at AD	TREE	253520.9N 0850438.4E	240 FT	NIL	Tree
In circling area and at AD	TREE	253515.7N 0850424.4E	228 FT	NIL	TREE
In circling area and at AD	OTHER	253456.4N 0850422.1E	285 FT	NIL	CELLPHONE MAST
In circling area and at AD	BUILDING	253518.7N 0850434.4E	201 FT	NIL	BUILDING
In circling area and at AD	OTHER	253511.0N 0850449.6E	221 FT	NIL	MAST
In circling area and at AD	POLE	253512.9N 0850455.3E	213 FT	NIL	ELECTRIC POLE
In circling area and at AD	POLE	253513.2N 0850446.3E	197 FT	NIL	LIGHT POLE
In circling area and at AD	BUILDING	253520.0N 0850437.0E	215 FT	NIL	BUILDING
In circling area and at AD	OTHER	253516.8N 0850427.6E	219 FT	NIL	SPEED CRFT.SHED
In circling area and at AD	BUILDING	253517.4N 0850437.6E	204 FT	NIL	BUILDING
In circling area and at AD	TREE	253519.0N 0850432.6E	220 FT	NIL	TREE

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
In circling area and at AD	TREE	253526.4N 0850448.3E	259 FT	NIL	LYPTUS TREE
In circling area and at AD	POLE	253511.3N 0850448.6E	208 FT	NIL	POLE
In circling area and at AD	POLE	253511.9N 0850447.4E	210 FT	NIL	RAILWAY ELECTRIC POLE
In circling area and at AD	POLE	253512.1N 0850446.3E	203 FT	NIL	POLE
In circling area and at AD	BUILDING	253509.4N 0850446.3E	217 FT	NIL	BUILDING
In circling area and at AD	BUILDING	253508.7N 0850446.6E	221 FT	NIL	SINTEX TANK ON BUILDING (BUILDING. TOP 66.8 M.)
In circling area and at AD	BUILDING	253506.4N 0850437.2E	222 FT	NIL	SINTEX TANK ON BUILDING (BUILDING. TOP 67.1 M.)
In circling area and at AD	BUILDING	253507.4N 0850439.3E	226 FT	NIL	SINTEX TANK ON BUILDING (BUILDING. TOP 68.0 M.)
In circling area and at AD	OTHER	253507.7N 0850439.9E	235 FT	NIL	FLAG ON BUILDING (BUILDING. TOP 68.3 M.)
In circling area and at AD	BUILDING	253508.6N 0850442.0E	217 FT	NIL	BUILDING
In circling area and at AD	BUILDING	253508.3N 0850440.5E	221 FT	NIL	BUILDING
In circling area and at AD	POLE	253511.6N 0850441.8E	204 FT	NIL	POLE
In circling area and at AD	FENCE	253511.4N 0850440.7E	188 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCING ON TOP
In circling area and at AD	POLE	253511.3N 0850440.4E	204 FT	NIL	POLE
In circling area and at AD	BUILDING	253504.0N 0850432.9E	228 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 68.3 M.)
In circling area and at AD	BUILDING	253502.7N 0850431.6E	231 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 69.3 M.)
In circling area and at AD	FENCE	253517.1N 0850438.4E	187 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCING TOP
In circling area and at AD	BUILDING	253502.8N 0850429.8E	225 FT	NIL	BUILDING
In circling area and at AD	BUILDING	253502.1N 0850428.4E	221 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 66.1 M.)

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
In circling area and at AD	BUILDING	253501.9N 0850428.0E	218 FT	NIL	BUILDING
In circling area and at AD	TREE	253500.6N 0850426.7E	246 FT	NIL	PALM TREE
In circling area and at AD	BUILDING	253501.6N 0850426.6E	218 FT	NIL	BUILDING
In circling area and at AD	BUILDING	253501.7N 0850425.6E	222 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 66.9 M.)
In circling area and at AD	TREE	253515.0N 0850417.4E	226 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 68.8 M.)
In circling area and at AD	BUILDING	253500.7N 0850423.8E	224 FT	NIL	SINTEX TANK ON BUILDING (BUILDING.TOP 66.8 M.)
In circling area and at AD	BUILDING	253457.5N 0850418.5E	230 FT	NIL	BUILDING
In circling area and at AD	TREE	253518.5N 0850432.1E	245 FT	NIL	GROUP OF TREES
In circling area and at AD	POLE	253514.7N 0850458.4E	198 FT	NIL	LIGHT POLE
In circling area and at AD	BUILDING	253509.0N 0850445.0E	229 FT	NIL	Building
In circling area and at AD	BUILDING	253507.7N 0850437.0E	219 FT	NIL	BUILDING
In circling area and at AD	POLE	253511.3N 0850442.5E	208 FT	NIL	RAILWAY ELECTRIC POLE
In circling area and at AD	BUILDING	253508.0N 0850437.6E	230 FT	NIL	SINTEX TANK ON BUILDING (BUILDING TOP=69.2 M.)
In circling area and at AD	BUILDING	253508.1N 0850444.1E	225 FT	NIL	SINTEX TANK ON BUILDING (BUILDING TOP=67.2 M.)
In circling area and at AD	BUILDING	253510.9N 0850449.8E	210 FT	NIL	RAILWAY STATION BUILDING
In circling area and at AD	OTHER	253515.7N 0850459.2E	183 FT	NIL	COOLING PIT TOP
In circling area and at AD	BUILDING	253508.5N 0850440.3E	225 FT	NIL	WATER TANK TOP ON BUILDING
In circling area and at AD	OTHER	253508.8N 0850445.5E	234 FT	NIL	PVC PIPE TOP ON BUILDING (BUILDING ELEVATION=70.9 M)
In circling area and at AD	BUILDING	253508.8N 0850449.2E	230 FT	NIL	BUILDING
In circling area and at AD	OTHER	253511.3N 0850449.2E	224 FT	NIL	MAST

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
In circling area and at AD	OTHER	253512.6N 0850453.2E	207 FT	NIL	CATENARY MAST
In circling area and at AD	TREE	253526.8N 0850448.3E	259 FT	NIL	GROUP OF TREES
In circling area and at AD	TREE	253522.2N 0850438.8E	266 FT	NIL	GROUP OF TREES
In circling area and at AD	TREE	253517.1N 0850437.9E	216 FT	NIL	PIPAL TREE
In circling area and at AD	TREE	253519.3N 0850438.1E	211 FT	NIL	GROUP OF TREE
In circling area and at AD	TREE	253517.6N 0850438.4E	187 FT	NIL	LIGHT POLE
In circling area and at AD	BUILDING	253517.2N 0850438.6E	194 FT	NIL	SECURITY HUT
In circling area and at AD	POLE	253521.8N 0850441.9E	201 FT	NIL	LIGHT POLE
In circling area and at AD	TREE	253522.4N 0850443.0E	240 FT	NIL	GROUP OF TREE
In circling area and at AD	OTHER	253525.2N 0850443.1E	248 FT	NIL	MAST
In circling area and at AD	OTHER	253507.9N 0850443.7E	232 FT	NIL	CELLPHONE MAST
In circling area and at AD	POLE	253522.5N 0850443.8E	203 FT	NIL	LIGHT POLE
In circling area and at AD	POLE	253523.4N 0850446.4E	203 FT	NIL	LIGHT POLE
In circling area and at AD	TREE	253524.5N 0850446.7E	239 FT	NIL	GROUP OF TREE
In circling area and at AD	BUILDING	253522.2N 0850452.9E	182 FT	NIL	BIRD CHASER HUT
In circling area and at AD	OTHER	253506.8N 0850438.7E	232 FT	NIL	CELLPHONE MAST ON BUILDING (BUILDING TOP=65.4M.)
In circling area and at AD	OTHER	253515.0N 0850413.1E	258 FT	NIL	CELLPHONE MAST ON BUILDING (BUILDING TOP=69.0 M.)
In circling area and at AD	OTHER	253516.2N 0850425.6E	226 FT	NIL	FLOOD LIGHT MAST
In circling area and at AD	BUILDING	253504.1N 0850434.9E	236 FT	NIL	SINTEX TANK ON BUILDING (BUILDING TOP=69.9 M.)
In circling area and at AD	OTHER	253437.7N 0850359.6E	325 FT	NIL	CELLPHONE MAST
In circling area and at AD	BUILDING	253534.8N 0850552.0E	198 FT	NIL	BUILDING
In circling area and at AD	OTHER	253535.7N 0850551.8E	186 FT	NIL	SECURITY HUT LIGHTED TOP(HUT TOP 56.6 M.)

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
In circling area and at AD	TREE	253544.9N 0850544.7E	249 FT	NIL	GROUP OF TREE
In circling area and at AD	FENCE	253535.0N 0850550.4E	182 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCING TOP
In circling area and at AD	TREE	253533.6N 0850551.3E	245 FT	NIL	TREE
In circling area and at AD	TREE	253535.7N 0850555.3E	243 FT	NIL	Group of trees
In circling area and at AD	BUILDING	253537.6N 0850602.8E	198 FT	NIL	WATER TANK ON HOUSE
In circling area and at AD	TREE	253537.7N 0850608.7E	267 FT	NIL	GROUP OF TREE
In circling area and at AD	TREE	253544.8N 0850549.6E	254 FT	NIL	TREE
In circling area and at AD	TREE	253545.4N 0850550.9E	246 FT	NIL	GROUP OF TREE
In circling area and at AD	POLE	253534.4N 0850551.7E	193 FT	NIL	ELECTRIC POLE
In circling area and at AD	BUILDING	253534.0N 0850551.8E	197 FT	NIL	SINTEX TANK ON BUILDING (BUILDING TOP 59.4 M.)
In circling area and at AD	BUILDING	253535.5N 0850552.4E	183 FT	NIL	HOUSE
In circling area and at AD	BUILDING	253535.5N 0850552.4E	183 FT	NIL	HOUSE
In circling area and at AD	TREE	253537.1N 0850600.5E	257 FT	NIL	GROUP OF TREE
In circling area and at AD	TREE	253542.8N 0850538.7E	226 FT	NIL	TREE
In circling area and at AD	TREE	253546.4N 0850550.4E	250 FT	NIL	GROUP OF TREE
In circling area and at AD	TREE	253544.2N 0850546.2E	207 FT	NIL	Tree
In circling area and at AD	OTHER	253528.1N 0850532.0E	192 FT	LGTD	Security hut LGT. Top (hut top 58.3 m.)
In circling area and at AD	TREE	253524.8N 0850533.2E	231 FT	NIL	Group of trees
In circling area and at AD	TREE	253525.9N 0850530.1E	224 FT	NIL	Group of trees
In circling area and at AD	OTHER	253539.1N 0850527.2E	224 FT	NIL	FLOOD LIGHT MAST ROD TOP (LIGHTED TOP 67.6 & MAST TOP 67.1 M.)
In circling area and at AD	TREE	253549.8N 0850550.6E	251 FT	NIL	GROUP OF TREE
In circling area and at AD	TREE	253535.0N 0850600.7E	257 FT	NIL	TREE
In circling area and at AD	TREE	253527.2N 0850545.6E	255 FT	NIL	LYPTUS TREE

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
In circling area and at AD	OTHER	253602.6N 0850622.1E	263 FT	NIL	MAST
In circling area and at AD	TREE	253535.0N 0850604.6E	243 FT	NIL	TREE
In circling area and at AD	BUILDING	253537.8N 0850603.4E	198 FT	NIL	BUILDING
In circling area and at AD	OTHER	253538.4N 0850525.4E	224 FT	NIL	FLOOD LIGHT MAST ROD TOP (LIGHTED TOP 67.5 & MAST TOP 67.0 M.)
In circling area and at AD	SIGN	253534.1N 0850526.2E	176 FT	NIL	SIGN BOARD
In circling area and at AD	OTHER	253534.6N 0850527.8E	177 FT	NIL	LANDING T
In circling area and at AD	SIGN	253533.0N 0850528.1E	176 FT	NIL	Sign board
In circling area and at AD	OTHER	253533.2N 0850528.5E	176 FT	NIL	SIGN BOARD
In circling area and at AD	OTHER	253539.6N 0850528.8E	222 FT	NIL	FLOOD LIGHT MAST TOP (LIGHTED TOP 67.3 M.)
In circling area and at AD	SIGN	253535.1N 0850529.3E	176 FT	NIL	Sign board
In circling area and at AD	SIGN	253535.8N 0850531.1E	176 FT	NIL	SIGN BOARD
In circling area and at AD	ANTENNA	253536.8N 0850531.9E	181 FT	NIL	RVR ANTENNA
In circling area and at AD	TREE	253527.8N 0850532.2E	219 FT	NIL	GROUP OF TREE
In circling area and at AD	ANTENNA	253537.1N 0850532.9E	181 FT	NIL	RVR ANTENNA
In circling area and at AD	SIGN	253534.7N 0850532.9E	176 FT	NIL	Sign board
In circling area and at AD	TREE	253543.2N 0850534.9E	243 FT	NIL	TREE
In circling area and at AD	TREE	253528.2N 0850536.6E	206 FT	NIL	TREE
In circling area and at AD	OTHER	253545.6N 0850536.6E	268 FT	NIL	MAST ROD TOP (LIGHTED TOP 81.7 & MAST TOP 81.4 M.)
In circling area and at AD	TREE	253545.8N 0850537.3E	271 FT	NIL	TREE
In circling area and at AD	TREE	253531.9N 0850545.2E	242 FT	NIL	GROUP OF TREE
In circling area and at AD	TREE	253546.8N 0850546.3E	253 FT	NIL	TREE
In circling area and at AD	TREE	253546.6N 0850547.0E	263 FT	NIL	TREE

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
In circling area and at AD	OTHER	253543.3N 0850547.4E	189 FT	NIL	MOBILE ROAD TRAFFIC (ROAD ELEVATION 52.7 M. + TRAFFIC HEIGHT 5.0 M.)
In circling area and at AD	TREE	253546.5N 0850547.5E	249 FT	NIL	TREE
In circling area and at AD	TREE	253545.6N 0850548.4E	242 FT	NIL	TREE
In circling area and at AD	OTHER	253544.0N 0850549.2E	186 FT	NIL	MOBILE ROAD TRAFFIC (ROAD ELEVATION 51.7 M. + TRAFFIC HEIGHT 5.0 M.)
In circling area and at AD	TREE	253545.6N 0850549.2E	248 FT	NIL	Tree
In circling area and at AD	TREE	253532.7N 0850550.8E	253 FT	NIL	Tree
In circling area and at AD	BUILDING	253533.1N 0850551.8E	207 FT	NIL	SINTEX TANK ON BUILDING (BUILDING TOP 62.1 M.)
In circling area and at AD	BUILDING	253534.5N 0850552.3E	199 FT	NIL	BUILDING
In circling area and at AD	BUILDING	253533.4N 0850552.5E	209 FT	NIL	SINTEX TANK ON BUILDING (BUILDING TOP 62.9 M.)
In circling area and at AD	TREE	253535.6N 0850557.3E	260 FT	NIL	TREE
In circling area and at AD	TREE	253534.8N 0850557.4E	252 FT	NIL	TREE
In circling area and at AD	TREE	253551.2N 0850559.9E	257 FT	NIL	GROUP OF TREE
In circling area and at AD	TREE	253553.2N 0850603.8E	279 FT	NIL	Tree
In circling area and at AD	BUILDING	253538.1N 0850618.6E	269 FT	NIL	TOMB ON HAJ BHAWAN
In circling area and at AD	NAVAID	253528.0N 0850533.0E	199 FT	LGTD	DVOR MONITOR ANTENNA (LGT)
In circling area and at AD	OTHER	253530.2N 0850536.1E	226 FT	NIL	LIGHTNING ARRESTER ON GP MAIN ANTENNA
In circling area and at AD	NAVAID	253530.1N 0850536.2E	195 FT	NIL	GP DME ANTENNA LIGHTED TOP
In circling area and at AD	OTHER	253531.1N 0850538.6E	189 FT	NIL	LIGHTNING ARRESTER ON GP MONITOR ANTENNA
In circling area and at AD	TREE	253527.4N 0850532.2E	219 FT	NIL	COCONUT TREE
In circling area and at AD	OTHER	253530.1N 0850535.7E	248 FT	NIL	LIGHT ON GP HUT (HUT TOP=56.2 M.)

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
In circling area and at AD	OTHER	253532.7N 0850546.9E	191 FT	NIL	SECURITY HUT LIGHTED TOP (HUT TOP 57.09 M.)
In circling area and at AD	ANTENNA	253537.2N 0850532.6E	207 FT	NIL	MET ANTENNA
In circling area and at AD	ANTENNA	253537.2N 0850532.3E	208 FT	NIL	MET ANTENNA
In circling area and at AD	OTHER	253542.6N 0850525.7E	278 FT	NIL	LIGHT ON NEW TERMINAL (BUILDING TOP=82.6 M.)
In circling area and at AD	OTHER	253543.5N 0850531.1E	262 FT	NIL	FLOOD LIGHT MAST
In circling area and at AD	FENCE	253533.5N 0850546.6E	183 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCING ON TOP
In circling area and at AD	OTHER	253606.2N 0850630.3E	276 FT	NIL	CELLPHONE MAST
In circling area and at AD	TREE	253533.8N 0850549.3E	219 FT	NIL	Group of trees
In circling area and at AD	TREE	253544.4N 0850542.9E	230 FT	NIL	GROUP OF TREE
In circling area and at AD	TREE	253533.3N 0850546.9E	216 FT	NIL	GROUP OF TREE
In circling area and at AD	BUILDING	253536.3N 0850552.6E	186 FT	NIL	HOUSE
In circling area and at AD	OTHER	253539.7N 0850542.0E	196 FT	NIL	LIGHT ON WDI (WDI TOP=59.3 M.)
In circling area and at AD	OTHER	253645.5N 0850706.3E	338 FT	NIL	CELLPHONE MAST
In circling area and at AD	OTHER	253536.6N 0850520.9E	220 FT	NIL	FLOOD LIGHT MAST ROD TOP (MAST TOP 67.1 M.)
In circling area and at AD	TREE	253544.9N 0850544.7E	249 FT	NIL	TREE
In circling area and at AD	OTHER	253528.1N 0850509.5E	192 FT	NIL	SECURITY HUT LIGHTED TOP (HUT TOP 58.0 M.)
In circling area and at AD	TREE	253517.3N 0850506.2E	219 FT	NO	TREE
In circling area and at AD	TREE	253518.8N 0850512.0E	224 FT	NO	TREE
In circling area and at AD	TREE	253520.1N 0850513.6E	214 FT	NO	TREE
In circling area and at AD	TREE	253520.7N 0850514.9E	209 FT	NO	TREE
In circling area and at AD	SIGN	253531.4N 0850523.7E	176 FT	NO	Sign board
In circling area and at AD	SIGN	253533.4N 0850524.4E	176 FT	NO	Sign board

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
In circling area and at AD	TREE	253526.3N 0850528.3E	212 FT	NO	Group of trees
In circling area and at AD	OTHER	253509.2N 0850547.7E	343 FT	NO	COMMUNICATIO N TOWER
In circling area and at AD	ANTENNA	253519.2N 0850505.4E	210 FT	NO	MET ANTENNA
In circling area and at AD	ANTENNA	253519.5N 0850505.4E	209 FT	NO	MET ANTENNA
In circling area and at AD	BUILDING	253518.8N 0850507.6E	182 FT	NO	BIRD CHASER HUT
In circling area and at AD	ANTENNA	253529.7N 0850513.6E	208 FT	NO	MET ANTENNA
In circling area and at AD	BUILDING	253529.9N 0850514.2E	181 FT	NO	BIRD CHASER HUT
In circling area and at AD	TREE	253522.4N 0850519.5E	206 FT	NO	Group of trees
In circling area and at AD	OTHER	253532.1N 0850519.5E	179 FT	NO	OBSERVATORY
In circling area and at AD	POLE	253522.8N 0850520.1E	188 FT	NO	CAMERA POLE
In circling area and at AD	ANTENNA	253540.4N 0850521.8E	262 FT	NO	VHF ANTENNA ON ATC BUILDING
In circling area and at AD	POLE	253525.6N 0850527.3E	188 FT	NO	CAMERA POLE
In circling area and at AD	BUILDING	253526.6N 0850527.6E	180 FT	NO	BIRD CHASER HUT
In circling area and at AD	OTHER	253643.5N 0850711.4E	347 FT	NO	Mast
In circling area and at AD	OTHER	253658.4N 0850652.9E	349 FT	NO	Mast
In circling area and at AD	OTHER	253536.9N 0851015.9E	684 FT	NO	T.V TOWER TOP
In circling area and at AD	OTHER	253444.4N 0850253.8E	328 FT	LGTD	MAST LGT. TOP
In circling area and at AD	OTHER	253511.1N 0850240.9E	354 FT	NO	MICROWAVE TOWER
In circling area and at AD	OTHER	253623.0N 0850400.1E	338 FT	NO	CELLPHONE MAST
In circling area and at AD	OTHER	253606.3N 0850425.6E	347 FT	NO	CELLPHONE MAST
In circling area and at AD	OTHER	253425.4N 0850434.0E	347 FT	NO	CELLPHONE MAST
In circling area and at AD	OTHER	253403.0N 0850437.3E	346 FT	NO	CELLPHONE MAST
In circling area and at AD	OTHER	253633.3N 0850441.3E	345 FT	NO	CELLPHONE MAST
In circling area and at AD	OTHER	253358.5N 0850446.0E	341 FT	NO	CELLPHONE MAST
In circling area and at AD	OTHER	253406.4N 0850545.6E	400 FT	NO	CELLPHONE MAST
In circling area and at AD	BUILDING	253450.9N 0850633.2E	341 FT	NO	BUILDING

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
In circling area and at AD	OTHER	253719.8N 0850712.8E	437 FT	NIL	CELLPHONE MAST

VEPT AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Name of the associated meteorological office	Meteorological Centre Patna
2	Hours of service and, where applicable, the designation of the responsible meteorological office outside these hours	H24
3	Office responsible for preparation of TAFs and periods of validity and interval of issuance of the forecasts	Met Centre Patna 9,12,24 HR
4	Availability of the trend forecast for the aerodrome and interval of issuance	Trend Forecast 30Min
5	Information on how briefing and/or consultation is provided	Provided
6	Types of flight documentation supplied and language(s) used in flight documentation	Tabular form English
7	Charts and other information displayed or available for briefing or consultation	Surface, Upper Air, Satellite Imagery, T-PHI GRAM
8	Supplementary equipment available for providing information on meteorological conditions, e.g. weather radar and receiver for satellite images;	Tele printer / Telephone Transmissometer (DRISHTI) for TDZ RVR RWY 25
9	The air traffic services unit(s) provided with meteorological information	VEPT Patna ATC and ACS
10	Additional information, e.g. concerning any limitation of service.	Round the Clock Met Service

VEPT AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations	TRUE Bearings	Dimensions of RWY (M)	Strength of pavement (PCN) and associated data) and surface of runway and associated stopways	Geographical coordinates for threshold and runway end
1	2	3	4	5
07	68.40 DEG	2072 x 45 M	58/F/C/W/T Asphalt	THR: 253519.10N 0850453.40E RWY END: 253539.17N 0850549.29E
25	248.40 DEG	2072 x 45 M	58/F/C/W/T Asphalt	THR: 253537.55N 0850544.80E RWY END: 253514.37N 0850440.22E

THR elevation and highest elevation of TDZ of precision APP RWY	Slope of runway and associated stopway	Dimensions of stopway (M)	Dimensions of clearway (M)	Dimensions of strips (M)
6	7	8	9	10
THR: 175.0FT TDZ: 175.0FT		NIL	NIL	2192 x 150 M
THR: 175.0FT TDZ: 175.0FT		NIL	NIL	2192 x 150 M

Dimensions of runway end safety areas	Location and description of arresting system (if any)	Existence of an obstacle-free zone	Remarks.
11	12	13	14
90M x 90M		----	All elevations in EGM08
100M x 90M		----	All elevations in EGM08.

VEPT AD 2.13 DECLARED DISTANCES

RWY Designator	Take-off run available TORA (M)	Take-off distance available TODA (M)	Accelerate distance available ASDA (M)	Landing distance available LDA (M)	Remarks (including runway entry or start point where alternative reduced declared distances have been declared)
1	2	3	4	5	6
07	2072	2072	2072	1677	THR Displaced by 395M 1:40 (Slope)
25	2072	2072	2072	1938	THR Displaced by 134M 1:40 (Slope)

VEPT AD 2.14 APPROACH AND RUNWAY LIGHTING

Runway Designator	Type, length and intensity of approach lighting system	Runway threshold lights, colour and wing bars	Type of visual slope indicator system	Length of runway touchdown zone lights
1	2	3	4	5
07	SALS 420 M LIH	Green Wing bar LGT provided for RWY 07 only	PAPI LEFT/3.00 DEG MEHT (46.85FT)	
25	SALS 420 M LIH	Green	PAPI LEFT/3.15 DEG MEHT (53.59FT)	

Length, spacing, colour and intensity of runway centre line lights	Length, spacing, colour and intensity of runway edge lights	Colour of runway end lights and wing bars	Length and colour of stopway lights	Remarks
6	7	8	9	10
	2072 M 60 M White LIH	Red		NIL
	2072 M 60 M White LIH	Red		NIL

VEPT AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Location, characteristics and hours of operation of aerodrome beacon/identification beacon (if any)	ABN	At Tower Building, FLG W&G EV2SEC As ATS HR
		IBN	NIL
2	Location and lighting (if any) of anemometer/ landing direction indicator;	LDI	NIL
		Anemometer	NIL
3	Taxiway edge and taxiway centre line lights;	Edge	TWY A, TWY B, TWY C, TWY E and TWY F
		Centre Line	NIL
4	Secondary power supply including switch-over time;	Secondary Power supply to all lighting at AD. Switch-over time: 8 Sec	
5	Remarks	NIL	

VEPT AD 2.16 HELICOPTER LANDING AREA

1	Geographical coordinates of the geometric centre of touchdown and lift-off (TLOF) or of each threshold of final approach and take-off (FATO) area	Not Established
2	TLOF and/or FATO area elevation:	Not Established
3	TLOF and FATO area dimensions to the nearest metre or foot, surface type, bearing strength and marking;	Not Established
4	True bearings of FATO;	Not Established
5	Declared distances available	Not Established
6	Approach and FATO lighting;	Not Established
7	Remarks	Not Established

VEPT AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	CTR: Circular area centered on 253537N 0850531E within a 15NM radius.
2	Vertical limits	FL 65
3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	Patna Tower / Patna Approach, English
5	Transition altitude	4000 FT
6	Hours of applicability	H24
7	Remarks	NIL

VEPT AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	**2**	**3**	**4**
APP	Patna Approach	121.100 MHZ	
APP	Patna Approach	127.775 MHZ	
TWR	Patna Tower	118.300 MHZ	
ATIS	Patna Information	128.000 MHZ	
ALRS	PATNA EMERGENCY	121.500 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	**6**	**7**
	H24	NIL
	H24	SDBY FREQ FOR TWR and APP
	H24	NIL
	As ATS	NIL
	H24	NIL

VEPT AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aids, magnetic variation and type of supported operation for ILS/ MLS, basic GNSS, SBAS and GBAS, and for VOR/ILS/MLS station used for technical lineup of the aid	Identification	Frequency(ies), Channel number(s), Service provider, and reference path identifier(s) (RPI), as appropriate	Hours of operation, as appropriate;
1	2	3	4
LOC 25 CAT I	IPAT	110.300 MHz	H24
GP 25		335.000 MHz	H24
DME ILS 25	IPAT	CH40X	H24
DVOR/DME	PPT	112.100 MHz CH58X	H24

Geographical coordinates of the position of the transmitting antenna	Elevation of transmitting antenna of DME/ elevation of GBAS reference point	Service volume radius from the GBAS reference point	Remarks
5	6	7	8
253512.1N 0850433.9E			
253530.2N 0850536.1E			1. GP RESTRICTED AT 8NM, 1500FEET HAT (HEIGHT ABOVE TRESHOLD) 2. Glide Angle: 3.15 DEG
253530.2N 0850536.1E	194 FT		1. Collocated with GP25. 2. Elevations in EGM08
253526.4N 0850536.1E	202 FT		Vertical datum: EGM08

VEPT AD 2.20 LOCAL AERODROME REGULATIONS

• No Aircraft shall take lock turn/ pivotal turn on the Runway to avoid pavement damage.

VEPT AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VEPT AD 2.22 FLIGHT PROCEDURES

1.Opportunity basis ADS-B based APP surveillance SER provided with jurisdiction of Patna APP to suitably equipped acft withe coverage area of Patna ADS-B sensor.

2. ADS-B equipped aircraft flying within the jurisdiction of Patna Approach Control to comply with relevant provisions.

VEPT AD 2.23 ADDITIONAL INFORMATION

I. LOW VISIBILITY PROCEDURE

1. BACKGROUND:

Until the latest amendment of DGCA Civil Aviation Requirements (CAR) section 8, Series 'C', Part-I on All-weather Operations, Low visibility procedures were required at aerodromes for the purpose of ensuring safe operations during Categories II and III approaches and/or low visibility take-offs(LVTO).
However, in latest amendment to CAR (Rev. 10) para 5.3 following provision regarding Low Visibility Procedures is added.
"Quote" **An operator shall not conduct take-off with RVR/visibility less than standard Category I conditions of 550m RVR/ 800 m visibility unless low visibility procedures are enforced.** "Unquote".
This provision necessitated the need of Low Visibility Procedures for accommodating/permitting departures in Visibility/RVR less than 800M/550M even at such airports where there are No CAT II and CAT III operations.
Accordingly, Low visibility Procedures have been developed for Jai Prakash International Airport, Patna to accommodate/ permit departures in Visibility/RVR less than 800M/550M from RWY 07 & 25. (both RWY 07/25 served with RVR instruments vide eAIP GEN 3.5 VEPT).

2. DEFINITIONS:

2.1 Low Visibility Procedures (LVP): Specific procedures applied at an aerodrome for the purpose of ensuring safe operations during Categories II and III approaches and/or low visibility take-offs.

Note: as per para 5.3 of CAR on All Weather Operations, an operator shall not conduct Take-off with RVR/Visibility less than standard CAT-I conditions of 550m RVR/800m Visibility unless low visibility procedures are enforced.

2.2 Manoeuvring Area: That part of an aerodrome to be used for the take-off, landing and taxiing of aircraft, excluding aprons.

2.3 Runway Visual Range: The range over which the pilot of an aircraft on the centerline of a runway can see the runway surface markings or the lights delineating the runway or identifying its centerline.

2.4 Aerodrome Operating Minima: The limits of usability of an aerodrome for:

a. Take off, expressed in terms of runway visual range and / or visibility and, if necessary, cloud conditions.
b. landing in 2 D instrument approach operations, expressed in terms of visibility and/or runway visual range; minimum descent altitude/height (MDA/H) and, if necessary, cloud conditions; and
c. landing in 3D instrument approach operations, expressed in terms of visibility and/or runway visual range and decision altitude/height(DA/H) appropriate to the type and/or category of the operation.

2.5 Visibility - Visibility for aeronautical purposes is the greater of:
a. the greatest distance at which a black object of suitable dimensions, situated\ near the ground, can be seen and recognized when observed against a bright background;
b. The greatest distance at which lights in the vicinity of 1 000 candelas can be seen and identified against an unlit background.

Note 1. — The two distances have different values in air of a given extinction coefficient, and the latter b) varies with the background illumination. The former a) is represented by the meteorological optical range (MOR).

Note 2. — The definition applies to the observations of visibility in local routine and special reports, to the observations of prevailing and minimum visibility reported in METAR and SPECI and to the observations of ground visibility.

3. GENERAL:

The Low Visibility Procedure (LVP) incorporates safeguarding measures to mitigate runway incursions and defines operational restrictions to ensure safe Airside Operations taking into account the available Aerodrome facilities.

Refer eAIP GEN 3.5 VEPT; at Patna:

a) DCWIS (Digital Current Weather Indication System) at RWY 07 and 25;
b) Drishti Transmissometer at RWY 25; and
c) FSM (Forward Scatter Meter) at RWY 07 and 25

4. MINIMUM REQUIREMENTS:

The following aeronautical Ground lights and RVR equipment shall be serviceable to the required standard to support Low Visibility Procedures.
a. Runway edge lights,
b. Runway end lights,
c. Real time TDZ RVR.
d. Stand by Power supply to maintain switch over time of 1 Second for Runway Edge Lights and Runway End Lights. This requirement can be met with thehelp of DG Set and/or UPS.
Note: - At Patna switch over time for Runway Edge Lights and Runway End Lights is less than 1 Second.

5. UNSERVICEABILITY OF AERONAUTICAL GROUND LIGHTS/EQUIPMENT BEFORE IMPLEMENTATION OF LVP.
Low Visibility Procedures will not be implemented when any of the light/equipment mentioned in para 4 above is un-serviceable or is not maintained as per the required standard.

5.1 Unserviceability of Aeronautical Ground Lights/ Equipment after Implementation of LVP.
When any of the light/equipment mentioned in para 4 above becomes un-serviceable or fails to meet the required standard during periods of LVP, TWR/SMC shall advise the aircraft accordingly and LVP shall be suspended and information to this effect shall be included in ATIS broadcast.

6. SAFEGUARDING PROCEDURES:

Safeguarding Procedures (SP) are instructions for relevant airport, departments and airside operators to prepare ground services and facilities for low visibility operations in order that when LVP are implemented all Safeguarding procedures are complete.
Duty Officer Tower/Tower Supervisor will initiate and co-coordinate with all the concerned agencies for completion of safeguarding procedures before implementation of Low Visibility Procedures.

6.1 Safeguarding Procedures shall be initiated when:
a. The Visibility/RVR is less than 1200m and visibility/RVR is forecast to deteriorate to 800m or less; and/or
b. The cloud ceiling is less than 400ft and forecast to fall to 200ft or less.

6.2 Safeguarding procedures include:
a. Positioning of 1 CFT each at the two predetermined positions, i.e. when Runway in use:

i. **RWY 07** - 1 CFT at Holding Point of Fire Approach Road and 1 CFT at Holding Point at Road Holding Position Near DUMBBELL RWY 25'; and
ii. **RWY 25** - 1 CFT at Holding Point of Fire Approach Road and 1 CFT at Holding Point at Fire - Pit Approach Road.

b. Stopping of all maintenance works on the manoeuvring area as well as removal of all men and mobile equipment from the said area.
c. Ensuring availability of secondary power supply for change over time of maximum one second for RWY Edge and Rwy End lights supported by UPS.

Note: RWY Edge and Rwy End lights may continue to operate on main power supply during safe Guarding Procedures. Whenever, LVP is to be implemented as per para 6 below, the RWY Edge and Rwy End lights shall be put on Standby Power Supply (DG set or UPS). This operation need to be completed before LVP is implemented.
In case of DG set, Main power supply shall act as stand by power. At airports where UPS is capable of maintaining the required AGL system with one second of Switch Over time with Main Supply, the main supply can continue to be primary supply and the Generator Supply can be kept as Stand by Power supply.

d. The appropriate Aeronautical ground lights must have been inspected during the hour preceding implementation of LVP, and thereafter once every two-hour period. These lighting inspections should be accorded priority and, if necessary, aircraft operations may be delayed.

7. Low Visibility Procedures:

7.1 Implementation of Low Visibility Procedures:

Duty MET Officer shall inform Tower Supervisor whenever Visibility/RVR reduces to 800 Meters or below and/ or cloud ceiling is at 200 ft or below. Tower Supervisor shall coordinate with all the agencies to confirm whether the Safeguarding procedures have been completed or not. When Visibility/RVR falls below 800m/550M and or Cloud Ceiling is 200 ft or below and safeguarding procedures are complete, Tower supervisor will implement Low Visibility Procedures. Duty Officer Tower/ Tower Supervisor shall inform all users of the imposition of low visibility procedures.

7.2 Action by various units during LVP:

a. Duty MET Officer shall keep Duty Officer Tower/Tower Supervisor informed of any change in Visibility/ RVR.
b. TOWER/ OPS shall ensure that the towing of aircraft is done under escort of "Follow Me" vehicles. "Follow Me" shall inform ATC of any deviation fromthe route cleared by ATC;
c. Tower shall not permit any ground run on the manoeuvring area except idle power run on the stands;
d. Tower shall ensure that "Follow Me" services are provided to pilots on request;
e. The number of the vehicles on the manoeuvring area shall be restricted to bare minimum and records of all operating on the manoeuvring area shall be maintained by TOWER / OPS.
f. The following may be included in DATIS. "Low Visibility Procedures in force".
g. TWR shall permit departures only from the beginning of the Runway in use.
h. Whenever visibility/RVR is less than 800M/550M, Duty officer tower shal confirm from pilot that the reported RVR value is within minima before issuing take-off clearance.
i. Duty officer Tower shall take the Take-off Alternate from pilot before issuing take-off clearence.
j. In-Charge Electrical shall continuously monitor the main and Standby Power supply to ensure change over time of maximum one second for RWY Edge and Rwy End lights during low visibility operations and report any unserviceability to Tower immediately.

8. TERMINATION OF LOW VISIBILITY PROCEDURES:

a. When Visibility/RVR improves to 800M or more and cloud ceiling is 200 feet or Higher and trend is for improvement, Tower Supervisor/Duty Officer Tower would terminate operations of LVP. He may obtain advice from Duty Met. Officer regarding improvement in weather conditions before the termination of LVP.
b. The Tower Supervisor will intimate OPS/ARFF/ In-Charge ElectricalEngineering regarding the termination of LVP operations.
c. On cancelling of LVP, following message shall be included in two subsequent ATIS broadcasts. “LOW VISIBILITY PROCEDURES CANCELLED”.
d. If SP are implemented and LVP are not subsequently implemented and the visibility/RVR improves and is more than 1200m and/or the cloud ceiling is 400ft or higher and both are forecast to remain above the required SP criteria, Tower Supervisor/ Duty Officer Tower may cancel SP.

9. ACTIONS BY OTHER AGENCIES (AIRLINES, REFUELING COMPANIES, CATERING AGENCIES, ETC.):

a. Every Year before commencement of monsoon/winter season, a meeting will be held by Airport Director, to inform all airlines and agencies operating at airport about their roles/responsibilities and create awareness to ensure cooperation for safe airport operations during periods of low visibility.
b. All the agencies shall ensure that staff and drivers are suitably trained during Low Visibility operations.
c. A refresher program for ATCO’s and personnel responsible for airside operations shall be conducted every year.
d. All agencies operating in the operational area shall ensure that only those vehicles that are absolutely essential for aircraft operations operate in the operational area during periods of low visibility. The drivers of these vehicles should keep a look out for taxiing aircraft and other vehicles to prevent accidents.
e. All the vehicles must have their obstruction lights “ON” during Low Visibility Procedures operations.
f. Everybody must follow all instructions/sign boards provided for vehicular movement area/service roads.

II. ADS-B Ground receiver is commissioned and operational.

III. Bird activity observed in and around airfield.Pilots to exercise caution while landing and takeoff.

IV. Exemption granted by DGCA:Tempo exemption granted by DGCA india for non compliant width of rwy strip against provisions in CAR sec 4 series B part 1 para 3.4.3 till 4 apr 2027.

VEPT AD 2.24 CHARTS RELATED TO AN AERODROME

1. Aerodrome Chart (11 June 2026)
2. Aircraft Parking/Docking chart (11 June 2026)
3. Aerodrome Obstacle Chart Type - A, (Operating Limitations) RWY 07(11 June 2026)
4. Aerodrome Obstacle Chart Type - A, (Operating Limitations) RWY 25(11 June 2026)
5. Aerodrome Obstacle Chart Type - B(11 June 2026)
6. Instrument Approach Chart - ILS or LOC Procedure RWY 25 (CAT A/B/C) (13 June 2024)
7. Instrument Approach Chart - VOR Procedure RWY 07
8. ATC Surveillance Minimum Altitude Chart
9. Instrument Approach Chart - RNP Y Procedure RWY 07
10. Coding Table - RNP Y Procedure RWY 07
11. Instrument Approach Chart - RNP Y Procedure RWY 25
12. Coding Table - RNP Y Procedure RWY 25

VEPT AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Procedure	Procedure Minima	VSS Penetration
1	2	3

RNP Y RWY 25	LNAV/VNAV OCA(OCH)=560(385), LNAV OCA(OCH)=780(605)	**OBST: GROUP OF TREE** LCA:253544.1860N 0850552.9580E ELEV:75.0M **OBST: GROUP OF TREE** LCA:253543.2780N 0850600.7660E ELEV:78.6M **OBST: GROUP OF TREE** LCA:253543.6820N 0850553.3070E ELEV:72.3M **OBST: TREE** LCA:253544.9206N 0850554.9430E ELEV:73.6M **OBST: GROUP OF TREE** LCA:253545.8720N 0850557.5880E ELEV:75.0M **OBST: GROUP OF TREE** LCA:253546.6560N 0850558.6350E ELEV:74.8M **OBST: TREE** LCA:253547.3083N 0850559.1708E ELEV:75.0M **OBST: GROUP OF TREE** LCA:253544.8170N 0850556.0210E ELEV:70.9M **OBST: GROUP OF TREE** LCA:253554.4280N 0850612.4220E ELEV:87.5M **OBST: TREE** LCA:253542.3580N 0850600.5400E ELEV:73.2M **OBST: TREE** LCA:253538.4640N 0850557.7975E ELEV:69.4M **OBST: GROUP OF TREE** LCA:253549.3316N 0850605.4184E ELEV:78.4M **OBST: GROUP OF TREE** LCA:253540.5390N 0850608.6170E ELEV:76.0M **OBST: LYPTUS TREE** LCA:253549.9654N 0850609.4228E ELEV:79.6M **OBST: GROUP OF TREE** LCA:253547.5680N 0850601.4040E ELEV:70.9M **OBST: TREE** LCA:253548.5544N 0850604.2141E ELEV:73.4M **OBST: GROUP OF TREE** LCA:253540.1260N 0850606.4910E ELEV:71.9M **OBST: TREE** LCA:253540.3476N 0850606.2802E ELEV:71.0M **OBST: GROUP OF TREE** LCA:253550.3440N 0850605.7700E ELEV:73.8M **OBST: MAST** LCA:253559.0000N 0850623.0000E ELEV:90.0M

AERODROME CHART

ARP
25° 35' 37.18"N
085° 05' 31.15"E

AD. ELEV 175ft

TWR 118.300

INDIA, PATNA

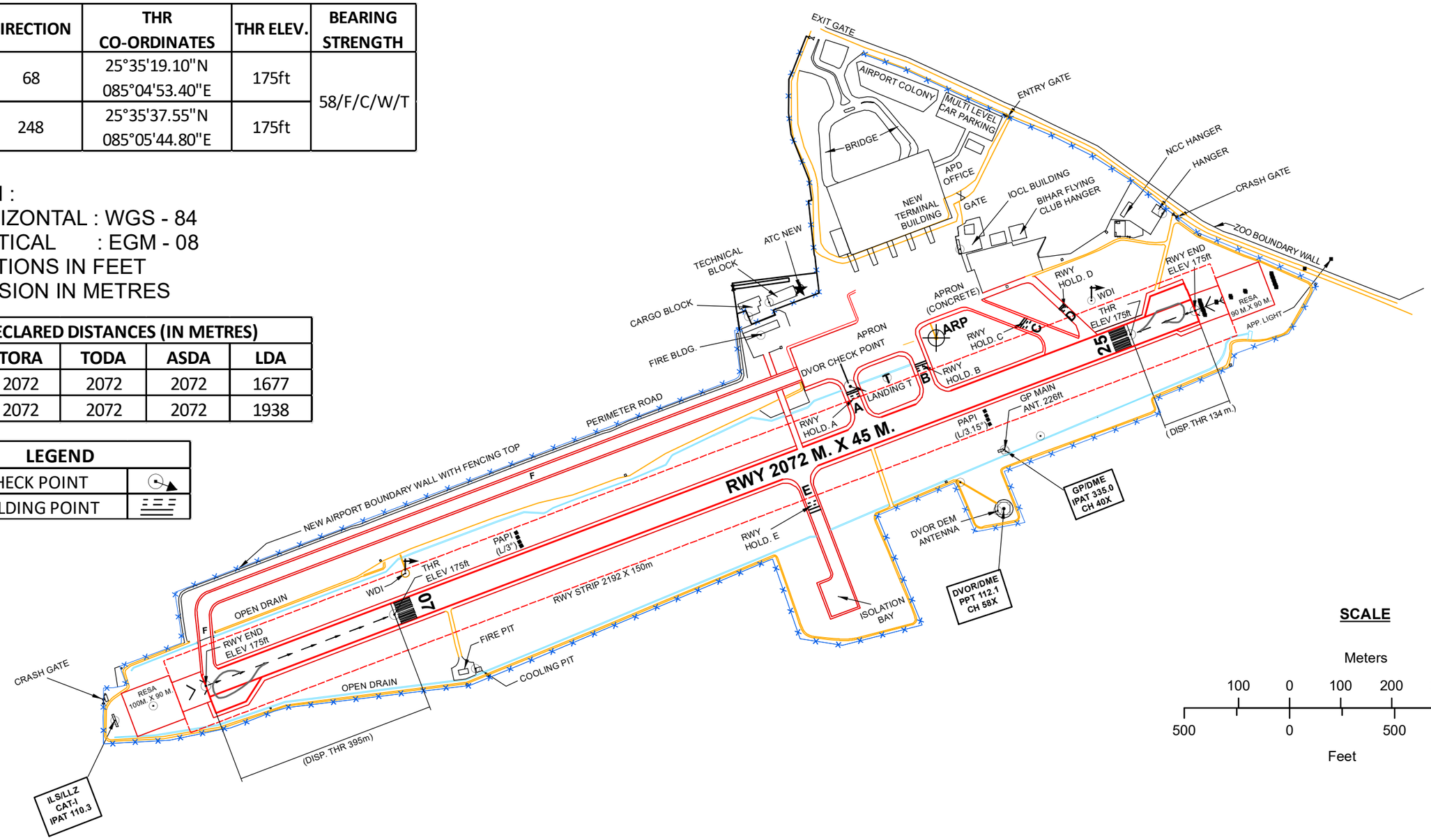
JAI PRAKASH NARAYAN INT'L. AIRPORT PATNA

RWY	DIRECTION	THR CO-ORDINATES	THR ELEV.	BEARING STRENGTH
07	68	25°35'19.10"N 085°04'53.40"E	175ft	58/F/C/W/T
25	248	25°35'37.55"N 085°05'44.80"E	175ft	

DATUM :
HORIZONTAL : WGS - 84
VERTICAL : EGM - 08
ELEVATIONS IN FEET
DIMENSION IN METRES

DECLARED DISTANCES (IN METRES)				
RWY	TORA	TODA	ASDA	LDA
07	2072	2072	2072	1677
25	2072	2072	2072	1938

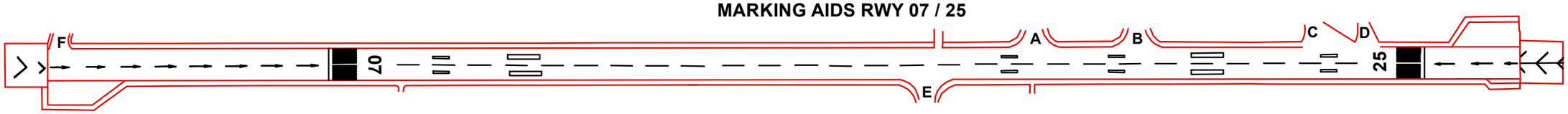
LEGEND	
DVOR CHECK POINT	
RWY HOLDING POINT	



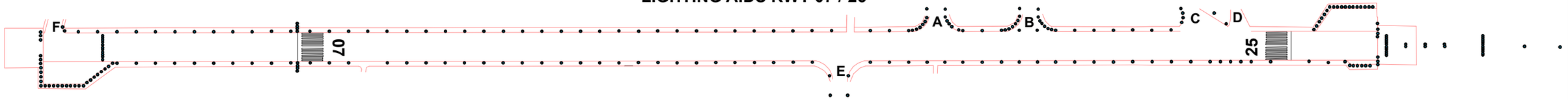
SCALE

Meters
100 0 100 200 300 400
500 0 500 1,000
Feet

MARKING AIDS RWY 07 / 25



LIGHTING AIDS RWY 07 / 25



DATE OF AERONAUTICAL INFORMATION
JANUARY 2026.

UPDATED ON- 07.04.2026

DRG. NO. - AAI/28-AC/2025

PATNA, INDIA

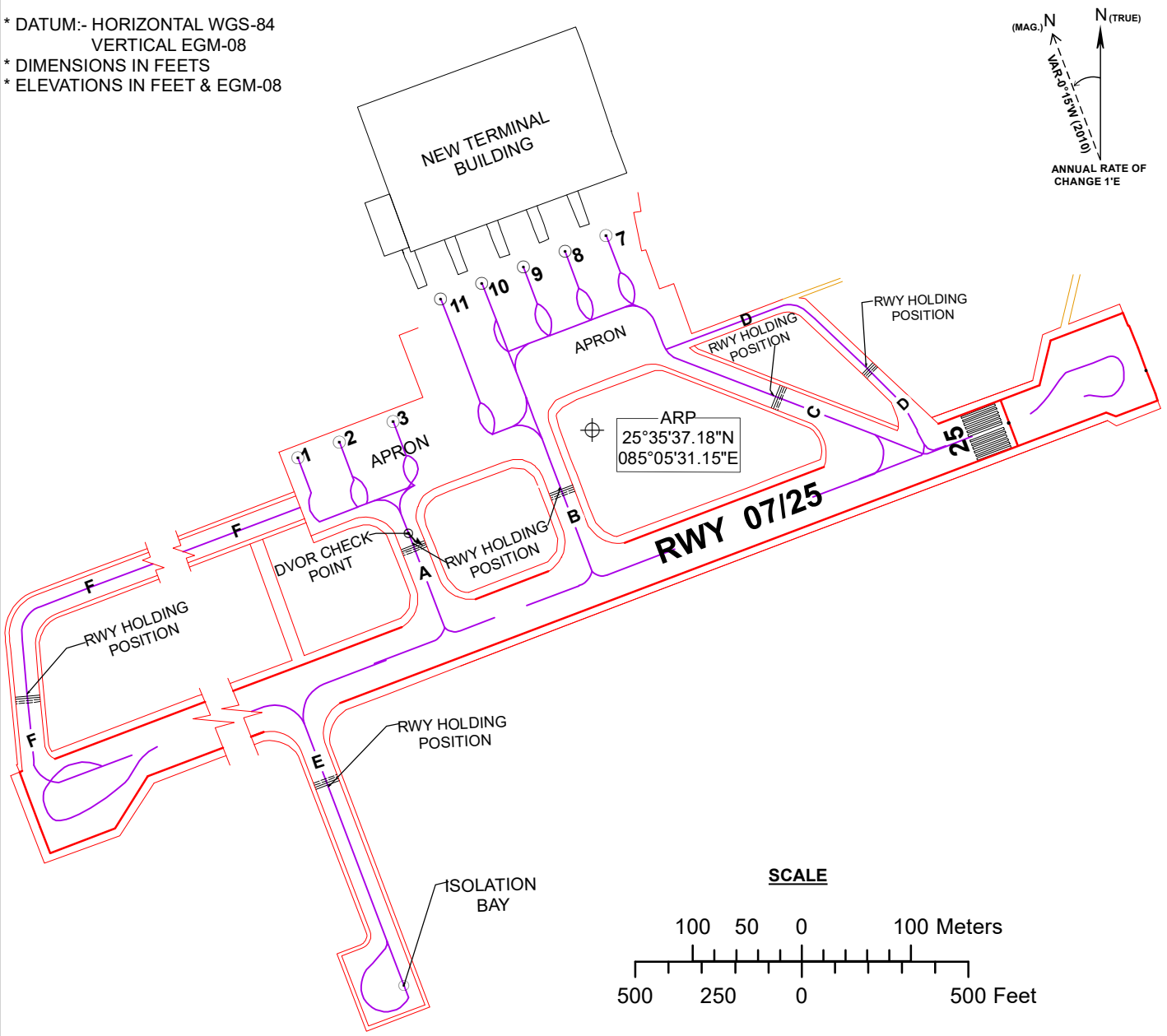
JAI PRAKASH NARAYAN INT'L AIRPORT, PATNA

AIRCRAFT PARKING/ DOCKING CHART

APRON ELEV. 174ft.

TWR 118.300

* DATUM:- HORIZONTAL WGS-84
  VERTICAL EGM-08
* DIMENSIONS IN FEETS
* ELEVATIONS IN FEET & EGM-08



LEGENDS	
AIRCRAFT STAND Nos.	7
DVOR CHECK POINT	
RWY-HOLDING POSITION	

TAXIWAY DETAIL			
TWY NAME	WIDTH	PCN	PCR
A	23m	63/F/C/W/T	-
B	23m	62/F/C/W/T	-
C	23m	-	600/R/C/W/T
D	14m	25/F/C/W/T	-
E	23m	-	547/R/B/W/T
F	23m	-	640/R/B/W/T

APRON BAY DETAILS

STAND NO.	CO-ORDINATE		ELEV.(ft.)	PCN	PCR	SUITABILITY	STATUS
	LATITUDE	LONGITUDE					
1	25°35'36.21106"N	085°05'21.50819"E	173	75/F/C/W/T	-	A320/B737-800	POWER IN/PUSH BACK
2	25°35'36.69487"N	085°05'22.85635"E	173	75/F/C/W/T	-	A320/B737-800	POWER IN/PUSH BACK
3	25°35'37.32818"N	085°05'24.62200"E	173	75/F/C/W/T	-	A320/B737-800	POWER IN/PUSH BACK
7	25°35'42.95700"N	085°05'31.51300"E	174	-	600/R/C/W/T	A320-200/B737-800	POWER IN/PUSH BACK
8	25°35'42.46900"N	085°05'30.16100"E	174	-	563/R/C/W/T	A320/B737-800	POWER IN/PUSH BACK
9	25°35'41.98300"N	085°05'28.81000"E	174	-	563/R/C/W/T	A320/B737-800	POWER IN/PUSH BACK
10	25°35'41.49700"N	085°05'27.46100"E	174	-	563/R/C/W/T	A320/B737-800	POWER IN/PUSH BACK
11	25°35'41.01100"N	085°05'26.11200"E	174	-	563/R/C/W/T	A320/B737-800	POWER IN/PUSH BACK
ISO. BAY	25°35'20.56944"N	085°05'25.23149"E	171	-	547/R/B/W/T	A320/B737-800	POWER IN/POWER OUT

DATE OF AERONAUTICAL INFORMATION
JANUARY 2026

DRG.NO. AAI/26-PDC/2025
(UPDATED AS ON 17-03-26)

ELEVATIONS IN FEET & EGM–08
ALL OTHER DIMENSIONS IN METRES

AERODROME OBSTACLE CHART

TYPE –A (OPERATING LIMITATIONS)

INDIA/PATNA

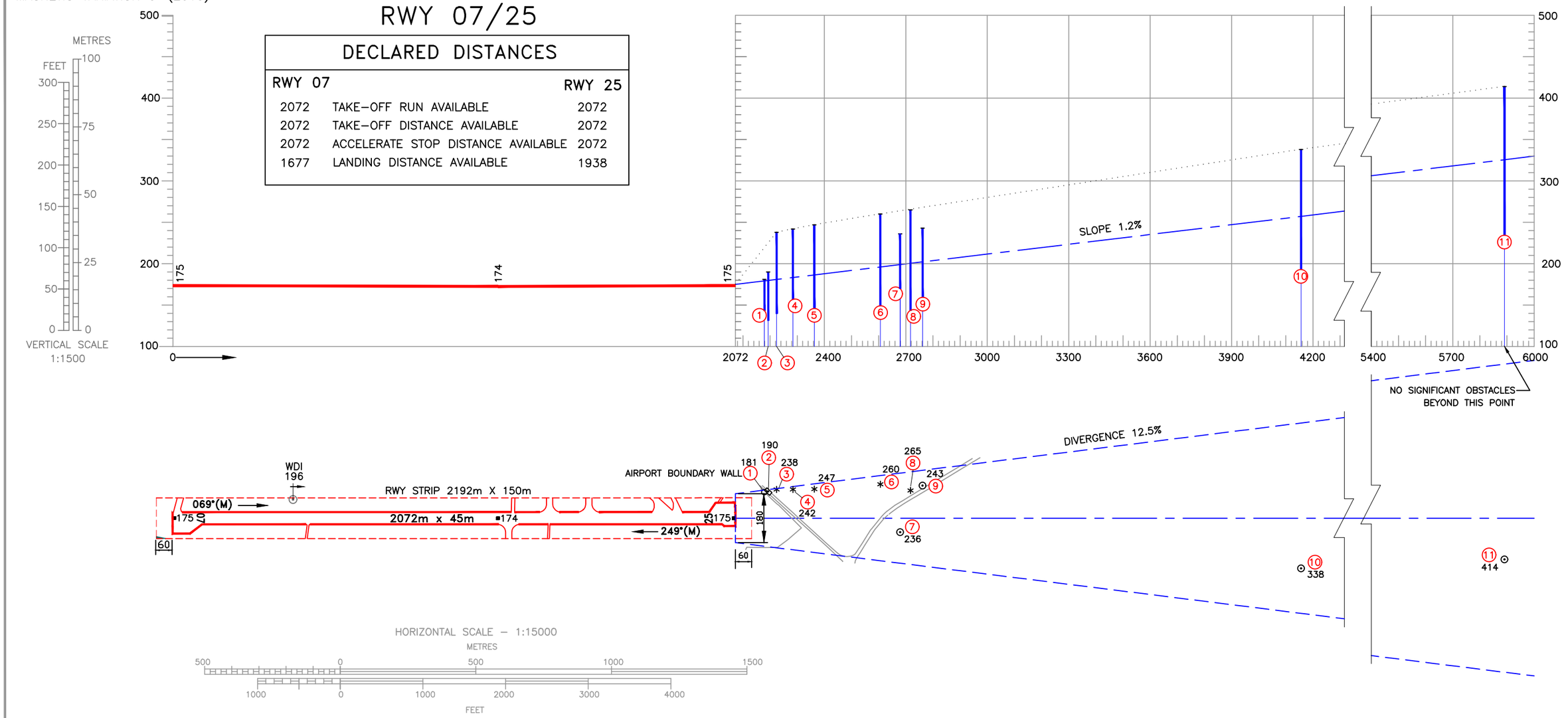
J.P.N. INTL. AIRPORT, PATNA/RWY 07

MAGNETIC VARIATION 0° (2010)

RWY 07/25

DECLARED DISTANCES

RWY 07		RWY 25
2072	TAKE–OFF RUN AVAILABLE	2072
2072	TAKE–OFF DISTANCE AVAILABLE	2072
2072	ACCELERATE STOP DISTANCE AVAILABLE	2072
1677	LANDING DISTANCE AVAILABLE	1938



ORDER OF ACCURACY

HORIZONTAL	– 3.0m
VERTICAL	– 1ft.

OBST. TABLE APP.25

S.NO.	UUID	OBST.	ELEV. IN FEET
1	FIRST IMP.	AIRPORT BOUNDARY WALL WITH FENCING TOP	181
2	FIRST IMP.	MOBILE ROAD TRAFFIC	190
3	VEPT_6205	GROUP OF TREE	238
4	VEPT_6269	TREE	242
5	VEPT_6192	GROUP OF TREE	247
6	VEPT_6175	GROUP OF TREE	260
7	VEPT_7152	CELLPHONE MAST (PORTABLE)	236
8	VEPT_6254	LYPTUS TREE	265
9	VEPT_7207	MAST	243
10	VEPT_9236	CLOCK TOWER ROD TOP(LIGHTED TOP 101.9 M. & TOWER TOP 101.7 M.)	338
11	VEPT_7306	MAST LIGHTED TOP	414

LEGEND

	PLAN	PROFILE
IDENTIFICATION NUMBER	(11)	(11)
TREE OR SHRUB	*	
POLE,TOWER,SPIRE,ANTENNA ETC...	⊙	
MOBILE ROAD TRAFFIC		
BUILDING OR LARGE STRUCTURE OR HUT	■	
RWY ELEV.(SPOT)	▪174	

NOTES:–

1. The objects that have been shielded due to presence of other higher objects have not been shown in this chart.
2. Datum – All Elevations are EGM–08.
3. Periphery road without traffic is no obstacle.
4. Consult Notam for latest information.
5. Rwy directions rounded to nearest degree.(Magnetic)
   (In degree minute : Rwy 07/25 =068°39'/248°39')(2010)
   (In degree minute : Rwy 07/25 =068°24'/248°24')(2025)
6. Magnetic variation rounded to nearest degree 0°15'W, Annual rate of change 1'E (2010).
7. All obstacles shown in this chart are based on aeronautical obstacle Survey July 2025.
8. Chart prepared based on CAR Section 9 AS&ATM Series 'G', Part–I.

AMENDMENT RECORD

NO.	DATE	ENTERED BY

AERONAUTICAL INFORMATION UPTO – AUG.2025

COMPILED BY – CARTO, AIRPORTS AUTHORITY OF INDIA

CHART No.AAI/34–OBS/CARTO/2025

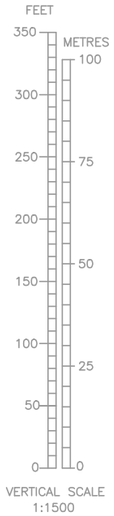
ELEVATIONS IN FEET & EGM–08
ALL OTHER DIMENSIONS IN METRES

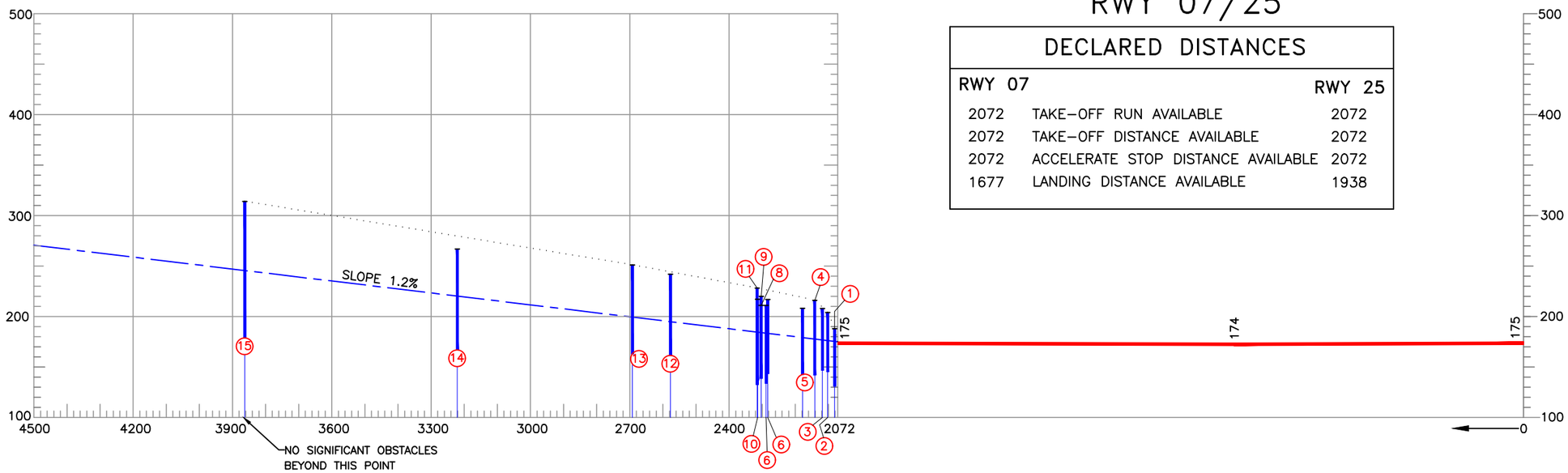
AERODROME OBSTACLE CHART

TYPE –A (OPERATING LIMITATIONS)

INDIA/PATNA
J.P.N. INTL. AIRPORT, PATNA/RWY 25

MAGNETIC VARIATION 0° (2010)





RWY 07/25

DECLARED DISTANCES

RWY 07		RWY 25
2072	TAKE–OFF RUN AVAILABLE	2072
2072	TAKE–OFF DISTANCE AVAILABLE	2072
2072	ACCELERATE STOP DISTANCE AVAILABLE	2072
1677	LANDING DISTANCE AVAILABLE	1938

LEGEND

	PLAN	PROFILE
IDENTIFICATION NUMBER	15	
TREE OR SHRUB	*	
BUILDING OR LARGE STRUCTURE	■	
POLE,TOWER,SPIRE,ANTENNA ETC...	⊙	
CROSSING BARRIER	○	
RAIL TRACK		
RWY ELEV.(SPOT)	▪174	

ORDER OF ACCURACY

HORIZONTAL	– 3.0m
VERTICAL	– 1ft.

OBST. TABLE APP.07

S.NO.	UUID	OBST.	ELEV. IN FEET
1	FIRST IMP.	AIRPORT BOUNDARY WALL WITH FENCING TOP	188
2	VEPT_7074	POLE	204
3	VEPT_7327	RAILWAY ELECTRIC POLE	208
4	VEPT_6077	TREE	216
5	VEPT_7328	RAILWAY ELECTRIC POLE	208
6	VEPT_6105	TREE	217
7	VEPT_7323	CATENARY MAST	211
8	VEPT_6330	GROUP OF TREE	220
9	VEPT_5174	RAILWAY OUTERSIGNAL BUILDING	211
10	VEPT_9063	RAILWAY TRACK CROSSING BARRIER	217
11	VEPT_7068	MAST NEAR RLY GUMTI BUILDING	228
12	VEPT_6093	TREE	242
13	VEPT_6092	TREE	251
14	VEPT_7088	CELLPHONE MAST	267
15	VEPT_7089	CELLPHONE MAST	314

NOTES:–

1. The objects that have been shielded due to presence of other higher objects have not been shown in this chart.
2. Datum – All Elevations are EGM–08.
3. Periphery road without traffic is no obstacle.
4. Consult Notam for latest information.
5. Rwy directions rounded to nearest degree.(Magnetic)
   (In degree minute : Rwy 07/25 =068°39'/248°39')(2010)
   (In degree minute : Rwy 07/25 =068°24'/248°24')(2025)
6. Magnetic variation rounded to nearest degree 0°15'W, Annual rate of change 1'E (2010).
7. All obstacles shown in this chart are based on aeronautical obstacle Survey July 2025.
8. Chart prepared based on CAR Section 9 AS&ATM Series 'G', Part–I.

AMENDMENT RECORD

NO.	DATE	ENTERED BY

AERONAUTICAL INFORMATION UPTO – AUG.2025

COMPILED BY – CARTO AIRPORTS AUTHORITY OF INDIA

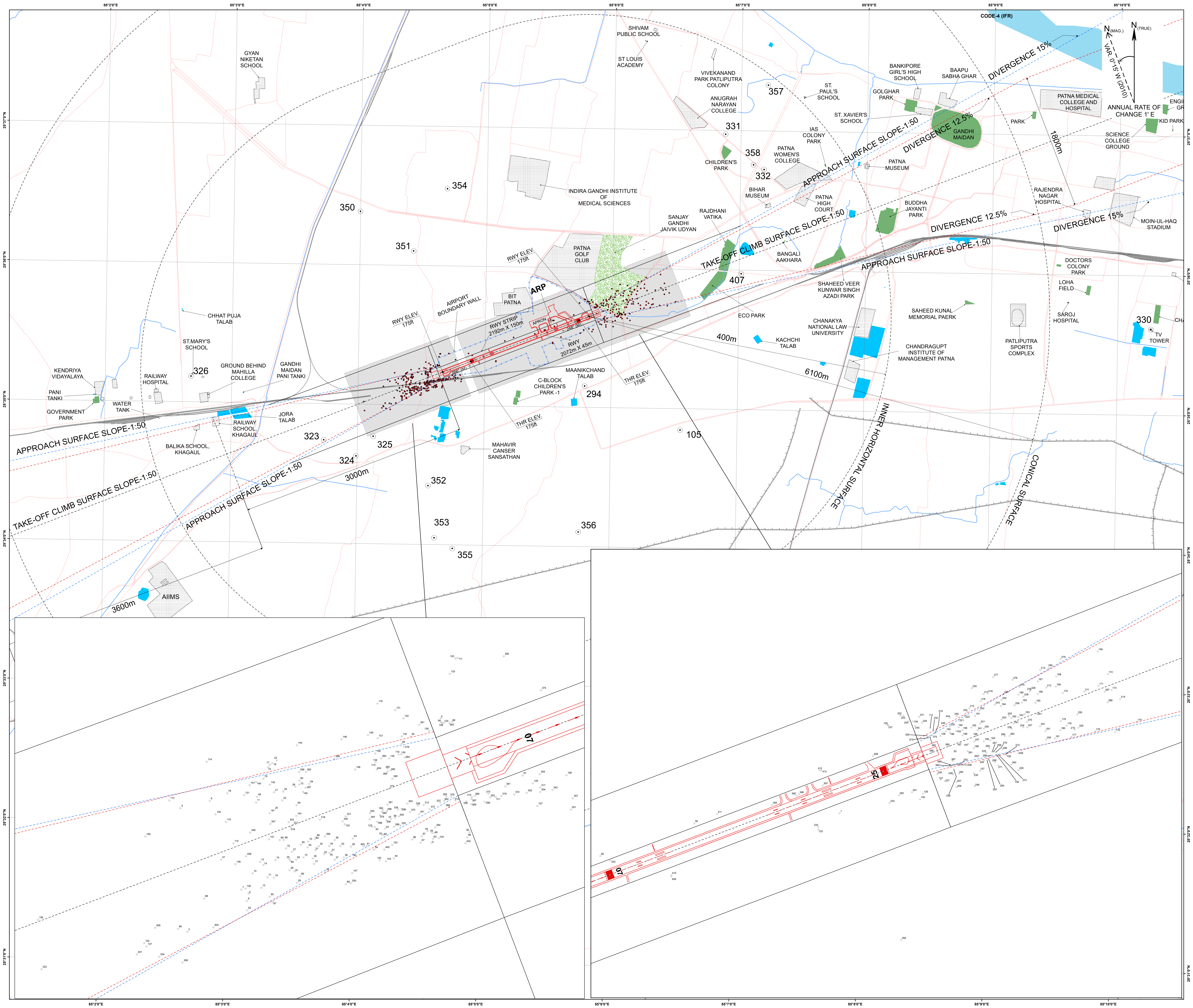
CHART No. AAI/35–OBS/CARTO/2025

AERODROME ELEVATION 175ft.

DISTANCE IN METRE.
ELEVATION IN FEET (EGM-08)
GRID LINES AND CO-ORDINATES
SHOWN ARE BASED ON WGS-84 DATUM.

AERODROME OBSTACLE CHART
TYPE-B

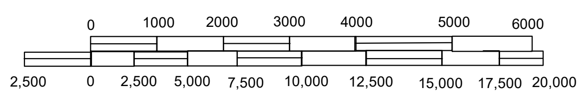
INDIA, PATNA
JAI PRAKASH NARAYAN INTL. AIRPORT PATNA



LEGEND	
AERODROME REFRENCE POINT 25° 35' 37.18" N 085° 05' 31.15" E	⌖
ROAD	━
RAILWAY LINE	┼┼┼┼
HT LINE	∧∧∧∧
RIVER AND CANAL	━
BUILDUP AREA	▨
GREEN AND PARK	🟩
WATER BODY	🟦
ZOO	▨

ORDER OF ACCURACY	
TAKE-OFF AND APPROACH AREAS	
HORIZONTAL	REMARK
5 M	AT POINT OF ORIGIN INCREASING AT A RATE OF 1 PER 500
VERTICAL	REMARK
0.5 M	IN THE FIRST 300M AND INCREASING AT A RATE OF 1 PER 1000
OTHER AREAS	
HORIZONTAL	REMARK
5 M	WITHIN 5000M OF THE ARP AND 12M BEYOND THAT AREA
VERTICAL	REMARK
1 M	WITHIN 1500M OF THE ARP INCREASING AT A RATE OF 1 PER 1000

SCALE 1:20,000



NOTE :-

1. OBSTACLE SHOWN ARE THOSE WHICH PENETRATE THE SURFACE SPECIFIED IN ANNeX-14, VOL-1, CHAPTER-4 & GSR.
2. TORA FOR RWY-07 IS 2072 M.
   TORA FOR RWY-25 IS 2072 M.
3. ALL OBSTACLES ARE SHOWN IN THE CHART BASED ON AERONAUTICAL SURVEY JULY 2025.
4. TOPOGRAPHIC FEATURES SOURCE-WORLD TOPO MAP, ESRI.

AMENDMENT RECORD		
NO	DATE	ENTERED BY

S_NO.	UUID	OBJECT	LATITUDE	LONGITUDE	TOP ELEV. IN FEET
1	VEPT_4015	LIGHTNING ARRESTER ON GP MAIN ANTENNA	25° 35' 30.157" N	085° 05' 36.080" E	226
2	VEPT_5007	BIRLA TEMPLE	25° 35' 00.385" N	085° 04' 15.966" E	226
3	VEPT_5014	BUILDING	25° 35' 07.675" N	085° 04' 36.992" E	219
4	VEPT_5016	BUILDING	25° 35' 17.440" N	085° 04' 37.638" E	204
5	VEPT_5030	BUILDING	25° 35' 10.084" N	085° 04' 15.204" E	221
6	VEPT_5033	BUILDING	25° 35' 10.687" N	085° 04' 17.740" E	221
7	VEPT_5041	BUILDING	25° 35' 03.754" N	085° 04' 20.581" E	220
8	VEPT_5042	BUILDING	25° 35' 02.879" N	085° 04' 21.074" E	218
9	VEPT_5043	BUILDING	25° 35' 03.455" N	085° 04' 21.214" E	219
10	VEPT_5044	BUILDING	25° 35' 05.045" N	085° 04' 21.536" E	220
11	VEPT_5046	BUILDING	25° 35' 10.624" N	085° 04' 21.747" E	210
12	VEPT_5048	BUILDING	25° 35' 05.957" N	085° 04' 22.168" E	222
13	VEPT_5050	BUILDING	25° 35' 03.914" N	085° 04' 22.307" E	218
14	VEPT_5051	BUILDING	25° 35' 05.726" N	085° 04' 22.461" E	220
15	VEPT_5052	BUILDING	25° 35' 13.404" N	085° 04' 22.737" E	219
16	VEPT_5053	BUILDING	25° 35' 09.808" N	085° 04' 22.940" E	208
17	VEPT_5054	BUILDING	25° 35' 13.578" N	085° 04' 22.886" E	218
18	VEPT_5055	BUILDING	25° 35' 13.711" N	085° 04' 23.081" E	219
19	VEPT_5056	BUILDING	25° 35' 04.726" N	085° 04' 23.381" E	212
20	VEPT_5057	BUILDING	25° 35' 10.037" N	085° 04' 23.312" E	205
21	VEPT_5058	BUILDING	25° 35' 11.434" N	085° 04' 23.299" E	216
22	VEPT_5059	BUILDING	25° 35' 13.941" N	085° 04' 23.484" E	218
23	VEPT_5061	BUILDING	25° 35' 10.809" N	085° 04' 24.009" E	206
24	VEPT_5062	BUILDING	25° 35' 11.510" N	085° 04' 24.075" E	209
25	VEPT_5064	BUILDING	25° 35' 06.202" N	085° 04' 24.687" E	216
26	VEPT_5065	BUILDING	25° 35' 05.330" N	085° 04' 24.731" E	216
27	VEPT_5067	BUILDING	25° 35' 06.784" N	085° 04' 24.913" E	214
28	VEPT_5069	BUILDING	25° 35' 11.894" N	085° 04' 25.118" E	212
29	VEPT_5070	BUILDING	25° 35' 04.346" N	085° 04' 25.385" E	220
30	VEPT_5073	BUILDING	25° 35' 06.281" N	085° 04' 26.727" E	211
31	VEPT_5075	BUILDING	25° 35' 06.938" N	085° 04' 26.949" E	213
32	VEPT_5077	BUILDING	25° 35' 07.258" N	085° 04' 27.232" E	214
33	VEPT_5079	BUILDING	25° 35' 06.648" N	085° 04' 27.718" E	215
34	VEPT_5081	BUILDING	25° 35' 07.281" N	085° 04' 28.126" E	214
35	VEPT_5082	BUILDING	25° 35' 06.741" N	085° 04' 28.157" E	215
36	VEPT_5083	BUILDING	25° 35' 07.758" N	085° 04' 28.593" E	216
37	VEPT_5084	BUILDING	25° 35' 06.204" N	085° 04' 28.620" E	216
38	VEPT_5085	BUILDING	25° 35' 06.405" N	085° 04' 29.406" E	215
39	VEPT_5089	BUILDING	25° 35' 07.250" N	085° 04' 30.014" E	213
40	VEPT_5091	BUILDING	25° 35' 06.632" N	085° 04' 30.220" E	198
41	VEPT_5093	BUILDING	25° 35' 07.350" N	085° 04' 31.385" E	218
42	VEPT_5094	BUILDING	25° 35' 08.827" N	085° 04' 32.065" E	201
43	VEPT_5096	BUILDING	25° 35' 08.716" N	085° 04' 32.984" E	218
44	VEPT_5098	BUILDING	25° 35' 06.384" N	085° 04' 33.730" E	223
45	VEPT_5100	BUILDING	25° 35' 08.585" N	085° 04' 36.623" E	214
46	VEPT_5101	BUILDING	25° 35' 08.420" N	085° 04' 37.195" E	214
47	VEPT_5123	BUILDING	25° 35' 06.098" N	085° 04' 18.795" E	216
48	VEPT_5124	BUILDING	25° 35' 11.058" N	085° 04' 21.827" E	214
49	VEPT_5125	BUILDING	25° 35' 10.444" N	085° 04' 25.249" E	209
50	VEPT_5126	BUILDING	25° 35' 07.792" N	085° 04' 26.879" E	215
51	VEPT_5127	BUILDING	25° 35' 06.868" N	085° 04' 28.367" E	215
52	VEPT_5128	BUILDING	25° 35' 07.283" N	085° 04' 29.097" E	210
53	VEPT_5129	BUILDING	25° 35' 07.896" N	085° 04' 30.166" E	208
54	VEPT_5130	BUILDING	25° 35' 07.038" N	085° 04' 32.012" E	225
55	VEPT_5131	BUILDING	25° 35' 08.446" N	085° 04' 36.996" E	227
56	VEPT_5172	RAILWAY GANGHUT BUILDING	25° 35' 09.578" N	085° 04' 33.800" E	202
57	VEPT_5174	RAILWAY OUTERSIGNAL BUILDING	25° 35' 09.481" N	085° 04' 33.465" E	211
58	VEPT_5181	SECURITY HUT	25° 35' 15.406" N	085° 04' 34.284" E	191
59	VEPT_5187	SECURITY HUT LIGHTED TOP (HUT TOP 58.0 M.)	25° 35' 28.124" N	085° 05' 09.486" E	192
60	VEPT_5188	SECURITY HUT LIGHTED TOP (HUT TOP 58.0 M.)	25° 35' 22.482" N	085° 05' 52.344" E	192
61	VEPT_5191	SECURITY HUT LIGHTED TOP (HUT TOP 58.9 M.)	25° 35' 13.033" N	085° 04' 44.784" E	195
62	VEPT_5202	SINTEX TANK ON BUILDING	25° 35' 02.140" N	085° 04' 21.114" E	233
63	VEPT_5204	SINTEX TANK ON BUILDING	25° 35' 07.970" N	085° 04' 37.121" E	227
64	VEPT_5206	SINTEX TANK ON BUILDING (BUILDING TOP 58.7 M.)	25° 35' 12.125" N	085° 04' 26.331" E	197
65	VEPT_5207	SINTEX TANK ON BUILDING (BUILDING TOP 62.0 M.)	25° 35' 07.359" N	085° 04' 25.673" E	207
66	VEPT_5208	SINTEX TANK ON BUILDING (BUILDING TOP 62.4 M.)	25° 35' 07.707" N	085° 04' 24.189" E	208
67	VEPT_5209	SINTEX TANK ON BUILDING (BUILDING TOP 63.1 M.)	25° 35' 07.658" N	085° 04' 36.043" E	210
68	VEPT_5210	SINTEX TANK ON BUILDING (BUILDING TOP 63.3 M.)	25° 35' 07.935" N	085° 04' 26.956" E	212
69	VEPT_5211	SINTEX TANK ON BUILDING (BUILDING TOP 63.6 M.)	25° 35' 07.695" N	085° 04' 23.836" E	212
70	VEPT_5212	SINTEX TANK ON BUILDING (BUILDING TOP 63.7 M.)	25° 35' 07.619" N	085° 04' 26.314" E	210
71	VEPT_5213	SINTEX TANK ON BUILDING (BUILDING TOP 64.2 M.)	25° 35' 04.761" N	085° 04' 22.824" E	214
72	VEPT_5214	SINTEX TANK ON BUILDING (BUILDING TOP 64.5 M.)	25° 35' 06.362" N	085° 04' 25.926" E	218
73	VEPT_5215	SINTEX TANK ON BUILDING (BUILDING TOP 64.6 M.)	25° 35' 12.071" N	085° 04' 25.454" E	216
74	VEPT_5216	SINTEX TANK ON BUILDING (BUILDING TOP 64.7 M.)	25° 35' 06.121" N	085° 04' 23.486" E	216
75	VEPT_5217	SINTEX TANK ON BUILDING (BUILDING TOP 64.7 M.)	25° 35' 07.049" N	085° 04' 24.401" E	213
76	VEPT_5218	SINTEX TANK ON BUILDING (BUILDING TOP 64.8 M.)	25° 35' 05.233" N	085° 04' 27.822" E	217
77	VEPT_5219	SINTEX TANK ON BUILDING (BUILDING TOP 65.0 M.)	25° 35' 05.865" N	085° 04' 26.836" E	216
78	VEPT_5220	SINTEX TANK ON BUILDING (BUILDING TOP 65.1 M.)	25° 35' 11.304" N	085° 04' 19.234" E	219
79	VEPT_5221	SINTEX TANK ON BUILDING (BUILDING TOP 65.1 M.)	25° 35' 12.487" N	085° 04' 22.347" E	214
80	VEPT_5222	SINTEX TANK ON BUILDING (BUILDING TOP 65.1 M.)	25° 35' 08.246" N	085° 04' 32.818" E	218
81	VEPT_5224	SINTEX TANK ON BUILDING (BUILDING TOP 65.5 M.)	25° 35' 05.247" N	085° 04' 25.165" E	219
82	VEPT_5225	SINTEX TANK ON BUILDING (BUILDING TOP 65.5 M.)	25° 35' 06.164" N	085° 04' 25.282" E	217
83	VEPT_5226	SINTEX TANK ON BUILDING (BUILDING TOP 65.5 M.)	25° 35' 12.382" N	085° 04' 25.467" E	219
84	VEPT_5227	SINTEX TANK ON BUILDING (BUILDING TOP 65.7 M.)	25° 35' 06.078" N	085° 04' 24.810" E	218
85	VEPT_5229	SINTEX TANK ON BUILDING (BUILDING TOP 66.0 M.)	25° 35' 03.230" N	085° 04' 23.056" E	221
86	VEPT_5232	SINTEX TANK ON BUILDING (BUILDING TOP 66.3 M.)	25° 35' 04.878" N	085° 04' 25.654" E	219
87	VEPT_5238	SINTEX TANK ON BUILDING (BUILDING TOP 67.1 M.)	25° 35' 02.809" N	085° 04' 23.289" E	223
88	VEPT_5239	SINTEX TANK ON BUILDING (BUILDING TOP 67.2 M.)	25° 35' 03.028" N	085° 04' 17.365" E	226
89	VEPT_5244	SINTEX TANK ON BUILDING (BUILDING TOP 67.8 M.)	25° 35' 04.311" N	085° 04' 29.617" E	223
90	VEPT_5249	SINTEX TANK ON BUILDING (BUILDING TOP 68.4 M.)	25° 35' 00.595" N	085° 04' 15.138" E	229
91	VEPT_5280	STAIRCASE ROOM TOP ON BUILDING	25° 35' 08.234" N	085° 04' 32.686" E	217
92	VEPT_5283	TEMPLE	25° 35' 15.974" N	085° 04' 35.048" E	198
93	VEPT_5285	TEMPLE	25° 35' 07.146" N	085° 04' 26.261" E	210
94	VEPT_5287	SHED TRUSS TOP	25° 35' 17.129" N	085° 04' 37.679" E	205
95	VEPT_5298	WATER TANK TOP ON BUILDING	25° 35' 08.521" N	085° 04' 40.266" E	225
96	VEPT_5306	BUILDING	25° 35' 07.886" N	085° 04' 35.294" E	209
97	VEPT_5496	SINTEX TANK ON BUILDING (BUILDING TOP 38.2 M.)	25° 35' 08.162" N	085° 04' 36.118" E	225
98	VEPT_5500	SINTEX TANK ON BUILDING BUILDING TOP 67.3 M.)	25° 35' 08.117" N	085° 04' 40.051" E	224
99	VEPT_5552	SECURITY HUT	25° 35' 17.175" N	085° 04' 38.607" E	194
100	VEPT_5566	BUILDING U/C	25° 35' 09.642" N	085° 04' 18.261" E	216
101	VEPT_5568	BUILDING U/C	25° 35' 11.961" N	085° 04' 21.165" E	220
102	VEPT_5571	SHED ON BUILDING (BUILDING TOP=70.7 M.)	25° 34' 59.433" N	085° 04' 12.240" E	239
103	VEPT_5578	SINTEX TANK ON BUILDING (BUILDING TOP=70.5 M.)	25° 35' 07.435" N	085° 04' 33.590" E	235
104	VEPT_5579	SINTEX TANK ON BUILDING (BUILDING TOP=69.2 M.)	25° 35' 08.032" N	085° 04' 37.608" E	230
105	VEPT_5583	BUILDING	25° 34' 50.854" N	085° 06' 33.198" E	341
106	VEPT_6007	GROUP OF TREE	25° 35' 13.111" N	085° 04' 48.580" E	220
107	VEPT_6008	GROUP OF TREE	25° 35' 10.666" N	085° 04' 46.096" E	227
108	VEPT_6009	GROUP OF TREE	25° 35' 17.045" N	085° 04' 37.750" E	220
109	VEPT_6019	GROUP OF TREE	25° 35' 07.823" N	085° 04' 12.197" E	248
110	VEPT_6020	GROUP OF TREE	25° 35' 09.058" N	085° 04' 19.150" E	221
111	VEPT_6022	GROUP OF TREE	25° 35' 22.191" N	085° 04' 39.000" E	266
112	VEPT_6026	GROUP OF TREE	25° 35' 44.522" N	085° 05' 52.414" E	239
113	VEPT_6029	GROUP OF TREE (PALM)	25° 35' 10.680" N	085° 04' 14.232" E	238
114	VEPT_6030	GROUP OF TREE (PALM)	25° 35' 13.748" N	085° 04' 17.428" E	255
115	VEPT_6031	GROUP OF TREE (PALM)	25° 35' 07.376" N	085° 04' 19.836" E	225
116	VEPT_6033	TREE	25° 35' 15.963" N	085° 04' 34.272" E	225
117	VEPT_6035	TREE	25° 35' 13.676" N	085° 04' 32.020" E	216
118	VEPT_6036	GROUP OF TREES	25° 35' 18.520" N	085° 04' 32.128" E	245
119	VEPT_6037	GROUP OF TREES	25° 35' 14.568" N	085° 04' 34.022" E	196
120	VEPT_6039	GROUP OF TREES	25° 35' 22.151" N	085° 04' 38.829" E	266
121	VEPT_6051	PALM TREE	25° 35' 11.184" N	085° 04' 20.703" E	232
122	VEPT_6053	PALM TREE	25° 35' 09.004" N	085° 04' 29.450" E	216
123	VEPT_6054	PALM TREE	25° 35' 08.843" N	085° 04' 31.821" E	227
124	VEPT_6055	PIPAL TREE	25° 35' 17.101" N	085° 04' 37.933" E	216
125	VEPT_6057	COCONUT TREE	25° 35' 27.377" N	085° 05' 32.188" E	219
126	VEPT_6061	TREE	25° 35' 44.925" N	085° 05' 44.666" E	249
127	VEPT_6062	TREE	25° 35' 35.996" N	085° 05' 54.478" E	247
128	VEPT_6063	TREE	25° 35' 33.599" N	085° 05' 51.272" E	245
129	VEPT_6067	TREE	25° 35' 12.432" N	085° 04' 45.677" E	213
130	VEPT_6068	TREE	25° 35' 14.547" N	085° 04' 34.247" E	216
131	VEPT_6069	TREE	25° 35' 18.026" N	085° 04' 33.673" E	235
132	VEPT_6070	TREE	25° 35' 17.388" N	085° 04' 34.394" E	242
133	VEPT_6071	TREE	25° 35' 20.931" N	085° 04' 38.352" E	240
134	VEPT_6075	TREE	25° 35' 13.912" N	085° 04' 32.062" E	216
135	VEPT_6076	TREE	25° 35' 14.223" N	085° 04' 33.216" E	210
136	VEPT_6077	TREE	25° 35' 16.429" N	085° 04' 36.651" E	216
137	VEPT_6090	TREE	25° 34' 59.188" N	085° 04' 12.446" E	232
138	VEPT_6091	TREE	25° 35' 05.749" N	085° 04' 20.028" E	236
139	VEPT_6092	TREE	25° 35' 03.848" N	085° 04' 20.937" E	251
140	VEPT_6093	TREE	25° 35' 12.218" N	085° 04' 21.715" E	242
141	VEPT_6094	TREE	25° 35' 07.743" N	085° 04' 22.913" E	214
142	VEPT_6095	TREE	25° 35' 12.023" N	085° 04' 22.911" E	208
143	VEPT_6098	TREE	25° 35' 09.604" N	085° 04' 25.241" E	226
144	VEPT_6099	TREE	25° 35' 15.160" N	085° 04' 14.208" E	248
145	VEPT_6100	TREE	25° 35' 11.506" N	085° 04' 25.795" E	223
146	VEPT_6101	TREE	25° 35' 15.679" N	085° 04' 29.066" E	215
147	VEPT_6102	TREE	25° 35' 05.179" N	085° 04' 30.152" E	229
148	VEPT_6103	TREE	25° 35' 13.318" N	085° 04' 30.280" E	210
149	VEPT_6104	TREE	25° 35' 16.041" N	085° 04' 31.349" E	227
150	VEPT_6105	TREE	25° 35' 14.594" N	085° 04' 32.008" E	217
151	VEPT_6106	TREE	25° 35' 15.809" N	085° 04' 32.196" E	221
152	VEPT_6107	TREE	25° 35' 06.230" N	085° 04' 32.513" E	240
153	VEPT_6109	TREE	25° 35' 06.148" N	085° 04' 33.056" E	242
154	VEPT_6110	TREE	25° 35' 45.558" N	085° 05' 49.240" E	248
155	VEPT_6111	TREE	25° 35' 32.664" N	085° 05' 50.758" E	253
156	VEPT_6115	GROUP OF TREE	25° 35' 01.150" N	085° 04' 03.009" E	252
157	VEPT_6123	GROUP OF PALM TREE	25° 35' 37.563" N	085° 06' 01.706" E	257
158	VEPT_6125	GROUP OF TREE	25° 35' 43.232" N	085° 05' 54.323" E	210
159	VEPT_6126	GROUP OF TREE	25° 35' 40.214" N	085° 06' 04.658" E	220
160	VEPT_6127	GROUP OF TREE	25° 35' 46.374" N	085° 06' 07.261" E	228
161	VEPT_6128	GROUP OF TREE	25° 35' 45.489" N	085° 06' 07.742" E	242
162	VEPT_6129	GROUP OF TREE	25° 35' 46.533" N	085° 06' 08.546" E	218
163	VEPT_6130	GROUP OF TREE	25° 35' 47.033" N	085° 06' 09.680" E	228
164	VEPT_6131	GROUP OF TREE	25° 35' 48.998" N	085° 06' 09.150" E	230
165	VEPT_6132	GROUP OF TREE	25° 35' 48.982" N	085° 06' 11.636" E	238
166	VEPT_6133	GROUP OF TREE	25° 35' 50.450" N	085° 06' 12.049" E	234
167	VEPT_6134	GROUP OF TREE	25° 35' 52.517" N	085° 06' 12.003" E	237
168	VEPT_6135	GROUP OF TREE	25° 35' 53.391" N	085° 06' 15.375" E	263
169	VEPT_6136	GROUP OF TREE	25° 35' 51.703" N	085° 06' 15.329" E	227
170	VEPT_6137	GROUP OF TREE	25° 35' 50.652" N	085° 06' 16.626" E	246
171	VEPT_6138	GROUP OF TREE	25° 35' 51.927" N	085° 06' 23.129" E	255
172	VEPT_6139	GROUP OF TREE	25° 35' 53.893" N	085° 06' 24.835" E	263
173	VEPT_6140	GROUP OF TREE	25° 35' 51.251" N	085° 06' 25.552" E	243
174	VEPT_6142	GROUP OF TREE	25° 35' 46.052" N	085° 06' 30.242" E	256
175	VEPT_6144	GROUP OF TREE	25° 35' 44.293" N	085° 06' 26.317" E	249
176	VEPT_6145	GROUP OF TREE	25° 35' 44.352" N	085° 06' 22.643" E	235
177	VEPT_6147	GROUP OF TREE	25° 35' 43.394" N	085° 06' 18.297" E	239
178	VEPT_6148	GROUP OF TREE	25° 35' 45.257" N	085° 06' 17.401" E	226
179	VEPT_6149	GROUP OF TREE	25° 35' 45.964" N	085° 06' 16.359" E	239
180	VEPT_6150	GROUP OF TREE	25° 35' 44.456" N	085° 06' 16.265" E	245
181	VEPT_6151	GROUP OF TREE	25° 35' 43.097" N	085° 06' 15.278" E	219
182	VEPT_6152	GROUP OF TREE	25° 35' 44.699" N	085° 05' 59.959" E	206
183	VEPT_6153	GROUP OF TREE	25° 35' 42.629" N	085° 06' 03.460" E	199
184	VEPT_6154	GROUP OF TREE	25° 35' 48.312" N	085° 06' 05.313" E	219
185	VEPT_6155	GROUP OF TREE	25° 35' 44.015" N	085° 05' 55.301" E	219
186	VEPT_6156	GROUP OF TREE	25° 35' 43.814" N	085° 05' 56.049" E	219
187	VEPT_6157	GROUP OF TREE	25° 35' 42.103" N	085° 05' 58.008" E	189
188	VEPT_6158	GROUP OF TREE	25° 35' 41.296" N	085° 06' 00.466" E	200
189	VEPT_6159	GROUP OF TREE	25° 35' 50.284" N	085° 06' 08.508" E	229
190	VEPT_6160	GROUP OF TREE	25° 35' 57.639" N	085° 06' 22.913" E	267
191	VEPT_6161	GROUP OF TREE	25° 35' 46.650" N	085° 06' 00.603" E	201
192	VEPT_6162	GROUP OF TREE	25° 35' 40.126" N	085° 06' 06.491" E	240
193	VEPT_6163	GROUP OF TREE	25° 35' 44.082" N	085° 05' 57.197" E	222
194	VEPT_6164	GROUP OF TREE	25° 35' 44.722" N	085° 05' 57.665" E	217
195	VEPT_6165	GROUP OF TREE	25° 35' 44.255" N	085° 05' 58.336" E	216
196	VEPT_6166	GROUP OF TREE	25° 35' 43.391" N	085° 05' 58.384" E	211
197	VEPT_6167	GROUP OF TREE	25° 35' 41.966" N	085° 05' 59.477" E	199
198	VEPT_6168	GROUP OF TREE	25° 35' 43.278" N	085° 06' 00.766" E	205
199	VEPT_6169	GROUP OF TREE	25° 35' 42.459" N	085° 06' 02.299" E	198
200	VEPT_6170	GROUP OF TREE	25° 35' 44.544" N	085° 06' 02.265" E	211
201	VEPT_6172	GROUP OF TREE	25° 35' 45.366" N	085° 06' 01.542" E	212
202	VEPT_6173	GROUP OF TREE	25° 35' 47.568" N	085° 06' 01.404" E	235
203	VEPT_6174	GROUP OF TREE	25° 35' 46.084" N	085° 06' 05.441" E	208
204	VEPT_6175	GROUP OF TREE	25° 35' 49.332" N	085° 06' 05.418" E	260
205	VEPT_6176	GROUP OF TREE	25° 35' 46.737" N	085° 06' 06.793" E	207
206	VEPT_6177	GROUP OF TREE	25° 35' 48.501" N	085° 06' 07.807" E	239
207	VEPT_6178	GROUP OF TREE	25° 35' 45.091" N	085° 06' 12.540" E	227
208	VEPT_6179	GROUP OF TREE	25° 35' 40.539" N	085° 06' 08.617" E	253
209	VEPT_6180	GROUP OF TREE	25° 35' 42.873" N	085° 06' 13.669" E	250
210	VEPT_6181	GROUP OF TREE	25° 35' 44.624" N	085° 06' 18.914" E	241
211	VEPT_6182	GROUP OF TREE	25° 35' 50.924" N	085° 06' 20.569" E	246
212	VEPT_6183	GROUP OF TREE	25° 35' 51.519" N	085° 06' 13.589" E	246

S_NO.	UUID	OBJECT	LATITUDE	LONGITUDE	TOP ELEV. IN FEET
213	VEPT_6184	GROUP OF TREE	25° 35' 54.428" N	085° 06' 12.422" E	290
214	VEPT_6185	GROUP OF TREE	25° 35' 49.794" N	085° 06' 27.155" E	248
215	VEPT_6186	GROUP OF TREE	25° 35' 47.913" N	085° 05' 59.524" E	237
216	VEPT_6187	GROUP OF TREE	25° 35' 49.123" N	085° 06' 01.589" E	254
217	VEPT_6188	GROUP OF TREE	25° 35' 50.277" N	085° 06' 02.106" E	269
218	VEPT_6189	GROUP OF TREE	25° 35' 50.448" N	085° 06' 02.860" E	260
219	VEPT_6190	GROUP OF TREE	25° 35' 43.682" N	085° 05' 53.307" E	224
220	VEPT_6191	GROUP OF TREE	25° 35' 44.817" N	085° 05' 56.021" E	224
221	VEPT_6192	GROUP OF TREE	25° 35' 45.872" N	085° 05' 57.588" E	247
222	VEPT_6193	GROUP OF TREE	25° 35' 46.656" N	085° 05' 58.635" E	247
223	VEPT_6194	GROUP OF TREE	25° 35' 50.344" N	085° 06' 05.770" E	244
224	VEPT_6195	GROUP OF TREE	25° 35' 44.865" N	085° 06' 09.453" E	238
225	VEPT_6196	GROUP OF TREE	25° 35' 40.574" N	085° 06' 02.765" E	212
226	VEPT_6197	GROUP OF TREE	25° 35' 36.846" N	085° 05' 53.844" E	225
227	VEPT_6199	GROUP OF TREE	25° 35' 35.742" N	085° 05' 55.247" E	243
228	VEPT_6200	GROUP OF TREE	25° 35' 37.735" N	085° 06' 08.706" E	267
229	VEPT_6201	GROUP OF TREE	25° 35' 45.373" N	085° 05' 50.925" E	246
230	VEPT_6202	GROUP OF TREE	25° 35' 37.082" N	085° 06' 00.531" E	257
231	VEPT_6204	GROUP OF TREE	25° 35' 46.359" N	085° 05' 50.385" E	250
232	VEPT_6205	GROUP OF TREE	25° 35' 44.186" N	085° 05' 52.958" E	238
233	VEPT_6214	GROUP OF TREE	25° 35' 27.772" N	085° 05' 32.158" E	219
234	VEPT_6217	GROUP OF TREE	25° 35' 31.943" N	085° 05' 45.192" E	242
235	VEPT_6218	GROUP OF TREE	25° 35' 51.230" N	085° 05' 59.931" E	257
236	VEPT_6221	GROUP OF TREE	25° 35' 44.599" N	085° 06' 07.332" E	219
237	VEPT_6222	GROUP OF TREE	25° 35' 44.881" N	085° 05' 44.683" E	249
238	VEPT_6254	LYPTUS TREE	25° 35' 49.993" N	085° 06' 09.423" E	265
239	VEPT_6255	TREE	25° 35' 36.849" N	085° 05' 56.715" E	250
240	VEPT_6256	TREE	25° 35' 39.273" N	085° 06' 02.373" E	208
241	VEPT_6257	TREE	25° 35' 44.230" N	085° 06' 01.114" E	212
242	VEPT_6258	TREE	25° 35' 47.308" N	085° 05' 59.171" E	248
243	VEPT_6259	TREE	25° 35' 48.554" N	085° 06' 04.214" E	243
244	VEPT_6260	TREE	25° 35' 46.272" N	085° 05' 55.988" E	243
245	VEPT_6261	TREE	25° 35' 44.795" N	085° 05' 49.617" E	254
246	VEPT_6263	TREE	25° 35' 38.464" N	085° 05' 57.798" E	231
247	VEPT_6264	TREE	25° 35' 42.358" N	085° 06' 00.540" E	205
248	VEPT_6265	TREE	25° 35' 34.960" N	085° 06' 00.737" E	257
249	VEPT_6269	TREE	25° 35' 44.921" N	085° 05' 54.943" E	242
250	VEPT_6271	TREE	25° 35' 47.137" N	085° 06' 19.340" E	240
251	VEPT_6272	TREE	25° 35' 44.312" N	085° 06' 13.547" E	224
252	VEPT_6279	TREE	25° 35' 46.572" N	085° 05' 46.955" E	263
253	VEPT_6280	TREE	25° 35' 46.470" N	085° 05' 47.475" E	249
254	VEPT_6281	TREE	25° 35' 45.615" N	085° 05' 48.405" E	242
255	VEPT_6282	TREE	25° 35' 38.343" N	085° 05' 56.391" E	221
256	VEPT_6283	TREE	25° 35' 37.686" N	085° 05' 56.863" E	237
257	VEPT_6284	TREE	25° 35' 35.623" N	085° 05' 57.341" E	260
258	VEPT_6285	TREE	25° 35' 34.798" N	085° 05' 57.359" E	252
259	VEPT_6286	TREE	25° 35' 46.575" N	085° 05' 57.225" E	243
260	VEPT_6287	TREE	25° 35' 37.028" N	085° 05' 57.843" E	250
261	VEPT_6288	TREE	25° 35' 40.775" N	085° 05' 59.341" E	235
262	VEPT_6289	TREE	25° 35' 40.037" N	085° 06' 01.409" E	217
263	VEPT_6290	TREE	25° 35' 39.253" N	085° 06' 02.929" E	221
264	VEPT_6291	TREE	25° 35' 39.529" N	085° 06' 03.170" E	216
265	VEPT_6292	TREE	25° 35' 41.345" N	085° 06' 03.321" E	214
266	VEPT_6293	TREE	25° 35' 40.110" N	085° 06' 03.626" E	218
267	VEPT_6294	TREE	25° 35' 40.765" N	085° 06' 03.843" E	207
268	VEPT_6295	TREE	25° 35' 40.714" N	085° 06' 04.082" E	214
269	VEPT_6296	TREE	25° 35' 39.028" N	085° 06' 04.400" E	219
270	VEPT_6297	TREE	25° 35' 40.665" N	085° 06' 04.525" E	221
271	VEPT_6298	TREE	25° 35' 38.453" N	085° 06' 04.978" E	231
272	VEPT_6299	TREE	25° 35' 40.226" N	085° 06' 04.984" E	212
273	VEPT_6300	TREE	25° 35' 40.348" N	085° 06' 06.280" E	238
274	VEPT_6301	TREE	25° 35' 51.570" N	085° 06' 08.691" E	231
275	VEPT_6302	TREE	25° 35' 45.764" N	085° 06' 10.161" E	227
276	VEPT_6303	TREE	25° 35' 50.908" N	085° 06' 10.584" E	236
277	VEPT_6305	TREE	25° 35' 53.152" N	085° 06' 03.814" E	279
278	VEPT_6306	TREE	25° 35' 52.711" N	085° 06' 07.367" E	275
279	VEPT_6307	TREE	25° 35' 56.270" N	085° 06' 16.125" E	242
280	VEPT_6308	TREE	25° 35' 54.727" N	085° 06' 13.967" E	247
281	VEPT_6309	TREE	25° 35' 47.159" N	085° 06' 11.949" E	236
282	VEPT_6310	TREE	25° 35' 43.391" N	085° 06' 06.984" E	235
283	VEPT_6311	TREE	25° 35' 38.651" N	085° 06' 07.378" E	244
284	VEPT_6320	TREE	25° 35' 08.865" N	085° 04' 37.283" E	224
285	VEPT_6326	GROUP OF TREE	25° 35' 22.378" N	085° 04' 43.007" E	240
286	VEPT_6330	GROUP OF TREE	25° 35' 08.856" N	085° 04' 33.723" E	220
287	VEPT_6332	GROUP OF TREE	25° 35' 50.953" N	085° 06' 24.273" E	240
288	VEPT_6333	GROUP OF TREE	25° 35' 49.185" N	085° 06' 24.855" E	244
289	VEPT_6335	GROUP OF TREE	25° 35' 43.345" N	085° 06' 06.190" E	233
290	VEPT_6336	GROUP OF TREE	25° 35' 41.189" N	085° 06' 05.674" E	221
291	VEPT_6338	GROUP OF TREE	25° 35' 33.815" N	085° 05' 49.259" E	219
292	VEPT_6342	GROUP OF TREE	25° 35' 33.280" N	085° 05' 46.865" E	216
293	VEPT_7010	COMMUNICATION ANTENNA ON BUILDING(BUILDING TOP 68.3 M.)	25° 35' 04.393" N	085° 04' 30.056" E	231
294	VEPT_7012	COMMUNICATION TOWER	25° 35' 09.233" N	085° 05' 47.661" E	343
295	VEPT_7020	ELECTRIC POLE	25° 35' 10.915" N	085° 04' 41.549" E	210
296	VEPT_7024	POLE	25° 35' 10.268" N	085° 04' 34.352" E	205
297	VEPT_7030	ELECTRIC POLE	25° 35' 11.838" N	085° 04' 26.013" E	201
298	VEPT_7034	POLE	25° 35' 10.085" N	085° 04' 33.081" E	205
299	VEPT_7037	ELECTRIC POLE WITH TRANSFORMER	25° 35' 13.068" N	085° 04' 25.430" E	200
300	VEPT_7039	ELECTRIC POLE WITH TRANSFORMER	25° 35' 13.066" N	085° 04' 26.020" E	199
301	VEPT_7040	FLOOD LIGHT MAST (L)	25° 35' 10.411" N	085° 04' 48.997" E	247
302	VEPT_7047	RAILWAY ELECTRIC POLE	25° 35' 11.676" N	085° 04' 45.169" E	210
303	VEPT_7048	RAILWAY LIGHT POLE	25° 35' 11.283" N	085° 04' 41.995" E	210
304	VEPT_7056	LIGHT POLE	25° 35' 11.763" N	085° 04' 46.329" E	209
305	VEPT_7057	LIGHT POLE	25° 35' 13.168" N	085° 04' 46.273" E	197
306	VEPT_7065	MAST	25° 34' 57.961" N	085° 04' 15.584" E	287
307	VEPT_7067	MAST	25° 35' 11.304" N	085° 04' 49.159" E	224
308	VEPT_7068	MAST NEAR FLY GUMTI BUILDING	25° 35' 09.369" N	085° 04' 33.045" E	228
309	VEPT_7069	MAST ON BUILDING (BUILDING ELEVATION=67.5M)	25° 35' 00.666" N	085° 04' 13.165" E	244
310	VEPT_7070	RAILWAY ELECTRIC POLE	25° 35' 11.542" N	085° 04' 44.075" E	210
311	VEPT_7071	RAILWAY ELECTRIC POLE	25° 35' 11.305" N	085° 04' 42.495" E	208
312	VEPT_7072	POLE	25° 35' 11.007" N	085° 04' 39.002" E	204
313	VEPT_7073	POLE	25° 35' 10.610" N	085° 04' 36.255" E	208
314	VEPT_7074	POLE	25° 35' 11.293" N	085° 04' 40.415" E	204
315	VEPT_7075	POLE	25° 35' 11.554" N	085° 04' 41.844" E	204
316	VEPT_7076	POLE	25° 35' 11.404" N	085° 04' 42.973" E	210
317	VEPT_7077	POLE	25° 35' 12.112" N	085° 04' 46.315" E	203
318	VEPT_7079	POLE	25° 35' 08.696" N	085° 04' 24.787" E	211
319	VEPT_7080	POLE	25° 35' 09.344" N	085° 04' 27.294" E	207
320	VEPT_7081	POLE	25° 35' 09.241" N	085° 04' 29.265" E	207
321	VEPT_7083	POLE	25° 35' 09.625" N	085° 04' 29.532" E	208
322	VEPT_7088	CELLPHONE MAST	25° 34' 57.280" N	085° 04' 03.388" E	267
323	VEPT_7089	CELLPHONE MAST	25° 34' 44.472" N	085° 03' 44.252" E	314
324	VEPT_7090	CELLPHONE MAST	25° 34' 37.735" N	085° 03' 59.620" E	325
325	VEPT_7093	CELLPHONE MAST	25° 34' 46.296" N	085° 04' 07.645" E	346
326	VEPT_7095	MICROWAVE TOWER	25° 35' 11.071" N	085° 02' 40.848" E	354
327	VEPT_7152	CELLPHONE MAST (PORTABLE)	25° 35' 44.853" N	085° 06' 10.209" E	236
328	VEPT_7207	MAST	25° 35' 51.062" N	085° 06' 10.710" E	243
329	VEPT_7218	MAST	25° 35' 44.915" N	085° 06' 19.577" E	232
330	VEPT_7246	T.V TOWER TOP	25° 35' 36.914" N	085° 10' 15.867" E	684
331	VEPT_7294	MAST	25° 36' 58.402" N	085° 06' 52.869" E	349
332	VEPT_7295	MAST	25° 36' 43.500" N	085° 07' 11.369" E	347
333	VEPT_7318	WDI LGT TOP(WDI TOP 57.3 M.)	25° 35' 21.727" N	085° 04' 54.125" E	196
334	VEPT_7319	MULTI MAST ON BUILDING (BUILDING TOP 66.7 M.)	25° 34' 58.400" N	085° 04' 13.553" E	248
335	VEPT_7323	CATENARY MAST	25° 35' 08.961" N	085° 04' 34.273" E	211
336	VEPT_7327	RAILWAY ELECTRIC POLE	25° 35' 10.939" N	085° 04' 39.947" E	208
337	VEPT_7328	RAILWAY ELECTRIC POLE	25° 35' 10.825" N	085° 04' 37.681" E	208
338	VEPT_7329	RAILWAY ELECTRIC POLE	25° 35' 10.556" N	085° 04' 35.767" E	208
339	VEPT_7330	RAILWAY ELECTRIC POLE	25° 35' 10.225" N	085° 04' 34.034" E	208
340	VEPT_7331	RAILWAY ELECTRIC POLE	25° 35' 09.694" N	085° 04' 34.118" E	208
341	VEPT_7332	RAILWAY ELECTRIC POLE	25° 35' 09.885" N	085° 04' 35.874" E	208
342	VEPT_7333	RAILWAY ELECTRIC POLE	25° 35' 11.942" N	085° 04' 47.379" E	210
343	VEPT_7334	RAILWAY ELECTRIC POLE	25° 35' 09.116" N	085° 04' 24.592" E	210
344	VEPT_7335	RAILWAY ELECTRIC POLE	25° 35' 09.424" N	085° 04' 31.602" E	209
345	VEPT_7336	RAILWAY ELECTRIC POLE	25° 35' 09.909" N	085° 04' 31.615" E	208
346	VEPT_7338	RAILWAY POLE	25° 35' 08.246" N	085° 04' 21.275" E	209
347	VEPT_7339	RAILWAY POLE	25° 35' 08.956" N	085° 04' 22.997" E	209
348	VEPT_7353	LIGHTED POLE	25° 35' 12.644" N	085° 04' 33.508" E	188
349	VEPT_7373	MAST	25° 35' 14.134" N	085° 04' 28.477" E	219
350	VEPT_7394	CELLPHONE MAST	25° 36' 22.999" N	085° 04' 00.106" E	338
351	VEPT_7396	CELLPHONE MAST	25° 36' 06.307" N	085° 04' 25.605" E	347
352	VEPT_7397	CELLPHONE MAST	25° 34' 25.382" N	085° 04' 34.029" E	347
353	VEPT_7398	CELLPHONE MAST	25° 34' 03.001" N	085° 04' 37.253" E	346
354	VEPT_7400	CELLPHONE MAST	25° 36' 33.258" N	085° 04' 41.266" E	345
355	VEPT_7401	CELLPHONE MAST	25° 33' 58.533" N	085° 04' 45.959" E	341
356	VEPT_7404	CELLPHONE MAST	25° 34' 06.396" N	085° 05' 45.562" E	400
357	VEPT_7406	CELLPHONE MAST	25° 37' 19.765" N	085° 07' 12.830" E	437
358	VEPT_7426	CELLPHONE MAST	25° 36' 45.448" N	085° 07' 06.306" E	338
359	VEPT_8015	AIRPORT BOUNDARY WALL WITH FENCING TOP	25° 35' 43.252" N	085° 05' 51.831" E	181
360	VEPT_8016	AIRPORT BOUNDARY WALL WITH FENCING TOP	25° 35' 43.056" N	085° 05' 52.380" E	182
361	VEPT_8019	AIRPORT BOUNDARY WALL WITH FENCING TOP	25° 35' 12.181" N	085° 04' 43.297" E	187
362	VEPT_8020	AIRPORT BOUNDARY WALL WITH FENCING TOP	25° 35' 10.946" N	085° 04' 38.032" E	189
363	VEPT_8021	AIRPORT BOUNDARY WALL WITH FENCING TOP	25° 35' 10.698" N	085° 04' 34.846" E	188
364	VEPT_8022	AIRPORT BOUNDARY WALL WITH FENCING TOP	25° 35' 14.317" N	085° 04' 34.554" E	187
365	VEPT_8025	AIRPORT BOUNDARY WALL WITH FENCING TOP	25° 35' 17.054" N	085° 04' 38.388" E	187
366	VEPT_8029	AIRPORT BOUNDARY WALL WITH FENCING ON TOP	25° 35' 11.399" N	085° 04' 40.698" E	188
367	VEPT_8031	MOBILE RAIL TRAFFIC (RAIL TRACK ELEVATION 54.4 M. + TRAFFIC HEIGHT 7.6 M.)	25° 35' 11.124" N	085° 04' 40.384" E	203
368	VEPT_8033	MOBILE RAIL TRAFFIC (RAIL TRACK ELEVATION 54.7 M. + TRAFFIC HEIGHT 7.6 M.)	25° 35' 10.487" N	085° 04' 38.449" E	204
369	VEPT_8034	MOBILE RAIL TRAFFIC (RAIL TRACK ELEVATION 54.7 M. + TRAFFIC HEIGHT 7.6 M.)	25° 35' 10.717" N	085° 04' 40.380" E	204
370	VEPT_8035	MOBILE RAIL TRAFFIC (RAIL TRACK ELEVATION 54.7 M. + TRAFFIC HEIGHT 7.6 M.)	25° 35' 10.028" N	085° 04' 35.079" E	204
371	VEPT_8036	MOBILE RAIL TRAFFIC (RAIL TRACK ELEVATION 54.8 M. + TRAFFIC HEIGHT 7.6 M.)	25° 35' 08.876" N	085° 04' 24.937" E	205
372	VEPT_8037	MOBILE RAIL TRAFFIC (RAIL TRACK ELEVATION 54.9 M. + TRAFFIC HEIGHT 7.6 M.)	25° 35' 10.288" N	085° 04' 36.782" E	205
373	VEPT_8040	MOBILE ROAD TRAFFIC (ROAD ELEVATION 52.0 M. + TRAFFIC HEIGHT 5.0 M.)	25° 35' 42.908" N	085° 05' 52.098" E	187
374	VEPT_8041	MOBILE ROAD TRAFFIC (ROAD ELEVATION 52.2 M. + TRAFFIC HEIGHT 5.0 M.)	25° 35' 19.749" N	085° 04' 46.258" E	188
375	VEPT_8044	MOBILE ROAD TRAFFIC (ROAD ELEVATION 52.9 M. + TRAFFIC HEIGHT 5.0 M.)	25° 35' 43.281" N	085° 05' 52.807" E	190
376	VEPT_8045	MOBILE ROAD TRAFFIC (ROAD ELEVATION 53.0 M. + TRAFFIC HEIGHT 5.0 M.)	25° 35' 11.267" N	085° 04' 38.641" E	190
377	VEPT_8046	MOBILE ROAD TRAFFIC (ROAD ELEVATION 53.2 M. + TRAFFIC HEIGHT 5.0 M.)	25° 35' 11.854" N	085° 04' 33.228" E	191
378	VEPT_8047	MOBILE ROAD TRAFFIC (ROAD ELEVATION 53.4 M. + TRAFFIC HEIGHT 5.0 M.)	25° 35' 15.169" N	085° 04' 34.477" E	192
379	VEPT_8048	MOBILE ROAD TRAFFIC (ROAD ELEVATION 54.7 M. + TRAFFIC HEIGHT 5.0 M.)	25° 35' 09.754" N	085° 04' 32.492" E	196
380	VEPT_8049	MOBILE ROAD TRAFFIC (ROAD ELEVATION 54.8 M. + TRAFFIC HEIGHT 5.0 M.)	25° 35' 10.016" N	085° 04' 32.655" E	196
381	VEPT_8052	TIN SHEET COVER ON TOP OF BOUNDARY WALL	25° 35' 10.600" N	085° 04' 33.124" E	188
382	VEPT_8053	TIN SHEET COVER ON TOP OF BOUNDARY WALL	25° 35' 13.414" N	085° 04' 33.086" E	185
383	VEPT_8057	MOBILE ROAD TRAFFIC (ROAD ELEVATION 52.9 M. + TRAFFIC HEIGHT 5.0 M.)	25° 35' 14.223" N	085° 04' 32.514" E	190
384	VEPT_8060	AIRPORT BOUNDARY WALL WITH FENCING TOP	25° 35' 38.265" N	085° 05' 56.221" E	183
385	VEPT_8068	MOBILE ROAD TRAFFIC (ROAD ELEVATION 52.3 M. + TRAFFIC HEIGHT 5.0 M.)	25° 35' 41.541" N	085° 05' 55.911" E	188
386	VEPT_8069	MOBILE ROAD TRAFFIC (ROAD ELEVATION 52.5 M. + TRAFFIC HEIGHT 5.0 M.)	25° 35' 38.465" N	085° 05' 56.195" E	189
387	VEPT_8070	MOBILE ROAD TRAFFIC (ROAD ELEVATION 52.8 M. + TRAFFIC HEIGHT 5.0 M.)	25° 35' 39.128" N	085° 05' 56.612" E	190
388	VEPT_9001	APPROACH LIGHT	25° 35' 40.426" N	085° 05' 52.813" E	181
389	VEPT_9031	GATE WITH FENCING TOP (GATE TOP - 55.87 M.)	25° 35' 13.181" N	085° 04' 33.093" E	185
390	VEPT_9041	LIGHTED TOP ON LLZ HUT (HUT TOP 56.5 M.)	25° 35' 13.301" N	085° 04' 33.349" E	189
391	VEPT_9043	LIGHTENING ROD ON SPEEDCRAFTS INFRATECH FACTORY SHED (SHED TOP=62.6M)	25° 35' 16.908" N	085° 04' 35.769" E	208
392	VEPT_9063	RAILWAY TRACK CROSSING BARRIER	25° 35' 10.168" N	085° 04' 32.723" E	217
393	VEPT_9073	SIGN BOARD	25° 35' 11.321" N	085° 04' 38.192" E	179
394	VEPT_9074	SIGN BOARD	25° 35' 31.397" N	085° 05' 23.673" E	176
395	VEPT_9077	SIGN BOARD	25° 35' 32.963" N	085° 05' 28.097" E	176
396	VEPT_9078	SIGN BOARD	25° 35' 33.178" N	085° 05' 28.544" E	176
397	VEPT_9081	SIGN BOARD	25° 35' 34.734" N	085° 05' 32.916" E	176
398	VEPT_9083	VEHICLE HEIGHT RESTRICTION BAR (FLAG TOP=62.1M)	25° 35' 09.237" N	085° 04' 32.264" E	204
399	VEPT_9203	DISH ANTENNA ON BUILDING (BUILDING TOP 64.2 M.)	25° 35' 08.038" N	085° 04' 27.759" E	213
400	VEPT_9205	FLAG ON BUILDING (BUILDING TOP 64.4 M.)	25° 35' 07.061" N	085° 04' 32.903" E	229
401	VEPT_9207	FLAG ON BUILDING (BUILDING TOP 66.5 M.)	25° 34' 58.558" N	085° 04' 11.621" E	234
402	VEPT_9208	FLAG ON BUILDING (BUILDING TOP 68.3 M.)	25° 35' 07.655" N	085° 04' 39.929" E	235
403	VEPT_9212	ROD ON BUILDING	25° 35' 00.764" N	085° 04' 18.207" E	224
404	VEPT_9216	SHED	25° 35' 13.331" N	085° 04' 32.162" E	187
405	VEPT_9217	SHED ON BUILDING (BUILDING TOP 64.7 M.)	25° 35' 07.308" N	085° 04' 31.123" E	219
406	VEPT_9229	ANTENNA ON BUILDING (BUILDING TOP 63.5 M.)	25° 35' 06.378" N	085° 04' 20.949" E	229
407	VEPT_9236	CLOCK TOWER ROOF TOP(LIGHTED TOP 101.9 M. & TOWER TOP 101.7 M.)	25° 35' 58.488" N	085° 07' 01.168" E	338
408	VEPT_9251	LIGHT ON WDI (WDI TOP=59.3 M.)	25° 35' 39.715" N	085° 05' 42.029" E	196
409	VEPT_9252	MET ANTENNA	25° 35' 19.189" N	085° 05' 05.371" E	210
410	VEPT_9253	MET ANTENNA	25° 35' 19.483" N	085° 05' 05.398" E	209
411	VEPT_9254	MET ANTENNA	25° 35' 29.714" N	085° 05' 13.623" E	208
412	VEPT_9255	MET ANTENNA	25° 35' 37.235" N	085° 05' 32.288" E	208
413	VEPT_9256	MET ANTENNA	25° 35' 37.227" N	085° 05' 32.606" E	207

AERONAUTICAL INFORMATION UPTO:- JULY 2025

COMPILED BY:- CARTO, AIRPORT AUTHORITY OF INDIA

AAI DRG.NO.25/PATNA/2025(CARTO)

AD 2. AERODROMES

VERC AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VERC - BIRSA MUNDA AIRPORT, RANCHI

VERC AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	Aerodrome reference point coordinates and its site	231851N 0851916E MAG. BRG. 135.15 DEG / 1373M from physical extremity of RWY 13.	
2	Direction and distance of aerodrome reference point from the center of the city or town which the aerodrome serves	198 DEG, 05 KM from Ranchi city.	
3	Aerodrome elevation and reference temperature	2150 FT / 38.0 DEG C	
4	Magnetic variation, date of information and annual change	0.41 DEG W (2010) /0.016 DEG E	
5	Name of aerodrome operator, address, telephone, telefax, e-mail address, AFS address, website (if available)	The Airport Director, Airports Authority of India, Birsa Munda Airport, Ranchi -834002,	
		Telephone:	(91) 6516450327 (91) 9431106570
		Fax:	(91) 651 2250500
		AFS:	VERCYHYX
		Email:	apd_verc@AAI.AERO
6	Types of traffic permitted (IFR/VFR)	IFR/VFR	
7	Remarks	Elevation in EGM08	

VERC AD 2.3 OPERATIONAL HOURS

1	Aerodrome Operator	MON-FRI 0400-1230 UTC (0930-1800 IST) SAT, SUN+HOL: NIL	
2	Custom and immigration	NIL	
3	Health and sanitation	NIL	
4	AIS briefing office	H24	
5	ATS reporting office (ARO)	H24	
6	MET Briefing office	H24	
7	Air Traffic Service	H24	
8	Fuelling	H24	
9	Handling	H24	
10	Security	H24	
11	De-icing	NIL	
12	Remarks	Outside of ATS hour's services are available O/R with 24 HR PN to AD.	
		ATS approved hourly runway traffic handling capacity	Maximum number of arrival and departure- 12 Maximum number of arrival only – 06 Maximum number of departure only -10

VERC AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	Nil

2	Fuel and Oil types	ATF
3	Fuelling facilities and capacity	47000 Litres, 10 Litres/Sec
4	De-icing facilities	NIL
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	NIL

VERC AD 2.5 PASSENGER FACILITIES

1	Hotel(s) at or in the vicinity of aerodrome	In the city & 1 KM from the Airport
2	Restaurant(s) at or in the vicinity of aerodrome	At AD and in the city
3	Transportation possibilities	Taxi /Auto Rickshaw
4	Medical Facilities	First aid at AD. Hospital in the city.
5	Bank and post office at or in the vicinity of aerodrome	Banks: in the city & ATM at AD Post office: at AD
6	Tourist office	at AD
7	Remarks	NIL

VERC AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	Aerodrome category for fire fighting	Within ATS HR: CAT-7
2	Rescue equipment	3 Ambulances & 3 CFT
3	Capability for removal of disabled aircraft	1. The critical aircraft for the airport is - A321. 2. Primary responsibility for removal of disabled aircraft rests with the concerned airline. 3. The airlines may contact 'Aerodrome Coordinator for Disabled Aircraft Removal Operations' for coordinating with the agencies having Disabled Aircraft Recovery Kit. 4. Contact Details of Aerodrome Coordinator for Disabled Aircraft Removal Operations: Coordinator : Airport Director Contact No.: 0651-2253395 email: apd_verc@aai.aero
4	Remarks	Disabled aircraft removal provided by individual airlines operator

VERC AD 2.7 SEASONAL AVAILABILITY CLEARING

1	Type(s) of clearing equipment	NIL
2	Clearance priorities	NIL
3	Remarks	NIL

VERC AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Designation, surface and strength of aprons	Refer Parking and Docking Chart
2	Designation, width, surface and strength of taxiways	Refer Parking and Docking Chart
3	Location and elevation of altimeter checkpoints	On TWY C and TWY D. Refer Aerodrome Chart and Aircraft Parking/Docking Chart.
4	Location of VOR checkpoints	TWY 'B': 231907.16 N 0851906.74 E TWY 'C': 231854.75 N 0851921.90 E
5	Position of INS checkpoints	

6	Remarks	i. Coordinates of RWY Holding Positions: a) TWY A: 231924.78N 0851844.31E Elev. 2146 FT b) TWY B: 231906.82N 0851906.44E, Elev. 2133 FT c) TWY C: 231854.46N 0851921.67E Elev. 2123 FT d) TWY D: 231848.57N 0851929.31E, Elev. 2114 FT e) TWY E: 231826.10N 0851956.62E Elev. 2073 FT f) TWY F: 231831.84N 0851957.36E, Elev. 2071 FT g) TWY H: 231926.19N 0851850.28E, Elev. 2136 FT ii. Coordinates of RWY & Taxiway Intersections: a) TWY A: 231922.59N 0851842.23E, Elev. 2150 FT b) TWY B: 231904.64N 0851904.34E, Elev. 2135 FT c) TWY C: 231852.27N 0851919.58E, Elev. 2123 FT d) TWY D: 231844.83N 0851928.76E, Elev. 2113 FT e) TWY E: 231823.92N 0851954.52E, Elev. 2077 FT f) TWY F: 231851.93N 0851932.54E, Elev. 2110 FT iii. Apron II available with 1 parking stand up to CAT B Type Aircraft. iv. Portion of Taxiway 'F' between Taxiway 'C' and old fire station not available. v. Vertical Reference System : EGM08

VERC AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand identification signs, taxiway guidelines and visual docking/parking guidance system at aircraft stands	Taxiing guidance provided on R/T, Guidelines at Apron
2	Runway and taxiway markings and lights	RWY Markings Designation, Aiming Point, THR, TDZ, Centreline, Edge , Turn pad and Displaced THR. Lights RWY 13 Lights: SALS, End Lights, THR, Edge, End, Turning Pad Lights RWY 31 Lights: Approach Lighting upto 180 M with cross bar at 150 M, End Lights, THR, Edge, End,Turning Pad Lights TWY Marking Centreline, Edge Holding Positions on all Taxiways, Fillet on TWY C and D. Lights Edge Light on TWY C & D, RWY Guard Lights Configuration A on TWY B, C & D
3	Stop bars (if any)	Nil
4	Remarks	APRON II edge lights AVBL.

VERC AD 2.10 AERODROME OBSTACLES

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
31/TKOF 13/APCH	OTHER	231925.9N 0851830.2E	2178 FT	NO	SECURITY HUT
31/TKOF 13/APCH	FENCE	231922.4N 0851834.2E	2168 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP (WALL TOP-659.7M)
31/TKOF 13/APCH	POLE	231927.8N 0851834.3E	2174 FT	NO	LIGHT POST
31/TKOF 13/APCH	POLE	231929.0N 0851836.0E	2169 FT	NO	LIGHT POST
31/TKOF 13/APCH	POLE	231930.9N 0851840.1E	2170 FT	NO	LIGHT POST
31/TKOF 13/APCH	OTHER	231928.9N 0851835.9E	2166 FT	NO	GATE
31/TKOF 13/APCH	OTHER	231926.5N 0851834.2E	2174 FT	LGTD	LOCALIZER HUT
31/TKOF 13/APCH	OTHER	231926.2N 0851837.8E	2161 FT	NO	LOCALIZER MONITOR ANTENNA
31/TKOF 13/APCH	OTHER	231926.4N 0851830.8E	2189 FT	NO	HOARDING
31/TKOF 13/APCH	OTHER	231925.4N 0851829.1E	2181 FT	NO	MOBILE ROAD TRAFFIC (ROAD ELEV. 659.8M+5M TRAFFIC HEIGHT)
31/TKOF 13/APCH	OTHER	231928.6N 0851834.8E	2177 FT	NO	MOBILE ROAD TRAFFIC (ROAD ELEV. 658.7M+5M TRAFFIC HEIGHT)
31/TKOF 13/APCH	FENCE	231931.2N 0851840.3E	2160 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP(WALL TOP-657.3M)
31/TKOF 13/APCH	FENCE	231928.4N 0851835.0E	2174 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP(WALL TOP-661.6M)
31/TKOF 13/APCH	OTHER	231926.4N 0851834.3E	2175 FT	NO	LIGHTNING ARRESTOR
31/TKOF 13/APCH	POLE	231931.1N 0851839.7E	2170 FT	NO	LIGHT POST
31/TKOF 13/APCH	POLE	231930.9N 0851838.8E	2163 FT	NO	LIGHT POST
31/TKOF 13/APCH	FENCE	231926.4N 0851831.0E	2175 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP(WALL TOP-662.1M)

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
31/TKOF 13/APCH	TREE	231925.5N 0851829.4E	2207 FT	NO	GROUP OF TREES
31/TKOF 13/APCH	OTHER	231927.9N 0851835.7E	2166 FT	LGTD	LOCALIZER ANTENNA
31/TKOF 13/APCH	OTHER	231924.2N 0851840.3E	2152 FT	NO	APPROACH LIGHT
31/TKOF 13/APCH	FENCE	231930.7N 0851838.4E	2164 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP (WALL TOP-658.4M)
31/TKOF 13/APCH	POLE	231923.7N 0851833.0E	2181 FT	NO	LIGHT POST
31/TKOF 13/APCH	POLE	231925.6N 0851830.7E	2185 FT	NO	LIGHT POST
31/TKOF 13/APCH	POLE	231929.6N 0851841.6E	2175 FT	NO	LIGHT POST
31/TKOF 13/APCH	BUILDING	231925.0N 0851830.4E	2175 FT	NO	BUILDING (PUBLIC CONVINIENCE)
31/TKOF 13/APCH	TREE	231927.4N 0851833.0E	2188 FT	NO	TREE
31/TKOF 13/APCH	OTHER	231926.7N 0851834.0E	2170 FT	LGTD	LOCALIZER NEW HUT
31/TKOF 13/APCH	SIGN	231922.8N 0851838.8E	2152 FT	NO	SIGN BOARD
31/TKOF 13/APCH	SIGN	231925.9N 0851840.7E	2154 FT	NO	SIGN BOARD
31/TKOF 13/APCH	OTHER	231929.9N 0851841.5E	2169 FT	NO	MOBILE ROAD TRAFFIC (ROAD ELEV. 656.2M+5M TRAFFIC HEIGHT)
31/TKOF 13/APCH	OTHER	231932.3N 0851838.5E	2179 FT	NO	SINTEX TANK ON BUILDING(BLDG. TOP=663.1 M.)
31/TKOF 13/APCH	BUILDING	231932.0N 0851837.9E	2180 FT	NO	BUILDING
31/TKOF 13/APCH	POLE	231931.5N 0851837.7E	2174 FT	NO	ELECTRIC POLE
31/TKOF 13/APCH	BUILDING	231931.1N 0851837.0E	2185 FT	NO	BUILDING
31/TKOF 13/APCH	BUILDING	231930.3N 0851836.0E	2186 FT	NO	BUILDING
31/TKOF 13/APCH	BUILDING	231926.5N 0851828.5E	2198 FT	NO	BUILDING
31/TKOF 13/APCH	TREE	231927.7N 0851831.7E	2185 FT	NO	GROUP OF TREE
31/TKOF 13/APCH	OTHER	231927.1N 0851830.4E	2191 FT	NO	HOARDING
31/TKOF 13/APCH	POLE	231928.2N 0851831.8E	2186 FT	NO	ELECTRIC POLE
31/TKOF 13/APCH	POLE	231929.0N 0851833.9E	2182 FT	NO	ELECTRIC POLE

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
31/TKOF 13/APCH	POLE	231930.1N 0851835.6E	2178 FT	NO	ELECTRIC POLE
31/TKOF 13/APCH	POLE	231931.0N 0851837.1E	2175 FT	NO	ELECTRIC POLE
31/TKOF 13/APCH	POLE	231932.3N 0851839.0E	2172 FT	NO	ELECTRIC POLE
31/TKOF 13/APCH	TREE	231928.9N 0851830.2E	2210 FT	NO	GROUP OF TREES
31/TKOF 13/APCH	TREE	231929.6N 0851826.6E	2222 FT	NO	GROUP OF TREE
31/TKOF 13/APCH	TREE	231931.0N 0851827.0E	2218 FT	NO	GROUP OF TREE
31/TKOF 13/APCH	TREE	231930.9N 0851833.6E	2213 FT	NO	GROUP OF TREE
31/TKOF 13/APCH	TREE	231937.0N 0851834.4E	2194 FT	NO	GROUP OF TREES
31/TKOF 13/APCH	BUILDING	231932.6N 0851835.8E	2180 FT	NO	BUILDING
31/TKOF 13/APCH	BUILDING	231935.5N 0851835.1E	2183 FT	NO	BUILDING
31/TKOF 13/APCH	BUILDING	231934.7N 0851833.1E	2186 FT	NO	BUILDING
31/TKOF 13/APCH	BUILDING	231931.6N 0851830.0E	2190 FT	NO	BUILDING
31/TKOF 13/APCH	BUILDING	231931.9N 0851823.4E	2195 FT	NO	BUILDING
31/TKOF 13/APCH	BUILDING	231929.8N 0851831.1E	2194 FT	NO	BUILDING
31/TKOF 13/APCH	BUILDING	231928.9N 0851830.7E	2199 FT	NO	BUILDING
31/TKOF 13/APCH	BUILDING	231928.4N 0851833.0E	2189 FT	NO	BUILDING
31/TKOF 13/APCH	BUILDING	231927.1N 0851830.1E	2193 FT	NO	BUILDING
31/TKOF 13/APCH	POLE	231931.8N 0851838.1E	2173 FT	NO	ELECTRIC POLE
31/TKOF 13/APCH	POLE	231927.0N 0851830.0E	2202 FT	NO	ELECTRIC POLE
31/TKOF 13/APCH	POLE	231926.5N 0851829.3E	2202 FT	NO	ELECTRIC POLE
31/TKOF 13/APCH	BUILDING	231934.0N 0851837.2E	2179 FT	NO	BUILDING
31/TKOF 13/APCH	OTHER	231934.2N 0851837.0E	2183 FT	NO	SINTEX TANK ON BUILDING
31/TKOF 13/APCH	OTHER	231932.8N 0851836.7E	2180 FT	NO	SINTEX TANK ON BUILDING
31/TKOF 13/APCH	OTHER	231931.6N 0851837.5E	2181 FT	NO	ROD ON BUILDING (BUILDING TOP-662.8M)
31/TKOF 13/APCH	BUILDING	231931.7N 0851837.2E	2177 FT	NO	BUILDING

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
31/TKOF 13/APCH	OTHER	231930.8N 0851836.7E	2173 FT	NO	ROD ON BUILDING (BUILDING TOP-661.7M)
31/TKOF 13/APCH	BUILDING	231930.7N 0851836.5E	2185 FT	NO	BUILDING
31/TKOF 13/APCH	BUILDING	231932.6N 0851835.3E	2184 FT	NO	BUILDING
31/TKOF 13/APCH	TREE	231932.0N 0851835.5E	2194 FT	NO	GROUP OF TREES
31/TKOF 13/APCH	BUILDING	231931.2N 0851834.9E	2175 FT	NO	BUILDING
31/TKOF 13/APCH	ANTENNA	231930.2N 0851834.8E	2189 FT	NO	ANTENNA ON BUILDING(BLDG. TOP=666.3 M.)
31/TKOF 13/APCH	BUILDING	231928.7N 0851833.2E	2192 FT	NO	BUILDING
31/TKOF 13/APCH	OTHER	231929.2N 0851831.3E	2194 FT	NO	ROD ON BUILDING (BUILDING TOP-667.2M)
31/TKOF 13/APCH	BUILDING	231928.9N 0851831.3E	2189 FT	NO	BUILDING
31/TKOF 13/APCH	OTHER	231928.6N 0851831.5E	2200 FT	NO	ROD ON BUILDING
31/TKOF 13/APCH	BUILDING	231928.3N 0851831.5E	2195 FT	NO	BUILDING
31/TKOF 13/APCH	BUILDING	231928.1N 0851831.2E	2192 FT	NO	BUILDING
31/TKOF 13/APCH	BUILDING	231927.8N 0851830.8E	2191 FT	NO	BUILDING
31/TKOF 13/APCH	BUILDING	231927.3N 0851829.5E	2197 FT	NO	BUILDING
31/TKOF 13/APCH	BUILDING	231927.3N 0851829.3E	2200 FT	NO	BUILDING
31/TKOF 13/APCH	TREE	231926.3N 0851828.2E	2221 FT	NO	GROUP OF TREE
31/TKOF 13/APCH	BUILDING	231930.1N 0851831.6E	2193 FT	NO	BUILDING
31/TKOF 13/APCH	BUILDING	231930.3N 0851829.4E	2194 FT	NO	BUILDING
31/TKOF 13/APCH	BUILDING	231929.7N 0851833.9E	2189 FT	NO	BUILDING
31/TKOF 13/APCH	BUILDING	231933.1N 0851833.1E	2180 FT	NO	BUILDING
31/TKOF 13/APCH	BUILDING	231929.1N 0851833.8E	2172 FT	NO	BUILDING
31/TKOF 13/APCH	OTHER	231928.4N 0851834.1E	2179 FT	NO	MOBILE ROAD TRAFFIC (ROAD ELEV. 659.3M+5M TRAFFIC HEIGHT)
31/TKOF 13/APCH	BUILDING	231928.5N 0851828.7E	2198 FT	NO	BUILDING

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
31/TKOF 13/APCH	POLE	231928.3N 0851832.8E	2186 FT	NO	ELECTRIC POLE
31/TKOF 13/APCH	BUILDING	231928.6N 0851829.7E	2197 FT	NO	HOUSE
31/TKOF 13/APCH	BUILDING	231928.0N 0851831.9E	2186 FT	NO	BUILDING
31/TKOF 13/APCH	BUILDING	231933.4N 0851837.5E	2179 FT	NO	HOUSE
31/TKOF 13/APCH	OTHER	231927.4N 0851832.1E	2182 FT	NO	MOBILE ROAD TRAFFIC (ROAD ELEV. 660M+5M TRAFFIC HEIGHT)
31/TKOF 13/APCH	POLE	231929.5N 0851834.7E	2184 FT	NO	ELECTRIC POLE
31/TKOF 13/APCH	BUILDING	231935.8N 0851835.9E	2177 FT	NO	BUILDING
31/TKOF 13/APCH	OTHER	231932.0N 0851839.5E	2167 FT	NO	MOBILE ROAD TRAFFIC (ROAD ELEV. 655.4M+5M TRAFFIC HEIGHT)
31/TKOF 13/APCH	ANTENNA	231933.4N 0851831.3E	2182 FT	NO	ANTENNA TOP ON BUILDING
31/TKOF 13/APCH	OTHER	231932.5N 0851838.4E	2180 FT	NO	SINTEXTANK ON BUILDING
31/TKOF 13/APCH	OTHER	231927.0N 0851829.3E	2201 FT	NO	SINTEX TANK ON BUILDING(BLDG. TOP=669.8 M.)
31/TKOF 13/APCH	OTHER	232427.4N 0851336.9E	2721 FT	LGTD	AIR MAST
31/TKOF 13/APCH	OTHER	231928.2N 0851835.9E	2171 FT	NO	LIGHTNING ARRESTER ON LOCALIZER
31/TKOF 13/APCH	TREE	231928.4N 0851830.3E	2211 FT	NO	GROUP OF TREE
31/TKOF 13/APCH	TREE	231928.6N 0851833.5E	2184 FT	NO	TREE
31/TKOF 13/APCH	TREE	231928.8N 0851831.4E	2197 FT	NO	GROUP OF TREE
31/TKOF 13/APCH	TREE	231929.3N 0851823.7E	2201 FT	NO	GROUP OF TREE
31/TKOF 13/APCH	OTHER	231931.5N 0851823.1E	2194 FT	NO	SINTEX TANK ON BUILDING(BLDG. TOP=667.6 M.)
31/TKOF 13/APCH	OTHER	231933.5N 0851837.2E	2192 FT	NO	FLAG ON BUILDING
31/TKOF 13/APCH	TREE	231938.0N 0851813.6E	2212 FT	NO	GROUP OF TREE
31/TKOF 13/APCH	TREE	231943.6N 0851817.8E	2213 FT	NO	GROUP OF TREE
31/APCH 13/TKOF	POLE	231824.3N 0851959.3E	2082 FT	NO	FENCE POLE

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
31/APCH 13/TKOF	FENCE	231819.7N 0851953.8E	2083 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP(WALL TOP-634.0M)
31/APCH 13/TKOF	POLE	231819.5N 0851954.1E	2085 FT	NO	LIGHT POST
31/APCH 13/TKOF	POLE	231818.6N 0851955.3E	2083 FT	NO	LIGHT POLE
31/APCH 13/TKOF	TREE	231817.3N 0851955.7E	2114 FT	NO	GROUP OF TREE
31/APCH 13/TKOF	OTHER	231819.3N 0851955.9E	2086 FT	NO	MOBILE ROAD TRAFFIC (ROAD ELEV. 630.9M+5M TRAFFIC HEIGHT)
31/APCH 13/TKOF	TREE	231815.3N 0851957.4E	2122 FT	NO	GROUP OF TREE
31/APCH 13/TKOF	TREE	231814.8N 0852001.0E	2098 FT	NO	GROUP OF TREES
31/APCH 13/TKOF	TREE	231814.7N 0852002.3E	2110 FT	NO	GROUP OF TREES
31/APCH 13/TKOF	TREE	231813.2N 0852004.6E	2113 FT	NO	GROUP OF TREES
31/APCH 13/TKOF	TREE	231812.5N 0852006.0E	2110 FT	NO	GROUP OF TREES
31/APCH 13/TKOF	TREE	231814.3N 0852005.4E	2107 FT	NO	GROUP OF TREE
31/APCH 13/TKOF	TREE	231814.4N 0852006.3E	2104 FT	NO	GROUP OF TREES
31/APCH 13/TKOF	TREE	231816.2N 0852006.8E	2102 FT	NO	GROUP OF TREES
31/APCH 13/TKOF	TREE	231817.0N 0852007.1E	2113 FT	NO	GROUP OF TREES
31/APCH 13/TKOF	TREE	231820.3N 0852005.4E	2110 FT	NO	GROUP OF TREE
31/APCH 13/TKOF	TREE	231811.6N 0852006.4E	2112 FT	NO	GROUP OF TREES
31/APCH 13/TKOF	TREE	231820.2N 0852003.4E	2095 FT	NO	GROUP OF TREE
31/APCH 13/TKOF	TREE	231822.0N 0852005.0E	2112 FT	NO	GROUP OF TREE
31/APCH 13/TKOF	TREE	231819.3N 0852007.3E	2117 FT	NO	GROUP OF TREES
31/APCH 13/TKOF	TREE	231813.6N 0852003.3E	2105 FT	NO	GROUP OF TREE
31/APCH 13/TKOF	TREE	231810.1N 0852003.7E	2112 FT	NO	TREE
31/APCH 13/TKOF	TREE	231813.4N 0852007.2E	2106 FT	NO	GROUP OF TREE
31/APCH 13/TKOF	TREE	231818.0N 0852008.2E	2110 FT	NO	GROUP OF TREES
31/APCH 13/TKOF	TREE	231813.7N 0852002.6E	2111 FT	NO	GROUP OF TREES

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
31/APCH 13/TKOF	TREE	231819.5N 0852008.7E	2128 FT	NO	GROUP OF TREES
31/APCH 13/TKOF	TREE	231813.0N 0852000.4E	2111 FT	NO	GROUP OF TREE
31/APCH 13/TKOF	TREE	231814.3N 0852001.5E	2122 FT	NO	GROUP OF TREES
31/APCH 13/TKOF	TREE	231814.3N 0852003.6E	2112 FT	NO	GROUP OF TREES
31/APCH 13/TKOF	TREE	231818.3N 0852007.2E	2110 FT	NO	GROUP OF TREES
31/APCH 13/TKOF	TREE	231821.3N 0852005.5E	2108 FT	NO	GROUP OF TREES
31/APCH 13/TKOF	TREE	231815.6N 0851959.3E	2101 FT	NO	GROUP OF TREES
31/APCH 13/TKOF	TREE	231812.3N 0852002.5E	2115 FT	NO	GROUP OF TREE
31/APCH 13/TKOF	TREE	231807.0N 0852005.5E	2113 FT	NO	GROUP OF TREE
31/APCH 13/TKOF	TREE	231802.4N 0852008.9E	2170 FT	NO	GROUP OF TREE
In circling area and at AD	OTHER	231918.0N 0851852.0E	2146 FT	NO	BIRD CHASER HUT
In circling area and at AD	FENCE	231828.4N 0851943.0E	2106 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP(WALL TOP-640.7M)
In circling area and at AD	OTHER	231833.2N 0851949.4E	2098 FT	LGTD	GLIDE PATH HUT
In circling area and at AD	OTHER	231831.7N 0851951.4E	2099 FT	LGTD	GLIDE PATH MONITOR ANTENNA
In circling area and at AD	OTHER	231833.0N 0851949.9E	2129 FT	LGTD	GLIDE PATH MAIN ANTENNA
In circling area and at AD	POLE	231833.1N 0851950.3E	2141 FT	NO	LIGHTNING ARRESTOR POLE
In circling area and at AD	OTHER	231833.1N 0851950.0E	2101 FT	LGTD	GLIDE PATH DME ANTENNA
In circling area and at AD	FENCE	231825.2N 0851958.8E	2081 FT	NO	BOUNDARY WALL
In circling area and at AD	FENCE	231821.8N 0851951.2E	2091 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP(WALL TOP-636.1M)
In circling area and at AD	FENCE	231825.6N 0851946.4E	2099 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP(WALL TOP-638.6M)
In circling area and at AD	POLE	231827.9N 0851944.0E	2107 FT	NO	LIGHT POST

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	POLE	231826.2N 0851946.0E	2104 FT	NO	LIGHT POST
In circling area and at AD	POLE	231823.4N 0851949.5E	2098 FT	NO	LIGHT POST
In circling area and at AD	POLE	231821.9N 0851951.5E	2096 FT	NO	LIGHT POST
In circling area and at AD	POLE	231820.5N 0851953.2E	2094 FT	NO	LIGHT POST
In circling area and at AD	OTHER	231820.8N 0851952.7E	2093 FT	NO	SECURITY HUT
In circling area and at AD	POLE	231825.8N 0851958.2E	2082 FT	NO	LIGHT POST
In circling area and at AD	OTHER	231825.7N 0851957.9E	2090 FT	NO	MOBILE ROAD TRAFFIC (ROAD ELEV. 631.9M+5M TRAFFIC HEIGHT)
In circling area and at AD	OTHER	231823.1N 0851955.5E	2077 FT	NO	APPROACH LIGHT
In circling area and at AD	POLE	231829.6N 0851941.8E	2108 FT	NO	LIGHT POST
In circling area and at AD	POLE	231827.2N 0851944.8E	2103 FT	NO	LIGHT POST
In circling area and at AD	POLE	231821.1N 0851952.4E	2096 FT	NO	LIGHT POST
In circling area and at AD	OTHER	231830.5N 0851942.4E	2094 FT	NO	BIRD CHASER HUT
In circling area and at AD	OTHER	231832.4N 0851948.5E	2093 FT	NO	BIRD CHASER HUT
In circling area and at AD	OTHER	231833.6N 0851949.1E	2090 FT	NO	WATER PUMP
In circling area and at AD	ANTENNA	231833.0N 0851949.2E	2121 FT	LGTD	MET ANTENNA
In circling area and at AD	ANTENNA	231833.4N 0851949.6E	2104 FT	NO	ANTENNA ON BUILDING
In circling area and at AD	OTHER	231928.0N 0851844.0E	2167 FT	NO	SECURITY HUT
In circling area and at AD	POLE	231920.3N 0851837.2E	2173 FT	NO	LIGHT POST
In circling area and at AD	TREE	231920.5N 0851835.7E	2215 FT	NO	GROUP OF TREES
In circling area and at AD	TREE	231918.6N 0851838.1E	2209 FT	NO	GROUP OF TREE
In circling area and at AD	TREE	231914.8N 0851842.6E	2210 FT	NO	GROUP OF TREE
In circling area and at AD	TREE	231925.0N 0851829.5E	2235 FT	NO	GROUP OF TREES
In circling area and at AD	TREE	231922.5N 0851832.7E	2209 FT	NO	GROUP OF TREES
In circling area and at AD	TREE	231920.7N 0851835.2E	2217 FT	NO	GROUP OF TREE
In circling area and at AD	TREE	231923.5N 0851832.2E	2209 FT	NO	GROUP OF TREE

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	POLE	231910.6N 0851849.4E	2158 FT	NO	LIGHT POST
In circling area and at AD	POLE	231914.8N 0851843.9E	2165 FT	NO	LIGHT POST
In circling area and at AD	POLE	231918.8N 0851839.0E	2170 FT	NO	LIGHT POST
In circling area and at AD	POLE	231928.3N 0851845.0E	2172 FT	NO	LIGHT POST
In circling area and at AD	POLE	231927.9N 0851843.7E	2173 FT	NO	LIGHT POST
In circling area and at AD	POLE	231928.7N 0851842.7E	2174 FT	NO	LIGHT POST
In circling area and at AD	BUILDING	231924.5N 0851829.4E	2194 FT	NO	TEMPLE
In circling area and at AD	OTHER	231932.8N 0851839.5E	2179 FT	NO	SINTEX TANK ON BUILDING(BLDG. TOP=662.6 M.)
In circling area and at AD	BUILDING	231920.2N 0851831.9E	2216 FT	NO	BUILDING
In circling area and at AD	BUILDING	231918.6N 0851832.8E	2230 FT	NO	BUILDING
In circling area and at AD	BUILDING	231934.6N 0851838.7E	2188 FT	NO	BUILDING
In circling area and at AD	OTHER	231922.4N 0851828.8E	2210 FT	NO	SINTEX TANK ON BUILDING(BLDG. TOP=672.1 M.)
In circling area and at AD	OTHER	231923.3N 0851826.4E	2218 FT	NO	HOARDING
In circling area and at AD	POLE	231926.0N 0851828.1E	2204 FT	NO	ELECTRIC POLE
In circling area and at AD	POLE	231925.4N 0851826.9E	2204 FT	NO	ELECTRIC POLE
In circling area and at AD	OTHER	231934.0N 0851838.9E	2183 FT	NO	SINTEX TANK ON BUILDING (BUILDING TOP-664.3M)
In circling area and at AD	BUILDING	231933.0N 0851839.2E	2175 FT	NO	BUILDING
In circling area and at AD	OTHER	232008.7N 0851807.0E	2289 FT	LGTD	CELLPHONE MAST
In circling area and at AD	BUILDING	231927.0N 0851825.7E	2194 FT	NO	HOUSE
In circling area and at AD	BUILDING	231911.7N 0851841.6E	2204 FT	NO	HOTEL BIRSA
In circling area and at AD	BUILDING	231913.8N 0851838.8E	2223 FT	NO	BUILDING
In circling area and at AD	OTHER	231925.2N 0851828.0E	2217 FT	LGTD	FLOOD LIGHT MAST ON ROAD DIVIDER
In circling area and at AD	TREE	231912.3N 0851845.2E	2205 FT	NO	GROUP OF TREE
In circling area and at AD	OTHER	231923.1N 0851826.8E	2218 FT	NO	SINTEX TANK ON BUILDING(BLDG. TOP=674.1 M.)

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	OTHER	231926.0N 0851827.5E	2205 FT	NO	HOARDING
In circling area and at AD	OTHER	231926.5N 0851825.2E	2220 FT	LGTD	CELL PHONE MAST
In circling area and at AD	OTHER	231927.6N 0851825.1E	2215 FT	NO	FLAG ON BUILDING(BLDG. TOP=668.2 M.)
In circling area and at AD	OTHER	231928.4N 0851823.5E	2200 FT	NO	SINTEX TANK ON BUILDING(BLDG. TOP=669.6 M.)
In circling area and at AD	OTHER	231953.7N 0851657.7E	2317 FT	LGTD	O.H.W.T.
In circling area and at AD	OTHER	232015.8N 0851634.2E	2331 FT	LGTD	CELLPHONE MAST
In circling area and at AD	BUILDING	232101.1N 0851724.8E	2323 FT	NO	BUILDING(U/C)
In circling area and at AD	BUILDING	232104.5N 0851804.6E	2300 FT	NO	BUILDING
In circling area and at AD	BUILDING	232105.0N 0851715.4E	2312 FT	NO	BUILDING
In circling area and at AD	BUILDING	232106.2N 0851758.2E	2298 FT	NO	BUILDING(U/C)
In circling area and at AD	OTHER	232037.3N 0851617.8E	2414 FT	LGTD	CELLPHONE MAST AT PUNDAG
In circling area and at AD	TREE	231811.9N 0851959.2E	2138 FT	NO	GROUP OF TREE
In circling area and at AD	TREE	231824.8N 0852004.0E	2125 FT	NO	GROUP OF TREES
In circling area and at AD	TREE	231805.4N 0852004.9E	2138 FT	NO	GROUP OF TREES
In circling area and at AD	TREE	231816.0N 0851955.8E	2110 FT	NO	GROUP OF TREES
In circling area and at AD	TREE	231824.4N 0852005.2E	2117 FT	NO	GROUP OF TREES
In circling area and at AD	TREE	231816.7N 0851954.2E	2101 FT	NO	GROUP OF TREE
In circling area and at AD	TREE	231824.4N 0852004.0E	2108 FT	NO	GROUP OF TREES
In circling area and at AD	TREE	231823.2N 0852005.7E	2115 FT	NO	GROUP OF TREES
In circling area and at AD	TREE	231810.2N 0852000.4E	2120 FT	NO	GROUP OF TREE
In circling area and at AD	TREE	231806.3N 0852002.9E	2134 FT	NO	GROUP OF TREE
In circling area and at AD	OTHER	231838.8N 0851929.5E	2129 FT	NO	SECURITY HUT
In circling area and at AD	FENCE	231838.0N 0851930.2E	2121 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP (WALL TOP-645.3M)

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	FENCE	231834.3N 0851935.1E	2117 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP(WALL TOP-644.4M)
In circling area and at AD	FENCE	231831.8N 0851938.6E	2113 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP (WALL TOP-643.1M)
In circling area and at AD	OTHER	231853.5N 0851924.0E	2142 FT	LGTD	WDI
In circling area and at AD	OTHER	231907.7N 0851856.6E	2142 FT	NO	BIRD CHASER HUT
In circling area and at AD	OTHER	231908.9N 0851903.1E	2139 FT	NO	BIRD CHASER HUT
In circling area and at AD	OTHER	231904.7N 0851908.9E	2136 FT	NO	BIRD CHASER HUT
In circling area and at AD	OTHER	231843.2N 0851925.9E	2118 FT	NO	BIRD CHASER HUT
In circling area and at AD	SIGN	231848.0N 0851927.2E	2118 FT	NO	SIGN BOARD
In circling area and at AD	OTHER	231844.3N 0851934.9E	2112 FT	NO	BIRD CHASER HUT
In circling area and at AD	OTHER	231833.8N 0851938.0E	2102 FT	NO	BIRD CHASER HUT
In circling area and at AD	BUILDING	231901.6N 0851853.7E	2228 FT	NO	BUILDING
In circling area and at AD	TREE	231902.9N 0851855.4E	2207 FT	NO	GROUP OF TREE
In circling area and at AD	TREE	231901.7N 0851856.9E	2203 FT	NO	GROUP OF TREES
In circling area and at AD	TREE	231900.6N 0851900.4E	2188 FT	NO	GROUP OF TREES
In circling area and at AD	TREE	231857.2N 0851904.6E	2194 FT	NO	GROUP OF TREES
In circling area and at AD	TREE	231853.6N 0851909.1E	2178 FT	NO	GROUP OF TREES
In circling area and at AD	OTHER	231850.3N 0851913.9E	2136 FT	NO	SECURITY HUT
In circling area and at AD	OTHER	231905.7N 0851855.0E	2147 FT	NO	SECURITY HUT
In circling area and at AD	TREE	231849.7N 0851913.8E	2179 FT	NO	GROUP OF TREES
In circling area and at AD	TREE	231850.8N 0851910.5E	2182 FT	NO	GROUP OF TREE
In circling area and at AD	POLE	231850.2N 0851914.4E	2142 FT	NO	LIGHT POST
In circling area and at AD	POLE	231853.0N 0851910.8E	2148 FT	NO	LIGHT POST
In circling area and at AD	POLE	231900.5N 0851919.7E	2183 FT	NO	LIGHTNING ARRESTER POLE

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	POLE	231900.5N 0851919.4E	2189 FT	NO	LIGHTNING ARRESTER POLE
In circling area and at AD	OTHER	231900.9N 0851918.4E	2184 FT	LGTD	SELF RADIATING MAST
In circling area and at AD	OTHER	231900.9N 0851919.5E	2154 FT	LGTD	NDB HUT
In circling area and at AD	OTHER	231831.1N 0851936.4E	2124 FT	NO	DVOR MAIN ANTENNA
In circling area and at AD	OTHER	231831.0N 0851936.8E	2131 FT	LGTD	DVOR DME ANTENNA
In circling area and at AD	POLE	231830.4N 0851935.1E	2158 FT	NO	LIGHTNING ARRESTOR POLE
In circling area and at AD	TREE	231848.2N 0851915.4E	2170 FT	NO	GROUP OF TREE
In circling area and at AD	POLE	231849.2N 0851915.5E	2137 FT	NO	LIGHT POST
In circling area and at AD	POLE	231830.8N 0851937.1E	2139 FT	NO	LIGHTENING ARRESTOR POLE
In circling area and at AD	OTHER	231901.1N 0851853.9E	2230 FT	NO	SINTEX TANK ON BUILDING
In circling area and at AD	POLE	231900.0N 0851920.7E	2155 FT	NO	POLE
In circling area and at AD	POLE	231830.4N 0851936.2E	2139 FT	NO	LIGHTNING ARRESTER POLE
In circling area and at AD	STACK	231730.2N 0851754.1E	2338 FT	LGTD	CHIMNEY
In circling area and at AD	BUILDING	231900.6N 0851653.7E	2443 FT	NO	TEMPLE
In circling area and at AD	STACK	231730.2N 0851756.4E	2338 FT	LGTD	CHIMNEY
In circling area and at AD	OTHER	231839.3N 0851633.0E	2441 FT	LGTD	FLOOD LIGHT MAST
In circling area and at AD	OTHER	231836.5N 0851634.3E	2440 FT	LGTD	FLOOD LIGHT MAST
In circling area and at AD	OTHER	231833.6N 0851633.1E	2438 FT	LGTD	FLOOD LIGHT MAST
In circling area and at AD	STACK	231718.2N 0851741.5E	2397 FT	LGTD	CHIMNEY
In circling area and at AD	STACK	231727.7N 0851723.7E	2408 FT	LGTD	CHIMNEY
In circling area and at AD	POLE	232232.4N 0851838.8E	2650 FT	NO	FLAG POLE
In circling area and at AD	OTHER	231833.4N 0851626.1E	2443 FT	LGTD	FLOOD LIGHT MAST
In circling area and at AD	OTHER	231836.3N 0851624.9E	2445 FT	LGTD	FLOOD LIGHT MAST
In circling area and at AD	OTHER	231839.2N 0851626.0E	2441 FT	LGTD	FLOOD LIGHT MAST
In circling area and at AD	OTHER	232037.3N 0851617.8E	2414 FT	LGTD	CELLPHONE MAST
In circling area and at AD	BUILDING	231928.8N 0851615.2E	2360 FT	LGTD	VIDHAN SABHA

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	OTHER	232254.8N 0851850.3E	2702 FT	LGTD	TV TOWER

VERC AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Name of the associated meteorological office	Ranchi
2	Hours of service and, where applicable, the designation of the responsible meteorological office outside these hours	H24
3	Office responsible for preparation of TAFs and periods of validity and interval of issuance of the forecasts	Patna (03-12, 06-15, 09-18, 12-21) Kolkata (00-09) 9HR
4	Availability of the trend forecast for the aerodrome and interval of issuance	NIL
5	Information on how briefing and/or consultation is provided	NIL
6	Types of flight documentation supplied and language(s) used in flight documentation	Tabular form English
7	Charts and other information displayed or available for briefing or consultation	Nil
8	Supplementary equipment available for providing information on meteorological conditions, e.g. weather radar and receiver for satellite images;	Forward Scatter Meter (FSM) type available at RWY 13 TDZ, RWY 31 MID and RWY 31 TDZ for measurement of Visibility/RVR.
9	The air traffic services unit(s) provided with meteorological information	Ranchi ATC and ACS
10	Additional information, e.g. concerning any limitation of service.	NIL

VERC AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations	TRUE Bearings	Dimensions of RWY (M)	Strength of pavement (PCN) and associated data) and surface of runway and associated stopways	Geographical coordinates for threshold and runway end
1	2	3	4	5
13	131.30 DEG	2748 x 45 M	64/F/C/W/T Asphalt	THR: 231916.46N 0851849.75E RWY END: 231823.77N 0851954.72E
31	311.30 DEG	2748 x 45 M	64/F/C/W/T Asphalt	THR: 231823.77N 0851954.72E RWY END: 231922.73N 0851842.06E

THR elevation and highest elevation of TDZ of precision APP RWY	Slope of runway and associated stopway	Dimensions of stopway (M)	Dimensions of clearway (M)	Dimensions of strips (M)
6	7	8	9	10
THR: 2143.0FT TDZ: 2143.0FT	-0.79%	NIL	NIL	2868 x 150 M
THR: 2077.0FT TDZ: 2110.0FT	0.79%	NIL	NIL	2868 x 150 M

Dimensions of runway end safety areas	Location and description of arresting system (if any)	Existence of an obstacle-free zone	Remarks.
11	12	13	14
90M x 140M		---	Elevation in EGM 08
90M x 177M		---	Elevation in EGM 08

VERC AD 2.13 DECLARED DISTANCES

RWY Designator	Take-off run available TORA (M)	Take-off distance available TODA (M)	Accelerate distance available ASDA (M)	Landing distance available LDA (M)	Remarks (including runway entry or start point where alternative reduced declared distances have been declared)
1	2	3	4	5	6
13	2748	2748	2748	2456	THR Displaced by 292M
31	2748	2748	2748	2748	----

VERC AD 2.14 APPROACH AND RUNWAY LIGHTING

Runway Designator	Type, length and intensity of approach lighting system	Runway threshold lights, colour and wing bars	Type of visual slope indicator system	Length of runway touchdown zone lights
1	2	3	4	5
13	SALS 420 M LIH	Green	PAPI LEFT/3.00 DEG MEHT (59.73FT)	
31	CAT I 180 M LIH	Green	PAPI LEFT/3.00 DEG MEHT (47.37FT)	

Length, spacing, colour and intensity of runway centre line lights	Length, spacing, colour and intensity of runway edge lights	Colour of runway end lights and wing bars	Length and colour of stopway lights	Remarks
6	7	8	9	10
	2748 M 60 M White LIH	Red		Crossbar at 300 M
	2748 M 60 M White LIH	Red		Crossbar at 150 M

VERC AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Location, characteristics and hours of operation of aerodrome beacon/identification beacon (if any)	ABN	At Tower Building, FLG W&G EV2SEC As ATS HR
		IBN	
2	Location and lighting (if any) of anemometer/ landing direction indicator;	LDI	75m (Approx) from edge of Apron II
		Anemometer	Available,Unlighted
3	Taxiway edge and taxiway centre line lights;	Edge	Twy C and D.
		Centre Line	-----
4	Secondary power supply including switch-over time;	On-line UPS with a switchover time of zero seconds is connected to all AGLs.	
5	Remarks	DG Set shall be put into operation mode within 10 seconds from the time of main power failure.	

VERC AD 2.16 HELICOPTER LANDING AREA

1	Geographical coordinates of the geometric centre of touchdown and lift-off (TLOF) or of each threshold of final approach and take-off (FATO) area	Not Established
2	TLOF and/or FATO area elevation:	Not Established
3	TLOF and FATO area dimensions to the nearest metre or foot, surface type, bearing strength and marking;	Not Established
4	True bearings of FATO;	Not Established
5	Declared distances available	Not Established
6	Approach and FATO lighting;	Not Established
7	Remarks	Not Established

VERC AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	CTR: Circular area centered on 231851N 0851916E within a 25NM radius.
2	Vertical limits	FL 55
3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	Ranchi Tower / Ranchi Approach, English
5	Transition altitude	6000 FT
6	Hours of applicability	HO
7	Remarks	NIL

VERC AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available	Logon address, as appropriate	Hours of operation	Remarks
1	**2**	**3**	**4**	**5**	**6**	**7**
APP	Ranchi Approach	124.425 MHZ			HO	NIL
TWR	Ranchi Tower	118.050 MHZ			H24	Functions of SMC combined withTOWER
TWR	Ranchi Tower	124.300 MHZ			H24	Combined VHF backup frequency for TWR/APP/SMC
ATIS	Ranchi Information	126.850 MHZ			H24	NIL
ALRS	EMERGENCY	121.500 MHZ			H24	NIL

VERC AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aids, magnetic variation and type of supported operation for ILS/ MLS, basic GNSS, SBAS and GBAS, and for VOR/ILS/MLS station used for technical lineup of the aid	Identification	Frequency(ies), Channel number(s), Service provider, and reference path identifier(s) (RPI), as appropriate	Hours of operation, as appropriate;
1	2	3	4
LOC 31 CAT I	IRAN	110.500 MHz	As ATS
GP 31		329.600 MHz	As ATS
DME ILS 31	IRAN	CH42X	As ATS
DVOR/DME	RRC	116.900 MHz CH116X	As ATS
NDB	RC	285 kHz	As ATS

Geographical coordinates of the position of the transmitting antenna	Elevation of transmitting antenna of DME/ elevation of GBAS reference point	Service volume radius from the GBAS reference point	Remarks
5	6	7	8
231927.8N 0851835.8E			
231832.7N 0851950.3E			3 DEG
231832.8N 0851950.4E	2099 FT		Collocated with GP31
231830.4N 0851934.1E	2137 FT		1. Co-located with DVOR. 2. Vertical datum: EGM08
231900.9N 0851918.4E			

VERC AD 2.20 LOCAL AERODROME REGULATIONS

• No Aircraft shall take lock turn/ pivotal turn on the Runway to avoid pavement damage.

VERC AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VERC AD 2.22 FLIGHT PROCEDURES

NIL

VERC AD 2.23 ADDITIONAL INFORMATION

1.No aircraft shall taxi behind aircraft parked on stand no. 2 to stand no.1.

2.Passenger boarding bridge and advance visual docking guidance system available on parking stand number 2,3, 4, and 5.

3.Apron obstacles light &obstacle light provided at B.M. Airport Ranchi

Sl.no	Description	Latitude Longitude	Obstruction Height	Lighting
1	Apron Flood Light Tower-1	231901N 0851935E	16M	Provided
2	Apron Flood Light Tower-2	231857N 0851941E	16M	Provided
3	Apron Flood Light Tower-3	231859N 0851931.5E	15M	Provided
4	Apron Flood Light Tower-4	231854N 0851942E	15M	Provided
5	Apron Flood Light Tower-5	231900N 0851940E	16M	Provided
6	Apron Flood Light Tower-6	231859N 0851931.5E	16M	Provided
7	Apron Flood Light Tower-7	231900N 0851932.5E	15M	Provided
8	ATC Tower	NA	NA	Provided
9	Terminal Building	NA	NA	Provided
10	Overhead Tank	NA	NA	Provided
11	Old Dismantle Store	NA	NA	Provided
12	New Fire Station	NA	NA	Provided
13	Wind-Sock (WDI)	NA	NA	Provided

RWY **From TWY Intersection** **TORA (M)** **TODA (M)** **ASDA (M)** 4. Following

RWY	From TWY Intersection	TORA (M)	TODA (M)	ASDA (M)
RWY 31	TWY D	1733	1733	1733

5.Runway Turn Pad, capable of handling B777-300 ER type of aircraft, provided at both ends of RWY 13/31 for Special ops with prior permission. PCN for extended portion of Turn Pad RWY 13/31 : 64/F/C/W/T

6. Runway Turn Pad lights provided on both RWY 13/31 ends.

7. Runway Guard Lights Configuration A provided on TWY ‘B’, TWY ‘C’and TWY ‘D’.

VERC AD 2.24 CHARTS RELATED TO AN AERODROME

1. Aerodrome Chart (11 June 2026)
2. Aircraft Parking / Docking Chart(11 June 2026)
3. Aerodrome Obstacle Chart Type-A (Operating Limitations) RWY 13
4. Aerodrome Obstacle Chart Type-A (Operating Limitations) RWY 31(27 November 2025)
5. ILS or LOC Z Procedure RWY 31 (17 April 2025)
6. ILS or LOC Y Procedure RWY 31 (17 April 2025)
7. Instrument Approach Chart – VOR Procedure RWY 13 (17 April 2025)
8. Instrument Approach Chart – VOR Procedure RWY 31 (17 April 2025)

VERC AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Procedure	Procedure Minima	VSS Penetration
1	2	3

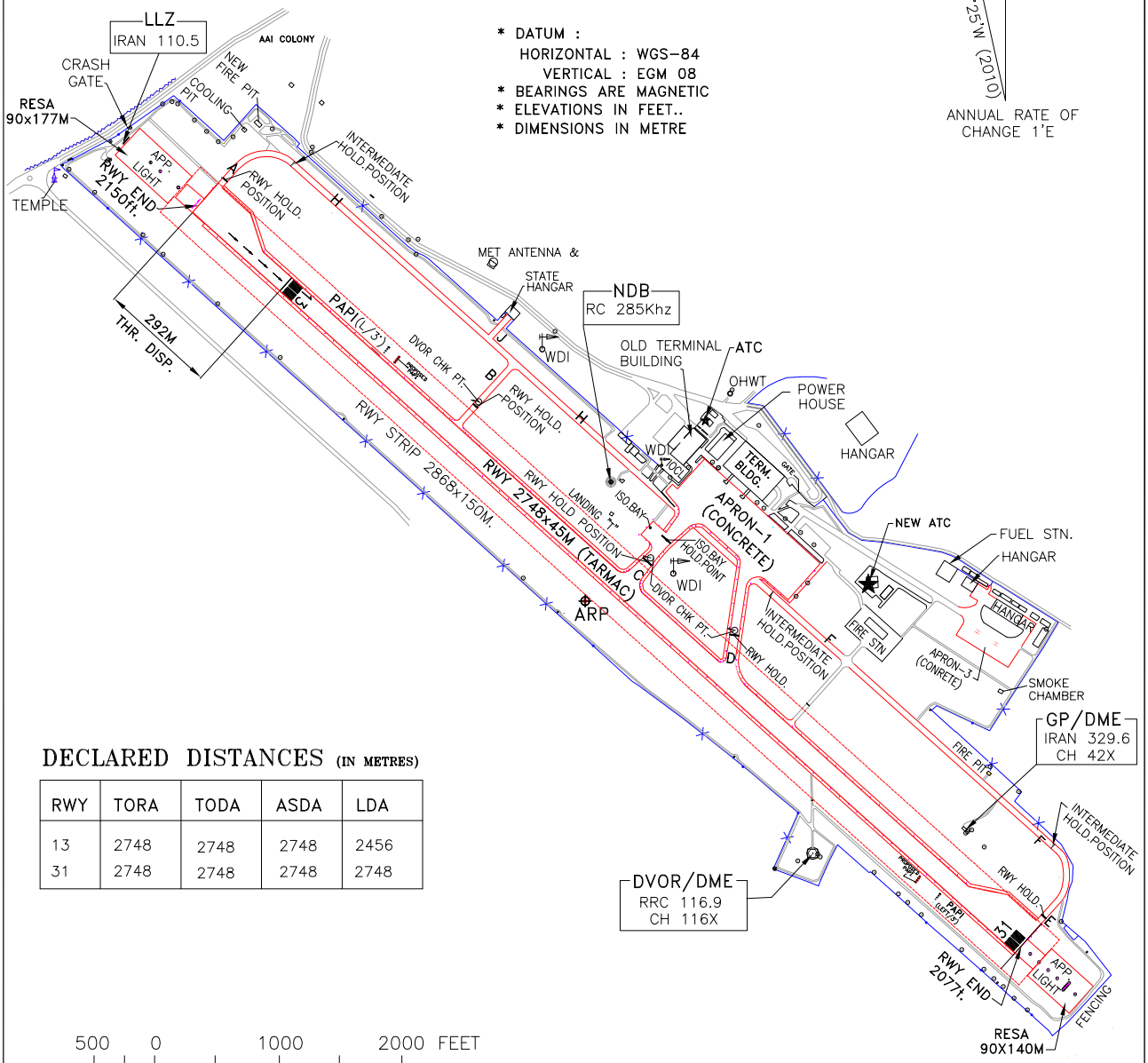
AERODROME CHART 23°18'51.20"N 085°19'16.25"E AD.ELEV. 2150ft.

TWR 118.05
BACKUP 124.3

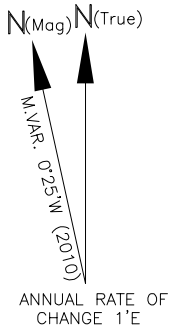
RANCHI, INDIA

BIRSA MUNDA AIRPORT

RWY	DIRECTION	THR CO-ORDINATES	THR ELEV.	BEARING STRENGTH
13	132°	23°19'16.46"N 085°18'49.75"E	2143ft.	64/F/C/W/T
31	312°	23°18'23.77"N 085°19'54.72"E	2077ft.	



* DATUM :
HORIZONTAL : WGS-84
VERTICAL : EGM 08
* BEARINGS ARE MAGNETIC
* ELEVATIONS IN FEET..
* DIMENSIONS IN METRE

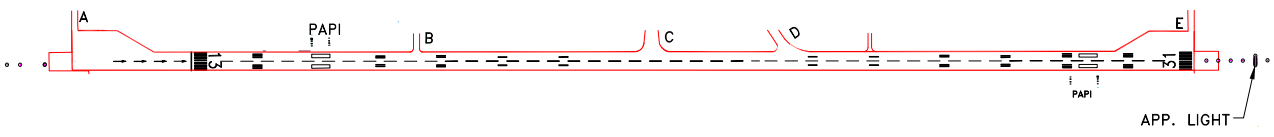


DECLARED DISTANCES (IN METRES)

RWY	TORA	TODA	ASDA	LDA
13	2748	2748	2748	2456
31	2748	2748	2748	2748

500 0 1000 2000 FEET
100 0 200 400 600 METRE

MARKING AIDS RUNWAY 13/31



NOTE: AERONAUTICAL GROUND LIGHTS ARE NOT SHOWN IN THIS CHART

DATE OF AERONAUTICAL INFORMATION
JULY 2022

DRG. No.-AAI/38-AC/2022
(UPDATED AS ON 03.03.2026)

AIRCRAFT PARKING/
DOCKING CHART

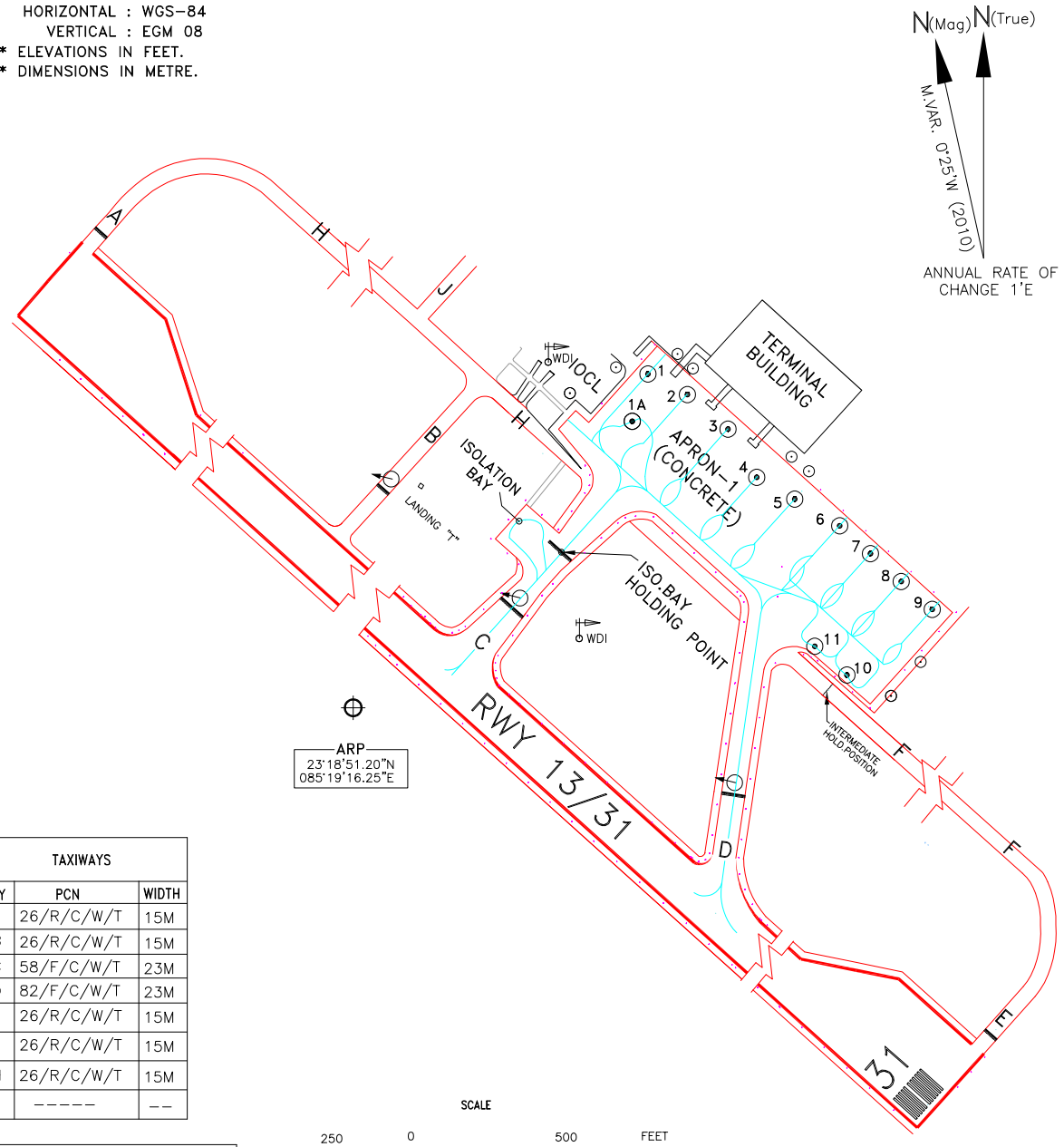
APRON ELEV. 2125ft.

TWR	118.05
BACKUP	124.30

RANCHI, INDIA

BIRSA MUNDA AIRPORT

* DATUM :
HORIZONTAL : WGS-84
VERTICAL : EGM 08
* ELEVATIONS IN FEET.
* DIMENSIONS IN METRE.



TAXIWAYS		
TWY	PCN	WIDTH
A	26/R/C/W/T	15M
B	26/R/C/W/T	15M
C	58/F/C/W/T	23M
D	82/F/C/W/T	23M
E	26/R/C/W/T	15M
F	26/R/C/W/T	15M
H	26/R/C/W/T	15M
J	-----	--

LEGEND	
AIRCRAFT STAND	11
TAXI-HOLDING POSITION	
DVOR CHECK POINT	

BAY No.	WGS CO-ORDINATES FOR AIRCRAFT STANDS	PCN	SUIATABLITY	STATUS OF AIRCRAFT STAND	ELEV.
1.	23°19'01.80691"N 085°19'26.34251"E	75/R/C/W/T	ATR72-600/Q400-3C	POWER IN AND PUSH BACK	2125ft.
1A	23°19'00.37129"N 085°19'25.69793"E	75/R/C/W/T	UPTO A321/B739	POWER IN AND POWER OUT	2124ft.
2.	23°19'01.24717"N 085°19'27.58809"E	75/R/C/W/T	UPTO A321/B737-900	POWER IN AND PUSH BACK	2124ft.
3.	23°19'00.16458"N 085°19'28.99478"E	75/R/C/W/T	UPTO A321/B737-900	POWER IN AND PUSH BACK	2122ft.
4.	23°18'58.65101"N 085°19'30.00254"E	75/R/C/W/T	UPTO A321/B737-900	POWER IN AND PUSH BACK	2120ft.
5.	23°18'57.97612"N 085°19'31.31349"E	75/R/C/W/T	UPTO A321/B737-900	POWER IN AND PUSH BACK	2119ft.
6.	23°18'57.14570"N 085°19'32.86067"E	68/R/B/W/T	UPTO A321/B737-900	POWER IN AND PUSH BACK	2118ft.
7.	23°18'56.27628"N 085°19'33.93242"E	68/R/B/W/T	UPTO A321/B737-900	POWER IN AND PUSH BACK	2116ft.
8.	23°18'55.40442"N 085°19'35.00173"E	68/R/B/W/T	UPTO A321/B737-900	POWER IN AND PUSH BACK	2115ft.
9.	23°18'54.53329"N 085°19'36.07243"E	68/R/B/W/T	ATR72-600/Q400-3C	POWER IN AND PUSH BACK	2114ft.
10.	23°18'52.41709"N 085°19'33.17537"E	68/R/B/W/T	KING AIR 200-2B	POWER IN AND POWER OUT	2113ft.
11	23°18'53.31736"N 085°19'32.06075"E	68/R/B/W/T	KING AIR 200-2B	POWER IN AND POWER OUT	2114ft.
ISOLATION BAY	23°18'57.16925"N 085°19'21.86885"E	58/F/C/W/T	--	POWER IN AND POWER OUT	2125ft.

DATE OF AERONAUTICAL INFORMATION
JULY 2022

DRG No.-AAI/39-PDC/2022

(UPDATED AS ON 05.03.2026)

Dimensions of runway end safety areas	Location and description of arresting system (if any)	Existence of an obstacle-free zone	Remarks.
11	12	13	14
90M x 60M	NA		i. Geoid Model: EGM-08 ii. PCN RWY 25: 0 - 54M: 19/F/C/W/T 55 - 1454M: 32/F/C/W/T 1455 - 1800M: 19/F/C/W/T

VERW AD 2.13 DECLARED DISTANCES

RWY Designator	Take-off run available TORA (M)	Take-off distance available TODA (M)	Accelerate distance available ASDA (M)	Landing distance available LDA (M)	Remarks (including runway entry or start point where alternative reduced declared distances have been declared)
1	2	3	4	5	6
07	1800	1800	1800	1800	NIL
25	1800	1800	1800	1800	NIL

VERW AD 2.14 APPROACH AND RUNWAY LIGHTING

Runway Designator	Type, length and intensity of approach lighting system	Runway threshold lights, colour and wing bars	Type of visual slope indicator system	Length of runway touchdown zone lights
1	2	3	4	5
07	SALS 210 M LIH	Green	PAPI LEFT/2.98 DEG	
25	SALS 210 M LIH	Green	PAPI LEFT/3.01 DEG	

Length, spacing, colour and intensity of runway centre line lights	Length, spacing, colour and intensity of runway edge lights	Colour of runway end lights and wing bars	Length and colour of stopway lights	Remarks
6	7	8	9	10
	1800 M 60 M White LIH	Red		NIL
	1800 M 60 M White LIH	Red		NIL

VERW AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Location, characteristics and hours of operation of aerodrome beacon/identification beacon (if any)	ABN	At ATC Tower, FLG W&G EV 2SEC AVBL.
		IBN	NIL

2	Location and lighting (if any) of anemometer/ landing direction indicator;	LDI	Available North of ATC
		Anemometer	Available. North of ATC, Lighted.
3	Taxiway edge and taxiway centre line lights;	Edge	Available
		Centre Line	NA
4	Secondary power supply including switch-over time;	Sub-station I: 2 DG Set 500 KVA each. One working and one standby. Switch over time is less than 15 Seconds.	
5	Remarks	NIL	

VERW AD 2.16 HELICOPTER LANDING AREA

1	Geographical coordinates of the geometric centre of touchdown and lift-off (TLOF) or of each threshold of final approach and take-off (FATO) area	Not Established
2	TLOF and/or FATO area elevation:	Not Established
3	TLOF and FATO area dimensions to the nearest metre or foot, surface type, bearing strength and marking;	Not Established
4	True bearings of FATO;	Not Established
5	Declared distances available	Not Established
6	Approach and FATO lighting;	Not Established
7	Remarks	NIL

VERW AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	CTR: Circular area centered on 243013N 0811323E within a 10NM radius.
2	Vertical limits	FL 65
3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	Rewa Tower, English
5	Transition altitude	4000 FT
6	Hours of applicability	HO
7	Remarks	NIL

VERW AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	**2**	**3**	**4**
APP	Rewa Approach	119.775 MHZ	
APP	Rewa Approach	120.800 MHZ	
TWR	Rewa Tower	119.775 MHZ	
TWR	Rewa Tower	120.800 MHZ	
ALRS	EMERGENCY	121.500 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	**6**	**7**

Type of aids, magnetic variation and type of supported operation for ILS/ MLS, basic GNSS, SBAS and GBAS, and for VOR/ILS/MLS station used for technical lineup of the aid	Identification	Frequency(ies), Channel number(s), Service provider, and reference path identifier(s) (RPI), as appropriate	Hours of operation, as appropriate;
DVOR/DME	DIG	114.600 MHz CH93X	H24

Geographical coordinates of the position of the transmitting antenna	Elevation of transmitting antenna of DME/ elevation of GBAS reference point	Service volume radius from the GBAS reference point	Remarks
5	6	7	8
283328.0N 0770733.2E			CAT-I
283213.4N 0770645.4E			
283252.4N 0770343.7E			i. Localiser restricted to 26 DEG on 150 Hz side due off-course clearance below limits. ii.Off-course clearance on 90 Hz side is within limit.
283405.4N 0770450.8E			LOC Coverage restricted up to 22NM within plus minus 10 DEG sector and 17NM within plus minus 35 DEG at and above 2000 FT height above Threshold (HAT).
283414.5N 0770456.2E			
283411.5N 0770706.3E			
283224.3N 0770654.2E			
283302.9N 0770354.0E			
283408.5N 0770642.1E			
283403.2N 0770517.9E			3 DEG
283226.0N 0770527.9E			3 DEG
283238.5N 0770429.4E			3 DEG
283337.8N 0770708.5E			Glide Angle: 3 DEG
283417.7N 0770528.8E			
283249.0N 0770440.2E			
283231.6N 0770600.9E			GLIDE ANGLE 3 DEG
283403.4N 0770518.0E	746 FT		
283337.9N 0770708.5E	791 FT		
283408.5N 0770642.1E	760 FT		Collocated with GP27
283417.9N 0770528.9E	738 FT		Collocated with GP09
283238.4N 0770429.5E	742 FT		Collocated with GP11R

283226.1N 0770527.8E	760 FT		Collocated with GP29L
283248.9N 0770440.1E	748 FT		1. COLOCATED WITH GP. 2. GRAVITY MODEL: EGM-08.
283231.5N 0770600.9E	756 FT		colocated with GP 29R
283400.9N 0770536.7E	760 FT		
283231.9N 0770449.7E	760 FT		

VIDP AD 2.20 LOCAL AERODROME REGULATIONS

1. AIRPORT REGULATIONS

Note: The procedures mentioned in this para are applicable for all Aprons (Except GA Apron) subject to conditions/ restrictions given in subsequent para 2 of AD 2.20 TAXING PROCEDURES FOR DIFFERENT APRONS.

1.1 To reduce RT congestion, flight crew is encouraged not to request direct routings in Delhi TMA ATC will provide direct routings as and when feasible subject to traffic conditions

1.2 Startup of engines at idle power is permitted during pushback and on stands. However, startup of engines at idle power at aerobridge stands is permitted only after removal of aerobridge. Airlines/GHAs are responsible to adhere to all ground precautions e.g. Wing Walkers/Traffic Marshallers, Ground Equipment, Vehicular Traffic on tail of the stand road etc. against jet blast/ingestion to ensure safety. Indian registered Aircraft should not seek any permission from ATC, ASO & AOCC to carry startup of engine/idle power engine run up on stand. However, ATC may be informed through RT in case of any emergency situation. During idle power engine run up, AME will take all ground precautions including switching on aircraft anti-collision lights, positioning of wing walkers and RT trained engineer to be available in in cockpit. In case of foreign registered aircraft, if pilot conducts idle power engine start/ run up, he will seek permission from ATC.

1.3 In case of APU failure, the aircraft may be permitted to start one or both starboard side engines at idle power on the stand with the aerobridge attached. Further, in case of APU failure, a cross-bleed start is permitted only after completion of pushback, pull forward (if applicable) and disconnection of Tug. No cross bleed is permitted at stand or during push back. Pilots to inform ATC and take all ground precautions against jet blast before starting cross-bleed. Airlines/GHAs are responsible to adhere to all ground precautions to ensure safety.

1.4 In all Aprons except Apron 32 and 34, pushback of aircraft to be separated by one stand, however in Apron 32, Apron 34, Apron II (bays 201-215, 220-231) and Cargo Apron which still have the concept of TDP/ Block system pushback to be given as per defined blocks

1.5 For datalink, capable aircraft while operating in DELHI FIR the AFN logon address for Delhi FIR is VIDF.

1.6 Left turn towards stand 800 from TWY D4 not available while aircraft taxing on TWY D4 facing north. Similarly Right turn on TWY D4 from stand 800 not available while aircraft taxiing from stand 800 facing east.

1.7 The AFN logon address for Departure Clearance (DCL) connection for IGI Airport,New Delhi is VIDP.

1.8 TWY D1 is available for taxiing up to Code Letter C aircraft with OMGWS up to but not including 9.6m.

1.9 The usage of Taxiway T4 & T5 and S5 will be regulated during operations of GP 11L and GP 29R, respectively.

1.10 During Segregated Dependent Easterly Mode of operations, RWY 11R for Arrival and RWY 11L for Departure, for the application of Wake Turbulence Separation Minima with respect to heavier arrival on RWY 11R, RWY 11L intend departure from:

a. TWY R5 requiring a Take-Off Run less than 600m or

b. TWY R6 or R7 requiring a Take-Off Run less than 900m,

shall notify ATC at or before the issuance of taxi clearance.

1.11 During Segregated Dependent Westerly Mode of operations, RWY 29L for Arrival and RWY 29R for Departure:

a. TWY P2 will be preferred entry point for departure from RWY 29R with Wake Turbulence Category Light, ATC may use TWY P2 as preferred entry point for other departure also as per the aircraft type and it's characteristics.

TWY P4 or TWY P5 will be the preferred entry point for departure from RWY 29R with Wake Turbulence Category Medium or Heavy, such departure requiring line up RWY 29R from any other entry point shall notify ATC at or before the issuance of taxi clearance.

b) For the application of Wake Turbulence Separation Minima with respect to heavier arrival on RWY 29L, RWY 29R intend departure from:

i) TWY P2 requiring Take-Off Run less than 600m OR

ii) TWY P4 or TWY P5 requiring Take-Off Run less than 1400m OR

iii) TWY P6 or TWY P7 or TWY P8 requiring Take-Off Run less than 2000m shall notify ATC at or before issuance of taxi clearance

1.12Departure from RWY 11R will not be permitted when RWY 11L available. Pilots to plan aircraft performance considering maximum TORA for RWY 11L 3670M.

1.13 When instructed by ATC to hold short of a TWY/TWY intersection on a TWY not provided with intermediate holding position marking/lights, Pilot must stop ACFT at a point which provides adequate clearance from all ACFT types on intersecting TWY

1.14 Arrival on RWY 29R not permitted when RWY 29L available except for ACFT in a state of emergency. Pilots to plan ACFT performance considering maximum LDA 2970M for RWY 29L.

1.15 Aircraft exercise caution while taxiing on parallel taxi lanes against another aircraft pushing back on the adjacent taxilane.

1.16 All code D/E aircraft intending to hold on taxiway D2 will hold on taxiway D facing east at intermediate holding position (IHP) short of taxiway D2.

1.17 Right turn from TWY N7 on TWY N6 not available.

1.18 Left turn from TWY N6 on TWY N7 not available.

1.19 Engine power more than idle thrust is not permitted during pushback and taxiing in the Apron.

2. TAXING PROCEDURES FOR DIFFERENT APRONS

2.1-A PROCEDURES FOR APRON I

Apron I (STAND 101 - 178)	
Aircraft Stands	**Arrival Procedure**
170-178	The aircraft shall taxi in via taxilane F6 to respective stand.
150-159	The aircraft shall taxi in via taxilane F3 to respective stand.
160R-165	The aircraft shall taxi in via taxilane F5 to respective stand.
140-149B	The aircraft shall taxi in via taxilane E9 to respective stand.
123-132	The aircraft shall taxi in via taxilane E3 to respective stand.
Contact Stands of odd No. (101-121)	The aircraft shall taxi in via taxilane E2 to respective stand.
Contact Stands of even No. (102-122)	The aircraft shall taxi in via taxilane E4 to respective stand.
133L-137	The aircraft shall taxi in via taxilane E6 to respective stand.
Aircraft Stands	**Departure Procedure**
160R-165	The aircraft shall pushback onto taxilane 'F5' facing North or South and to be towed abeam respective stand and follow further instructions from ATC.
170-178	The aircraft shall pushback onto taxilane 'F6' facing North or South and to be towed abeam respective stand and follow further instructions from ATC.
150-159	The aircraft shall pushback onto taxilane 'F3' facing North or South and to be towed abeam respective stand and follow further instructions from ATC.

140-149B	The aircraft shall pushback onto taxilane 'E9' facingNorth or South and to be towed abeam respective stand and follow further instructions from ATC.
133L-137	The aircraft shall pushback onto taxilane E6 facing East or West and to be towed abeam respective stand and follow further instructions from ATC.
123-125	The aircraft shall pushback onto taxilane E3 facing north or south and to be towed abeam respective stand and follow further instructions from ATC.
126-132	The aircraft shall pushback onto taxilane E3 facing east or west and to be towed abeam respective stand and follow further instructions from ATC.
Contact Stands 101 and 103	The aircraft shall pushback onto taxilane 'E2' facing east or west and to be pushed back/towed abeam stand 105 and follow further instructions from ATC.
Contact Stands of odd No. (105-121)	The aircraft shall pushback onto taxilane 'E2' facing east or west and to be pushed back/towed abeam respective stand and follow further instructions from ATC.
Contact Stands 102 and 104	The aircraft shall pushback onto taxilane 'E4' facing east or west and to be pushed back/towed abeam stand 106 and follow further instructions from ATC
Contact Stands of even No. (106-122)	The aircraft shall pushback onto taxilane 'E4' facing east or west and to be pushed back/towed abeam respective stand and follow further instructions from ATC.

2	803	283310.74N 0770405.14E	Asphalt	862/F/A/W/T	Up to Code Letter F	West of TWY R7 (between TWY Q and TWY R), facing east
3	High Power Engine Run-up Bay	283405.94773N 0770708.87937E	Asphalt	708/F/B/W/T	Up to Code Letter C	East of TWY D1, Short of TXL E2, Facing south
			Concrete	611/R/B/W/T		

Note:

i. Aircraft from stand 800 shall Push Back on TWY D4 facing North or South.

ii. During RWY 09/27 in use for Arrival and Departure High Power Engine Run restricted on stand 800.

iii. Towing of Aircraft To/From stand 800 will be carried out under Follow Me supervision.

iv. TWY R7 not avbl for ops while aircraft is being repositioned at stand 803 for high power run-up.

VIDP AD 2.21 NOISE ABATEMENT PROCEDURES

I.CONTINUOUS DESCENT ARRIVAL (CDA) PROCEDURES

1.In order to mitigate the aircraft noise within the areas located below the flight path in the vicinity of IGI airport, the concept of continuous descent approach (CDA) is implemented. All the turbojet aircraft landing at IGI Airport between 1630 UTC and 0030 UTC may participate in CDA subject to clearance from ATC.

2.CDA will be operated when radar and ILS facilities are available.

3.Operation of CDA should not impact the airport capacity adversely.

4.Aircraft shall normally be cleared via a STAR. Since, the STARs for IGI Airport are open ended, aircraft may expect radar vectors for turn on base leg and final approach. Profile/crossing restrictions are well depicted in the STARs. Aircraft shall be provided information regarding the distance to touchdown from the beginning of CDA and subsequently any revision thereafter.

5.For track shortening or lengthening for sequencing purposes, the aircraft may be radar vectored off the STAR and subsequently, be re-cleared to a point along the STAR or vectored to intercept the final approach track.

6.When radar vectors are issued, ATC shall provide an estimate of distance to touch down.

7.Pilots participating in CDA should request CDA within 10 minutes of top of descent (TOD) and provide the estimates of VOR (SSB), SAPLO, AKBAN and VOR (SAMPLA) as the case may be. ATC may issue clearance for CDA depending upon the traffic conditions.

8.When following STARs, ATC may add further altitude restrictions, in addition to the promulgated restrictions, if necessary for the purpose of traffic separation.

9.Radar controller will ensure that in case of STARs merging, adequate radar separation exists between the successive aircraft at the conflict point.

10.It is preferable if CDA is commenced from top of descent. If it is not feasible due to ATC constraints, it may be commenced from any intermediate level preferably before crossing FL100. Once CDA is commenced there will be continuous descent to 3600 feet AMSL before intercepting the glide path.

11.Once CDA is cleared by ATC, pilot should report the beginning of the descent to ATC.

12.Radar controller shall provide 20 NM distance to touch down (DTD) information when the speed shall be reduced to 210KT IAS maximum

13.Speed shall be reduced to 180 KT IAS maximum when 10NM from touchdown.

14.During CDA operations Glide path interception and commencement of final approach shall take place at 3600 feet.

15.ATC may suspend or cancel the CDA due to traffic conditions even after CDA is cleared. Alternate instructions will be issued when CDA is suspended or cancelled.

16.All aircraft have to follow the noise abatement procedure during the final approach.

17.Guidance material for CDA operations is available at DGCA website (dgca.nic.in) as Air Navigation Services (ANS) Circular NO.01/2010.

II.RUNWAY USE PLAN FOR NOISE ABATEMENT

1.The Runway use plan for noise abatement is as follows.

1.1	**Schedule for dates 1st ,8th ,17th and 23rd of each month.**			
Time Slot (IST)	**RWY For Westerly flow of traffic**		**RWY For Easterly flow of traffic**	
	Arrivals	**Departures**	**Arrivals**	**Departures**
0000-0100	RWY 27/28	RWY 27/28 and RWY 29L/29R	RWY 09/10 and RWY 11R/11L	RWY 09/10 and RWY 11R/11L
0101-0600	RWY 29L/29R	RWY 27/28 and RWY 29L/29R	RWY 09/10 and RWY 11R/11L	RWY 09/10 and RWY 11R/11L
0601– 2359	RWY 27/28 and RWY 29L/29R	RWY 27/28 and RWY 29L/29R	RWY 09/10 and RWY 11R/11L	RWY 09/10 and RWY 11R/11L
1.2	**Schedule for dates 9th, 16th , 24th and 30th of each month**			
Time Slot (IST)	**RWY For Westerly flow of traffic**		**RWY For Easterly flow of traffic**	
	Arrivals	**Departures**	**Arrivals**	**Departures**
0000-0100	RWY 29L/29R	RWY 27/28 and RWY 29L/29R	RWY 09/10 and RWY 11R/11L	RWY 09/10 and RWY 11R/11L
0101-0600	RWY 27/28	RWY 27/28 and RWY 29L/29R	RWY 09/10 and RWY 11R/11L	RWY 09/10 and RWY 11R/11L

125	Z5	25	190	Concrete	1175/R/A/W/T	•Suitable for up to Code Letter F Aircraft
126	Z6	25	218	Concrete	1175/R/A/W/T	•Suitable for up to Code Letter F Aircraft
127	Z7	25	269	Concrete	1175/R/A/W/T	•Suitable for up to Code Letter F Aircraft

III. OTHER DETAILS OF TWYS

i. Rapid exit TWY D6: available for RWY27, Angle of turn 30deg, Radius of turn off curve 550m, suitable for aircraft upto code letter E.

ii. Rapid exit TWY D5: available for RWY27, Angle of turn 30deg, Radius of turn off curve 550m, suitable for aircraft up to code letter E with OMGWS up to but not including 15m.

iii. Rapid exit TWY H1: available for RWY28, angle of turn 30deg, radius of turn off curve 550m, suitable for code letter A, B and C aircraft with OMGWS up to but not including 9.6m.

iv. TWY D: From TWY D9 up to abeam ARP is realigned parallel to RWY 09/27, at a distance of 172.5m south of RWY 09/27 centre line.

v. Extended portion of TWY D: From TWY D, abeam ARP, up to TWY D1 at a distance of 168m south of RWY 09/27 centre line.

vi. TWY G2: Connects RWY 10 to TWY G , suitable for code letter C, Angle of turn 30 deg, Radius of Turn off Curve 550m.

vii. Rapid exit TWY J2: Angle of turn 30deg, Radius of turn off curve 550M, suitable for code letter F aircraft.

viii. Rapid exit TWY J3: Angle of turn 30deg, Radius of turn off curve 550M, suitable for code letter F aircraft.

IV. **Exemption Granted by DGCA:**

DGCA India has granted exemption vide letter dated 10.11.2025 for non-compliant width of runway strip for RWY 09/27 against provisions in CAR Section 4, series B, part 1, para 3.4.3 for the period up to 31.12.2026.

V.Aeronautical Ground Light (AGL) team working on watch and ward basis in grassy area both side of RWY 10/28 (75M from Runway centreline). Pilots to exercise caution while Landing or Take-off from RWY 10/28.

VI. Aeronautical Ground Light (AGL) team working on watch and ward basis in grassy area both side of RWY 11L/29R (75M from Runway centreline). Pilots to exercise caution while Landing or Take-off from RWY 11L/29R.

VIDP AD 2.24 CHARTS RELATED TO AN AERODROME

1 Aerodrome Chart (14 May 2026)
2 Aerodrome Chart Hot Spot (14 May 2026)
3 Aircraft Parking/Docking Chart Apron II (19 March 2026)
4 Aircraft Parking/Docking Chart Apron 31(12 June 2025)
5 Aircraft Parking/Docking Chart Apron 32(12 June 2025)
6 Aircraft Parking/Docking Chart Apron 33(12 June 2025)
7 Aircraft Parking/Docking Chart Apron 34(12 June 2025)
8 Aircraft Parking/Docking Chart Apron 35(12 June 2025)
9 Aircraft Parking/Docking Chart Cargo Apron (12 June 2025)
10 Aircraft Parking/Docking Chart Stand 801(12 June 2025)
11 Aircraft Parking/Docking Chart Stand 802(12 June 2025)
12 Aircraft Parking/Docking Chart Apron I Stand 101-137 (12 June 2025)
13 Aircraft Parking/Docking Chart General Aviation Apron Stands: 901-911C & 912-920(12 June 2025)
14 Aircraft Parking/Docking Chart General Aviation Apron Stands: 921-928 & 929-937(12 June 2025)
15 Aircraft Parking/Docking Chart General Aviation Apron Stands: 938-947 & 951-956 (12 June 2025)
16 Aircraft Parking/Docking Chart Stand 803(12 June 2025)
17 Aircraft Parking/Docking Chart Apron I Stand 140-178(12 June 2025)
18 Aerodrome Obstacle Chart Type – A (Operating limitations) RWY 09 (02 October 2025)
19 Aerodrome Obstacle Chart Type – A (Operating limitations) RWY 10

20 Aerodrome Obstacle Chart Type – A (Operating limitations) RWY 11L (23 January 2025)
21 Aerodrome Obstacle Chart Type – A (Operating limitations) RWY 11R
22 Aerodrome Obstacle Chart Type – A (Operating limitations) RWY 27 (21 March 2024)
23 Aerodrome Obstacle Chart Type – A (Operating limitations) RWY 28 (21 March 2024)
24 Aerodrome Obstacle Chart Type – A (Operating limitations) RWY 29L
25 Aerodrome Obstacle Chart Type – A (Operating limitations) RWY 29R (23 January 2025)
26 Aerodrome Obstacle Chart Type – B (23 January 2025)
27 Take Off Run Available from Intersection RWY 09
28 Take Off Run Available from Intersection RWY 10 (08 August 2024)
29 Take Off Run Available from Intersection RWY 11L (23 January 2025)
30 Take Off Run Available from Intersection RWY 11R
31 Take Off Run Available from Intersection RWY 27
32 Take Off Run Available from Intersection RWY 28 (08 August 2024)
33 Take Off Run Available from Intersection RWY 29L
34 Take Off Run Available from Intersection RWY 29R (23 January 2025)
35 Location of Different Exit TWYs RWY 09
36 Location of Different Exit TWYs RWY 10 (08 August 2024)
37 Location of Different Exit TWYs RWY 11L (23 January 2025)
38 Location of Different Exit TWYs RWY 11R(14 May 2026)
39 Location of Different Exit TWYs RWY 27
40 Location of Different Exit TWYs RWY 28 (08 August 2024)
41 Location of Different Exit TWYs RWY 29L(14 May 2026)
42 Location of Different Exit TWYs RWY 29R (23 January 2025)
43 ILS CAT III Critical And Sensitive Areas- RWY 11R
44 ILS CAT III Critical And Sensitive Areas- RWY 28 (22 January 2026)
45 ILS CAT III Critical And Sensitive Areas- RWY 29L
46 ILS CAT III Critical And Sensitive Areas- RWY 11L (23 January 2025)
47 ILS CAT III Critical And Sensitive Areas- RWY 10 (22 January 2026)
48 ILS CAT III Critical And Sensitive Areas- RWY 29R (23 January 2025)
49 LVP Taxi Routing - Easterly Flow - RWY 11L & RWY10 (14 May 2026)
50 LVP Taxi Routing - Easterly Flow - RWY 11R, RWY 11L & RWY 09 (14 May 2026)
51 LVP Taxi Routing - Easterly Flow - RWY 11R, RWY 11L & RWY 10 (14 May 2026)
52 LVP Taxi Routing - Easterly Flow - RWY 11R & RWY10 (14 May 2026)
53 LVP Taxi Routing - Westerly Flow - RWY 29L & RWY28 (14 May 2026)
54 LVP Taxi Routing - Westerly Flow - RWY 29R & RWY28 (14 May 2026)
55 LVP Taxi Routing - Westerly Flow - RWY 29R, RWY 29L & RWY 27 (14 May 2026
56 LVP Taxi Routing - Westerly Flow - RWY 29R, RWY 29L & RWY 28 (14 May 2026)
57 LVP Taxi Routing - Easterly Flow - RWY 09, RWY 10 & RWY 11L,RWY 11R (14 May 2026)
58 Taxiway Compatibility Chart (14 May 2026)
59 Precision Approach Terrain Chart RWY 09
60 Precision Approach Terrain Chart RWY 10(22 January 2026)
61 Precision Approach Terrain Chart RWY 11L
62 Precision Approach Terrain Chart RWY 11R
63 Precision Approach Terrain Chart RWY 27
64 Precision Approach Terrain Chart RWY 28(22 January 2026)
65 Precision Approach Terrain Chart RWY 29L

66 Precision Approach Terrain Chart RWY 29R

67 Instrument Approach Chart – ILS or LOC RWY 11R (27 November 2025)

68 Instrument Approach Chart – ILS Procedure (CAT-II/III) RWY 11R (27 November 2025)

69 Instrument Approach Chart – ILS Procedure (CAT-II/III) RWY 11L

70 Instrument Approach Chart – ILS or LOC RWY 27 (08 August 2024)

71 Instrument Approach Chart – ILS Procedure (CAT-II/III) RWY 28

72 Instrument Approach Chart – ILS OR LOC RWY 29L(27 November 2025)

73 Instrument Approach Chart – ILS (CAT-II/III) Procedure RWY 29L(27 November 2025)

74 Instrument Approach Chart – ILS or LOC RWY 29R (16 May 2024)

75 Instrument Approach Chart – VOR Procedure RWY 09

76 Instrument Approach Chart – VOR Procedure RWY 10(27 November 2025)

77 Instrument Approach Chart – VOR Procedure RWY 11R (08 August 2024)

78 Instrument Approach Chart – VOR Procedure RWY 28 (27 November 2025)

79 Instrument Approach Chart – VOR Procedure RWY 29L

80 Instrument Approach Chart – ILS or LOC RWY 11L (17 April 2025)

81 Instrument Approach Chart – ILS (CAT-II/III) Procedure RWY 29R (17 April 2025)

82 Instrument Approach Chart – ILS or LOC RWY 09 (17 April 2025)

83 Instrument Approach Chart – RNP Y Procedure RWY 27 (27 November 2025)

84 Coding Table 1 - RNP Y Procedure RWY 27 (27 November 2025)

85 Coding Table 2 - RNP Y Procedure RWY 27 (27 November 2025)

86 Instrument Approach Chart – RNP Y Procedure RWY 10 (17 April 2025)

87 Coding Table 1 - RNP Y Procedure RWY 10 (17 April 2025)

88 Coding Table 2 - RNP Y Procedure RWY 10(17 April 2025)

89 Instrument Approach Chart – RNP Y Procedure RWY 29L (17 April 2025)

90 Coding Table 1 - RNP Y Procedure RWY 29L (17 April 2025)

91 Coding Table 2 - RNP Y Procedure RWY 29L (17 April 2025)

92 Tactical Air Traffic Flow Procedures (T-ATFP) in Delhi FIR – RNAV STAR RWY 09, 10, 11R and ATS Route Structure in Delhi TMA

93 Tactical Air Traffic Flow Procedures (T-ATFP) in Delhi FIR – RNAV STAR RWY 27, 28, 29L and ATS Route Structure in Delhi TMA

94 Tactical Air Traffic Flow Procedures (T-ATFP) in Delhi FIR – Establishing Arrival Sequence, CTO and RTO computation for RWY 27, 28 and 29L

95 Instrument Approach Chart – RNP Y Procedure RWY 29R

96 Coding Table 1 - RNP Y Procedure RWY 29R

97 Coding Table 2 - RNP Y Procedure RWY 29R

98 Standard Departure Chart – Instrument (SID), RNAV1 (GNSS), RWY 09, AKRIB & DUDUM, 6E (13 June 2024)

99 Standard Departure Chart – Instrument (SID), RNAV1 (GNSS), RWY 09, AKRIB & DUDUM, 6E - Tabular Description (13 June 2024)

100 Standard Departure Chart – Instrument (SID), RNAV1 (GNSS), RWY 09, ALI & ITBAN, 6E (13 June 2024)

101 Standard Departure Chart – Instrument (SID), RNAV1 (GNSS), RWY 09, ALI & ITBAN, 6E - Tabular Description (13 June 2024)

102 Standard Departure Chart – Instrument (SID), RNAV1 (GNSS), RWY 09, OROTI & SURAM, 6E (13 June 2024)

103 Standard Departure Chart – Instrument (SID), RNAV1 (GNSS), RWY 09, OROTI & SURAM, 6E - Tabular Description (13 June 2024)

104 Standard Departure Chart – Instrument (SID), RNAV1 (GNSS), RWY 09, SP 6U - Conditional (13 June 2024)

Dimensions of runway end safety areas	Location and description of arresting system (if any)	Existence of an obstacle-free zone	Remarks.
11	12	13	14
90M x 60M	NA	NIL	Vertical Datum: EGM08
90M x 60M	NA	NIL	Vertical Datum: EGM08

VIDT AD 2.13 DECLARED DISTANCES

RWY Designator	Take-off run available TORA (M)	Take-off distance available TODA (M)	Accelerate distance available ASDA (M)	Landing distance available LDA (M)	Remarks (including runway entry or start point where alternative reduced declared distances have been declared)
1	2	3	4	5	6
03	1810	1810	1810	1810	NIL
21	1690	1690	1690	1810	NIL

VIDT AD 2.14 APPROACH AND RUNWAY LIGHTING

Runway Designator	Type, length and intensity of approach lighting system	Runway threshold lights, colour and wing bars	Type of visual slope indicator system	Length of runway touchdown zone lights
1	2	3	4	5
03	NA	NA	PAPI LEFT/3.00 DEG	
21	NA	NIL	PAPI LEFT/3.00 DEG	

Length, spacing, colour and intensity of runway centre line lights	Length, spacing, colour and intensity of runway edge lights	Colour of runway end lights and wing bars	Length and colour of stopway lights	Remarks
6	7	8	9	10
		NIL		NIL
		NIL		NIL

VIDT AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Location, characteristics and hours of operation of aerodrome beacon/identification beacon (if any)	ABN	24 Flashes per Minute Colour: White & Green Colour: White & Green
		IBN	Not Available
2	Location and lighting (if any) of anemometer/ landing direction indicator;	LDI	Available at East of Apron. Lighted
		Anemometer	Available.

3	Taxiway edge and taxiway centre line lights;	Edge	Not Available
		Centre Line	NA
4	Secondary power supply including switch-over time;	2 Nos. DG set each of 200 KVA available. Switch over time is less than 15 Seconds	
5	Remarks	NIL	

VIDT AD 2.16 HELICOPTER LANDING AREA

1	Geographical coordinates of the geometric centre of touchdown and lift-off (TLOF) or of each threshold of final approach and take-off (FATO) area	Not Established
2	TLOF and/or FATO area elevation:	Not Established
3	TLOF and FATO area dimensions to the nearest metre or foot, surface type, bearing strength and marking;	Not Established
4	True bearings of FATO;	Not Established
5	Declared distances available	Not Established
6	Approach and FATO lighting;	Not Established
7	Remarks	NIL

VIDT AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	CTR: Circular area centered on 253925N 0783034E within a 5NM radius.
2	Vertical limits	3000 FT AMSL
3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	Datia Tower, English
5	Transition altitude	4000 FT
6	Hours of applicability	HO
7	Remarks	ATZ

VIDT AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	**2**	**3**	**4**
TWR	Datia Tower	119.225 MHZ	
TWR	Datia Tower	119.950 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	**6**	**7**
	HO	• Back up • Functions of Tower combined with Approach
	HO	• Main • Functions of Tower combined with Approach

AD 2. AERODROMES

VIHX AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VIHX - HALWARA AIRPORT, HALWARA

VIHX AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	Aerodrome reference point coordinates and its site	304457N 0753748E North of Runway, abeam Middle Marker Appx 30 M/100 FT from runway edge.	
2	Direction and distance of aerodrome reference point from the center of the city or town which the aerodrome serves	26 Km Southwest of Ludhiana Town	
3	Aerodrome elevation and reference temperature	790 FT / 40.0 DEG C	
4	Magnetic variation, date of information and annual change	1.90 DEG E (2022)/ NIL	
5	Name of aerodrome operator, address, telephone, telefax, e-mail address, AFS address, website (if available)	Indian Air Force SATCO Air Force Station Halwara Ludhiana (Punjab) PIN - 141106 Civil Terminal Airport Director Airports Authority of India Halwara Airport Ludhiana (Punjab) 141106,	
		Telephone:	IAF +91-1624-276947 Civil Terminal +91 9815555772
		Fax:	IAF +91-1624-276947
		AFS:	
		Email:	IAF happi-ness9@gov.in Civil Terminal ceolial@aai.aero
6	Types of traffic permitted (IFR/VFR)	IFR/VFR	
7	Remarks	Joint User Airfield (Defence & Civil Ops).	

VIHX AD 2.3 OPERATIONAL HOURS

1	Aerodrome Operator	Indian Air Force (Air Traffic Services) HJ
2	Custom and immigration	Not Available
3	Health and sanitation	Health – Nil Sanitation - As per AD operator Hours
4	AIS briefing office	H24 (IAF)
5	ATS reporting office (ARO)	HJ (IAF)
6	MET Briefing office	H24 (IAF)
7	Air Traffic Service	HJ (IAF)

8	Fuelling	IOCL (During AD Hours)
9	Handling	Available by AIASL and Global Flight Handling Services on prior coordination with Authorised Ground Handling Agency
10	Security	Available, 24 Hrs
11	De-icing	Not Available
12	Remarks	Non-scheduled operator to take prior clearance from Airport Director for Parking and from ATC for operations

VIHX AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	Not Available
2	Fuel and Oil types	JET A1 Fuel Type: Jet A-1 Oil Type: NIL
3	Fuelling facilities and capacity	IOCL, Mobile Refueller-16Kl Qty 02 Static – 200Kl Qty 02
4	De-icing facilities	Not Available
5	Hangar space for visiting aircraft	Not Available
6	Repair facilities for visiting aircraft	Not Available
7	Remarks	Contact No Aviation Fuel Station (IOCL): +91 9873104032

VIHX AD 2.5 PASSENGER FACILITIES

1	Hotel(s) at or in the vicinity of aerodrome	Available in nearby townships within 10-20 km
2	Restaurant(s) at or in the vicinity of aerodrome	Available in nearby townships within 05km
3	Transportation possibilities	Hired Cars
4	Medical Facilities	First Aid available at terminal. Hospitals are available within 05 km from airport
5	Bank and post office at or in the vicinity of aerodrome	Banks: Available within 05 km from airport. Post office: Available within 05 km from airport.
6	Tourist office	Not available
7	Remarks	NIL

VIHX AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	Aerodrome category for fire fighting	Within ATS HR: CAT-7
2	Rescue equipment	Available as per category
3	Capability for removal of disabled aircraft	Disabled aircraft removal to be ensured by Aircraft operator in coordination with local authority before commencement of Operation.
4	Remarks	NIL

VIHX AD 2.7 SEASONAL AVAILABILITY CLEARING

1	Type(s) of clearing equipment	NIL
2	Clearance priorities	NIL
3	Remarks	NIL

VIHX AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Designation, surface and strength of aprons	Civil Apron (67 M X 95 M) Refer Aircraft Parking/Docking Chart
2	Designation, width, surface and strength of taxiways	Designator: PTT Width: 23 M Surface: Asphalt Strength: Designator: TWY A Width: 23 M Surface: Asphalt Strength: Designator: TWY D Width: 23 M Surface: Asphalt Strength: Designator: TWY L Width: 23 M Surface: Asphalt Strength:
3	Location and elevation of altimeter checkpoints	Location: NIL Elevation: NIL
4	Location of VOR checkpoints	At RWY Holding position of TWY A and TWY L.
5	Position of INS checkpoints	NIL
6	Remarks	NIL

VIHX AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand identification signs, taxiway guidelines and visual docking/parking guidance system at aircraft stands	Taxi guidance signs at all intersections with taxiway and runway, at all holding positions, gridlines at Apron.
2	Runway and taxiway markings and lights	RWY Markings: Designation, Threshold, touchdown zone, aiming point, Centre line, Runway Edge. Lights: Threshold lights, Runway Edge lights, Runway end light, Runway Centre Line Light. TWY Markings: Centre line, Taxi holding Position at all taxi ways, intersection. Lights: Taxiway Edge light
3	Stop bars (if any)	At TWY A, TWY D and TWY L.
4	Remarks	NIL

VIHX AD 2.10 AERODROME OBSTACLES

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation	Marking/LGT	Remarks
31/TKOF 13/APCH	OTHER	304741.0N 0753548.0E	909 FT	LGTD	MAST
31/TKOF 13/APCH	OTHER	304929.0N 0753418.0E	951 FT	LGTD	MWT
31/TKOF 13/APCH	OTHER	304746.0N 0753216.0E	928 FT	LGTD	MAST
31/TKOF 13/APCH	OTHER	304823.0N 0752924.0E	1010 FT	LGTD	MAST
31/TKOF 13/APCH	OTHER	304419.0N 0753744.0E	902 FT	LGTD	MAST
31/APCH 13/TKOF	OTHER	304401.0N 0753812.0E	896 FT	LGTD	MAST
31/APCH 13/TKOF	OTHER	304335.0N 0753829.0E	925 FT	LGTD	MAST
31/APCH 13/TKOF	OTHER	304332.0N 0753825.0E	935 FT	LGTD	MAST
31/APCH 13/TKOF	OTHER	304116.0N 0754008.0E	968 FT	LGTD	MAST
31/APCH 13/TKOF	OTHER	304229.0N 0754245.0E	991 FT	LGTD	MAST
31/APCH 13/TKOF	OTHER	304229.0N 0754026.0E	942 FT	NO	Thin Mast
In circling area and at AD	BUILDING	304458.0N 0753755.0E	856 FT	LGTD	BUILDING
In circling area and at AD	BUILDING	304501.0N 0753804.0E	886 FT	LGTD	BUILDING
In circling area and at AD	BUILDING	304458.0N 0753749.0E	807 FT	LGTD	BUILDING
In circling area and at AD	BUILDING	304415.0N 0753829.0E	814 FT	LGTD	BUILDING
In circling area and at AD	OTHER	304421.0N 0753747.0E	902 FT	LGTD	Mast (North)
In circling area and at AD	OTHER	305517.0N 0753711.0E	801 FT	LGTD	MAST
In circling area and at AD	OTHER	304436.0N 0753818.0E	801 FT	LGTD	MAST
In circling area and at AD	OTHER	304533.0N 0753827.0E	915 FT	LGTD	MAST
In circling area and at AD	POLE	304510.0N 0753616.0E	902 FT	NIL	POLE
In circling area and at AD	OTHER	304109.0N 0753844.0E	902 FT	LGTD	MAST
In circling area and at AD	OTHER	304305.0N 0753613.0E	919 FT	LGTD	MAST
In circling area and at AD	TOWER	305431.0N 0753337.0E	899 FT	LGTD	TOWER
In circling area and at AD	OTHER	305154.0N 0753457.0E	955 FT	LGTD	MAST
In circling area and at AD	OTHER	305008.0N 0755412.0E	1047 FT	LGTD	MAST

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation	Marking/LGT	Remarks
In circling area and at AD	OTHER	305057.0N 0754059.0E	1086 FT	LGTD	MAST
In circling area and at AD	OTHER	305035.0N 0754022.0E	988 FT	LGTD	MAST
In circling area and at AD	POLE	304421.0N 0753747.0E	902 FT	LGTD	POLE
In circling area and at AD	OTHER	304832.0N 0752816.0E	961 FT	LGTD	MAST
In circling area and at AD	OTHER	304746.0N 0753216.0E	928 FT	LGTD	MAST
In circling area and at AD	OTHER	304741.0N 0753548.0E	958 FT	LGTD	MAST
In circling area and at AD	OTHER	304804.0N 0754126.0E	991 FT	LGTD	MAST
In circling area and at AD	OTHER	304802.0N 0753816.0E	919 FT	LGTD	MAST
In circling area and at AD	OTHER	304745.0N 0754506.0E	1007 FT	LGTD	MAST
In circling area and at AD	OTHER	304517.0N 0754203.0E	1010 FT	LGTD	MAST
In circling area and at AD	OTHER	304156.0N 0753644.0E	965 FT	LGTD	MAST
In circling area and at AD	OTHER	304109.0N 0754456.0E	968 FT	LGTD	MAST
In circling area and at AD	OTHER	304848.0N 0753906.0E	958 FT	LGTD	MAST
In circling area and at AD	OTHER	304037.0N 0754055.0E	961 FT	LGTD	MAST
In circling area and at AD	BUILDING	305149.0N 0754258.0E	1106 FT	LGTD	Building

VIHX AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Name of the associated meteorological office	MET Section, Air Force Station Halwara
2	Hours of service and, where applicable, the designation of the responsible meteorological office outside these hours	24 Hrs Observational watch 18 Hrs Forecasting watch (0000 UTC till 1800 UTC)
3	Office responsible for preparation of TAFs and periods of validity and interval of issuance of the forecasts	Met Section, Air Force Station Halwara TOO: 0330 UTC Validity: 0600 UTC to 1800 UTC TOO: 0930 UTC Validity: 1800 UTC to 2400 UTC TOO: 1530 UTC Validity: 0000 UTC to 1200 UTC
4	Availability of the trend forecast for the aerodrome and interval of issuance	Trend TREND forecast is available with every half hourly METAR during the forecasting watch hours
5	Information on how briefing and/or consultation is provided	Briefing is conducted in MET section
6	Types of flight documentation supplied and language(s) used in flight documentation	T3 and T4 route forecast in English.
7	Charts and other information displayed or available for briefing or consultation	Surface charts, Upper Air charts, Satellite images, Radar images are available

8	Supplementary equipment available for providing information on meteorological conditions, e.g. weather radar and receiver for satellite images;	Automatic Weather Station, Runway Visual Range, Digital Electronic Theodolite (for taking upper air ascent), Lightning Detection System, Radar and Satellite images are available
9	The air traffic services unit(s) provided with meteorological information	ATS, Air Force Station Halwara
10	Additional information, e.g. concerning any limitation of service.	Forecasting is limited to ATS watch hours only.

VIHX AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations	TRUE Bearings	Dimensions of RWY (M)	Strength of pavement (PCN) and associated data) and surface of runway and associated stopways	Geographical coordinates for threshold and runway end
1	2	3	4	5
13	131.00 DEG	3034 x 45 M	-	THR: 304527.00N 0753704.00E RWY END: 304422.00N 0753830.00E
31	311.00 DEG	3034 x 45 M	-	THR: 304425.00N 0753826.00E RWY END: 304527.00N 0753704.00E

THR elevation and highest elevation of TDZ of precision APP RWY	Slope of runway and associated stopway	Dimensions of stopway (M)	Dimensions of clearway (M)	Dimensions of strips (M)
6	7	8	9	10
THR: 786.0FT TDZ:		310 x 45 M	310 x 45	3774 x 280 M
THR: 790.0FT TDZ:		312 x 45 M	312 x 45	3774 x 280 M

Dimensions of runway end safety areas	Location and description of arresting system (if any)	Existence of an obstacle-free zone	Remarks.
11	12	13	14
310M x 90M	Arresting system not available for civil flights	YES	NIL
312M x 90M	Arresting system not available for civil flights	YES	NIL

VIHX AD 2.13 DECLARED DISTANCES

RWY Designator	Take-off run available TORA (M)	Take-off distance available TODA (M)	Accelerate distance available ASDA (M)	Landing distance available LDA (M)	Remarks (including runway entry or start point where alternative reduced declared distances have been declared)
1	2	3	4	5	6
13	3034	3344	3344	3034	NIL
31	3034	3346	3346	2881	NIL

VIHX AD 2.14 APPROACH AND RUNWAY LIGHTING

Runway Designator	Type, length and intensity of approach lighting system	Runway threshold lights, colour and wing bars	Type of visual slope indicator system	Length of runway touchdown zone lights
1	2	3	4	5
13	SALS 420 M LIH	Green	PAPI RIGHT/3.00 DEG	900 M
31	CAT II 900 M LIH	Green	PAPI RIGHT/3.00 DEG	900 M

Length, spacing, colour and intensity of runway centre line lights	Length, spacing, colour and intensity of runway edge lights	Colour of runway end lights and wing bars	Length and colour of stopway lights	Remarks
6	7	8	9	10
3034 M 15 M LIH White	3034 M 60 M White LIH	Red	Red 310 M	1. Colour of last 300 M of runway centre line lights is Red, from 300M to 600M Alternate Red & Clear, Rest all in clear filter 2. Colour of last 900 M of runway edge lights is amber
3034 M 15 M LIH White	3034 M 60 M White LIH	Red	Red 312 M	1. Colour of last 300 M of runway centre line lights is Red, from 300M to 600M Alternate Red & Clear, Rest all in clear filter 2. Colour of last 900 M of runway edge lights is amber

VIHX AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Location, characteristics and hours of operation of aerodrome beacon/identification beacon (if any)	ABN	At Tower Building, Alternate White & Green, 24 Flashes /Min, During IMC & Night Ops
		IBN	Not Available

2	Location and lighting (if any) of anemometer/ landing direction indicator;	LDI	In Front of ATC Building
		Anemometer	End of RWY 31 and RWY 13 along with AWS
3	Taxiway edge and taxiway centre line lights;	Edge	All Taxiway and Links, Distance 200 ft
		Centre Line	NIL
4	Secondary power supply including switch-over time;	Secondary Power Supply to all lighting System/ 08-10 sec	
5	Remarks	NIL	

VIHX AD 2.16 HELICOPTER LANDING AREA

1	Geographical coordinates of the geometric centre of touchdown and lift-off (TLOF) or of each threshold of final approach and take-off (FATO) area	Not established
2	TLOF and/or FATO area elevation:	Not established
3	TLOF and FATO area dimensions to the nearest metre or foot, surface type, bearing strength and marking;	Not established
4	True bearings of FATO;	Not established
5	Declared distances available	Not established
6	Approach and FATO lighting;	Not established
7	Remarks	TWY A and TWY B on runway and Z helipad (on request from Pilot)

VIHX AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	Not established
2	Vertical limits	Not established
3	Airspace classification	G
4	Call sign and language(s) of the air traffic services unit providing service;	Halwara Tower, English
5	Transition altitude	4000 FT
6	Hours of applicability	HJ
7	Remarks	NIL

VIHX AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	2	3	4
APP	Halwara Approach	130.100 MHZ	
TWR	Halwara Tower	130.100 MHZ	
ATIS	Halwara Information	115.200 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	6	7
	HJ	NIL
	HJ	NIL
	HJ	NIL

VIHX AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aids, magnetic variation and type of supported operation for ILS/ MLS, basic GNSS, SBAS and GBAS, and for VOR/ILS/MLS station used for technical lineup of the aid	Identification	Frequency(ies), Channel number(s), Service provider, and reference path identifier(s) (RPI), as appropriate	Hours of operation, as appropriate;
1	2	3	4
LOC 31 CAT II	IHLR	111.500 MHz	HJ
GP 31		332.900 MHz	HJ
DME ILS 31	IHLR		HJ
DVOR/DME	HLW	115.200 MHz	HJ

Geographical coordinates of the position of the transmitting antenna	Elevation of transmitting antenna of DME/ elevation of GBAS reference point	Service volume radius from the GBAS reference point	Remarks
5	6	7	8
304533.0N 0753655.0E			1. Controlling Authority: Indian Air Force
304429.0N 0753812.0E			1. Controlling Authority: Indian Air Force 2. Oscillation observed between 1.4 NM to 0.156 NM from THR on GP
304429.0N 0753812.0E	784 FT		1. Controlling Authority: Indian Air Force
304437.0N 0753756.0E	817 FT		1. Controlling Authority: Indian Air Force 2. DME Collocated with DVOR

VIHX AD 2.20 LOCAL AERODROME REGULATIONS

NIL

VIHX AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VIHX AD 2.22 FLIGHT PROCEDURES

NIL

VIHX AD 2.23 ADDITIONAL INFORMATION

1. Open saucer drain on northern shoulder of runway having length 850 M, depth 0.5 M, width 02 M and distance from runway edge 83 M.
2. Open saucer drain on southern shoulder of parallel taxi track (PTT) having length 2000 M, width 03 M, depth 0.6 M and distance from edge of parallel taxi track 27 M.
3. Open unpaved saucer drain on northern shoulder of runway from Dumbell 31 to link R2 having length 900 M, depth 0.5 M, width 2 M and distance from runway edge 83 M.
4. Open box drain on south of runway between link R2 and link E having length 2100 M, width 1.6 M, depth 1 M and distance from runway edge 70 M.
5. Open unpaved saucer drain on southern shoulder of parallel taxi track (PTT) from link C to Dumbell 14 having length 2200 M, width 3 M, depth 0.6 M and distance from edge of PTT 27 M.
6. The following ground markings on the manoeuvring area at variance from ICAO Annex 14, Vol 1:
   i) Centre line on parallel taxiway is broken white.
   ii) White transverse strip painted across parallel taxiway at extremities.
   iii) Solid yellow triangles painted at beginning parallel taxi track on both ends.
   iv) Two helipads marked on parallel taxi track abeam link C and link D.
   v) Military aircraft parking bay markings on runway turn pads at both ends.
   vi) Non-Load Bearing (NLB) marking not available on link A, Link D and Parallel taxi track.

VIHX AD 2.24 CHARTS RELATED TO AN AERODROME

1 Aircraft Parking/Docking Chart (11 JUNE 2026)

2 Instrument Approach Chart – CAT I ILS RWY 31 (11 JUNE 2026)

3 Instrument Approach Chart – CAT II ILS RWY 31 (11 JUNE 2026)

4 Instrument Approach Chart – VOR Z RWY 13 (11 JUNE 2026)

5 Instrument Approach Chart – VOR Y RWY 13 (11 JUNE 2026)

6 Instrument Approach Chart – VOR Z RWY 31 (11 JUNE 2026)

7 Instrument Approach Chart – VOR Y RWY 31 (11 JUNE 2026)

VIHX AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Procedure	Procedure Minima	VSS Penetration
1	2	3

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AIRCRAFT PARKING/
DOCKING CHART

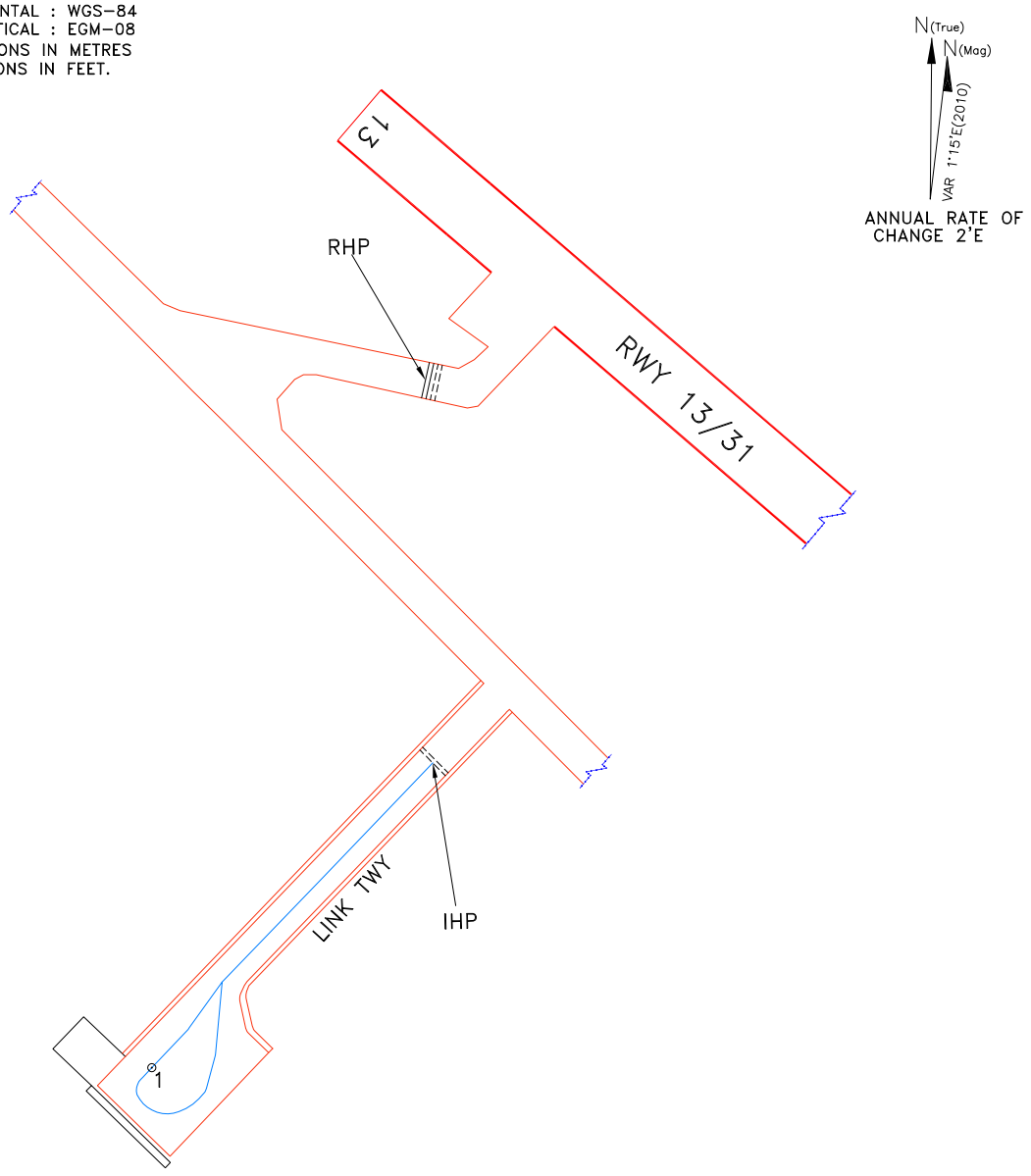
APRON ELEV 787ft.

TWR 130.1

HALWARA, INDIA

HALWARA AIRPORT

* DATUM :
HORIZONTAL : WGS–84
VERTICAL : EGM–08
* DIMENSIONS IN METRES
* ELEVATIONS IN FEET.



SCALE

500 0 500 FEET

100 0 100 200 METRES

LEGEND	
AIRCRAFT STAND	⊙1
RWY HOLDING POSITION	═══
INTERMEDIATE HOLD.POSITION	----

TAXIWAY	PCR	WIDTH
LINK TWY	665/R/C/W/T	24M

STAND No.	WGS CO–ORDINATES FOR AIRCRAFT STANDS	SUITABLITY	PCR	ELEV.	STATUS
1.	30°45'06.75236"N 075°36'58.08328"E	A321	665/R/C/W/T	787ft.	POWER IN POWER OUT

DATE OF AERONAUTICAL INFORMATION
FEB 2026

DRG. NO.–AAI/5–PDC/2026

1 – 1

VIHX
HALWARA

IAF
Eff 19 MAR 26

HALWARA, INDIA
CAT I ILS RWY 31

HALWARA Approach 130.1			HALWARA Tower 130.1		ATIS 115.2	
VOR HLW 115.2	LOC IHLR 111.5	FINAL Apch Crs 310°	GS D 4.0 IHLR 2050'	DA (H) 1002' (212')	Apt Elev 790' RWY	790'

MISSED APCH : Climb STRAIGHT AHEAD to 2300', then climbing turn LEFT to join VOR hold at 3000' or as directed by ATC.

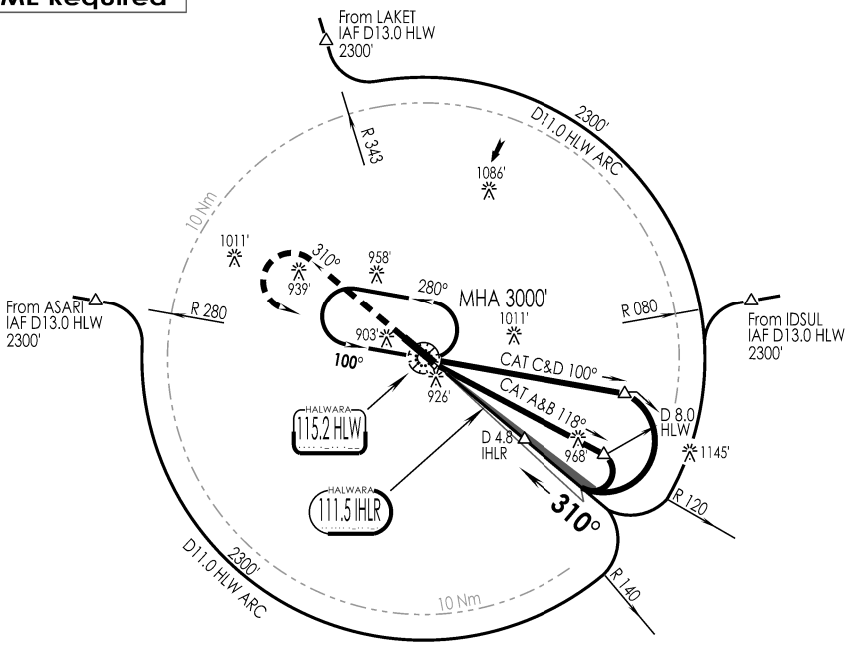
Alt Set: hPa | Rwy Elev: 28 hPa | Trans level: By ATC | Trans alt: 4000'

2300'
MSA
HLW VOR

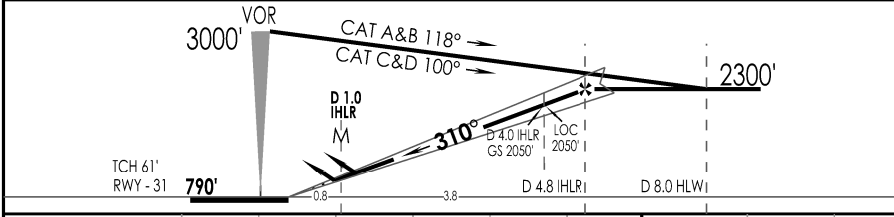
1 Inch = 7.5 NM
7.5 NM
0
7.5 NM

SURVEY PERIOD : 2016-17

DME Required



LOC GS OUT	IHLR DME	4.8	4.0	3.0	2.0
	ALTITUDE (ft)	2300	2050	1730	1410



GND SPEED KTS	80	100	120	140	160	180
GRADIENT 5.24 %	425	531	637	743	849	955

MAPt AT D1.0 IHLR

CAT II
PAPI -R
2300'
3000'

STRAIGHT-IN LANDING RWY 31

ILS — DA(H) 1002'(212')

	FULL	ALS OUT
A	RVR 550m	RVR 1200m
B		
C		
D		

LOC (GS OUT) CDFA — MDA(H) 1090'(300')

FULL	ALS OUT
RVR 650m	RVR 1400m

CIRCLE - TO - LAND

Max Kts	MDA (H)	VIS
100	1480' (690')	3200m
135		
180		
205		3600m

CHANGES : WAYPOINT

IPDC, DTE OF OPS (T & H)

1-3

VIHX HALWARA — IAF — HALWARA, INDIA CAT II ILS RWY 31

Eff 19 MAR 26

HALWARA Approach	HALWARA Tower	ATIS
130.1	130.1	115.2

VOR HLW	LOC IHLR	FINAL Apch Crs	GS	DA (H)	Apt Elev 790'
115.2	111.5	310°	D 4.0 IHLR 2050'	As Per Table	RWY 790'

MISSED APCH : Climb STRAIGHT AHEAD to 2300', then climbing turn LEFT to join VOR hold at 3000' or as directed by ATC.

Alt Set: hPa	Rwy Elev: 28 hPa	Trans level: By ATC	Trans alt: 4000'

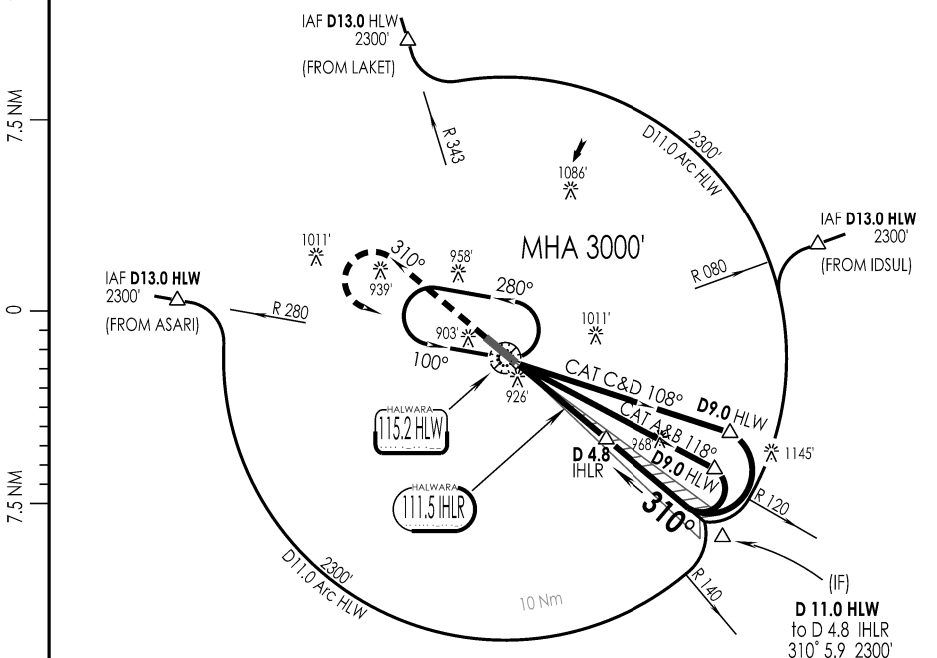
2300'
MSA
HLW VOR

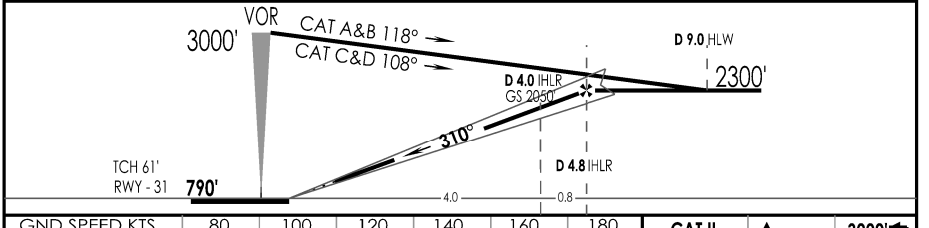
DME Required

- Max IAS during O/B restricted to 220 Kts.

1 Inch = 7.5 NM

SURVEY PERIOD : 2016-17





GND SPEED KTS	80	100	120	140	160	180
GRADIENT 5.24 %	425	531	637	743	849	955

CAT II
PAPI -R
2300'
3000' LT

STRAIGHT-IN LANDING RWY 31

CAT II ILS

DA (H)		RA	
AB: **900'** (110')	CD: **926'** (136')	AB: 110'	CD: 136'

FULL

A	RVR 300m
B	
C	RVR 400m
D	

CHANGES : WAYPOINT

IPDC, DTE OF OPS (T & H)

2-4

VIHX
HALWARA

IAF
Eff 27 DEC 23

HALWARA, INDIA
VOR Y RWY 13

HALWARA Approach	HALWARA Tower	ATIS
130.1	130.1	115.2

VOR HLW	FINAL Apch Crs	MDA (H)	Apt Elev 790'
115.2	**134°**	**1200'** (410')	RWY **786'**

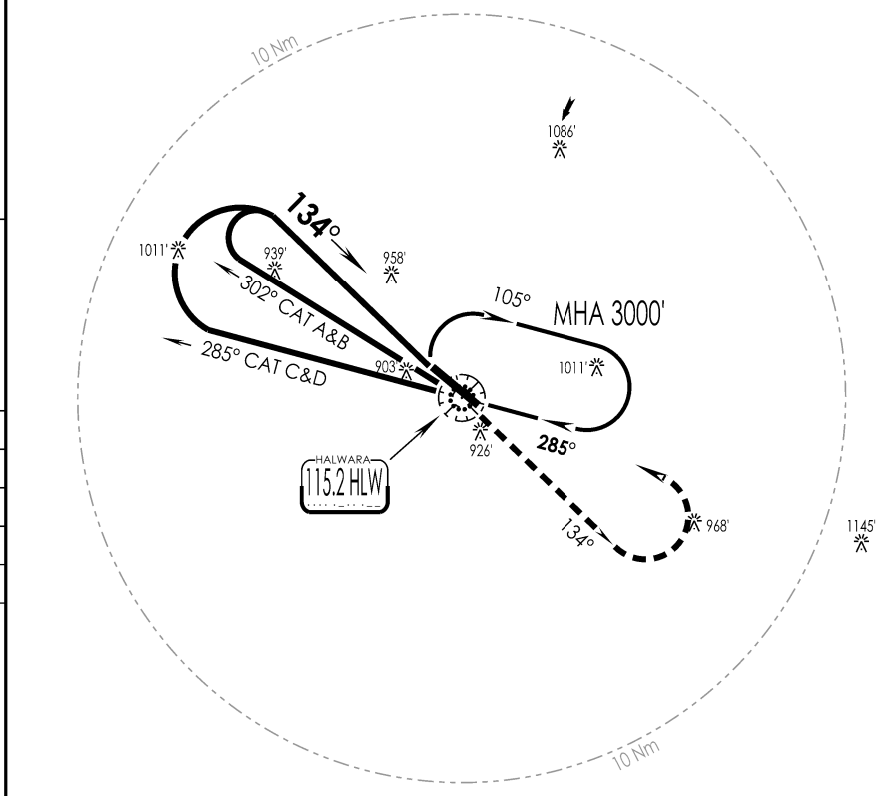
MISSED APCH : Climb STRAIGHT AHEAD to 2300', then climbing turn LEFT to join VOR hold at 3000' or as directed by ATC.

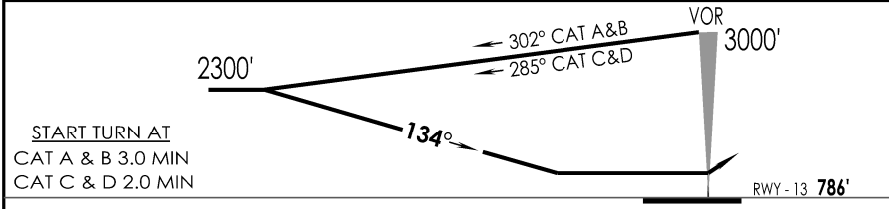
Alt Set: hPa	Rwy Elev: 28 hPa	Trans level: By ATC	Trans alt: 4000'

2300'
MSA
HLW VOR

1 Inch = 5 NM
5 NM
0
5 NM

SURVEY PERIOD : 2016-17





MAPt AT VOR

STRAIGHT-IN LANDING RWY 13

non-CDFA

MDA(H) **1200'** (410')

	IALS	ALS OUT
A	RVR 1700m	RVR 2100m
B		
C	RVR 1900m	RVR 2300m
D		

SALS
PAPI -R
↑ 2300'
3000' ↱

CIRCLE - TO - LAND

	Max Kts	MDA (H)	VIS
A	100	**1480'** (690')	3200m
B	135		
C	180		3600m
D	205		

CHANGES : FREQ, ELEV, MDH

IPDC, DTE OF OPS (T & H)

2-3

VIHX
HALWARA

IAF
Eff 27 DEC 23

HALWARA, INDIA
VOR Z RWY 13

HALWARA Approach	HALWARA Tower	ATIS
130.1	130.1	115.2

VOR HLW	FINAL Apch Crs	FAF	MDA (H)	Apt Elev 790'
115.2	134°	D 5.7 HLW 2300'	1150' (360')	RWY 786'

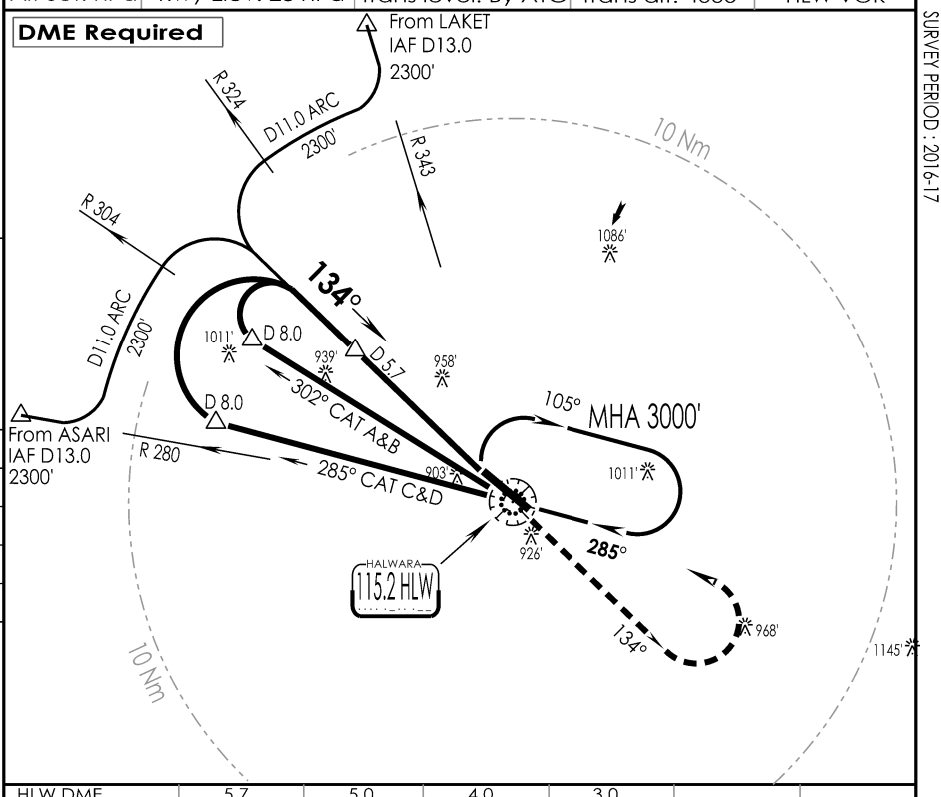
MISSED APCH : Climb STRAIGHT AHEAD to 2300', then climbing turn LEFT to join VOR hold at 3000' or as directed by ATC.

Alt Set: hPa	Rwy Elev: 28 hPa	Trans level: By ATC	Trans alt: 4000'

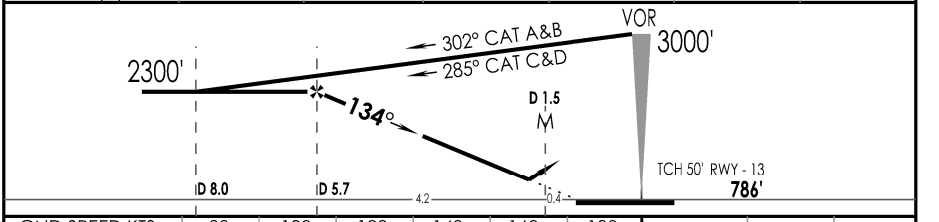
2300'
MSA
HLW VOR

1 Inch = 5 NM
5 NM
0
5 NM

SURVEY PERIOD : 2016-17



HLW DME	5.7	5.0	4.0	3.0		
ALTITUDE (ft)	2300	2080	1760	1450		



GND SPEED KTS	80	100	120	140	160	180
GRADIENT 5.2 %	425	531	637	743	849	955

MAPt AT D1.5 HLW

SALS
PAPI -R
2300'
3000'

STRAIGHT-IN LANDING RWY 13

CDFA

MDA(H) **1150'** (360')

	IALS	ALS OUT	Max Kts	MDA (H)	VIS
A	RVR 1200m	RVR 1500m	100	**1480'** (690')	3200m
B			135		
C		RVR 1600m	180		
D			205		3600m

CIRCLE - TO - LAND

CHANGES : FREQ, ELEV, MDH

IPDC, DTE OF OPS (T & H)

2-2

VIHX HALWARA — IAF — HALWARA, INDIA VOR Y RWY 31

Eff 27 DEC 23

HALWARA Approach	HALWARA Tower	ATIS
130.1	130.1	115.2

VOR HLW	FINAL Apch Crs	MDA (H)	Apt Elev 790'
115.2	**304°**	**1280'** (490')	RWY **790'**

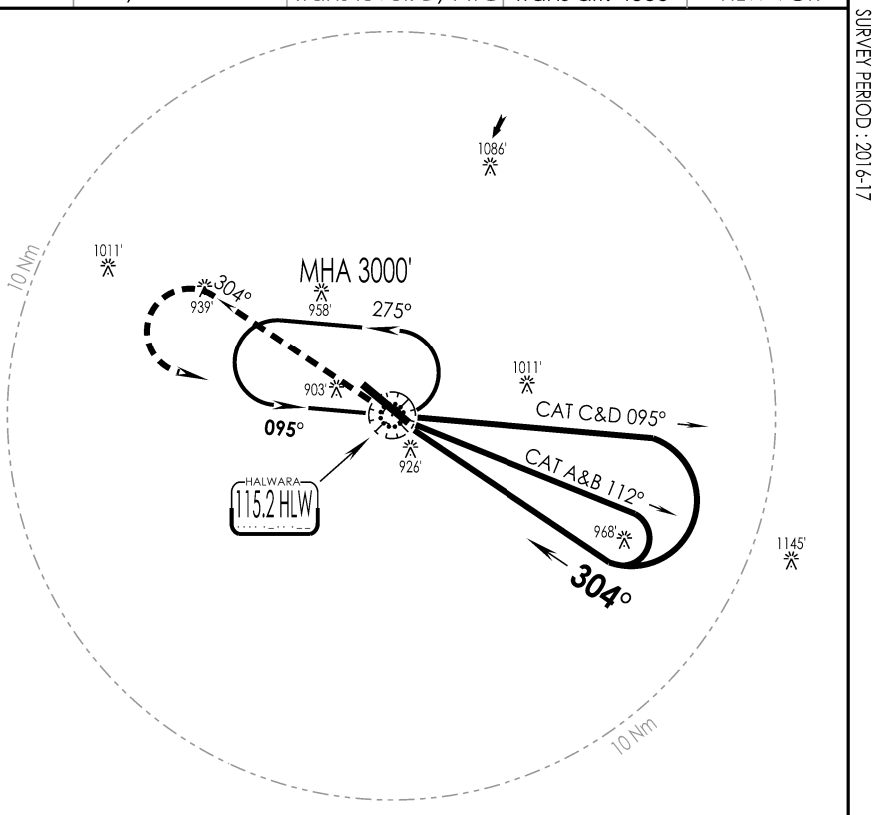
MISSED APCH : Climb STRAIGHT AHEAD to 2300', then climbing turn LEFT to join VOR hold at 3000' or as directed by ATC.

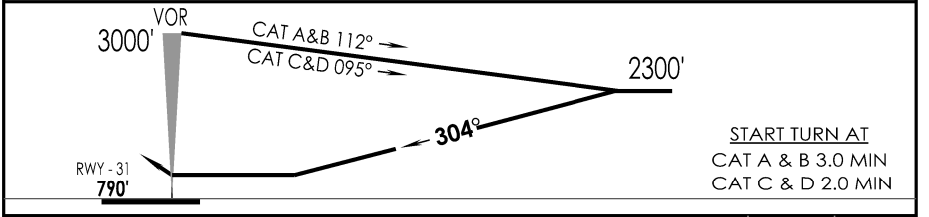
Alt Set: hPa	Rwy Elev: 28 hPa	Trans level: By ATC	Trans alt: 4000'

2300'
MSA
HLW VOR

1 Inch = 5 NM
5 NM
0
5 NM

SURVEY PERIOD : 2016-17





MAPt AT VOR

STRAIGHT-IN LANDING RWY 31

non - CDFA

MDA(H) **1280'** (490')

	FULL	ALS OUT
A	RVR 1700m	RVR 2500m
B		
C	RVR 1900m	RVR 2700m
D		

CAT II
PAPI -R
↑ **2300'** **3000'**

CIRCLE - TO - LAND

Max Kts	MDA (H)	VIS
100	**1480'** (690')	3200m
135		
180		
205		3600m

CHANGES : FREQ, ELEV, MDH

IPDC, DTE OF OPS (T & H)

2-1

VIHX HALWARA

IAF

Eff 19 MAR 26

HALWARA, INDIA VOR Z RWY 31

HALWARA Approach 130.1		HALWARA Tower 130.1		ATIS 115.2	
VOR HLW **115.2**	FINAL Apch Crs **304°**	FAF **D 5.1 HLW** **2300'**	MDA (H) As per table	Apt Elev 790' RWY **790'**	2300' MSA HLW VOR

MISSED APCH : Climb STRAIGHT AHEAD to 2300', then climbing turn LEFT to join VOR hold at 3000' or as directed by ATC.

Alt Set: hPa	Rwy Elev: 28 hPa	Trans level: By ATC	Trans alt: 4000'

1 Inch = 7.5 NM

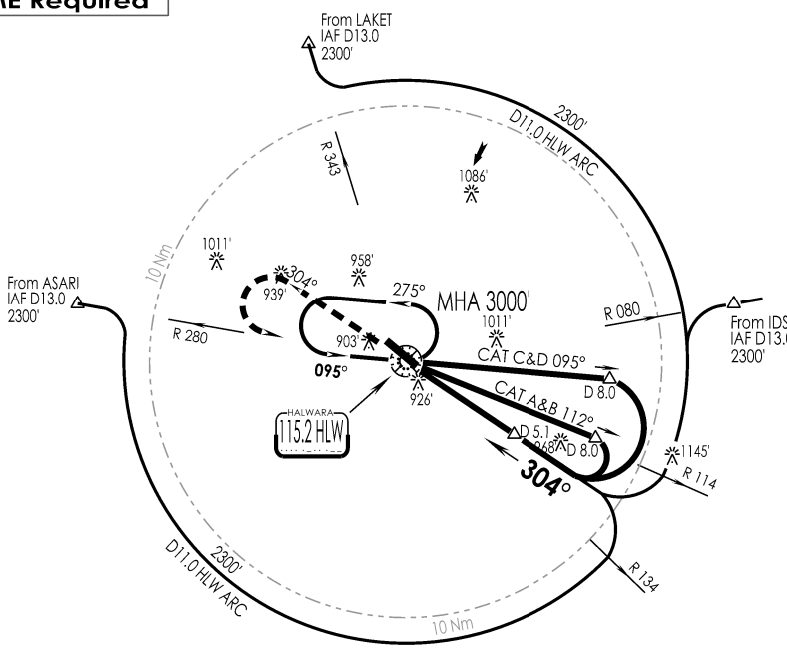
7.5 NM

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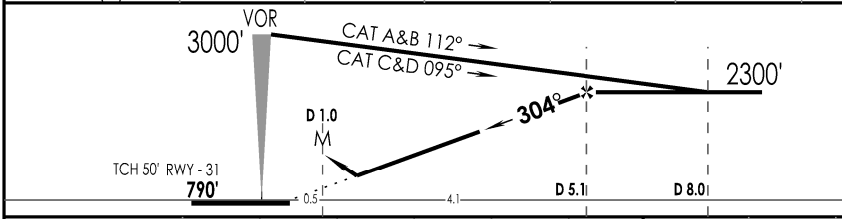
7.5 NM

SURVEY PERIOD : 2016-17

DME Required



HLW DME	2.0	3.0	4.0	5.0	5.1
ALTITUDE (ft)	1320	1640	1950	2270	2300



GND SPEED KTS	80	100	120	140	160	180
GRADIENT 5.2 %	425	531	637	743	849	955

MAPt AT D1.0 HLW

CAT II PAPI -R | 2300' | 3000'

STRAIGHT-IN LANDING RWY 31

CDFA

MDA(H) AB: **1180'** (390') CD: **1220'** (430')

	FULL	ALS OUT
A	RVR 1100m	RVR 1500m
B		
C	RVR 1300m	RVR 2000m
D		

CIRCLE - TO - LAND

Max Kts	MDA (H)	VIS
100	**1480'** (690')	3200m
135		
180		3600m
205		

CHANGES : WAYPOINT

IPDC, DTE OF OPS (T & H)

1. Operation Readiness Platform is available at the beginning of the runway for parking of fighter aircraft prior to take off. All scheduled and non-scheduled aircraft toexercise caution while lining up to ensure jet wake is not directed towards fighter aircrafts to avoid any foreign object damage.

2. Non-scheduled operators to take prior clearance from Airport Director for parking and from ATC for Operations.

3. All scheduled and non-scheduled aircraft to carryout 180 DEG turn only on rigid portion of runway.

i. Ground markings on parallel taxitrack south of RWY do not conform to standard taxi markings as per Annex 14. TWY centreline marked with broken white stripes 3m long and 0.3m wide with the longitudinal gap of 3m between stripes.

VIJO AD 2.24 CHARTS RELATED TO AN AERODROME

1. Aircraft Parking/Docking Chart
2. Instrument Approach Chart – CAT I ILS RWY 05(12 June 2025)
3. Instrument Approach Chart – VOR Z RWY 05 (12 June 2025)
4. Instrument Approach Chart – VOR Y RWY 05 (12 June 2025)
5. Instrument Approach Chart – VOR RWY 23 (19 Mar 2026)

VIJO AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Procedure	Procedure Minima	VSS Penetration
1	2	3

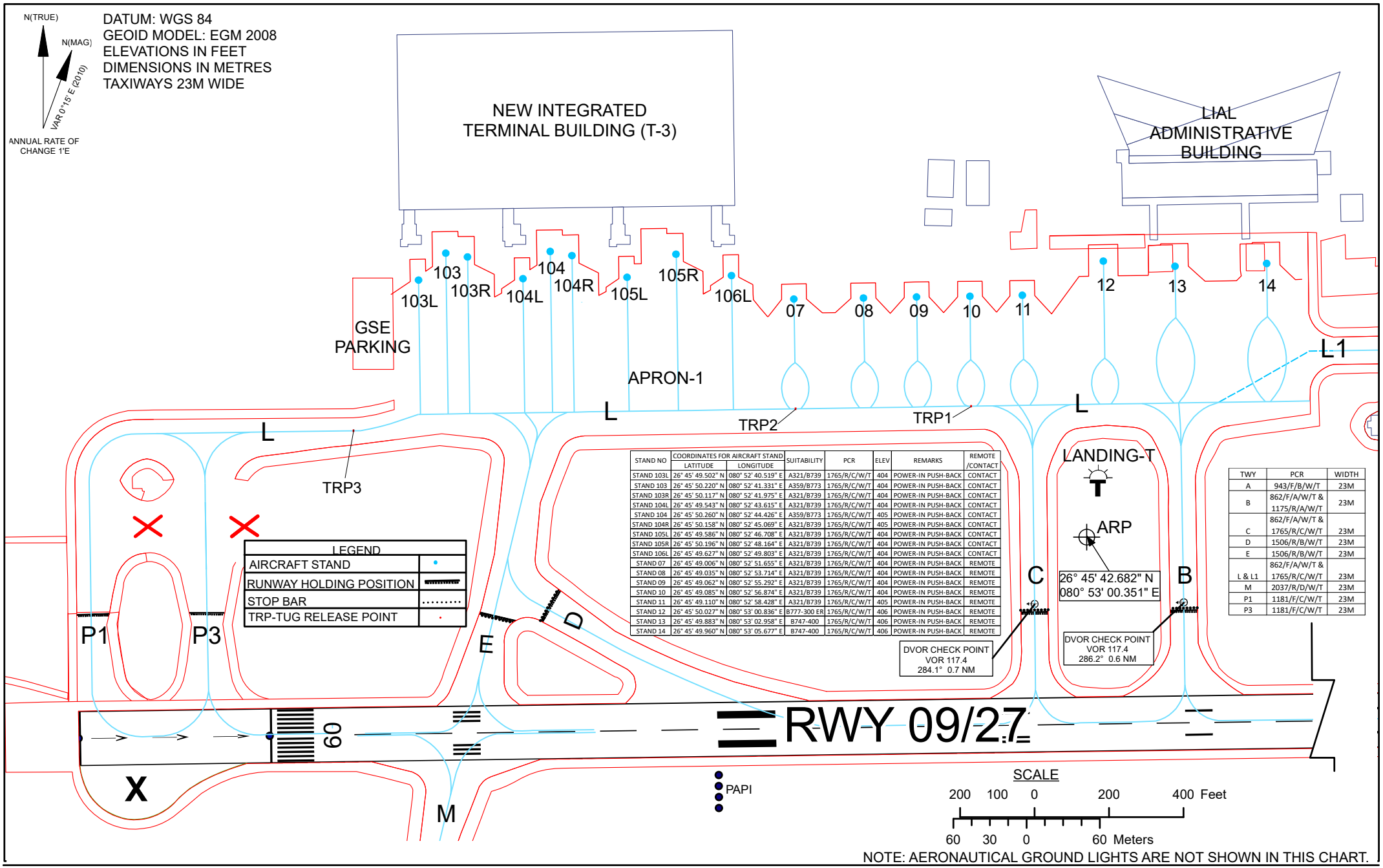
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AIRCRAFT PARKING /DOCKING CHART
APRON -1

APRON ELEV.406 ft.

TWR 118.6
STAND BY 122.5

LUCKNOW, INDIA
CHAUDHARY CHARAN SINGH INTL. AIRPORT



STAND NO	COORDINATES FOR AIRCRAFT STAND LATITUDE	LONGITUDE	SUITABILITY	PCR	ELEV	REMARKS	REMOTE /CONTACT
STAND 103L	26° 45' 49.502" N	080° 52' 40.519" E	A321/B739	1765/R/C/W/T	404	POWER-IN PUSH-BACK	CONTACT
STAND 103	26° 45' 50.220" N	080° 52' 41.331" E	A359/B773	1765/R/C/W/T	404	POWER-IN PUSH-BACK	CONTACT
STAND 103R	26° 45' 50.117" N	080° 52' 41.975" E	A321/B739	1765/R/C/W/T	404	POWER-IN PUSH-BACK	CONTACT
STAND 104L	26° 45' 49.543" N	080° 52' 43.615" E	A321/B739	1765/R/C/W/T	404	POWER-IN PUSH-BACK	CONTACT
STAND 104	26° 45' 50.260" N	080° 52' 44.426" E	A359/B773	1765/R/C/W/T	405	POWER-IN PUSH-BACK	CONTACT
STAND 104R	26° 45' 50.158" N	080° 52' 45.069" E	A321/B739	1765/R/C/W/T	405	POWER-IN PUSH-BACK	CONTACT
STAND 105L	26° 45' 49.586" N	080° 52' 46.708" E	A321/B739	1765/R/C/W/T	404	POWER-IN PUSH-BACK	CONTACT
STAND 105R	26° 45' 50.196" N	080° 52' 48.164" E	A321/B739	1765/R/C/W/T	404	POWER-IN PUSH-BACK	CONTACT
STAND 106L	26° 45' 49.627" N	080° 52' 49.803" E	A321/B739	1765/R/C/W/T	404	POWER-IN PUSH-BACK	CONTACT
STAND 07	26° 45' 49.006" N	080° 52' 51.655" E	A321/B739	1765/R/C/W/T	404	POWER-IN PUSH-BACK	REMOTE
STAND 08	26° 45' 49.035" N	080° 52' 53.714" E	A321/B739	1765/R/C/W/T	404	POWER-IN PUSH-BACK	REMOTE
STAND 09	26° 45' 49.062" N	080° 52' 55.292" E	A321/B739	1765/R/C/W/T	404	POWER-IN PUSH-BACK	REMOTE
STAND 10	26° 45' 49.085" N	080° 52' 56.874" E	A321/B739	1765/R/C/W/T	404	POWER-IN PUSH-BACK	REMOTE
STAND 11	26° 45' 49.110" N	080° 52' 58.428" E	A321/B739	1765/R/C/W/T	405	POWER-IN PUSH-BACK	REMOTE
STAND 12	26° 45' 50.027" N	080° 53' 00.836" E	B777-300 ER	1765/R/C/W/T	406	POWER-IN PUSH-BACK	REMOTE
STAND 13	26° 45' 49.883" N	080° 53' 02.958" E	B747-400	1765/R/C/W/T	406	POWER-IN PUSH-BACK	REMOTE
STAND 14	26° 45' 49.960" N	080° 53' 05.677" E	B747-400	1765/R/C/W/T	406	POWER-IN PUSH-BACK	REMOTE

TWY	PCR	WIDTH
A	943/F/B/W/T	23M
B	862/F/A/W/T & 1175/R/A/W/T	23M
C	862/F/A/W/T & 1765/R/C/W/T	23M
D	1506/R/B/W/T	23M
E	1506/R/B/W/T	23M
L & L1	862/F/A/W/T & 1765/R/C/W/T	23M
M	2037/R/D/W/T	23M
P1	1181/F/C/W/T	23M
P3	1181/F/C/W/T	23M

NOTE: AERONAUTICAL GROUND LIGHTS ARE NOT SHOWN IN THIS CHART.

6	Tourist office	At Terminal Building: Forecourt
7	Remarks	NIL

VIND AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	Aerodrome category for fire fighting	Within ATS HR: CAT-9
2	Rescue equipment	Available as per category Additional equipment available are: One Mobile Command Post One Equipment vehicle
3	Capability for removal of disabled aircraft	1. Primary responsibility for removal of disabled aircraft rests with the concerned airline. 2. The Disabled Aircraft Removal Plan (DARP) for Noida International Airport includes support to be provided for recovery of the aircraft 3. The critical aircraft for disabled aircraft recovery at Noida International Airport is B747-400. 4. Contact Details of Aerodrome Coordinator for Disabled Aircraft Removal Operations: Aerodrome coordinator: Head-Crisis Management Contact Details: +91 9266794011 Email ID: crisismanagement@niairport.in (During office hrs) APOC: +91-5738-310010 (24x7) Email-id: apoc@niairport.in
4	Remarks	NIL

VIND AD 2.7 SEASONAL AVAILABILITY CLEARING

1	Type(s) of clearing equipment	NIL
2	Clearance priorities	NIL
3	Remarks	NIL

VIND AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Designation, surface and strength of aprons	Refer Aircraft Parking/Docking Chart
2	Designation, width, surface and strength of taxiways	Refer Aircraft Parking/Docking Chart
3	Location and elevation of altimeter checkpoints	Location On Apron 1 Elevation:650 FT Location Cargo Apron Elevation 647 FT
4	Location of VOR checkpoints	At RWY holding point on TWY A1 and TWY A9
5	Position of INS checkpoints	NIL
6	Remarks	NIL

VIND AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand identification signs, taxiway guidelines and visual docking/parking guidance system at aircraft stands	Continuous aircraft stand lead-in lines available at stands N10, N11, N12, N13, N14, N15, N16, N17 , N18,A06, A08, A10, A12, A14L, A14R, A16L, A16R, A20L, A20R, A24L, A24R, A28L, A28R, A32L, A32R, W2 & W3 A-VDGS available only on stands A12, A14L, A14R, A16L & A16R.

2	Runway and taxiway markings and lights	Runway:- Markings: Designation, Runway Threshold,Runway Touchdown Zone, Runway Centreline, Runway Aiming point,Runway side stripe markings Lights:Runway Threshold, Runway Touchdown Zone (RWY 28), Runway Approach, Runway Edge,Runway end and Runway centreline, Rapid exit taxiway indicator lights (RETIL). Taxiway:- Markings:Taxiway Centreline, Taxiway Side stripe, Intermediate Holding Position,Runway holding position, Enhanced taxiway centreline marking VOR check point marking on TWY A1 & TWY A9. Lights:Centre line lights, Intermediate Holding Position lights, taxiway edge lights on curves.
3	Stop bars (if any)	At Runway Holding Position:A1, A3 & A9
4	Remarks	1. RWY guard lights are available at each Runway and Taxiway intersection 2. An illuminated wind direction indicator in the form of truncated cone made of fabric of red and white color in bands have been installed at below mentioned 2 locations: • South of RWY 10, 281054.69 N 0773542.61E abeam GP Hut RWY 10 • South of RWY 28, 281032.88 N, 0773741.03E abeam GP Antenna RWY 28 3. No entry bar lights are provided on the TWYA6

VIND AD 2.10 AERODROME OBSTACLES

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation	Marking/LGT	Remarks
28/TKOF 10/APCH	OTHER	281107.3N 0773525.5E	666 FT	NIL	Mobile Road Traffic (Road Elev. 198.1 M. + Traffic Ht. 5.0 M.) Restricted to 4 m
28/APCH 10/TKOF	OTHER	281033.5N 0773813.6E	684 FT	LGTD	Lightning Arrester on DVOR Monitor Antenna
In circling area and at AD	NAVAID	281102.1N 0773546.2E	701 FT	LGTD	GP 10 Antenna
In circling area and at AD	NAVAID	281041.0N 0773740.7E	697 FT	LGTD	GP 28 Antenna
In circling area and at AD	NAVAID	281102.2N 0773546.3E	673 FT	LGTD	GP 10 DME Antenna
In circling area and at AD	NAVAID	281041.1N 0773740.7E	667 FT	LGTD	GP 28 DME Antenna
In circling area and at AD	BUILDING	281102.1N 0773546.5E	660 FT	Marked	GP 10 Hut
In circling area and at AD	BUILDING	281041.1N 0773740.5E	656 FT	Marked	GP 28 Hut

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation	Marking/LGT	Remarks
In circling area and at AD	NAVAID	281102.7N 0773543.0E	667 FT	LGTD	GP 10 Monitor Antenna
In circling area and at AD	NAVAID	281040.4N 0773744.0E	664 FT	LGTD	GP 28 Monitor Antenna
In circling area and at AD	OTHER	281041.0N 0773740.7E	699 FT	NIL	Lightning Arrester on GP 28
In circling area and at AD	OTHER	281041.1N 0773740.7E	669 FT	NIL	Lightning Arrester on GP 28 DME Antenna
In circling area and at AD	OTHER	281102.1N 0773546.2E	704 FT	NIL	Lightning Arrester on GP 10 Monitor Antenna
In circling area and at AD	OTHER	281040.4N 0773744.0E	665 FT	NIL	Lightning Arrester on GP 28 Monitor Antenna
In circling area and at AD	OTHER	281102.1N 0773546.2E	703 FT	NIL	Obstacle Light on GP 10 Antenna
In circling area and at AD	OTHER	281102.7N 0773543.0E	668 FT	NIL	Obstacle Light on GP 10 Monitor Antenna
In circling area and at AD	OTHER	281059.6N 0773549.3E	652 FT	NIL	PAPI Light
In circling area and at AD	ANTENNA	281048.3N 0773659.9E	652 FT	Marked	RVR MID Antenna (Base: 195.8 M)
In circling area and at AD	ANTENNA	281056.0N 0773536.1E	679 FT	LGTD	RVR Antenna RWY 10 Side (Base: 197.1 M)
In circling area and at AD	ANTENNA	281031.8N 0773747.7E	676 FT	LGTD	RVR Antenna RWY 28 Side (Base: 196.1 M)
In circling area and at AD	SIGN	281057.7N 0773531.4E	653 FT	NIL	Sign Board
In circling area and at AD	SIGN	281058.4N 0773537.2E	654 FT	NIL	Sign Board
In circling area and at AD	SIGN	281047.0N 0773639.5E	652 FT	NIL	Sign Board
In circling area and at AD	OTHER	281032.9N 0773741.0E	662 FT	LGTD	Windsock
In circling area and at AD	OTHER	281054.7N 0773542.6E	666 FT	LGTD	Windsock

VIND AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Name of the associated meteorological office	Aeronautical MET Station, Noida
2	Hours of service and, where applicable, the designation of the responsible meteorological office outside these hours	As per Operational Hours of the Airport. Responsible MET Office - AMO Lucknow / MWO Palam
3	Office responsible for preparation of TAFs and periods of validity and interval of issuance of the forecasts	AMO Lucknow
4	Availability of the trend forecast for the aerodrome and interval of issuance	Issued by AMO Lucknow and as per ICAO guidelines - Annex 3
5	Information on how briefing and/or consultation is provided	Manual and Online briefing system

6	Types of flight documentation supplied and language(s) used in flight documentation	Language - English Flight documentation as per ICAO guidelines of Met Services-Annex 3
7	Charts and other information displayed or available for briefing or consultation	Radar, Satellite
8	Supplementary equipment available for providing information on meteorological conditions, e.g. weather radar and receiver for satellite images;	Delhi Radar and Operational Satellite
9	The air traffic services unit(s) provided with meteorological information	Jewar ATS
10	Additional information, e.g. concerning any limitation of service.	NIL

VIND AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations	TRUE Bearings	Dimensions of RWY (M)	Strength of pavement (PCR) and associated data) and surface of runway and associated stopways	Geographical coordinates for threshold and runway end
1	2	3	4	5
10	101.74 DEG	3900 x 45 M	790/F/C/W/T Asphalt	THR: 281100.48N 0773532.77E RWY END: 281034.71N 0773752.69E
28	281.74 DEG	3900 x 45 M	790/F/C/W/T Asphalt	THR: 281034.71N 0773752.69E RWY END: 281100.48N 0773532.77E

THR elevation and highest elevation of TDZ of precision APP RWY	Slope of runway and associated stopway	Dimensions of stopway (M)	Dimensions of clearway (M)	Dimensions of strips (M)
6	7	8	9	10
THR: 652.5FT TDZ: 652.5FT	-0.02%	NIL	NIL	4020 x 280 M
THR: 650.0FT TDZ: 650.0FT	0.02%	NIL	NIL	4020 x 280 M

Dimensions of runway end safety areas	Location and description of arresting system (if any)	Existence of an obstacle-free zone	Remarks.
11	12	13	14
240M x 90M	NIL	AVBL	1. PCR and runway surface details: (i) From beginning up to 258M: 1180/R/C/W/T, Concrete (ii) From 258M up to 3487M: 790/F/C/W/T, Asphalt (iii) From 3487M up to 3900M: 1180/R/C/W/T, Concrete

Note-1: Adequate Visual Reference means, that a pilot is able to continuously identify the take-off surface and maintain directional control.
Note-2: For night operations at least, Runway edge lights or centre line lights and Runway end lights are available.
Note-3: An operator shall not conduct low visibility take-offs in less than 400m RVR unless approved by DGCA.
Note-4: An operator shall not conduct take-off with visibility / RVR less than Category-I conditions unless low visibility procedures are enforced.
Note-5: The required RVR must be achieved for all relevant RVR reporting points (touchdown, mid-point and stop-end/ rollout). The governing RVR shall be the lowest of the reported RVRs.

3.7.8.5 **Restrictions during LVTO:**

• TWY A1 & A9 will be used for entry onto the Runway.
• Entry via TWY A3 will be prohibited during LVTO.
• Intersection departures will be prohibited.
• Only one pushback will be permitted from passenger apron or cargo apron when either TDZ / MID / END RVR is less than 400 M.
• Follow me service shall be provided as per the request from flight crew or as instructed by ATC.
• Only essential vehicles with transponders shall be permitted in the manoeuvring area when LVTO is in force.

3.7.9 **Suspension of LVTO:**

When any of the light/equipment mentioned in table below becomes unserviceable or fails to meet the required standard during periods of LVTO, ADC/SMC shall advise the aircraft accordingly and LVTO shall be suspended and information to this effect shall be included in ATIS broadcast

AGL Facility	Un-serviceability	Effect / Restrictions / Remarks
Runway Edge lights	More than 15% of all lights are unserviceable.	Suspend LVTO
Runway End lights	More than 15% of all lights are unserviceable	Suspend LVTO.
Runway centre line lights	More than 15% of all lights are unserviceable	No impact / restrictions for LVTO

4 ISOLATED AIRCRAFT PARKING POSITION/ HIGH-POWER ENGINE RUN UP BAY

Stand Designation	Coordinates	Surface	PCR	Elevation	Aircraft Suitability	Location
IAPP	281053.284N 0773527.093E	Asphalt	790/F/C/W/T	649 FT	Up to Code Letter E	West of TWY A9 and TWY junction, facing west

4.1 The Isolated Aircraft Parking Position is in power-in/pushback configuration.
4.2 Fuel bowser will be used for re-fuelling
4.3 While aircraft is parked on this position under unlawful interference or bomb threat, the left turn from taxiway A towards IAPP is not permitted.
4.4 While aircraft is parked on this position under unlawful interference or bomb threat, the right turn from taxiway A9 towards IAPP is not permitted.
4.5 High power engine run up shall not be authorized if IAPP is occupied by an aircraft under unlawful interference or bomb threat
4.6 TWY A9 is not available while any aircraft is pushing back from IAPP on TWY A / TWY A9 facing west / south
4.7 High power engine run up shall be approved only during periods of lean air traffic movements as per the discretion of ATC.
4.8 Aircraft shall tow / taxi to TWY A9 and then will be pushed back via tow truck on IAPP facing east to carry out high power engine run up or as instructed by ATC.
4.9 Follow me service shall be provided while the aircraft is towing to/from IAPP.
4.10 High power engine run up shall be conducted only with prior approval from Apron Control

5.CONTINGENCY PROCEDURES FOR STOP-BAR OPERATIONS

a. Use of Stop-bars
To prevent runway incursions, stop-bars shall be used for operations in all weather conditions.
b. Stop-bar Locations
Runway Holding Positions at A1, A3, and A9 taxiways are equipped with stop-bars at Noida International Airport.
c. Control of Stop-bars
•Control of stop-bars will remain available in the ATC Tower at all times.
•The AGL maintenance team will not switch off the stop-bars unless required for urgent maintenance. In such cases, APOC will coordinate with the Tower Supervisor with adequate lead time.
•Normal operations will continue even if stop-bars are unavailable due to unserviceability or planned maintenance, except during LVP operations.
d. Stop-bar Operation for Aircraft Movement
The Tower Controller will switch off the respective stop-bar when permitting an aircraft to line up or cross the runway from the associated Runway Holding Position.
e. No Instruction to Disregard Stop-bars
Controllers shall never instruct pilots to disregard a stop-bar.
f. When a Stop-bar is Unserviceable
If a stop-bar becomes unserviceable and the aircraft is holding at the associated holding position or cannot be re-routed via another taxiway with a serviceable stop-bar, the Tower Controller shall:
•Provide a plausible explanation and issue clear, unambiguous, and positive clearance, for example:
"*ABC123, line up and wait Runway 28. Cross the red lights; I say again, cross the red lights due stop-bar unserviceable."*
"ABC123, cross the A1 stop-bar, unable to deselect due unserviceable."
•Conditional clearances shall not be used.
•If time permits, consider using a Follow-Me vehicle to guide the aircraft through the lit stop-bar.
g. If Stop-bar Control Is Not Available in the Tower
The Tower Controller shall coordinate with the AGL maintenance team through APOC to switch off the stop-bars until the fault is rectified

6.DETAILS OF HOTSPOTS AT NOIDA INTERNATIONAL AIRPORT

Hot Spot - Identifier	Location	Additional Information
HS-01	Junction of TWY-A & TWY-C6	Pilots taxing on C6 towards A to exercise caution for Aircraft taxing from or to taxiway A9
HS-02	Junction of TWY-A & TWY-C5	Pilots taxing on A to exercise caution and shall not cross abeam taxiway C5 until advised by ATC to taxi in order to maintain unilateral flow of traffic.

HS-03	Junction of RET-A6 & TWY-A	Pilots after landing on Runway 28 while vacating via taxiway A6 to ensure heightened attention for aircraft taxing on TWY A crossing abeam TWY A6
HS-04	Junction of TWY A3, TWY-A & TWY-L4	Pilots after landing on Runway 10 and vacating via taxiway A3 to exercise caution to aircraft movement on taxiway A. Pilots crossing the A-L4-A3 junction to exercise caution for opposite direction aircraft movement .
HS-05	Junction of TWY C-6 & TXL-C1 & C2	Pilots to exercise caution while joining TWY-C6 for traffic joining from TXL-C1/C2
Note: Verify clearances explicitly: Confirm "hold short" or crossing instructions with ATC before proceeding; read back includes hotspot location		

VIND AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VIND AD 2.22 FLIGHT PROCEDURES

NIL

VIND AD 2.23 ADDITIONAL INFORMATION

1. Taxiways Details:

S. No	Designation	PCR	Surface	Width (m)	Shoulder (m)	Suitability
1	TWY A	790/F/C/W/T	Asphalt	23	7.5	Code E
2	TWY A1	1180/R/C/W/T	Concrete	23	7.5	Code E
3	TWY A3	790/F/C/W/T	Asphalt	23	7.5	Code E
4	TWY A6	555/F/C/W/T	Asphalt	23	7.5	Code E
5	TWY A9	1180/R/C/W/T	Concrete	23	7.5	Code E
6	TWY B	1180/R/C/W/T	Concrete	23	7.5	Code E
7	TXL C1	1180/R/C/W/T	Concrete	15		Code C
8	TXL C2	1180/R/C/W/T	Concrete	15		Code C
9	TWY C5	790/F/C/W/T	Asphalt	23	7.5	Code E
10	TWY C6	790/F/C/W/T	Asphalt	23	7.5	Code E

11	TWY L4	790/F/C/W/T	Asphalt	23	7.5	Code E

2. Description of Equipment and Services

2.1 Runway Visual Range (RVR)

There are three forward scatter meters for RWY 28/10 to record RVR values. One forward scatter meter (FSM) is located each at touchdown zone, runway midpoint, and end of runway. RVR values always refer to Touchdown RVR (TDZ), Midpoint RVR(MID) and End RVR (END).

VIND AD 2.24 CHARTS RELATED TO AN AERODROME

1. Aerodrome Chart (14 May 2026)
2.Aerodrome Chart Hot Spot(14 May 2026)
3. Aircraft Parking/Docking Chart Apron-1 (11 June 2026)
4.Aircraft Parking/Docking Chart Cargo Apron (14 May 2026)
5. Aerodrome Obstacle Chart - Type A RWY 10 (19 March 2026)
6. Aerodrome Obstacle Chart - Type A RWY 28 (19 March 2026)
7. Aerodrome Obstacle Chart - Type B (19 March 2026)
8. Precision Approach Terrain Chart RWY 10 (22 January 2026)
9. Precision Approach Terrain Chart RWY 28 (22 January 2026)
10. ILS Critical and Sensitive Area Chart (14 May 2026)
11.TORA and LDA chart(22 January 2026)
12. Instrument Approach Chart – ILS OR LOC Y RWY 28, CAT II & CAT III (27 November 2025)
13. Instrument Approach Chart – ILS OR LOC Y RWY 10 (27 November 2025)
14. Instrument Approach Chart – RNP RWY 10 (27 November 2025)
15. Tabular Description 1 - RNP Procedure RWY 10 (27 November 2025)
16. Tabular Description 2 - RNP Procedure RWY 10 (27 November 2025)
17. Instrument Approach Chart – RNP RWY 28 (27 November 2025)
18. Tabular Description 1 - RNP Procedure RWY 28 (27 November 2025)
19. Tabular Description 2 - RNP Procedure RWY 28 (27 November 2025)

VIND AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

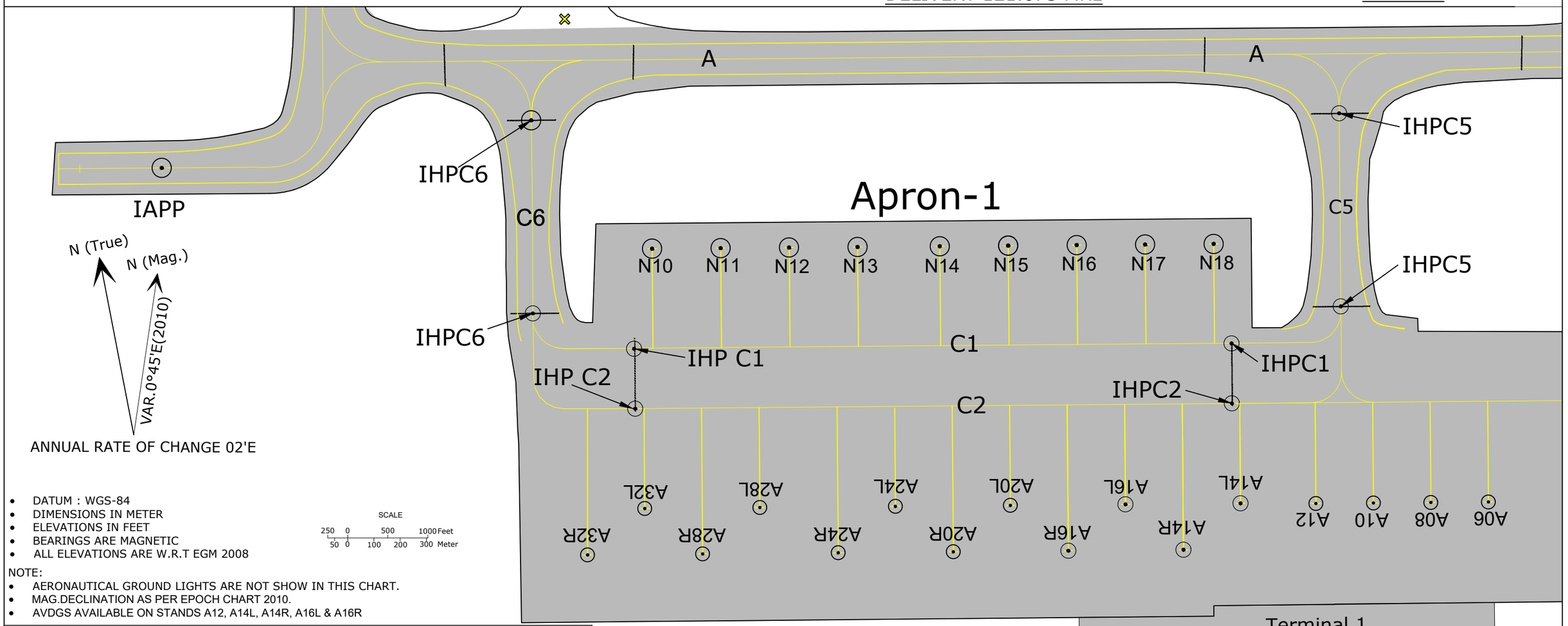
Procedure	Procedure Minima	VSS Penetration
1	**2**	**3**

AIRCRAFT PARKING / DOCKING CHART

APRON ELEV 652 Ft.

TWR 118.675 MHz
SMC 121.250 MHz
DELIVERY 121.075 MHz

NOIDA / INDIA
NOIDA INTERNATIONAL AIRPORT



N (True)
N (Mag.)
VAR.0°45'E(2010)

ANNUAL RATE OF CHANGE 02'E

- DATUM : WGS-84
- DIMENSIONS IN METER
- ELEVATIONS IN FEET
- BEARINGS ARE MAGNETIC
- ALL ELEVATIONS ARE W.R.T EGM 2008

SCALE
250 0 500 1000 Feet
50 0 100 200 300 Meter

NOTE:
- AERONAUTICAL GROUND LIGHTS ARE NOT SHOW IN THIS CHART.
- MAG.DECLINATION AS PER EPOCH CHART 2010.
- AVDGS AVAILABLE ON STANDS A12, A14L, A14R, A16L & A16R

APRON -1

AIRCRAFT STAND	REMOTE / CONTACT STAND	WGS 84 COORDINATES		SUITABILITY	STATUS	PCR	ELEV
		LATITUDE	LONGITUDE				
N10	Remote	28°10'48.951"N	077°35'39.458"E	Code C	POWER IN/ PUSH BACK	690/R/C/W/T	648 FT
N11	Remote	28°10'48.620"N	077°35'41.253"E	Code C	POWER IN/ PUSH BACK	690/R/C/W/T	648 FT
N12	Remote	28°10'48.290"N	077°35'43.047"E	Code C	POWER IN/ PUSH BACK	690/R/C/W/T	648 FT
N13	Remote	28°10'47.960"N	077°35'44.842"E	Code C	POWER IN/ PUSH BACK	690/R/C/W/T	648 FT
N14	Remote	28°10'47.564"N	077°35'46.994"E	Code C	POWER IN/ PUSH BACK	690/R/C/W/T	648 FT
N15	Remote	28°10'47.234"N	077°35'48.788"E	Code C	POWER IN/ PUSH BACK	690/R/C/W/T	648 FT
N16	Remote	28°10'46.902"N	077°35'50.582"E	Code C	POWER IN/ PUSH BACK	690/R/C/W/T	648 FT
N17	Remote	28°10'46.572"N	077°35'52.376"E	Code C	POWER IN/ PUSH BACK	690/R/C/W/T	648 FT

TAXIWAY	PCR	WIDTH
A	790/F/C/W/T	23M
A1	1180/R/C/W/T	23M
A6	555/F/C/W/T	23M
A9	1180/R/C/W/T	23M
C5	790/F/C/W/T	23M
C6	790/F/C/W/T	23M
A3	790/F/C/W/T	23M
B	1180 R/C/W/T	23 M
L4	790 F/C/W/T	23 M

APRON -1

AIRCRAFT STAND	REMOTE / CONTACT STAND	WGS 84 COORDINATES		SUITABILITY	STATUS	PCR	ELE
		LATITUDE	LONGITUDE				
N18	Remote	28°10'46.243"N	077°35'54.169"E	Code C	POWER IN/ PUSH BACK	690/R/C/W/T	648
A14L	Contact	28°10'40.099"N	077°35'53.404"E	Code C	POWER IN/ PUSH BACK	1180/R/C/W/T	651
A14R	Contact	28°10'39.311"N	077°35'51.648"E	Code C	POWER IN/ PUSH BACK	1180/R/C/W/T	652
A16L	Contact	28°10'40.653"N	077°35'50.390"E	Code C	POWER IN/ PUSH BACK	1180/R/C/W/T	651
A16R	Contact	28°10'39.868"N	077°35'48.633"E	Code C	POWER IN/ PUSH BACK	1180/R/C/W/T	652
A06	Remote	28°10'38.887"N	077°35'59.894"E	Code C	POWER IN/ PUSH BACK	686 R/C/W/T	651
A08	Remote	28°10'39.164"N	077°35'58.387"E	Code C	POWER IN/ PUSH BACK	686 R/C/W/T	651
A10	Remote	28°10'39.442"N	077°35'56.880"E	Code C	POWER IN/ PUSH BACK	686 R/C/W/T	651
A12	Contact	28°10'39.719"N	077°35'55.373"E	Code C	POWER IN/ PUSH BACK	686 R/C/W/T	651

APRON -1

AIRCRAFT STAND	REMOTE / CONTACT STAND	WGS 84 COORDINATES		SUITABILITY	STATUS	PCR	ELEV
		LATITUDE	LONGITUDE				
A20 L	Remote	28°10'41.208"N	077°35'47.375"E	Code C	POWER IN/ PUSH BACK	1180 R/C/W/T	651 FT
A20 R	Remote	28°10'40.420"N	077°35'45.619"E	Code C	POWER IN/ PUSH BACK	1180 R/C/W/T	652 FT
A24 L	Remote	28°10'41.763"N	077°35'44.361"E	Code C	POWER IN/ PUSH BACK	1180 R/C/W/T	651 FT
A24 R	Remote	28°10'40.975"N	077°35'42.604"E	Code C	POWER IN/ PUSH BACK	1180 R/C/W/T	652 FT
A28 L	Remote	28°10'42.417"N	077°35'40.809"E	Code C	POWER IN/ PUSH BACK	1180 R/C/W/T	651 FT
A28 R	Remote	28°10'41.630"N	077°35'39.052"E	Code C	POWER IN/ PUSH BACK	1180 R/C/W/T	652 FT
A32 L	Remote	28°10'42.972"N	077°35'37.795"E	Code C	POWER IN/ PUSH BACK	1180 R/C/W/T	651 FT
A32 R	Remote	28°10'42.185"N	077°35'36.038"E	Code C	POWER IN/ PUSH BACK	1180 R/C/W/T	652 FT
IAPP	Remote	28°10'53.284"N	077°35'27.093"E	Code E	POWER IN/ PUSH BACK	790/F/C/W/T	649 FT

LEGEND	
AIRCRAFT STAND	N15 ⊙
INTERMEDIATE HOLDING POSITION	----

DATE OF AERONAUTICAL INFORMATION APRIL 2026.

DRG.No. - Flight Ops/Noida International Airport/Parking and Docking Chart 04-26

NOIDA INTERNATIONAL AIRPORT

3	Taxiway edge and taxiway centre line lights;	Edge	AVBL
		Centre Line	
4	Secondary power supply including switch-over time;	Available with switch over time of 15 sec.	
5	Remarks	Nil	

VIPG AD 2.16 HELICOPTER LANDING AREA

1	Geographical coordinates of the geometric centre of touchdown and lift-off (TLOF) or of each threshold of final approach and take-off (FATO) area	Not established
2	TLOF and/or FATO area elevation:	---
3	TLOF and FATO area dimensions to the nearest metre or foot, surface type, bearing strength and marking;	---
4	True bearings of FATO;	---
5	Declared distances available	---
6	Approach and FATO lighting;	---
7	Remarks	---

VIPG AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	Not established
2	Vertical limits	Not established
3	Airspace classification	G
4	Call sign and language(s) of the air traffic services unit providing service;	Pithoragarh Tower, English
5	Transition altitude	
6	Hours of applicability	HO
7	Remarks	ATS Airspace/Transition Altitude is not established for Pithoragarh.

VIPG AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	**2**	**3**	**4**
TWR	Pithoragarh Tower	122.100 MHZ	
TWR	Pithoragarh Tower	122.550 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	**6**	**7**
	HO	MAIN
	HO	BACKUP

VIPG AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aids, magnetic variation and type of supported operation for ILS/ MLS, basic GNSS, SBAS and GBAS, and for VOR/ILS/MLS station used for technical lineup of the aid	Identification	Frequency(ies), Channel number(s), Service provider, and reference path identifier(s) (RPI), as appropriate	Hours of operation, as appropriate;
1	2	3	4

Geographical coordinates of the position of the transmitting antenna	Elevation of transmitting antenna of DME/ elevation of GBAS reference point	Service volume radius from the GBAS reference point	Remarks
5	6	7	8

VIPG AD 2.20 LOCAL AERODROME REGULATIONS

NIL

VIPG AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VIPG AD 2.22 FLIGHT PROCEDURES

1. Departure from Runway 32 is not permitted due to high hills in take-off path.
2. Arrival on Runway14 is not permitted due to high hills in approach path.
3. Circling Approach not permitted.

VIPG AD 2.23 ADDITIONAL INFORMATION

AIRCRAFT PARKING BAYS: 02 NOS.			APRON DIMENSION: 90M x 60M		
BAY NO.	WGS CO-ORDINATES		PCN	SUITABILITY	ELEVATION
1	293530.50 N	0801423.02 E	12/F/B/X/T	Do228	4923 FT
2	293532.39 N	0801421.41 E	12/F/B/X/T	Do228	4921 FT

VIPG AD 2.24 CHARTS RELATED TO AN AERODROME

1. Aerodrome Chart
2. Aircraft Parking/Docking Chart (13 June 2024)
3. Aerodrome Obstacle Chart Type A (Operating Limitations) RWY 14
4. Aerodrome Obstacle Chart Type A (Operating Limitations) RWY 32
5. Aerodrome Obstacle Chart Type B

VISM AD 2.23 ADDITIONAL INFORMATION

1. Objects of Vertical Significance around Shimla Aerodrome

S No.	Object	Top Elevation (M)	Horizontal Distance from ARP (M)	MAG. Bearing From ARP
1	Tree on Hill Top	2076	5150	60.00 DEG
2	Pylon Mast on Hill	2043	6175	70.75 DEG
3	Hill Top	2119	6625	76.25 DEG
4	House on Hill Top	2188	8425	113.50 DEG
5	Hill Top	2075	9450	135.50 DEG
6	Hill Top	1971	8250	141.25 DEG
7	Hill Top	1919	6900	143.50 DEG
8	Hill Top	1973	10050	162.00 DEG
9	Hill Top	2216	15250	169.75 DEG
10	Hill Top	1976	19075	179.75 DEG
11	TV Tower	1962	22975	204.75 DEG
12	Hill Top	1602	3825	231.50 DEG
13	Hill Top	2069	21400	304.75 DEG
14	Hill Top	1828	18425	324.00 DEG
15	Hill Top	1782	9325	343.75 DEG
16	Hill Top	1917	8375	008.50 DEG
17	Hill Top	1972	6150	030.25 DEG
18	Temple on Hill Top	2026	4625	053.00 DEG
19	Hill Top	1525	2125	255.75 DEG
20	Hill Top	1474	3300	133.00 DEG
21	Hill Top	1522	3250	332.00 DEG
22	Hill Top	1855	12700	357.75 DEG
23	ATC Tower	1562.2	450	342.00 DEG

VISM AD 2.24 CHARTS RELATED TO AN AERODROME

1. Aerodrome Chart(02 October 2025)
2. Aircraft Parking/Docking Chart(27 November 2025)
3. Aerodrome Obstacle Chart Type - A, (Operating Limitations) RWY 14/32
4. Aerodrome Obstacle Chart Type - B

VISM AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Procedure	Procedure Minima	VSS Penetration
1	2	3

III.SIDs FOR RWY 23

ROUTE DESIGNATOR	SID DESIGNATORS	ROUTING AFTER DEPARTURE	REMARK
W118	KERDA 1	Turn left climb on track 220 DEG M (R-220) to KERDA then to COCHIN INTL VOR DME (113.5 CIA).	
W43	LEDAT 1	Turn left climb on track 150 DEG M to establish R-186 to LEDAT then to ARONA.	
R461	MISAT 1	Turn left climb on track 087 DEG M to establish R-142 to MISAT then to MUDURAI VOR DME (116.1 MDI)	

VOCB AD 2.23 ADDITIONAL INFORMATION

i. Bird activity in and around airfield. Pilots to exercise caution while landing and takeoff.

ii. **Exemption Granted by DGCA:**

DGCA India has granted exemption vide letter dated 28.10.2024 for non-compliant width of runway strip for RWY 05/23 against provisions in CAR Section 4 Series B Part I Para 3.4.3 for the period up to 31.12.2026.

iii. Declared Distances from Taxiway A Intersection for RWY 05: TORA TODA ASDA
1995M 1995M 1995M .

iv. Declared Distances from Taxiway B Intersection for RWY 05: TORA TODA ASDA
1818M 1818M 1818M.

v. RWY Turn Pad, Capable of Handling B777-300 ER Type of aircraft, Provided at Both Ends of RWY 05/23 For Special Ops with Prior Permission. PCR of Turn Pad RWY 05/23: 554/F/B/W/T.

VOCB AD 2.24 CHARTS RELATED TO AN AERODROME

1. Aerodrome Chart (16 May 2024)
2. Aircraft Parking/Docking Chart (16 May 2024)
3. Aerodrome Obstacle Chart Type - A (Operating Limitations) RWY 05 (23 January 2025)
4. Aerodrome Obstacle Chart Type - A (Operating Limitations) RWY 23 (23 January 2025)
5. Instrument Approach Chart - VOR Procedure RWY 05 (27 November 2025)
6. ATC Surveillance Minimum Altitude Chart (17 April 2025)
7. Instrument Approach Chart - RNP Y Procedure RWY 23 (17 April 2025)
8. Coding Table - RNP Y Procedure RWY 23
9. Instrument Approach Chart - ILS or LOC (Y) Procedure RWY 23 (17 April 2025)
10. Instrument Approach Chart - ILS or LOC (Z) Procedure RWY 23 (17 April 2025)
11. Instrument Approach Chart - VOR Procedure RWY 23 (17 April 2025)

VOCB AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Procedure	Procedure Minima	VSS Penetration
1	2	3

Intentionally left blank

VOJV AD 2.16 HELICOPTER LANDING AREA

1	Geographical coordinates of the geometric centre of touchdown and lift-off (TLOF) or of each threshold of final approach and take-off (FATO) area	Not Established
2	TLOF and/or FATO area elevation:	Not Established
3	TLOF and FATO area dimensions to the nearest metre or foot, surface type, bearing strength and marking;	Not Established
4	True bearings of FATO;	Not Established
5	Declared distances available	Not Established
6	Approach and FATO lighting;	Not Established
7	Remarks	Only Runway to be used for Helicopter Landing and Take-off Purpose.

VOJV AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	CTR: Circular area centered on 151000N 0763800E within a 15NM radius.
2	Vertical limits	FL 65
3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	JINDAL VIJAYANAGAR TOWER, English
5	Transition altitude	5000 FT
6	Hours of applicability	HO
7	Remarks	NIL

VOJV AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	**2**	**3**	**4**
APP	Jindal Vijayanagar Tower	129.225 MHZ	
TWR	JINDAL VIJAYANAGAR TOWER	129.225 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	**6**	**7**
		1. Functions of APP combined with Tower.
		NIL

VOJV AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aids, magnetic variation and type of supported operation for ILS/ MLS, basic GNSS, SBAS and GBAS, and for VOR/ILS/MLS station used for technical lineup of the aid	Identification	Frequency(ies), Channel number(s), Service provider, and reference path identifier(s) (RPI), as appropriate	Hours of operation, as appropriate;
1	2	3	4
NDB	VN	217 kHz	AS ATS

Geographical coordinates of the position of the transmitting antenna	Elevation of transmitting antenna of DME/ elevation of GBAS reference point	Service volume radius from the GBAS reference point	Remarks
5	6	7	8
151033.7N 0763743.8E			Controlling Authority: Jindal Vijayanagar

VOJV AD 2.20 LOCAL AERODROME REGULATIONS

I. Limitation
i. Only two Aircraft (ATR-72) take-off/landing and Parking at a time is permitted for scheduled operations in Apron 01
ii. Additional 01 parking is for Code C aircraft is permitted in Apron 02..

II. Taxiing Procedures
i. Automatic Stand Guidance System nit available. Marshalling service will be provided by JSW Ground Handling Team at all stands. Aircraft to follow Taxiing guidance by ATC Tower.
ii. 180 degrees turn for aircraft on Apron/Taxiway/Runway is not allowed.
iii. 180 degrees turn may be allowed on both turning pads/dumbles under unavoidable circumstances.
iv. 180 degrees turn may be allowed for less than 5700Kgs (or smaller) type aircraft on the runway, at the intersection of runway with turning pad.

VOJV AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VOJV AD 2.22 FLIGHT PROCEDURES

i. Visual circling is prohibited due to high terrain.

VOJV AD 2.23 ADDITIONAL INFORMATION

i. DFMD and X-Ray Baggage Machine available in the Terminal Building.

VOJV AD 2.24 CHARTS RELATED TO AN AERODROME

1. Aerodrome Chart (22 JAN 2026)
2. Aircraft Parking/Docking Chart Apron 1 (22 JAN 2026)
3. Aircraft Parking/Docking Chart Apron 2 (22 JAN 2026)
4. Aerodrome Obstacle Type- A (Operating Limitation) RWY 13 (13 June 2024)

Dimensions of runway end safety areas	Location and description of arresting system (if any)	Existence of an obstacle-free zone	Remarks.
11	12	13	14
240M x 90M		NIL	i. Runway Longitudinal Slope 0-583M: 0.407% 560M-1175M: 0.383% 1175M - 2330M; 0.024% ii. Vertical Datum: EGM 08
240M x 90M		NIL	i. Runway Longitudinal Slope 0-1165M: 0.005% 1165M-1747M: 0.432% 1747M - 2330M: 0.407% ii. Vertical Datum: EGM 08

VOML AD 2.13 DECLARED DISTANCES

RWY Designator	Take-off run available TORA (M)	Take-off distance available TODA (M)	Accelerate distance available ASDA (M)	Landing distance available LDA (M)	Remarks (including runway entry or start point where alternative reduced declared distances have been declared)
1	2	3	4	5	6
06	2330	2330	2330	2330	
24	2330	2330	2330	2330	NIL

VOML AD 2.14 APPROACH AND RUNWAY LIGHTING

Runway Designator	Type, length and intensity of approach lighting system	Runway threshold lights, colour and wing bars	Type of visual slope indicator system	Length of runway touchdown zone lights
1	2	3	4	5
06	SALS 420 M LIH	Green	PAPI LEFT/3.00 DEG MEHT (50.44FT)	NIL
24	CAT I 914 M LIH	Green	PAPI LEFT/3.00 DEG MEHT (49.96FT)	NIL

Length, spacing, colour and intensity of runway centre line lights	Length, spacing, colour and intensity of runway edge lights	Colour of runway end lights and wing bars	Length and colour of stopway lights	Remarks
6	7	8	9	10
2330 M 30 M LIH White	2330 M 60 M White LIH	Red		i. RWY Edge Lights from threshold to the point 600M from RWY END - Variable White; Last 600M - Yellow. ii. RWY Centreline Light White, Last 300M Red, Between last 300 M to Last 900 M alternate Red and White iii. Wing Bars - Not Available.
2330 M 30 M LIH White	2330 M 60 M White LIH	Red		i. RWY Edge Lights from threshold to the point 600M from RWY END - Variable White; Last 600M - Yellow. ii. RWY Centerline Light White, Last 300M Red, between last 300 M to Last 900 M alternate Red and White iii. RWY Turn pad edge lights and flashing Runway Threshold Identification Lights (RTIL) are provided iv. Wing Bars - Not Available.

VOML AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Location, characteristics and hours of operation of aerodrome beacon/identification beacon (if any)	ABN	TOP OF CTL TWR WITH GREEN AND WHITE FLASHES. TOTAL 28 FLASHES PER MIN.
		IBN	NIL
2	Location and lighting (if any) of anemometer/ landing direction indicator;	LDI	in front of ATC TWR Lighted
		Anemometer	Located at MET park near TDZ RWY 24
3	Taxiway edge and taxiway centre line lights;	Edge	All TWY (Except TWY H)
		Centre Line	Not Available
4	Secondary power supply including switch-over time;	Secondary Power supply to all lighting at AD. Secondary Power supply switchover time less than one sec for both Primary and Secondary circuits of RWY24/06 THR/Edge/End light, PAPI 24 and PAPI 06, SALS RWY24 and RWY06, TWY light C and D	
5	Remarks	DG power Supply for other circuits with Switch over of 15 sec	

1. New Apron is not visible from Tower. Pilots should exercise caution when manoeuvring on the Apron due to the proximity of other aircraft, ground staff and equipment. Engine power should be restricted to the minimum required, to reduce the adverse effect of jet blast.
2. Entry into parking stands 5 to 16 will be through TWY 'E' and these stands are power in pushback. Parking stand number 13 does not exist.
3. Stands 8, 9, 10 are Mars-Multiple Aircraft Ramp System-type and the pattern of Taxi lead in lines require nose wheel steering while taxi into stand.
4. Advanced Visual Docking Guidance System (AVDGS) is available for stands 5, 6, 7, 8, 9 and 10. For all other stands marshalling service will be provided by operator/ ground handling agency.
5. Non-standard parking not allowed. No aircraft shall be parked beyond clear lines.
6. Only Idle Power Engine run is permitted on parking stands agency shall exercise all necessary ground precautions.
7. Simultaneous Push-back from adjacent Stands not permitted.
8. For Traffic planning requirements the estimated time for completion of pushback is 4 min and for engine start 2 min. Any delay shall be communicated to ATC.
9. Code D aircraft from stand 8 shall not push back beyond stop line near stand 7.
10. All aircraft proceeding to stands 5 to 16 to follow appropriate Stand lead-in lines from aircraft stand taxi lane. Parking stand number 13 does not exist.
11. Code D aircraft is not permitted on aircraft stand taxi lane west of stop line near Stand 7.
12. Code C aircrafts (A320, A321, B737 and Turbo prop) pushing back from Stand 5 and 6 shall be pulled forward abeam Stand 7 tow bar disconnection point for startup and thereafter TWY “E”.
13. Single engine run up on Idle power at stand will be permitted based on the request from the pilot and confirmation of adherence to all required ground safety measures by the aircraft operator. Overall responsibility rests with Aircraft operator.
14. Except Turboprop aircraft landing and Takeoff for aircraft code C & code D is not permitted on RWY 06/24 during RWY surface condition and Cross Windspeed condition mentioned below.
    a. Dry RWY Surface : Cross Windspeed of 15 KT or more.
    b. Any one third or more part of RWY surface is in WET conditions : Cross Windspeed of 10KT or more.

    Details of Windspeed may be obtained from ATC on RT or from ATIS broadcast. Pilots of turboprop aircraft to exercise caution during landing and Takeoff for Cross Windspeed of more than 10KT, when RWY surface WET and 15KT, when RWY surface DRY.

VOML AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VOML AD 2.22 FLIGHT PROCEDURES

ADS-B/PSR/MSSR based ATS Surveillance services are provided to suitably equipped aircraft BTN 0200-1400 UTC or AS PER NOTAM within the coverage area of Mangaluru Approach Control.

SSR Transponder/ADS-B equipped aircraft flying within Mangaluru Approach Control to comply with relevant provisions.

VOML AD 2.23 ADDITIONAL INFORMATION

1. At old apron 04 (four) power in power out stands are available to cater for aircraft type Code A, B and Code C (turboprop aircraft only) and helicopters.
2. TWY G9: Angle of turn-90 degrees connected to Runway 06 Threshold, Radius of exit curve -45M, Type of ACFT permitted-up to B767 – 400ER Marking and Lighting available.
3. New Apron: Location- North -West of RWY 06 beginning.
4. Ramp Equipment Area: 2100 sq. M on west side of new Apron and 810 sq. meters on East side of Apron.
5. WDI: Two (lighted)
   (i)Beginning of RWY 24
   (ii)Beginning of RWY 06
6. RWY 24 RESA 240X90M includes the existing paved area of 60 M
7. Bird activity in the vicinity of aerodrome. Pilots to exercise caution.
8. Fixed distance To Go markers (DTGM) for RWY 24 and RWY 06 are available on left side of RWY.
9. Pilots to identify RWY in use 24/06 positively before landing.
10. Remote controlled A/G FAC FREQ 127.55MHZ (Main) and 128.7MHZ (SDBY) VOML-VOHB is commissioned and AVBL for OPS.
11. ADS-B FREQ 1090 MHZ comissioned
    LAT: 12DEG 57MIN 32.7SEC N
    LONG: 74DEG 53MIN 15.2SEC E
12. **Exemptions Granted by DGCA:**

DGCA vide Ref. No. 2025/ASD/Exemption/0000003809 dated 11 Feb 2026, has granted Temporary Exemption to Mangaluru International Airport (MgIA) valid up to 30 Sep 2027 for the following:

1.Non-compliance of Runway Strip width of 150 M instead of 280 M.

2.Presence of group of trees located on southern side of RWY 06/24 infringing the Transitional Surface..

VOML AD 2.24 CHARTS RELATED TO AN AERODROME

1. Aerodrome Chart (11 June 2026)
2. Aircraft Parking/Docking Chart (13 June 2024)
3. Aerodrome Obstacle Chart Type – A (Operating Limitations) RWY 06 (02 October 2025)
4. Aerodrome Obstacle Chart Type – A (Operating Limitations) RWY 24 (02 October 2025)
5. Aerodrome Obstacle Chart - Type B (02 October 2025)
6. ILS (Z) Procedure RWY 24
7. VOR Procedure RWY 06
8. VOR Procedure RWY 24
9. ATC Surveillance Minimum Altitude Chart(16 APR 2026)
10. RNP Y Procedure RWY 06
11. Coding Table - RNP Y Procedure RWY 06
12. RNP Y Procedure RWY 24
13. Coding Table - RNP Y Procedure RWY 24

VOML AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Procedure	Procedure Minima	VSS Penetration
1	2	3

AERODROME CHART

ARP
12° 57' 43.42" N
074° 53' 23.23" E

ELEV. : 318 ft.

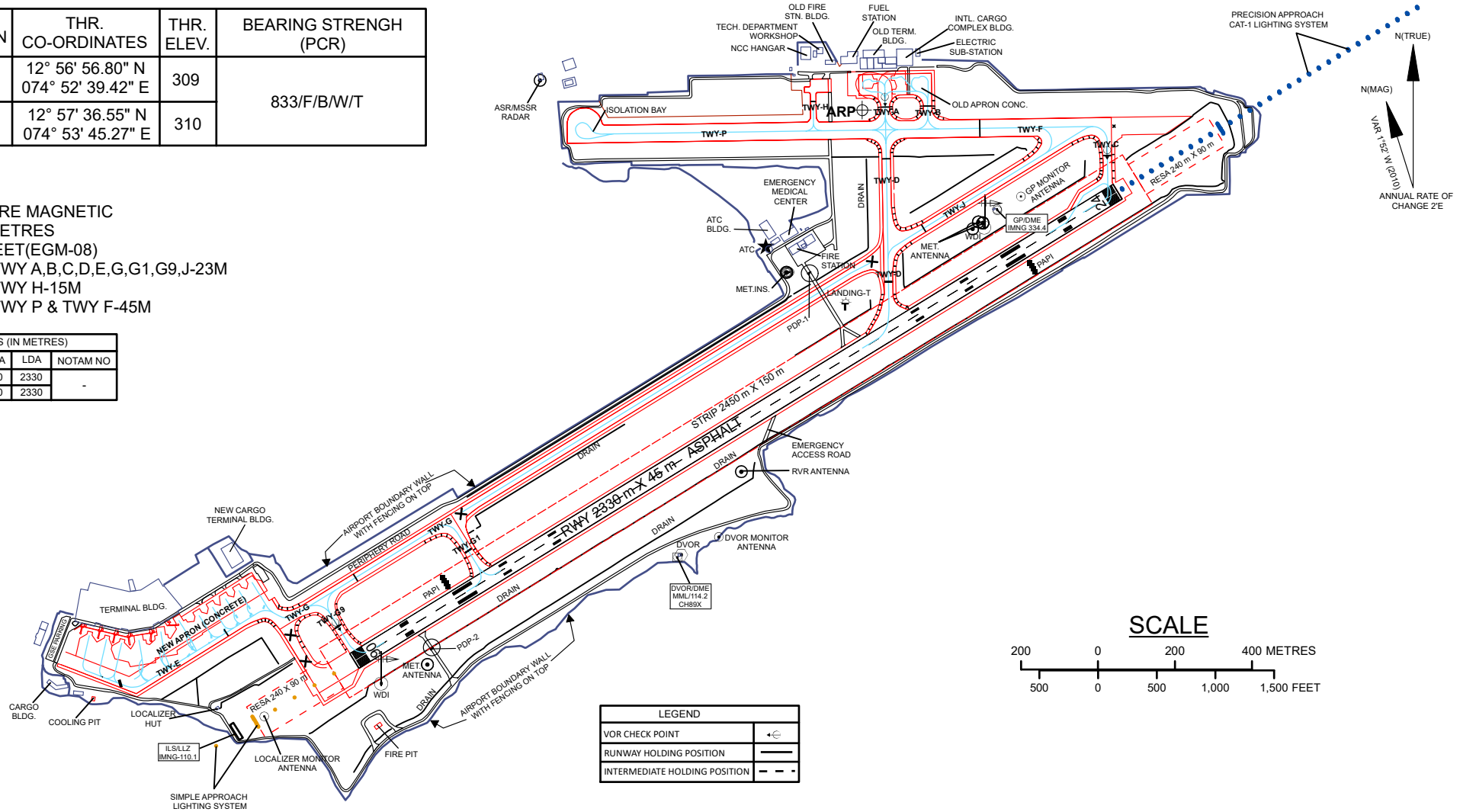
TWR 118.750
TWR 122.100

MANGALURU, INDIA
MANGALURU INTL. AIRPORT

RWY	DIRECTION	THR. CO-ORDINATES	THR. ELEV.	BEARING STRENGH (PCR)
06	060°	12° 56' 56.80" N 074° 52' 39.42" E	309	833/F/B/W/T
24	240°	12° 57' 36.55" N 074° 53' 45.27" E	310	

* DATUM: WGS 84
* RWY BEARINGS ARE MAGNETIC
* DIMENSIONS IN METRES
* ELEVATIONS IN FEET(EGM-08)
* TAXIWAY WIDTH-TWY A,B,C,D,E,G,G1,G9,J-23M
* TAXIWAY WIDTH-TWY H-15M
* TAXIWAY WIDTH-TWY P & TWY F-45M

DECLARED DISTANCES (IN METRES)					
RWY	TORA	TODA	ASDA	LDA	NOTAM NO
06	2330	2330	2330	2330	-
24	2330	2330	2330	2330	



SCALE

200 0 200 400 METRES
500 0 500 1,000 1,500 FEET

LEGEND	
VOR CHECK POINT	
RUNWAY HOLDING POSITION	
INTERMEDIATE HOLDING POSITION	

MARKING AIDS RUNWAY 06/24



NOTE:
1.AERONAUTICAL GROUND LIGHTS ARE NOT SHOWN IN THIS CHART.

VOND AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Location, characteristics and hours of operation of aerodrome beacon/identification beacon (if any)	ABN	At ATC Tower, Type L-802A with 20 flashes/min H24
		IBN	
2	Location and lighting (if any) of anemometer/ landing direction indicator;	LDI	SOUTH of RWY28, Lighted
		Anemometer	On ATC Tower
3	Taxiway edge and taxiway centre line lights;	Edge	Edge: Available Centre line: Nil
		Centre Line	
4	Secondary power supply including switch-over time;	400 KVA DG sets (2 No's) provided with switch over time of 13 seconds.	
5	Remarks		

VOND AD 2.16 HELICOPTER LANDING AREA

1	Geographical coordinates of the geometric centre of touchdown and lift-off (TLOF) or of each threshold of final approach and take-off (FATO) area	Not Established
2	TLOF and/or FATO area elevation:	Not Established
3	TLOF and FATO area dimensions to the nearest metre or foot, surface type, bearing strength and marking;	Not Established
4	True bearings of FATO;	Not Established
5	Declared distances available	Not Established
6	Approach and FATO lighting;	Not Established
7	Remarks	NIL

VOND AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	CTR: Circular area centered on 191052N 0771921E within a 10NM radius.
2	Vertical limits	FL 65
3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	Nanded Tower, English
5	Transition altitude	5000 FT
6	Hours of applicability	As per NOTAM
7	Remarks	1. CTR only during published operational Hrs. 2. Airspace classified as Class 'D' 3. Beyond Operational Hours Airspace 4. Classification is Class G

VOND AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	2	3	4
APP	Nanded Tower	118.750 MHZ	
TWR	Nanded Tower	118.750 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	6	7
	As per NOTAM	1.Main 2.Functions of Approach combined with Tower.
	As per NOTAM	NIL

VOND AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aids, magnetic variation and type of supported operation for ILS/ MLS, basic GNSS, SBAS and GBAS, and for VOR/ILS/MLS station used for technical lineup of the aid	Identification	Frequency(ies), Channel number(s), Service provider, and reference path identifier(s) (RPI), as appropriate	Hours of operation, as appropriate;
1	2	3	4
DVOR/DME	NDD	113.000 MHz CH77X	As ATS

Geographical coordinates of the position of the transmitting antenna	Elevation of transmitting antenna of DME/ elevation of GBAS reference point	Service volume radius from the GBAS reference point	Remarks
5	6	7	8
191043.9N 0772003.9E	1242 FT		1. DME Collocated with DVOR 2. Geoid Model: EGM-08

VOND AD 2.20 LOCAL AERODROME REGULATIONS

1. 180 Deg Turn on runway not permitted for all aircraft.

2. All aircraft to use Turn Pads of RWY 10 or RWY 28 at low power settings.

VOND AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VOND AD 2.22 FLIGHT PROCEDURES

AD 2. AERODROMES

VOPB AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VOPB - SRI VIJAYA PURAM AIRPORT, SRI VIJAYA PURAM [INDIAN NAVY]

NOTE: Aeronautical Data and Aeronautical Information published here under is as provided by Indian Navy

VOPB AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	Aerodrome reference point coordinates and its site	113850N 0924400E MAG. BRG. 222.75 DEG/ 876M from physical beginning of RWY 22	
2	Direction and distance of aerodrome reference point from the center of the city or town which the aerodrome serves	South West Direction 2.5 Km	
3	Aerodrome elevation and reference temperature	93 FT / DEG	
4	Magnetic variation, date of information and annual change	1.00 DEG W/ NIL	
5	Name of aerodrome operator, address, telephone, telefax, e-mail address, AFS address, website (if available)	The Commanding Officer INS Utkrosh C/o Navy Office Sri Vijaya Puram - 744103,	
		Telephone:	(91) 3192232385 (91) 8900968303
		Fax:	(91) 3192 239281 (91) 3192 232385
		AFS:	VOPBYDYX
		Email:	atc-utkroshportblair@navy.gov.in
6	Types of traffic permitted (IFR/VFR)	IFR/VFR	
7	Remarks	1. Aerodrome Reference Code 4D 2. Vertical Reference System: EGM08	

VOPB AD 2.3 OPERATIONAL HOURS

1	Aerodrome Operator	Indian Navy 0015-1045 UTC
2	Custom and immigration	0015-1045 UTC
3	Health and sanitation	0015-1045 UTC
4	AIS briefing office	0230 - 0830 UTC
5	ATS reporting office (ARO)	0230 - 0830 UTC
6	MET Briefing office	H24
7	Air Traffic Service	0015 - 1045 UTC
8	Fuelling	0030-1330 UTC
9	Handling	0015-1045 UTC
10	Security	Air Side Security: 0001-1430 UTC City Side Security: H24
11	De-icing	NIL
12	Remarks	SRI VIJAYA PURAM is a joint user military air station And all civil flights to/from SRI VIJAYA PURAM (VOPB) Operate only with prior approval. Civil aircraft operators not to File SRI VIJAYA PURAM (VOPB) as an alternate aerodrome unless Specifically cleared by the station authorities.

VOPB AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	Available with AAI
2	Fuel and Oil types	Available with AAI
3	Fuelling facilities and capacity	Available with AAI
4	De-icing facilities	Not Available
5	Hangar space for visiting aircraft	Not Available
6	Repair facilities for visiting aircraft	Not Available
7	Remarks	NIL

VOPB AD 2.5 PASSENGER FACILITIES

1	Hotel(s) at or in the vicinity of aerodrome	Available
2	Restaurant(s) at or in the vicinity of aerodrome	Available
3	Transportation possibilities	Prepaid Taxi counter available at Terminal
4	Medical Facilities	First Aid available at Aerodrome, City Hospital is at within a distance of 4 km
5	Bank and post office at or in the vicinity of aerodrome	Banks: ATM Counters available at Terminal Post office: Post Office Available in the city
6	Tourist office	Available at Terminal
7	Remarks	NIL

VOPB AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	Aerodrome category for fire fighting	Within ATS HR: CAT-7
2	Rescue equipment	Available as per category
3	Capability for removal of disabled aircraft	1. The critical aircraft for the airport is : A321 2. Primary responsibility for removal of disabled aircraft rests with the concerned airline. 3. The airlines may contact ‘Airport Director,Sri Vijaya Puram Airport’ for coordinating with the agencies having Disabled Aircraft Recovery Kit. 4. Contact Details of Airport Director for Removal of Disabled Aircraft operations: The Airport Director Tele: +91-3192-235619, Fax: +91-3192-233390 apc_vopb@aai.aero Asst. Manager (Operations) Tele: ++91-3192-244554 tm_portblair@aai.aero
4	Remarks	NIL

VOPB AD 2.7 SEASONAL AVAILABILITY CLEARING

1	Type(s) of clearing equipment	NIL
2	Clearance priorities	NIL
3	Remarks	NIL

VOPB AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Designation, surface and strength of aprons	Refer Aircraft Parking/Docking Chart
2	Designation, width, surface and strength of taxiways	Refer Aircraft Parking/Docking Chart

3	Location and elevation of altimeter checkpoints	NIL
4	Location of VOR checkpoints	On TWY W6: 113909.18N 0924413.70E, ELEV 47 FT On TWY E3: 113829.82N 0924350.80E, ELEV 11 FT On TWY E4: 113834.41N 0924354.74E, ELEV 13 FT
5	Position of INS checkpoints	NIL
6	Remarks	1. Coordinates of RWY Holding Positions TWY Coordinates Elevation W1 113849.28N 0924358.60E 19.54 FT W2 113853.80N 0924401.99E 23.36 FT W3 113857.88N 0924405.05E 25.84 FT W4 113903.62N 0924409.37E 37.54 FT W5 113905.77N 0924411.12E 41.99 FT W6 113905.11N 0924413.79E 46.98 FT E1 113817.46N 0924340.45E 21.98 FT E2 113820.92N 0924342.78E 15.98 FT E3 113829.88N 0924350.71E 10.99 FT E4 113834.51N 0924354.76E 12.99 FT 2. RWY-TWY Intersection Points TWY Coordinates Elevation W1 113847.5286N 0924401.0240E 12.60 FT W2 113852 .0342N 0924404.3936E 25.58 FT W3 113856 .1200N 0924407.4487E 31.50 FT W4 113901 .8810N 0924411.7565E 41.82 FT W5 113903 .7960N 0924413.1893E 42.00 FT W6 113907.5257N 0924415.9295E 50.98 FT E1 113818.3700N 0924339.2800E 21.98 FT E2 113821.7200N 0924341.7400E 15.98 FT E3 113831 .2508N 0924348.8474E 15.98 FT E4 113840.1475N 0924355.4949E 16.99 FT 3. All scheduled flights to adhere to their schedule timings. Delayed flights to obtain positive clearance from Sri Vijaya Puram ATC TWR before operation due to shortage of parking space at civil apron. 4. Vertical Reference System: EGM 08

VOPB AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand identification signs, taxiway guidelines and visual docking/parking guidance system at aircraft stands	Parking Guidelines and ID signs on Taxiway and stands, VDGS available Bay 10 to 12, Powerin/ Power-out Parking bays, Ground support available for Marshalling.
2	Runway and taxiway markings and lights	RWY Markings : Designation, THR, TDZ, Centre Line, Edge, Aiming Pont, Displaced THR, Turn pad, Transverse Stripe. RWY Lights : Edge, End, THR, RWY Centre Line, TDZ, PAPI. TWY Marking : Centre Line, Holding Position, VOR Checkpoint, Edge. TWY Lights : Edge
3	Stop bars (if any)	E1, E2 & W6
4	Remarks	Runway centre line lights (inset lights) available from RWY 04 till abeam W3 Taxi Track (2700 M)

VOPB AD 2.10 AERODROME OBSTACLES

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
22/TKOF 04/APCH	OTHER	113716.9N 0924301.5E	183 FT	NO	FLOOD LIGHT MAST
22/TKOF 04/APCH	BUILDING	113730.8N 0924259.8E	145 FT	NO	BUILDING
22/TKOF 04/APCH	BUILDING	113732.8N 0924258.5E	151 FT	NO	BUILDING
22/TKOF 04/APCH	TREE	113729.4N 0924257.8E	165 FT	NO	GROUP OF TREES
22/TKOF 04/APCH	TREE	113724.0N 0924255.1E	171 FT	NO	GROUP OF TREES
22/TKOF 04/APCH	BUILDING	113729.2N 0924253.1E	155 FT	NO	BUILDING
22/TKOF 04/APCH	OTHER	113651.7N 0924249.8E	231 FT	NO	GROUND LEVEL
22/TKOF 04/APCH	TREE	113654.6N 0924249.5E	276 FT	NO	GROUP OF TREES
22/TKOF 04/APCH	TREE	113653.0N 0924245.4E	253 FT	NO	GROUP OF TREES
22/TKOF 04/APCH	ANTENNA	113549.5N 0924215.1E	242 FT	NO	BIG DISH ANTENNA
22/TKOF 04/APCH	OTHER	113554.6N 0924150.7E	318 FT	NO	MAST
22/TKOF 04/APCH	FENCE	113733.4N 0924310.0E	129 FT	NO	FENCING
22/TKOF 04/APCH	POLE	113734.2N 0924311.8E	158 FT	NO	LIGHT POLE
22/TKOF 04/APCH	POLE	113734.1N 0924308.2E	140 FT	NO	LIGHT POLE
22/TKOF 04/APCH	POLE	113734.7N 0924307.1E	140 FT	NO	LIGHT POLE
22/TKOF 04/APCH	FENCE	113735.3N 0924307.0E	127 FT	NO	FENCING
22/TKOF 04/APCH	FENCE	113735.3N 0924312.3E	130 FT	NO	FENCING
22/TKOF 04/APCH	OTHER	113735.5N 0924307.1E	133 FT	NO	MOBILE ROAD TRAFFIC (ROAD ELEV. 35.6 M + 5 M TRAFFIC HEIGHT)
22/TKOF 04/APCH	TREE	113736.7N 0924314.0E	167 FT	NO	GROUP OF TREES
22/TKOF 04/APCH	POLE	113737.3N 0924304.5E	146 FT	NO	LIGHT POLE
22/TKOF 04/APCH	OTHER	113738.6N 0924315.8E	125 FT	NO	MOBILE ROAD TRAFFIC (ROAD ELEV. 33.1 M + 5 M TRAFFIC HT.)
22/TKOF 04/APCH	POLE	113738.7N 0924303.9E	155 FT	NO	LIGHT POLE
22/TKOF 04/APCH	OTHER	113739.0N 0924304.2E	146 FT	NO	SECURITY HUT
22/TKOF 04/APCH	BUILDING	113740.2N 0924316.6E	129 FT	NO	BUILDING

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
22/TKOF 04/APCH	FENCE	113740.6N 0924316.8E	123 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP
22/TKOF 04/APCH	OTHER	113740.7N 0924316.0E	121 FT	NO	SECURITY HUT
22/TKOF 04/APCH	FENCE	113741.7N 0924306.4E	138 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP
22/TKOF 04/APCH	POLE	113743.9N 0924307.7E	159 FT	NO	LIGHT POLE
22/TKOF 04/APCH	OTHER	113744.3N 0924307.4E	151 FT	NO	MOBILE ROAD TRAFFIC (ROAD ELEV. 41.0 M + 5 M TRAFFIC HEIGHT)
22/TKOF 04/APCH	FENCE	113744.9N 0924307.9E	145 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP
22/TKOF 04/APCH	OTHER	113745.0N 0924310.0E	112 FT	NO	GROUND LEVEL
22/TKOF 04/APCH	OTHER	113745.5N 0924308.6E	145 FT	NO	MOBILE ROAD TRAFFIC (ROAD ELEV. 39.2 M + 5 M TRAFFIC HEIGHT)
22/TKOF 04/APCH	FENCE	113745.9N 0924309.0E	140 FT	NO	FENCING
22/TKOF 04/APCH	OTHER	113732.1N 0924255.0E	144 FT	NO	MOBILE ROAD TRAFFIC (ROAD ELEV. 38.8 M + 5 M TRAFFIC HEIGHT)
22/APCH 04/TKOF	OTHER	113951.9N 0924448.0E	178 FT	NO	MAST
22/APCH 04/TKOF	OTHER	113933.4N 0924445.7E	340 FT	NO	MAST
22/APCH 04/TKOF	BUILDING	113953.6N 0924441.6E	206 FT	NO	BUILDING
22/APCH 04/TKOF	TREE	113941.2N 0924440.3E	267 FT	NO	GROUP OF TREES
22/APCH 04/TKOF	OTHER	113946.2N 0924438.0E	231 FT	NO	FLOOD LIGHT MAST
22/APCH 04/TKOF	BUILDING	113939.8N 0924435.7E	226 FT	NO	BUILDING
22/APCH 04/TKOF	BUILDING	113929.7N 0924433.0E	261 FT	NO	BUILDING
22/APCH 04/TKOF	TREE	113924.2N 0924431.8E	286 FT	NO	GROUP OF TREES
22/APCH 04/TKOF	OTHER	113929.1N 0924431.6E	292 FT	NO	L/C ROD ON BUILDING (BUILDING TOP - 81.5 M)
22/APCH 04/TKOF	ANTENNA	113928.9N 0924431.4E	293 FT	NO	BIG DISH ANTENNA

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
22/APCH 04/TKOF	BUILDING	113930.0N 0924431.3E	292 FT	NO	BUILDING
22/APCH 04/TKOF	TREE	113918.8N 0924431.1E	270 FT	NO	GROUP OF TREES
22/APCH 04/TKOF	OTHER	113919.2N 0924430.8E	264 FT	NO	OBSTRUCTION LIGHT
22/APCH 04/TKOF	TREE	113928.0N 0924430.4E	311 FT	NO	GROUP OF TREES
22/APCH 04/TKOF	SIGN	113919.3N 0924430.1E	259 FT	NO	SIGN BOARD ON HILL
22/APCH 04/TKOF	OTHER	113921.8N 0924429.7E	254 FT	NO	GROUND LEVEL
22/APCH 04/TKOF	POLE	113928.8N 0924429.1E	308 FT	NO	LIGHT POLE
22/APCH 04/TKOF	SIGN	113922.9N 0924429.0E	260 FT	NO	SIGN BOARD ON HILL
22/APCH 04/TKOF	BUILDING	113926.3N 0924427.6E	263 FT	NO	BUILDING
22/APCH 04/TKOF	OTHER	113927.8N 0924426.3E	293 FT	NO	GROUND LEVEL
22/APCH 04/TKOF	TREE	113929.3N 0924424.8E	382 FT	NO	GROUP OF TREES
22/APCH 04/TKOF	BUILDING	113911.0N 0924424.5E	121 FT	NO	BUILDING
22/APCH 04/TKOF	POLE	113911.2N 0924423.5E	113 FT	NO	LIGHT POLE
22/APCH 04/TKOF	FENCE	113912.6N 0924423.8E	82 FT	NO	FENCING
22/APCH 04/TKOF	POLE	113914.1N 0924424.9E	113 FT	NO	LIGHT POLE
22/APCH 04/TKOF	OTHER	113914.5N 0924421.2E	73 FT	NO	LOCALIZER MONITOR ANTENNA
22/APCH 04/TKOF	OTHER	113915.1N 0924418.2E	82 FT	NO	HUT TOP
22/APCH 04/TKOF	OTHER	113915.7N 0924425.3E	106 FT	NO	GROUND LEVEL
22/APCH 04/TKOF	POLE	113915.9N 0924424.4E	108 FT	NO	LIGHT POLE
22/APCH 04/TKOF	OTHER	113916.1N 0924426.3E	116 FT	NO	GROUND LEVEL
22/APCH 04/TKOF	OTHER	113916.1N 0924416.5E	102 FT	NO	MOBILE ROAD TRAFFIC (ROAD ELEV. 26.0 M + 5 M TRAFFIC HEIGHT)
22/APCH 04/TKOF	OTHER	113916.1N 0924426.8E	148 FT	NO	SECURITY HUT
22/APCH 04/TKOF	POLE	113916.2N 0924423.3E	83 FT	NO	POLE NEAR LOCALIZER
22/APCH 04/TKOF	POLE	113916.3N 0924418.1E	122 FT	NO	LIGHT POLE
22/APCH 04/TKOF	OTHER	113916.4N 0924423.3E	85 FT	NO	L/C ROD NEAR LOCALIZER

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
22/APCH 04/TKOF	FENCE	113916.6N 0924427.0E	144 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP
22/APCH 04/TKOF	FENCE	113916.6N 0924416.8E	106 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP
22/APCH 04/TKOF	OTHER	113916.7N 0924422.8E	83 FT	NO	LOCALIZER ANTENNA POLE TOP (ANTENNA TOP 23.8 M)
22/APCH 04/TKOF	FENCE	113916.7N 0924419.4E	106 FT	NO	FENCING
22/APCH 04/TKOF	POLE	113916.8N 0924423.6E	105 FT	NO	LIGHT POLE
22/APCH 04/TKOF	POLE	113916.9N 0924422.4E	83 FT	NO	POLE NEAR LOCALIZER
22/APCH 04/TKOF	OTHER	113917.0N 0924425.7E	125 FT	NO	GROUND LEVEL
22/APCH 04/TKOF	FENCE	113917.0N 0924423.1E	95 FT	NO	FENCING
22/APCH 04/TKOF	OTHER	113917.0N 0924422.3E	85 FT	NO	L/C ROD NEAR LOCALIZER
22/APCH 04/TKOF	OTHER	113917.1N 0924422.2E	88 FT	NO	ADS-B ANTENNA (L)
22/APCH 04/TKOF	BUILDING	113917.1N 0924428.5E	173 FT	NO	BUILDING
22/APCH 04/TKOF	OTHER	113917.2N 0924422.1E	81 FT	NO	LOCALIZER HUT
22/APCH 04/TKOF	OTHER	113917.2N 0924422.2E	87 FT	NO	L/C ROD NEAR LOCALIZER
22/APCH 04/TKOF	OTHER	113917.3N 0924423.3E	105 FT	NO	MOBILE ROAD TRAFFIC (ROAD ELEV 27.1 M + 5 M TRAFFIC HEIGHT)
22/APCH 04/TKOF	OTHER	113917.4N 0924424.9E	115 FT	NO	GROUND LEVEL
22/APCH 04/TKOF	TREE	113917.5N 0924419.0E	142 FT	NO	GROUP OF TREES
22/APCH 04/TKOF	POLE	113917.7N 0924422.5E	106 FT	NO	LIGHT POLE
22/APCH 04/TKOF	OTHER	113917.8N 0924423.8E	108 FT	NO	GROUND LEVEL
22/APCH 04/TKOF	OTHER	113917.9N 0924431.6E	233 FT	NO	MOBILE ROAD TRAFFIC (ROAD ELEV. 65.9 M + 5 M TRAFFIC HEIGHT)
22/APCH 04/TKOF	FENCE	113918.0N 0924422.0E	103 FT	NO	FENCING
22/APCH 04/TKOF	OTHER	113918.1N 0924423.3E	97 FT	NO	GROUND LEVEL
22/APCH 04/TKOF	POLE	113918.2N 0924430.9E	243 FT	NO	LIGHT POLE

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
22/APCH 04/TKOF	POLE	113918.2N 0924420.7E	121 FT	NO	LIGHT POLE
22/APCH 04/TKOF	FENCE	113918.4N 0924424.1E	126 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP
22/APCH 04/TKOF	POLE	113918.6N 0924420.1E	147 FT	NO	LIGHT POLE
22/APCH 04/TKOF	POLE	113918.7N 0924429.8E	247 FT	NO	ELECTRIC POLE
22/APCH 04/TKOF	OTHER	113919.1N 0924420.6E	136 FT	NO	SECURITY HUT
22/APCH 04/TKOF	OTHER	113919.5N 0924421.5E	125 FT	NO	GROUND LEVEL
22/APCH 04/TKOF	OTHER	113919.7N 0924422.5E	135 FT	NO	HUT TOP
22/APCH 04/TKOF	OTHER	113920.1N 0924421.2E	143 FT	NO	GROUND LEVEL
22/APCH 04/TKOF	FENCE	113920.4N 0924421.1E	160 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP
22/APCH 04/TKOF	TREE	113920.4N 0924425.7E	203 FT	NO	GROUP OF TREES
22/APCH 04/TKOF	POLE	113920.5N 0924428.6E	244 FT	NO	ELECTRIC POLE
22/APCH 04/TKOF	TREE	113921.3N 0924421.4E	263 FT	NO	GROUP OF TREES
22/APCH 04/TKOF	POLE	113921.7N 0924428.8E	248 FT	NO	ELECTRIC POLE
22/APCH 04/TKOF	POLE	113922.7N 0924428.4E	248 FT	NO	ELECTRIC POLE
22/APCH 04/TKOF	OTHER	113923.9N 0924428.2E	255 FT	NO	MOBILE ROAD TRAFFIC (ROAD ELEV. 72.8 M + 5 M TRAFFIC HEIGHT)
22/APCH 04/TKOF	TREE	113924.4N 0924423.7E	260 FT	NO	GROUP OF TREES
22/APCH 04/TKOF	TREE	113924.5N 0924427.8E	267 FT	NO	GROUP OF TREES
22/APCH 04/TKOF	BUILDING	113926.7N 0924425.1E	257 FT	NO	BUILDING
22/APCH 04/TKOF	OTHER	113928.3N 0924423.1E	264 FT	NO	MOBILE ROAD TRAFFIC (ROAD ELEV. 75.5 M + 5 M TRAFFIC HEIGHT)
In circling area and at AD	OTHER	113754.2N 0924317.0E	94 FT	NO	HUT TOP
In circling area and at AD	ANTENNA	113754.3N 0924317.2E	90 FT	NO	MET ANTENNA
In circling area and at AD	OTHER	113754.7N 0924317.6E	92 FT	NO	RVR ANTENNA

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	OTHER	113754.8N 0924316.5E	114 FT	NO	WDI
In circling area and at AD	ANTENNA	113755.4N 0924317.7E	109 FT	NO	MET ANTENNA
In circling area and at AD	OTHER	113755.5N 0924318.1E	92 FT	NO	RVR ANTENNA
In circling area and at AD	OTHER	113756.1N 0924318.3E	96 FT	NO	HUT TOP
In circling area and at AD	POLE	113756.2N 0924317.7E	118 FT	NO	LIGHT POLE
In circling area and at AD	FENCE	113756.6N 0924318.1E	94 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP
In circling area and at AD	OTHER	113756.7N 0924327.1E	98 FT	NO	SECURITY HUT
In circling area and at AD	OTHER	113757.2N 0924318.7E	81 FT	NO	GROUND LEVEL
In circling area and at AD	POLE	113757.2N 0924319.0E	112 FT	NO	LIGHT POLE
In circling area and at AD	FENCE	113758.2N 0924319.8E	88 FT	NO	FENCING
In circling area and at AD	POLE	113758.8N 0924320.6E	104 FT	NO	LIGHT POLE
In circling area and at AD	BUILDING	113800.9N 0924330.2E	73 FT	NO	BUILDING
In circling area and at AD	POLE	113801.4N 0924322.6E	96 FT	NO	LIGHT POLE
In circling area and at AD	TREE	113716.7N 0924305.2E	173 FT	NO	GROUP OF TREES
In circling area and at AD	TREE	113658.0N 0924255.0E	202 FT	NO	GROUP OF TREES
In circling area and at AD	FENCE	113739.9N 0924317.6E	123 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP
In circling area and at AD	BUILDING	113741.4N 0924322.9E	176 FT	NO	BUILDING
In circling area and at AD	OTHER	113741.6N 0924326.0E	227 FT	NO	OHWT ON HILL
In circling area and at AD	BUILDING	113741.7N 0924327.0E	224 FT	NO	BUILDING
In circling area and at AD	FENCE	113742.6N 0924319.6E	139 FT	NO	FENCING
In circling area and at AD	OTHER	113742.7N 0924319.3E	135 FT	NO	SECURITY HUT
In circling area and at AD	POLE	113743.1N 0924320.6E	152 FT	NO	LIGHT POLE
In circling area and at AD	BUILDING	113743.5N 0924322.4E	151 FT	NO	BUILDING
In circling area and at AD	BUILDING	113744.3N 0924326.7E	210 FT	NO	BUILDING

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	FENCE	113744.7N 0924321.1E	139 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP
In circling area and at AD	POLE	113744.8N 0924321.0E	150 FT	NO	LIGHT POLE
In circling area and at AD	OTHER	113744.8N 0924321.0E	119 FT	NO	GROUND LEVEL
In circling area and at AD	BUILDING	113744.9N 0924327.2E	195 FT	NO	BUILDING
In circling area and at AD	BUILDING	113745.1N 0924326.7E	172 FT	NO	BUILDING
In circling area and at AD	BUILDING	113745.3N 0924323.4E	173 FT	NO	BUILDING
In circling area and at AD	TREE	113745.5N 0924306.8E	219 FT	NO	GROUP OF TREES
In circling area and at AD	BUILDING	113745.6N 0924323.7E	177 FT	NO	BUILDING
In circling area and at AD	OTHER	113746.0N 0924325.7E	152 FT	NO	SINTEX TANK ON BUILDING (BUILDING TOP - 43.6 M)
In circling area and at AD	BUILDING	113746.1N 0924307.5E	156 FT	NO	BUILDING
In circling area and at AD	OTHER	113746.3N 0924328.0E	201 FT	NO	SINTEX TANK ON BUILDING (BUILDING TOP - 60.1 M)
In circling area and at AD	BUILDING	113746.7N 0924307.6E	158 FT	NO	BUILDING
In circling area and at AD	BUILDING	113746.8N 0924330.8E	199 FT	NO	BUILDING
In circling area and at AD	BUILDING	113746.9N 0924306.4E	177 FT	NO	BUILDING
In circling area and at AD	BUILDING	113747.0N 0924329.8E	194 FT	NO	BUILDING (U/C)
In circling area and at AD	BUILDING	113747.7N 0924326.5E	137 FT	NO	BUILDING
In circling area and at AD	BUILDING	113747.8N 0924303.5E	196 FT	NO	BUILDING
In circling area and at AD	BUILDING	113748.0N 0924330.7E	175 FT	NO	BUILDING
In circling area and at AD	OTHER	113748.1N 0924323.3E	101 FT	NO	GROUND LEVEL
In circling area and at AD	OTHER	113748.3N 0924323.7E	119 FT	NO	SECURITY HUT
In circling area and at AD	BUILDING	113748.3N 0924308.3E	166 FT	NO	BUILDING
In circling area and at AD	BUILDING	113748.4N 0924309.8E	146 FT	NO	BUILDING
In circling area and at AD	TREE	113748.5N 0924324.9E	156 FT	NO	GROUP OF TREES

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	FENCE	113748.5N 0924324.1E	116 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP
In circling area and at AD	POLE	113748.7N 0924309.5E	161 FT	NO	LIGHT POLE
In circling area and at AD	BUILDING	113748.8N 0924308.6E	171 FT	NO	BUILDING
In circling area and at AD	OTHER	113749.1N 0924310.4E	161 FT	NO	STRUCTURE
In circling area and at AD	BUILDING	113749.1N 0924327.1E	125 FT	NO	BUILDING
In circling area and at AD	POLE	113749.9N 0924325.1E	114 FT	NO	LIGHT POLE
In circling area and at AD	BUILDING	113750.0N 0924310.5E	146 FT	NO	BUILDING
In circling area and at AD	BUILDING	113750.6N 0924311.0E	148 FT	NO	BUILDING
In circling area and at AD	BUILDING	113750.8N 0924336.1E	215 FT	NO	BUILDING
In circling area and at AD	POLE	113751.0N 0924325.9E	110 FT	NO	LIGHT POLE
In circling area and at AD	BUILDING	113751.0N 0924309.7E	165 FT	NO	BUILDING
In circling area and at AD	FENCE	113751.7N 0924311.3E	140 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP
In circling area and at AD	TREE	113751.7N 0924327.4E	158 FT	NO	GROUP OF TREES
In circling area and at AD	POLE	113751.7N 0924311.5E	159 FT	NO	LIGHT POLE
In circling area and at AD	BUILDING	113751.8N 0924310.3E	169 FT	NO	BUILDING
In circling area and at AD	FENCE	113752.0N 0924327.4E	118 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP
In circling area and at AD	BUILDING	113752.1N 0924332.0E	165 FT	NO	BUILDING
In circling area and at AD	OTHER	113752.3N 0924326.5E	92 FT	NO	GROUND LEVEL
In circling area and at AD	BUILDING	113752.8N 0924335.1E	189 FT	NO	BUILDING
In circling area and at AD	OTHER	113753.3N 0924313.3E	137 FT	NO	SECURITY HUT
In circling area and at AD	BUILDING	113753.9N 0924338.9E	226 FT	NO	BUILDING (U/C)
In circling area and at AD	POLE	113754.4N 0924327.4E	98 FT	NO	LIGHT POLE
In circling area and at AD	BUILDING	113754.9N 0924314.0E	132 FT	NO	BUILDING
In circling area and at AD	BUILDING	113755.1N 0924329.5E	94 FT	NO	BUILDING (U/C)

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	BUILDING	113755.6N 0924314.4E	136 FT	NO	BUILDING
In circling area and at AD	BUILDING	113755.7N 0924314.9E	153 FT	NO	BUILDING
In circling area and at AD	BUILDING	113755.8N 0924330.4E	96 FT	NO	BUILDING
In circling area and at AD	BUILDING	113756.1N 0924315.8E	134 FT	NO	BUILDING
In circling area and at AD	BUILDING	113756.6N 0924314.8E	153 FT	NO	BUILDING
In circling area and at AD	BUILDING	113756.8N 0924317.0E	133 FT	NO	BUILDING
In circling area and at AD	TREE	113757.1N 0924330.0E	140 FT	NO	GROUP OF TREES
In circling area and at AD	BUILDING	113758.2N 0924317.2E	125 FT	NO	BUILDING
In circling area and at AD	BUILDING	113759.9N 0924318.6E	114 FT	NO	BUILDING
In circling area and at AD	ANTENNA	113800.1N 0924315.0E	164 FT	NO	ANTENNA ON BUILDING (BUILDING TOP - 42.0 M)
In circling area and at AD	OTHER	113800.9N 0924315.5E	165 FT	NO	MAST
In circling area and at AD	BUILDING	113801.5N 0924316.5E	130 FT	NO	BUILDING
In circling area and at AD	BUILDING	113802.0N 0924316.3E	134 FT	NO	TEMPLE
In circling area and at AD	BUILDING	113802.0N 0924319.9E	108 FT	NO	BUILDING
In circling area and at AD	BUILDING	113803.7N 0924317.9E	134 FT	NO	BUILDING
In circling area and at AD	BUILDING	113803.9N 0924321.0E	103 FT	NO	BUILDING
In circling area and at AD	TREE	113804.6N 0924316.6E	166 FT	NO	GROUP OF TREES
In circling area and at AD	BUILDING	113805.6N 0924317.9E	145 FT	NO	BUILDING
In circling area and at AD	OTHER	113732.8N 0924248.2E	246 FT	NO	STAR RADAR L/C ROD TOP (RADAR TOP - 73.7 M , BUILDING TOP - 68.4 M)
In circling area and at AD	OTHER	113746.8N 0924336.3E	281 FT	NO	MAST
In circling area and at AD	OTHER	113656.7N 0924309.4E	253 FT	NO	OHWT ON HILL
In circling area and at AD	BUILDING	113652.8N 0924256.5E	246 FT	NO	BUILDING
In circling area and at AD	OTHER	113749.0N 0924255.4E	247 FT	NO	MAST
In circling area and at AD	TREE	113624.9N 0924245.7E	385 FT	NO	GROUP OF TREES

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	OTHER	113627.4N 0924242.5E	315 FT	NO	GROUND LEVEL
In circling area and at AD	TREE	113626.0N 0924242.0E	369 FT	NO	GROUP OF TREES
In circling area and at AD	OTHER	113856.2N 0924411.1E	41 FT	NO	HUT TOP
In circling area and at AD	ANTENNA	113856.4N 0924411.2E	64 FT	NO	MET ANTENNA
In circling area and at AD	OTHER	113856.6N 0924410.7E	45 FT	NO	RVR ANTENNA
In circling area and at AD	OTHER	113857.3N 0924411.4E	45 FT	NO	RVR ANTENNA
In circling area and at AD	FENCE	113859.3N 0924413.9E	57 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP
In circling area and at AD	POLE	113900.4N 0924414.7E	77 FT	NO	LIGHT POLE
In circling area and at AD	FENCE	113904.6N 0924418.0E	74 FT	NO	AIRPORT BOUNDARY WALL WITH FENCING ON TOP
In circling area and at AD	POLE	113904.9N 0924418.2E	94 FT	NO	LIGHT POLE
In circling area and at AD	FENCE	113905.8N 0924418.6E	78 FT	NO	FENCING
In circling area and at AD	POLE	113906.0N 0924419.5E	103 FT	NO	LIGHT POLE
In circling area and at AD	POLE	113907.2N 0924420.5E	114 FT	NO	LIGHT POLE
In circling area and at AD	POLE	113907.8N 0924421.0E	116 FT	NO	LIGHT POLE
In circling area and at AD	TREE	113909.6N 0924423.2E	171 FT	NO	GROUP OF TREES
In circling area and at AD	POLE	113909.9N 0924422.5E	111 FT	NO	LIGHT POLE
In circling area and at AD	BUILDING	113936.4N 0924454.8E	252 FT	NO	BUILDING
In circling area and at AD	OTHER	113937.7N 0924453.3E	281 FT	NO	MAST
In circling area and at AD	TREE	113933.5N 0924450.7E	284 FT	NO	GROUP OF TREES
In circling area and at AD	BUILDING	113932.5N 0924449.1E	243 FT	NO	BUILDING
In circling area and at AD	OTHER	113931.4N 0924446.9E	278 FT	NO	FLOOD LIGHT MAST
In circling area and at AD	OTHER	113924.0N 0924442.0E	356 FT	NO	MAST
In circling area and at AD	ANTENNA	113920.3N 0924437.4E	294 FT	NO	ANTENNA ON BUILDING
In circling area and at AD	OTHER	113958.4N 0924435.4E	202 FT	NO	MAST
In circling area and at AD	BUILDING	113854.0N 0924422.3E	192 FT	NO	BUILDING ON HILL

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	OTHER	113854.6N 0924413.4E	129 FT	LGTD	LIGHT ON BUILDING (BUILDING TOP - =38.5 M)
In circling area and at AD	POLE	113856.3N 0924414.4E	94 FT	NO	LIGHT POLE
In circling area and at AD	BUILDING	113856.7N 0924423.9E	177 FT	NO	BUILDING
In circling area and at AD	BUILDING	113858.0N 0924422.9E	156 FT	NO	BUILDING
In circling area and at AD	BUILDING	113858.9N 0924423.4E	167 FT	NO	BUILDING
In circling area and at AD	BUILDING	113859.8N 0924422.2E	136 FT	NO	BUILDING (U/C)
In circling area and at AD	TREE	113903.0N 0924422.1E	207 FT	NO	GROUP OF TREES
In circling area and at AD	BUILDING	113904.2N 0924431.0E	254 FT	NO	BUILDING
In circling area and at AD	BUILDING	113904.9N 0924427.0E	221 FT	NO	BUILDING
In circling area and at AD	BUILDING	113905.7N 0924433.3E	279 FT	NO	BUILDING
In circling area and at AD	BUILDING	113905.8N 0924430.3E	215 FT	NO	BUILDING
In circling area and at AD	TREE	113905.8N 0924426.0E	249 FT	NO	GROUP OF TREES
In circling area and at AD	BUILDING	113909.0N 0924423.1E	120 FT	NO	BUILDING
In circling area and at AD	OTHER	113909.1N 0924410.6E	69 FT	NO	SHED TOP
In circling area and at AD	TREE	113909.6N 0924434.9E	302 FT	NO	GROUP OF TREES
In circling area and at AD	BUILDING	113910.0N 0924427.3E	148 FT	NO	BUILDING
In circling area and at AD	BUILDING	113916.1N 0924430.3E	184 FT	NO	BUILDING
In circling area and at AD	POLE	113916.5N 0924416.5E	116 FT	NO	LIGHT POLE
In circling area and at AD	POLE	113916.7N 0924414.9E	102 FT	NO	LIGHT POLE
In circling area and at AD	BUILDING	113925.3N 0924411.6E	202 FT	NO	BUILDING ON HILL
In circling area and at AD	TREE	113927.7N 0924416.9E	329 FT	NO	GROUP OF TREES
In circling area and at AD	OTHER	113937.6N 0924507.4E	310 FT	NO	MAST
In circling area and at AD	OTHER	113935.9N 0924504.9E	325 FT	NO	MAST
In circling area and at AD	OTHER	114026.9N 0924445.3E	265 FT	NO	MAST
In circling area and at AD	ANTENNA	113908.8N 0924437.5E	296 FT	NO	ANTENNA ON BUILDING

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	ANTENNA	113909.0N 0924436.6E	286 FT	NO	ANTENNA ON BUILDING
In circling area and at AD	TREE	113904.4N 0924434.5E	290 FT	NO	GROUP OF TREES
In circling area and at AD	TREE	113943.3N 0924414.3E	310 FT	NO	GROUP OF TREES
In circling area and at AD	TREE	113936.1N 0924411.6E	358 FT	NO	GROUP OF TREES
In circling area and at AD	OTHER	113934.3N 0924411.3E	308 FT	NO	MAST
In circling area and at AD	ANTENNA	113933.3N 0924411.1E	316 FT	NO	ANTENNA ON BUILDING
In circling area and at AD	BUILDING	113934.2N 0924410.3E	291 FT	NO	BUILDING ON HILL
In circling area and at AD	TREE	113934.2N 0924405.3E	246 FT	NO	GROUP OF TREES
In circling area and at AD	BUILDING	113929.5N 0924410.2E	283 FT	NO	BUILDING ON HILL
In circling area and at AD	ANTENNA	113857.2N 0924450.9E	505 FT	NO	BIG DISH ANTENNA
In circling area and at AD	OTHER	113857.4N 0924450.0E	500 FT	NO	DVOR HUT
In circling area and at AD	OTHER	113857.5N 0924449.9E	510 FT	NO	DVOR MAIN ANTENNA
In circling area and at AD	OTHER	113857.6N 0924451.0E	513 FT	NO	L/C ROD NEAR BIG DISH ANTENNA
In circling area and at AD	OTHER	113857.6N 0924448.0E	514 FT	NO	MAST
In circling area and at AD	OTHER	113857.8N 0924449.7E	519 FT	NO	DVOR DME (L)
In circling area and at AD	OTHER	113857.9N 0924447.8E	515 FT	NO	MAST
In circling area and at AD	OTHER	113858.0N 0924452.4E	501 FT	NO	MAST
In circling area and at AD	OTHER	113858.0N 0924451.0E	505 FT	NO	GAGAN ANTENNA
In circling area and at AD	OTHER	113858.4N 0924451.5E	506 FT	NO	L/C ROD ON BUILDING
In circling area and at AD	ANTENNA	113858.5N 0924450.7E	491 FT	NO	BIG DISH ANTENNA
In circling area and at AD	OTHER	113858.5N 0924451.0E	505 FT	NO	GAGAN ANTENNA
In circling area and at AD	OTHER	113858.8N 0924451.5E	493 FT	NO	GAGAN ANTENNA
In circling area and at AD	OTHER	113859.6N 0924452.3E	504 FT	NO	DVOR MONITOR ANTENNA
In circling area and at AD	OTHER	113825.8N 0924348.6E	31 FT	NO	WDI
In circling area and at AD	POLE	113827.3N 0924343.4E	47 FT	NO	LIGHT POLE
In circling area and at AD	BUILDING	113829.2N 0924341.8E	60 FT	NO	BUILDING

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	POLE	113830.1N 0924345.3E	46 FT	NO	LIGHT POLE
In circling area and at AD	POLE	113832.7N 0924347.3E	46 FT	NO	LIGHT POLE
In circling area and at AD	POLE	113834.8N 0924348.8E	46 FT	NO	LIGHT POLE
In circling area and at AD	POLE	113836.6N 0924350.5E	46 FT	NO	LIGHT POLE
In circling area and at AD	BUILDING	113838.0N 0924348.2E	66 FT	NO	BUILDING
In circling area and at AD	POLE	113838.7N 0924351.9E	47 FT	NO	LIGHT POLE
In circling area and at AD	POLE	113838.9N 0924358.4E	49 FT	NO	LIGHT POLE
In circling area and at AD	BUILDING	113839.0N 0924348.9E	70 FT	NO	BUILDING
In circling area and at AD	POLE	113840.1N 0924352.7E	47 FT	NO	LIGHT POLE
In circling area and at AD	POLE	113841.0N 0924359.9E	56 FT	NO	LIGHT POLE
In circling area and at AD	POLE	113842.3N 0924400.9E	55 FT	NO	LIGHT POLE
In circling area and at AD	BUILDING	113842.5N 0924352.7E	41 FT	NO	BUILDING
In circling area and at AD	POLE	113842.6N 0924353.5E	47 FT	NO	LIGHT POLE
In circling area and at AD	OTHER	113842.8N 0924353.7E	32 FT	NO	SECURITY HUT
In circling area and at AD	POLE	113843.6N 0924401.8E	54 FT	NO	LIGHT POLE
In circling area and at AD	OTHER	113843.9N 0924353.2E	33 FT	NO	HUT TOP
In circling area and at AD	OTHER	113846.1N 0924355.9E	44 FT	NO	WDI
In circling area and at AD	POLE	113847.9N 0924404.9E	56 FT	NO	LIGHT POLE
In circling area and at AD	POLE	113849.9N 0924407.0E	56 FT	NO	LIGHT POLE
In circling area and at AD	BUILDING	113851.0N 0924409.2E	54 FT	NO	FIRE STATION
In circling area and at AD	OTHER	113852.5N 0924409.7E	55 FT	NO	SHED TOP
In circling area and at AD	OTHER	113854.0N 0924411.2E	75 FT	NO	GROUND LEVEL
In circling area and at AD	OTHER	113826.8N 0924353.8E	76 FT	NO	HANGAR
In circling area and at AD	TREE	113828.0N 0924334.8E	140 FT	NO	GROUP OF TREES
In circling area and at AD	BUILDING	113828.6N 0924332.5E	128 FT	NO	BUILDING ON HILL
In circling area and at AD	TREE	113829.6N 0924356.6E	99 FT	NO	GROUP OF TREES

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	BUILDING	113830.6N 0924336.9E	97 FT	NO	BUILDING
In circling area and at AD	BUILDING	113832.5N 0924341.2E	64 FT	NO	BUILDING
In circling area and at AD	OTHER	113833.3N 0924356.5E	38 FT	NO	STRUCTURE
In circling area and at AD	BUILDING	113838.7N 0924336.5E	159 FT	NO	BUILDING
In circling area and at AD	TREE	113839.0N 0924336.4E	173 FT	NO	GROUP OF TREES
In circling area and at AD	BUILDING	113839.3N 0924344.2E	133 FT	NO	BUILDING
In circling area and at AD	BUILDING	113840.8N 0924347.9E	115 FT	NO	BUILDING
In circling area and at AD	BUILDING	113841.6N 0924345.6E	116 FT	NO	BUILDING
In circling area and at AD	POLE	113841.7N 0924349.6E	83 FT	NO	ELECTRIC POLE
In circling area and at AD	BUILDING	113841.7N 0924341.3E	165 FT	NO	BUILDING
In circling area and at AD	BUILDING	113845.4N 0924351.3E	85 FT	NO	BUILDING
In circling area and at AD	POLE	113845.5N 0924408.7E	83 FT	NO	LIGHT POLE
In circling area and at AD	BUILDING	113845.5N 0924346.6E	178 FT	NO	BUILDING ON HILL
In circling area and at AD	POLE	113846.1N 0924409.1E	94 FT	NO	LIGHT POLE
In circling area and at AD	TREE	113846.4N 0924350.7E	113 FT	NO	GROUP OF TREES
In circling area and at AD	BUILDING	113846.6N 0924346.0E	188 FT	NO	BUILDING
In circling area and at AD	POLE	113847.3N 0924410.1E	95 FT	NO	LIGHT POLE
In circling area and at AD	OTHER	113848.2N 0924409.2E	57 FT	NO	SHED TOP
In circling area and at AD	BUILDING	113848.3N 0924351.3E	72 FT	NO	BUILDING
In circling area and at AD	OTHER	113849.1N 0924408.6E	48 FT	NO	SHED TOP
In circling area and at AD	BUILDING	113849.3N 0924350.0E	97 FT	NO	BUILDING
In circling area and at AD	POLE	113849.4N 0924408.4E	64 FT	NO	LIGHT POLE
In circling area and at AD	BUILDING	113849.7N 0924346.3E	163 FT	NO	BUILDING ON HILL
In circling area and at AD	TREE	113850.7N 0924411.1E	101 FT	NO	GROUP OF TREES
In circling area and at AD	BUILDING	113852.4N 0924411.9E	101 FT	NO	BUILDING
In circling area and at AD	ANTENNA	113852.5N 0924412.2E	140 FT	NO	ANTENNA

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	TREE	113852.8N 0924354.3E	94 FT	NO	GROUP OF TREES
In circling area and at AD	OTHER	113853.0N 0924412.5E	149 FT	NO	BEACON ON ATC BUILDING (BUILDING TOP - 42.6 M)
In circling area and at AD	OTHER	113853.1N 0924412.4E	149 FT	NO	BEACON ON ATC BUILDING (BUILDING TOP - 42.6 M)
In circling area and at AD	OTHER	113853.2N 0924412.4E	156 FT	NO	L/C ROD ON ATC BUILDING (BUILDING TOP - 42.6 M)
In circling area and at AD	OTHER	113853.5N 0924412.6E	142 FT	NO	L/C ROD ON BUILDING (BUILDING TOP - 35.6 M)
In circling area and at AD	TREE	113855.9N 0924355.4E	107 FT	NO	GROUP OF TREES
In circling area and at AD	OTHER	113909.6N 0924407.9E	98 FT	NO	HANGAR
In circling area and at AD	TREE	113833.2N 0924330.3E	241 FT	NO	GROUP OF TREES
In circling area and at AD	OTHER	113839.3N 0924325.4E	275 FT	NO	L/C ROD ON OHWT (OHWT TOP 76.4 M.)
In circling area and at AD	BUILDING	113841.4N 0924324.2E	241 FT	NO	GROUP OF BUILDINGS
In circling area and at AD	TREE	113843.1N 0924323.3E	289 FT	NO	GROUP OF TREES
In circling area and at AD	BUILDING	113848.5N 0924337.3E	242 FT	NO	BUILDING ON HILL
In circling area and at AD	TREE	113848.6N 0924335.3E	293 FT	NO	GROUP OF TREES
In circling area and at AD	OTHER	113851.7N 0924337.1E	259 FT	NO	OHWT ON HILL
In circling area and at AD	TREE	113852.6N 0924335.7E	337 FT	NO	GROUP OF TREES
In circling area and at AD	OTHER	113853.1N 0924334.0E	262 FT	NO	OHWT ON HILL
In circling area and at AD	TREE	113853.3N 0924332.5E	270 FT	NO	GROUP OF TREES
In circling area and at AD	BUILDING	113905.4N 0924340.1E	252 FT	NO	BUILDING
In circling area and at AD	OTHER	113906.0N 0924340.0E	253 FT	NO	OHWT
In circling area and at AD	BUILDING	113902.4N 0924505.2E	248 FT	NO	BUILDING
In circling area and at AD	OTHER	113749.9N 0924421.4E	442 FT	NO	OHWT ON HILL
In circling area and at AD	TREE	113717.7N 0924412.5E	560 FT	NO	TREE ON HILL
In circling area and at AD	OTHER	113705.3N 0924409.8E	509 FT	NO	MAST ON HILL

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	TREE	113641.7N 0924402.2E	551 FT	NO	TREE ON HILL
In circling area and at AD	BUILDING	113958.9N 0924343.8E	255 FT	NO	BUILDING
In circling area and at AD	BUILDING	113958.6N 0924342.0E	282 FT	NO	BUILDING
In circling area and at AD	OTHER	113958.6N 0924341.6E	340 FT	NO	MAST
In circling area and at AD	OTHER	113958.5N 0924340.3E	432 FT	NO	AIR MAST
In circling area and at AD	OTHER	113956.9N 0924340.2E	422 FT	NO	BSNL MAST
In circling area and at AD	OTHER	113958.2N 0924338.5E	411 FT	NO	MAST
In circling area and at AD	OTHER	114024.1N 0924338.4E	303 FT	NO	MAST
In circling area and at AD	BUILDING	113957.5N 0924337.1E	321 FT	NO	BUILDING ON HILL
In circling area and at AD	OTHER	113959.6N 0924335.5E	406 FT	NO	MAST
In circling area and at AD	OTHER	114013.5N 0924335.3E	387 FT	NO	MAST
In circling area and at AD	OTHER	114019.5N 0924332.5E	356 FT	NO	MAST
In circling area and at AD	OTHER	113839.3N 0924317.7E	288 FT	NO	OHWT ON HILL
In circling area and at AD	BUILDING	113840.6N 0924423.4E	245 FT	NO	BUILDING
In circling area and at AD	OTHER	113843.5N 0924310.8E	316 FT	NO	MAST
In circling area and at AD	OTHER	113843.6N 0924321.6E	286 FT	NO	OHWT ON HILL
In circling area and at AD	OTHER	113847.8N 0924303.1E	304 FT	NO	MAST
In circling area and at AD	OTHER	113849.6N 0924324.6E	263 FT	NO	OHWT ON HILL
In circling area and at AD	BUILDING	113849.8N 0924314.9E	279 FT	NO	BUILDING ON HILL
In circling area and at AD	TREE	113851.8N 0924323.7E	250 FT	NO	GROUP OF TREES
In circling area and at AD	OTHER	113855.8N 0924313.4E	352 FT	NO	OHWT ON HILL
In circling area and at AD	TREE	113857.2N 0924325.7E	265 FT	NO	GROUP OF TREES
In circling area and at AD	TREE	114413.4N 0924454.5E	1088 FT	NO	TREE ON HILL
In circling area and at AD	OTHER	114311.3N 0924400.8E	1255 FT	NO	MAST ON HILL
In circling area and at AD	TREE	113132.3N 0924043.7E	1070 FT	NO	GROUP OF TREES ON HILL
In circling area and at AD	TREE	113148.8N 0924037.5E	1051 FT	NO	GROUP OF TREES ON HILL

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	TREE	113347.2N 0924023.2E	639 FT	NO	GROUP OF TREES ON HILL
In circling area and at AD	TREE	113224.8N 0923945.3E	789 FT	NO	GROUP OF TREES ON HILL

VOPB AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Name of the associated meteorological office	MET OFFICE, INS UTKROSH
2	Hours of service and, where applicable, the designation of the responsible meteorological office outside these hours	24 HRS
3	Office responsible for preparation of TAFs and periods of validity and interval of issuance of the forecasts	Period of validity TAFs – 9hrs Interval – Every 3hrs
4	Availability of the trend forecast for the aerodrome and interval of issuance	24HRS Interval of issuance – Hourly
5	Information on how briefing and/or consultation is provided	Presentation, Documentation
6	Types of flight documentation supplied and language(s) used in flight documentation	T3, T4, T10 Documentation in Hindi & English
7	Charts and other information displayed or available for briefing or consultation	W4, W3(b), W3(c), W3(SPI), Autographic Charts, Satellite Image
8	Supplementary equipment available for providing information on meteorological conditions, e.g. weather radar and receiver for satellite images;	Upper Air Sounding System(UASS) Runway Visual Range(RVR) Wind Profiler Satellite Image via Internet
9	The air traffic services unit(s) provided with meteorological information	INDIAN NAVY, IAF,INDIAN COAST GUARD,PAWAN HANS,AAI
10	Additional information, e.g. concerning any limitation of service.	RVR RWY 04 Available for TDZ, MID AND END. RVR is reported when visibility is less than 2000M.

VOPB AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations	TRUE Bearings	Dimensions of RWY (M)	Strength of pavement (PCN) and associated data) and surface of runway and associated stopways	Geographical coordinates for threshold and runway end
1	2	3	4	5
04	36.40 DEG	3277 x 45 M	44/F/C/X/T Asphalt	THR: 113745.51N 0924314.64E RWY END: 113911.35N 0924418.84E
22	216.40 DEG	3277 x 45 M	44/F/C/X/T Asphalt	THR: 113841.32N 0924356.37E RWY END: 113745.51N 0924314.64E

THR elevation and highest elevation of TDZ of precision APP RWY	Slope of runway and associated stopway	Dimensions of stopway (M)	Dimensions of clearway (M)	Dimensions of strips (M)
6	7	8	9	10
THR: 93.0FT TDZ: 93.0FT		NIL	NIL	3397 x 280 M
THR: 17.0FT TDZ: 18.0FT		60 x 45 M	240 x 150	3397 x 280 M

Dimensions of runway end safety areas	Location and description of arresting system (if any)	Existence of an obstacle-free zone	Remarks.
11	12	13	14
NIL			1. Due to terrain & topographical restrictions, the runway strip is not uniform throughout and is not in conformance with ICAO standards. 2. Vertical Reference System: EGM 08. 3. PCN Note: First 600 M, PCN 75/R/C/X/U, Surface –Concrete
240M x 90M			1. Due to terrain & topographical restrictions, the runway strip is not uniform throughout and is not in conformance with ICAO standards. 2. Vertical Reference System: EGM 08. 3.Last 600m PCN 75/R/C/X/U, Surface –Concrete

VOPB AD 2.13 DECLARED DISTANCES

RWY Designator	Take-off run available TORA (M)	Take-off distance available TODA (M)	Accelerate distance available ASDA (M)	Landing distance available LDA (M)	Remarks (including runway entry or start point where alternative reduced declared distances have been declared)
1	2	3	4	5	6
04	NIL	NIL	NIL	3277	
22	3277	3517	3337	NIL	

VOPB AD 2.14 APPROACH AND RUNWAY LIGHTING

Runway Designator	Type, length and intensity of approach lighting system	Runway threshold lights, colour and wing bars	Type of visual slope indicator system	Length of runway touchdown zone lights
1	2	3	4	5
04	329 M Truncated CAT-II Lights LIH	Green	PAPI LEFT/3.00 DEG	900 M
22	NIL	NIL	NIL	

Length, spacing, colour and intensity of runway centre line lights	Length, spacing, colour and intensity of runway edge lights	Colour of runway end lights and wing bars	Length and colour of stopway lights	Remarks
6	7	8	9	10
2700 M 15 M LIH White	3277 M 60 M White LIH	Red		1. RWY End Lights : Red 2. Wing Bars Lights: Green
NIL	3277 M 60 M White LIH	Red	Red 60 M	NIL

VOPB AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Location, characteristics and hours of operation of aerodrome beacon/identification beacon (if any)	ABN	Top of ATC Tower During Dark Hours And Low Visibility Conditions. 28 flashes per minute
		IBN	NIL
2	Location and lighting (if any) of anemometer/ landing direction indicator;	LDI	In Front of ATC Tower
		Anemometer	In Front of ATC Tower Adjacent To Runway Controller's Hut
3	Taxiway edge and taxiway centre line lights;	Edge	BLUE
		Centre Line	NIL
4	Secondary power supply including switch-over time;	UPS With 20 Min Back Up And Diesel Generator With 15 Secs Auto Takeover	

5	Remarks	AFLS Not Available Due Ongoing Resurfacing Works Anemometer Is In Conjunction With IAAMS

VOPB AD 2.16 HELICOPTER LANDING AREA

1	Geographical coordinates of the geometric centre of touchdown and lift-off (TLOF) or of each threshold of final approach and take-off (FATO) area	Not Available
2	TLOF and/or FATO area elevation:	Not Available
3	TLOF and FATO area dimensions to the nearest metre or foot, surface type, bearing strength and marking;	Not Available
4	True bearings of FATO;	Not Available
5	Declared distances available	Not Available
6	Approach and FATO lighting;	Not Available
7	Remarks	Not Available

VOPB AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	MCTR: Circular area centered on 113858N 0924445E within a 80NM radius.
2	Vertical limits	FL 155
3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	Sri Vijaya Puram Tower, English
5	Transition altitude	4000 FT
6	Hours of applicability	0015 – 1045 UTC
7	Remarks	1. Controlling Unit: INS Utkrosh TEL: +91-3192-248887 2. Email: atcportblair@rediffmail.com atc-utkroshportblair@navy.gov.in

VOPB AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	**2**	**3**	**4**
OFIS_HF	Sri Vijaya Puram Radio	6583.000 KHZ	
OFIS_HF	Sri Vijaya Puram Radio	8861.000 KHZ	
APP	Sri Vijaya Puram Approach	123.500 MHZ	
TWR	Sri Vijaya Puram Tower	118.100 MHZ	
ATIS	Sri Vijaya Puram Information	126.400 MHZ	
ALRS	Emergency Frequency	121.500 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	**6**	**7**
	0015-1045 UTC	NIL
	0015-1045 UTC	NIL
	0015-1045 UTC	1. Primary radar services are provided subject to availability

Logon address, as appropriate	Hours of operation	Remarks
	0015 - 1045 UTC	NIL
	0015-1045 UTC	NIL
	0015-1045 UTC	NIL

VOPB AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aids, magnetic variation and type of supported operation for ILS/ MLS, basic GNSS, SBAS and GBAS, and for VOR/ILS/MLS station used for technical lineup of the aid	Identification	Frequency(ies), Channel number(s), Service provider, and reference path identifier(s) (RPI), as appropriate	Hours of operation, as appropriate;
1	2	3	4
LOC 04	IPBR	110.100 MHz	H24
GP 04	IPBR	334.400 MHz	H24
DME ILS 04	IPBR	CH38X	H24
DVOR/DME	PPB	115.700 MHz CH104X	H24
NDB	PB	369 kHz	H24

Geographical coordinates of the position of the transmitting antenna	Elevation of transmitting antenna of DME/ elevation of GBAS reference point	Service volume radius from the GBAS reference point	Remarks
5	6	7	8
113916.6N 0924422.7E			1. Controlling Authority: AAI 2. LOC Inner Coverage (17NM) is Restricted in 150 Side (Right Side Of RWY) up to 25 Degree and 90 Side (Left Side Of RWY) up to 30 Degree.
113754.6N 0924326.3E			1. GLIDE ANGLE: 3.0 DEGREE 2. GP Coverage Restricted to 7 NM (±8 Deg) at 1500 FT height above Threshold (HAT).
113754.5N 0924326.5E	91 FT		1. DME Collocated with LOC 2. Vertical Reference System: EGM 08
113857.5N 0924449.9E	519 FT		1. Controlling Authority: AAI 2. Vertical Reference System: EGM 08
113822.1N 0924401.9E			1. Controlling Authority: Indian Navy

VOPB AD 2.20 LOCAL AERODROME REGULATIONS

NIL

VOPB AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VOPB AD 2.22 FLIGHT PROCEDURES

NIL

VOPB AD 2.23 ADDITIONAL INFORMATION

1. All scheduled and Non-scheduled flights may be delayed due Military Operations between 0015-1045 UTC daily.
2. Limited parking and manoeuvring space available at Naval Dispersal. All military aircraft to take positive clearance before take-off for parking. Night parking available only in case of emergency.
3. During monsoon/heavy rain, water logging may occur along runway, naval dispersal, taxi track E3 and E4 with flow of water average deposit 50cm
4. Bird deterrence equipment Hormony M3 installed 43.5m west of RWY 04 between DTGM 5 and 4. Height 0.45m, pilots to exercise caution.
5. The three taxiways TWY W1, TWY W2 and TWY W3, dimension 105m x 23m each, and TWY W4 dimension 135 m x 23 m, with widened fillets and 7.5m wide shoulder cater to wide-bodied aircraft,

VOPB AD 2.24 CHARTS RELATED TO AN AERODROME

1. Aerodrome Chart (17 April 2025)
2. Aircraft Parking/Docking Chart (17 April 2025)
3. Aerodrome Obstacle Chart (Operating Limitations) Type A RWY 22 (17 April 2025)
4. Instrument Approach Chart – VOR Procedure RWY 04(02 October 2025)
5. Instrument Approach Chart - ILS or LOC Z RWY 04 (13 June 2024)
6. Instrument Approach Chart - ILS or LOC Y RWY 04 (13 June 2024)
7. Instrument Approach Chart - RNP Y Procedure RWY 04 (13 June 2024)
8. Tabular Description - RNP Y Procedure RWY 04 (13 June 2024)

VOPB AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Procedure	Procedure Minima	VSS Penetration
1	2	3

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VOSM AD 2.24 CHARTS RELATED TO AN AERODROME

1. Aerodrome Chart(16 APR 2026)
2. Aircraft Parking/Docking Chart(16 APR 2026)
3. Aerodrome Obstacle Chart – Type A (Operating Limitations) RWY 04(16 APR 2026)
4. Aerodrome Obstacle Chart – Type A (Operating Limitations) RWY 22(16 APR 2026)

VOSM AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Procedure	Procedure Minima	VSS Penetration
1	2	3

Intentionally left blank

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM-08)	Marking/LGT	Remarks
In circling area and at AD	POLE	160018.7N 0733236.4E	245 FT	NIL	LIGHT POLE
In circling area and at AD	POLE	160018.7N 0733235.8E	244 FT	NIL	LIGHT POLE
In circling area and at AD	POLE	160018.6N 0733235.2E	243 FT	NIL	LIGHT POLE
In circling area and at AD	POLE	160018.6N 0733234.7E	243 FT	NIL	LIGHT POLE
In circling area and at AD	POLE	160018.6N 0733234.2E	243 FT	NIL	LIGHT POLE
In circling area and at AD	POLE	160018.5N 0733233.7E	243 FT	NIL	LIGHT POLE

VOSR AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Name of the associated meteorological office	Mumbai
2	Hours of service and, where applicable, the designation of the responsible meteorological office outside these hours	Available during ATC watch Hours. Outside Watch Hours - VOGA
3	Office responsible for preparation of TAFs and periods of validity and interval of issuance of the forecasts	Nine hourly TAFs (validity in UTC 00-09, 03- 12, 06-15, 09-18, 12-21, 15-24, 18-03, 21-06) Every three hours (2300, 0200, 0500, 0800, 1100, 1400, 1700, 2000 UTC)
4	Availability of the trend forecast for the aerodrome and interval of issuance	METAR on half an hour frequency
5	Information on how briefing and/or consultation is provided	Report is sent manually to ATC
6	Types of flight documentation supplied and language(s) used in flight documentation	Tabular form English
7	Charts and other information displayed or available for briefing or consultation	NIL
8	Supplementary equipment available for providing information on meteorological conditions, e.g. weather radar and receiver for satellite images;	NIL
9	The air traffic services unit(s) provided with meteorological information	Sindhudurg Airport ATC
10	Additional information, e.g. concerning any limitation of service.	Actual visibility based on visual landmarks

VOSR AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations	TRUE Bearings	Dimensions of RWY (M)	Strength of pavement (PCN) and associated data) and surface of runway and associated stopways	Geographical coordinates for threshold and runway end
1	2	3	4	5
09	85.40 DEG	2500 x 45 M	60/F/A/W/T Asphalt	THR: 160005.92N 0733104.61E RWY END: 160012.43N 0733228.43E
27	265.40 DEG	2500 x 45 M	60/F/A/W/T Asphalt	THR: 160012.43N 0733228.43E RWY END: 160005.92N 0733104.61E

THR elevation and highest elevation of TDZ of precision APP RWY	Slope of runway and associated stopway	Dimensions of stopway (M)	Dimensions of clearway (M)	Dimensions of strips (M)
6	7	8	9	10
THR: 180.9FT TDZ: 184.5FT		NIL	NILNIL	2620 x 280 M
THR: 226.0FT TDZ: 222.9FT		NIL	NILNIL	2620 x 280 M

Dimensions of runway end safety areas	Location and description of arresting system (if any)	Existence of an obstacle-free zone	Remarks.
11	12	13	14
240M x 90M	N/A	NIL	1. Long slope0.55% Transverse slope- 1.5% 2. Vertical Datum: EGM 08
240M x 90M	N/A	NIL	1. Long slope0.55% Transverse slope- 1.5% 2. Vertical Datum: EGM 08

VOSR AD 2.13 DECLARED DISTANCES

RWY Designator	Take-off run available TORA (M)	Take-off distance available TODA (M)	Accelerate distance available ASDA (M)	Landing distance available LDA (M)	Remarks (including runway entry or start point where alternative reduced declared distances have been declared)
1	2	3	4	5	6
09	2500	2500	2500	2500	
27	2500	2500	2500	2500	

3	Remarks	NIL

VOTR AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Designation, surface and strength of aprons	Refer Aircraft Parking/Docking Chart
2	Designation, width, surface and strength of taxiways	Refer Aircraft Parking/Docking Chart
3	Location and elevation of altimeter checkpoints	1. Location: Old Apron, Elevation 88.876 M 2. Location: New Apron, Elevation 88.087 M
4	Location of VOR checkpoints	TWY A: 104552.69515N 0784231.45666E / ELEV: 292 FT
5	Position of INS checkpoints	Not Established
6	Remarks	1. Coordinates of RWY Holding Position i. TWY A: 104552.82N 0784231.49E/ELEV: 292 FT ii. TWY B: 104552.96N 0784234.08E/ELEV: 291 FT iii. TWY D: 104558.81N 0784230.55E/ELEV: 287 FT iv. TWY J: 104602.13N 0784314.14E/ELEV: 280 FT v. TWY H: 104556.16N 0784314.62E/ELEV: 282 FT 2. Coordinates of RWY & TWY Intersection: i. TWY A TWY B, TWY D:104555.90N 0784232.31E/ELEV: 290 FT ii. TWY J: 104559.21N 0784314.38E/ELEV: 283 FT iii. TWY H: 104559.21N 0784314.38E/ELEV: 283 FT 3. Coordinates of Intermediate Holding Positions (IHP): i. IHP 1 on E1: 104549.97N 0784232.63E ii. IHP 2 on E1: 104550.08N 0784234.10E iii. IHP 3 on B: 104548.39N 0784236.84E iv. IHP 4 on E2: 104550.37N 0784237.84E v. IHP 5 on E2: 104552.26N 0784301.90E vi. IHP 6 on F: 104550.85N 0784303.61E vii. IHP 7 on E3: 104552.50N 0784305.00E viii. IHP 8 on E3: 104552.72N 0784307.76E 4. Geoid Model : EGM08

VOTR AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand identification signs, taxiway guidelines and visual docking/parking guidance system at aircraft stands	TWY guidance sign at all the intersection with TWY and RWY and at all holding position Guidelines at Apron. Nose in guidance at aircraft stands. PAX Boarding Bridge with Advanced Visual Docking Guidance System available on Stand NR. 5,6,7,12,14,16 and 18.
2	Runway and taxiway markings and lights	RWY Markings: Designation, THR, TDZ, centreline, Edge, End & Aiming Point. Lights: THR, Edge, End TWY Marking: Centreline, Holding Positions at all TWY/RWY Intersections Enhanced Centreline. Lights: Edge.
3	Stop bars (if any)	RWY guard lights configuration 'A' AVBL at RWY holding position on TWY A, B,H AND J.
4	Remarks	NIL

VOTR AD 2.10 AERODROME OBSTACLES

In Approach/Take-off/Circling Area and at AD					
1	**2**	**3**	**4**	**5**	**6**
RWY/Area affected	Obstacle type	Coordinates	Elevation (EGM 08)	Marking/LGT	Remarks
27/TKOF 09/APCH	NAVAID	104555.1N 0784221.6E	297 FT	NO	Localizer Monitor Antenna
27/TKOF 09/APCH	NAVAID	104554.9N 0784219.1E	299 FT	NO	Localizer Antenna
27/TKOF 09/APCH	POLE	104552.0N 0784219.2E	300 FT	NO	Light Pole
27/TKOF 09/APCH	POLE	104552.9N 0784219.0E	300 FT	NO	Light Pole
27/TKOF 09/APCH	POLE	104552.6N 0784219.6E	300 FT	NO	Light Pole
27/TKOF 09/APCH	OTHER	104554.3N 0784219.3E	300 FT	LGTD	Localizer Antenna, Obstruction Light Top
27/TKOF 09/APCH	POLE	104551.4N 0784219.4E	301 FT	NO	Light Pole
27/TKOF 09/APCH	OTHER	104551.3N 0784220.1E	301 FT	NO	Crash Gate (No.03)
27/TKOF 09/APCH	BUILDING	104551.8N 0784220.1E	301 FT	NO	Security Hut
27/TKOF 09/APCH	POLE	104550.4N 0784219.6E	302 FT	NO	Light Pole
27/TKOF 09/APCH	POLE	104551.1N 0784220.2E	302 FT	NO	Light Pole
27/TKOF 09/APCH	POLE	104551.7N 0784220.0E	302 FT	NO	Light Pole
27/TKOF 09/APCH	FENCE	104551.8N 0784219.8E	302 FT	NO	Airport Boundary Wall with Fencing on Top
27/TKOF 09/APCH	FENCE	104551.8N 0784219.6E	302 FT	NO	Airport Boundary Wall with Fencing on Top
27/TKOF 09/APCH	ANTENNA	104552.2N 0784219.8E	303 FT	NO	Localizer Hut, Antenna Top: 92.5 M, Lightning Arrester Top: 92.4 M, Light Top: 91.8 M, Hut Top: 91.7 M.
27/TKOF 09/APCH	POLE	104550.6N 0784220.3E	303 FT	NO	Light Pole
27/TKOF 09/APCH	OTHER	104555.4N 0784219.1E	303 FT	NO	LC Rod on Localizer
27/TKOF 09/APCH	OTHER	104554.3N 0784219.2E	303 FT	NO	Localizer, Lightning Arrester Top
27/TKOF 09/APCH	POLE	104554.2N 0784219.3E	304 FT	NO	Localizer, Pole Top
27/TKOF 09/APCH	POLE	104555.5N 0784219.2E	304 FT	NO	Localizer, Pole Top
27/TKOF 09/APCH	OTHER	104554.8N 0784218.8E	304 FT	NO	Mobile Road Traffic (Road Elev.=87.8 M+5m Mobile Traffic)