

PEOPLE'S REPUBLIC OF BANGLADESH
AERONAUTICAL INFORMATION SERVICES
CIVIL AVIATION AUTHORITY OF BANGLADESH
HEADQUARTERS, KURMITOLA, DHAKA-1229, BANGLADESH

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1. SIGNIFICANT INFORMATION AND CHANGES:

- (a) Telephone number of Director (ATM) has been revised in para 1.2 of sub-section 3.3.
- (b) The activities of RCC have been included in sub-section GEN 3.6.4.3.
- (c) The heading 'List of Rescue Units and Facilities' in sub-section GEN 5.2 has been corrected by 'List of Rescue-Sub Centers (RSC) in Bangladesh.'
- (d) The list of SAR units & facilities with different organizations in Bangladesh has been included with new sub-section as GEN 5.3.
- (e) The secondary frequency of Dhaka Approach (Radar) has been changed in sub-section VGHS AD 2-18 and accordingly it is changed in chart ENR 5.1-13, ENR 6-1 & ENR 6-3.
- (f) The serial numbers of the list of "high mast/building/barrier/antenna" around HSIA in table of page VGHS AD 2-11.3 have been corrected.
- (g) The dimension of SWY of VGSY has been included in sub-section AD 2.12 and ASDA has been corrected in sub-section AD 2.13 and accordingly it is corrected in chart AD 2-9 & PCN of RWY of VGSY has been corrected in sub-section VGSY AD 2.8
- (h) The telephone numbers of APM & TWR of VGCB have been revised in sub-section AD 2.2.
- (i) Ad elevation of VGIS has been corrected in sub-section AD 2.2 and in chart AD 2-7.
- (j) Simple Approach Lights for RWY 34 of VGJR have been established & included in sub-section AD 2.14 with length of both approach lights & shown in Chart AD 2-7 accordingly.
- (j) THR coordinates of VGTJ are corrected in sub-sec AD 2.12.

2. INSERT THE ATTACHED REPLACEMENT PAGES, WHICH ARE MARKED WITH ASTERISKS IN THE CHECKLIST OF PAGES-GEN 0.4-1 TO GEN 0.4-4.

3. NEW OR REVISED INFORMATION IS INDICATED EITHER BY HORIZONTAL ARROW OR A VERTICAL LINE.

4. RECORD ENTRY OF AMENDMENT ON PAGE GEN 0.2-1.

5. THIS AMENDMENT INCORPORATES INFORMATION CONTAINED IN THE FOLLOWING WHICH ARE HERE BY SUPERSEDED:

5.1. NOTAMs : C008/22, C0113/22, A0181/22

NIL.

GEN 0.2 RECORDS OF AIP AMENDMENTS

NR/Year	Effective Date	Date Inserted	Inserted by	NR/Year	Effective Date	Date Inserted	Inserted by
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NIL	15 DEC 2011	---					
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GEN 0.4 CHECKLIST OF PAGES

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GEN 3.3 AIR TRAFFIC SERVICES

1. Responsible Service.

- 1.1 The Member, Air Traffic Management of Civil Aviation Authority of Bangladesh acting under the authority of the Chairman, Civil Aviation Authority of Bangladesh is the responsible authority for the provision of air traffic services within the area indicated under 2 below.

Postal Address : Member, Air Traffic Management
Civil Aviation Authority of Bangladesh
Headquarters, Kurmitola,
Dhaka-1229, Bangladesh.

Telephone : 880-2-8901241 (Office)

Fax : 880-2-8901428

AFS : VGHQYAYS

Email : matm@caab.gov.bd

- 1.2 Air Traffic Services in Bangladesh are provided by the Civil Aviation Authority of Bangladesh administered by the Director, Air Traffic Management at Civil Aviation Authority, Headquarters.

Postal Address : Director (Air Traffic Management)
Air Traffic Management Division,
Civil Aviation Authority of Bangladesh
Headquarters, Kurmitola,
Dhaka-1229, Bangladesh.

Telephone : 88-02-41091031 (Office) ←

Fax : 88-02-8901428, 88-02-8901411

AFS : VGHQYAYS

Email : datm@caab.gov.bd

- 1.3 Enquiries, Suggestions or complaints regarding any Air Traffic Services Should be referred to relevant station Air Traffic Officers at each international airport or to the Chairman, Civil Aviation Authority of Bangladesh as appropriate.

- 1.4 The Services are provided in accordance with the provisions contained in the following ICAO documents.

Annex 2 – Rules of the Air

Annex 11 – Air Traffic Services

Annex 15 – Aeronautical Information Services

Doc 4444 – Procedures for Air Navigation Services – Air Traffic Management (PANS-ATM)

Doc 8168 – Procedures for Air Navigation Services – Aircraft Operations (PANS-OPS)

Doc 7030 – Regional Supplementary Procedures.

- 1.5 Differences to these provisions are detailed in subsection GEN 1.7

2 Area of responsibility

- 2.1.1 Air Traffic Services are provided for the entire territory of Bangladesh, including territorial waters of Bangladesh as well as the airspace over the high seas within the Dhaka FIR except that portion which has been delegated to Kolkata for provision of Air Traffic Services.
- 2.1.2 In some cases, in accordance with the regional air navigation agreement, air traffic services are provided, under the delegated authority, in airspace within another bordering FIR. Details of such services are provided in section ENR 2.

3 Types of services

- 3.1 The following types of services are provided:
- Air Traffic Control Service (ATCS), Flight Information Service (FIS) and Alerting service (ALRS).
- 3.2 With the exception of services provided at military air bases, the following types of services are provided at aerodromes:
- Aerodrome Control Service;
- Aerodrome Flight Information Service (AFIS); and
- Automatic Terminal Information Service (ATIS), at certain aerodromes.
- 3.3 Air Traffic Control is exercised:
a) On airways covering the main ATS routes
b) In Terminal Control Area, Control Zones and at Controlled Aerodromes.
- 3.4 Except ACA/Dhaka Control Zone as appropriate, Chittagong control zone and other domestic Aerodromes, Flight Information Services and Alerting Services within Dhaka FIR are provided by Dhaka Area Control Center.
- 3.5 Radar service is an integral part of the ATS system during the notified hours of operation. A description of Radar service and procedures is provided in part ENR 1.6.
- 3.6 The description of the airspace designated for Air Traffic services is available in several tables, all forming part of ENR 2.1.
- 3.7 In general, the air traffic rules and procedures in force and the organization of Air Traffic Services are in conformity with ICAO Standard, Recommended Practices and Procedures. Differences between the National and International rules and procedures are given in part GEN 1.7. The regional supplementary procedures and altimeter setting procedures have been reproduced in full with the indication wherein there is a difference in part ENR 1.8
- 3.8 A few prohibited areas, restricted areas and danger areas are established within the Bangladesh Airspace. These areas shown in subsection ENR 5.1. Activation of areas subject to intermittent activity is notified well in advance by NOTAM, giving reference to the area only by its identification.

GEN 3.6 SEARCH AND RESCUE

3.6.1 Responsible Service.

The search and rescue service in Bangladesh is organized in accordance with the Standards and Recommended Practices of ICAO Annex 12, by the Civil Aviation Authority in collaboration with Armed forces and other Department/ Organizations. Postal & telegraphic addresses of the Civil Aviation Authority of Bangladesh are given on Page GEN 1.1-1.

Rescue Co-ordination Centre (RCC):

Postal Address: Hazrat Shahjalal International Airport,
Kurmitola, Dhaka-1229.

Telephone : +880-2-8901464
 : +880-2-8901462
 : +880-2- 8901463
 +880-2-8901904-13/ Ext: 3589, 3465 & 3410.
Telefax : +880-2-8901924
AFS : VGHSYCYX, VGFRZQZX
Email : rcc_dhaka@caab.gov.bd

3.6.1.1 Applicable ICAO Documents.

Annex 12 – Search and Rescue
Annex 13 – Aircraft Accident Investigation
Doc 7030 – Regional Supplementary Procedures for Alerting, Search and Rescue Services Applicable in the MID/
ASIA Region.
PANS ATM (DOC 4444) Procedure for Air Navigation Services-Air Traffic Management
DOC- 9731- IAMSAR.

3.6.1.2 Difference to these provisions are detailed in subsection GEN 1.7

3.6.2 Area of Responsibility

3.6.2.1 The boundaries of Search and Rescue areas are coincident with the boundaries of Dhaka Flight Information Region (Dhaka FIR) covering the whole territory of Bangladesh and adjacent waters. Area Control Center serves as the central points for collecting information relating to the State of emergency of an aircraft operating within its search and rescue area.

3.6.2.2 Within Bangladesh no land areas have been designated in which search and rescue would be especially difficult.

3.6.3 Types of Services and Procedures

3.6.3.1 Aerial Search and rescue service shall be provided by Bangladesh Air Force when requested. Airlines & private operators may be requested for aerial search if necessary. Marine Search and Rescue Service shall be provided by Bangladesh Navy & other Marine authorities when requested. Ground Search & Rescue service shall be provided by the Police, Army, Border Guard Bangladesh and other Department/ Organization when requested.

Information on distressed aircraft shall be communicated to the rescue co-ordination center and or nearest rescue units. Details of the rescue co-ordination center and related rescue units are given on Page 3.6-3.

3.6.3.2 The effectiveness of the Search and Rescue Organization requires prompt and accurate advice regarding all aircraft movements. Pilots are requested in their own interest to ensure that the ground organization is immediately made aware of the initiation, any variation, and conclusion of the planned flight.

3.6.4 SAR Agreements

3.6.4.1 The Memorandum of Understanding (MOU) between CAAB and Bangladesh Air Force (BAF) has been signed on 9 June 2014.

3.6.4.2 Requests for the entry of aircraft, equipment and personnel from other states to engage in search for aircraft in distress or to rescue survivors of aircraft accidents should be made to the Civil Aviation Authority of Bangladesh. Instructions as to the control which will be exercised on entry of such aircraft and/ or personnel will be given by the Rescue Co-ordination Center in accordance with a standing plan for the conduct of search and rescue operations in Bangladesh.

3.6.4.3 For the purpose of SAR, the authorities of the other State who wish their SAR units to enter the territory of Bangladesh shall transmit a request, giving full details of the projected mission and the need for it to:

Chairman
Civil Aviation Authority of Bangladesh
Headquarters (New building), Level-6,
Kurmitola, Dhaka-1229, Bangladesh

Telephone : +880-2-8901400
Fax : +880-2-8901411
AFS : VGHQYAYX
E-mail : chairman@caab.gov.bd
Website : www.caab.gov.bd

RCC shall (a) immediately acknowledge the receipt of such a request,
(b) forward the request, to the concerned authorities, and
(c) as soon as possible, indicate the conditions, if any, under which the projected mission may be undertaken

Instructions as to the control which will be exercised on entry of such aircraft and/or personnel will be given by Rescue-Coordination Center in accordance with the standing plan for the conduct of Search and Rescue operations in Bangladesh.

3.6.5 The SAR Service and Facilities in Bangladesh are available without charge to neighboring states upon request to the Civil Aviation Authority at all times when they are not engaged in search and rescue operations in their own territory.

3.6.5.1 ACCIDENT NOTIFICATION AND ACCIDENT INQUIRY

3.6.5.2 All accidents shall be reported to the nearest Airport, Aerodrome, Police Station or Military Authority.

3.6.5.3 The competent authority to conduct inquiries concerning in incidents or accidents of Civil Aircraft is the Civil Aviation Authority.

3.6.5.4 The issuance of the incident/ accident inquiry reports, their evaluation and publication of the experience derived therefore will be affected by the Civil Aviation Authority.

3.6.5.5 Dhaka ACC/RCC has been designated as the SAR point of contact for the receipt of Cospas-Sarsat distress data.

Postal Address of SAR point of contact:

Dhaka Area Control Centre,
Hazrat Shahjalal International Airport,
Kurmitola, Dhaka-1229, Bangladesh.
Telephone : +880-2-8901462, 8901463
 +880-2-8901904/ Ext: 3465 & 3410.
Telefax : +880-2-8901924
AFS : VGHSYCYX, VGHSZQZX
Email : rcc_dhaka@caab.gov.bd

3.6.5.6 **SAR Manager (Contact details):**

Director (Air Traffic Management),
Air Traffic Management Division, CAAB Headquarters (New building), Level-4,
Kurmitola, Dhaka-1229, Bangladesh.
Telephone : + 880-2-8901404
Fax : + 880-2-8901411
Email : datm@cab.gov.bd
Web site : www.caab.gov.bd

3.6.6 Procedures and Signals Used.

3.6.6.1 PROCEDURES

Procedures for Pilot-in-Command observing an accident or intercepting a distress call and /or message are outlined in Annex 12 Chapter 5.

4.1 COMMUNICATIONS

4.1.1 Transmission and reception of distress messages within Dhaka Search and Rescue areas are handled in accordance with Annex-10. Volume 11, Cap.5. Para 5.3.

4.1.2 For Communications during Search and Rescue operations, the codes and abbreviations published in ICAO Abbreviations and Codes (Doc 8400) are used.

4.1.3 Information concerning positions, call signs, frequencies and hours of operations of aeronautical stations is published in AD2 and ENR2.

4.1.4 Rescue aircraft belonging to permanent Search and Rescue Units will use the call sign RESCUE and additional identifications marks (ALFA, BRAVO, CHARLIE etc.) during rescue operations.

5. SEARCH AND RESCUE SIGNALS.

5.1 The Search and Rescue signals to be used are those prescribed in Annex 12, Appendix A.

5.2 Rescue Sub-Center (RSC) in Bangladesh

List of Rescue-Sub Centers					
Name of Airport	Rescue Sub-Center (RSC)	Location	Facilities		Remarks
			Aircraft	Marine Craft	
1.	2.	3.	4.	5.	6.
Shah Amanat International Airport, Chattogram.	RSC	221522.28N 0914919.95E 10 NM South of Chattogram City.	*Helicopters & AN-32	Rescue vessels & Rescue Boats	*Will be provided from BAF Base Zahur
Barishal Airport, Barishal	RSC	224756.19N 0901804.45E 8 NM north of Barishal City.	---	---	---
Cumilla Airport, Cumilla	RSC	232615.74N 0911122.26E 3 NM South-East of Cumilla Town	---	---	--
Jessore Airport, Jessore	RSC	231101.50N 089039.21E 4 NM North of Jessore Town.	Helicopters	---	Will be provided from BAF Base Matiur.

List of Rescue Sub-Center (RSC) in Bangladesh					
Name of Airport	Rescue Sub-Center (RSC)	Location	Facilities		Remarks
			Aircraft	Marine Craft	
1	2	3	4	5	6
Osmani International Airport, Sylhet	RSC	245740.83N 0915217.89E 5 NM NNE of Sylhet Town	-	-	-
Cox's Bazar Airport, Cox's Bazar	RSC	212659.13N 0915753.31E 1 NM from Cox's Bazar Town	-	-	-
Shah Mokdhum Airport, Rajshahi	RSC	242619.39N 0883658.56E 7 KM North of Rajshahi Town	-	-	-
Ishurdi Airport, Ishurdi	RSC	240909.48N 0890257.95E 4 NM North of Ishurdi Town	-	-	-
Saidpur Airport, Saidpur	RSC	254537.35N 0885430.49E 2 NM South of Saidpur Town	-	-	-
Shamshernagar Airport (STOL)	RSC	242355.82N 0915500.69E 9 NM South-East of Moulvibazar	-	-	-
Tejgaon Airport, Dhaka	RU	234642.24N 0902257.90E	Helicopters	-	Will be provided from BAF Base Bashar, Tejgaon
Remarks: Direct Speech Circuits between RCC and related Rescue units					

List of SAR units and facilities available with different organizations in Bangladesh

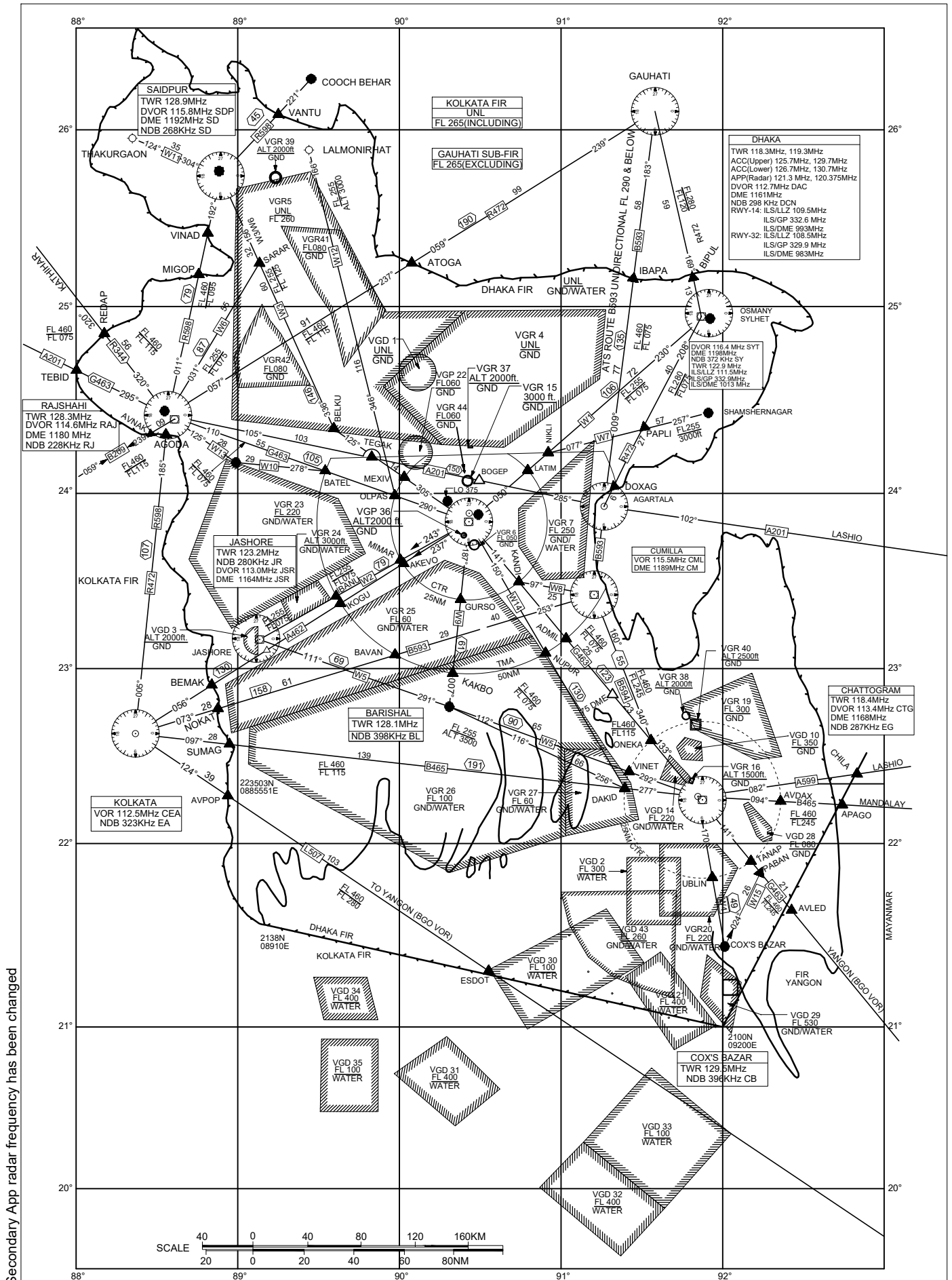
5.3 Bangladesh Air Force :

- a) Minimum range (MRG) C-130 with a radius of action of 740 km plus two and half hours search remaining;
- b) Short range (SRG) AN-32 aircraft with a radius of action of 280km plus one and half hours search remaining;
- c) Short range (SRG) L410 aircraft with a radius of action 280km plus one and half hours search remaining;
- d) Helicopter Bell-212 and Augusta Westland (AW-139) helicopter with a radius of action for rescue purposes of 185 to 370km and a capability for evacuating 6 to 15 personnel. Mentionable that AW-139 helicopter is additionally equipped with FLIR, DAFCS (Digital Automatic Flight Control System) enhanced with hover mode and SAR mode. Moving MAP Euro avionics, VHF Homer and NVG Compatibility both for cockpit and cabin crews ;

Bangladesh Navy having suitable SAR facilities :

- a) Short Range Group (SRG) Two Aircraft with a radius of action of 280 km plus one and half hours search remaining;
- b) Helicopter (HeL-L) Two aircraft;
- c) Number of Rescue Vessels (RVs) possessing sea-going qualities;
- d) Number of Rescue Boats (RBs);
- e) Bangladesh Navy having their Maritime Patrol Aircraft (MPA) and Air Search RADAR.

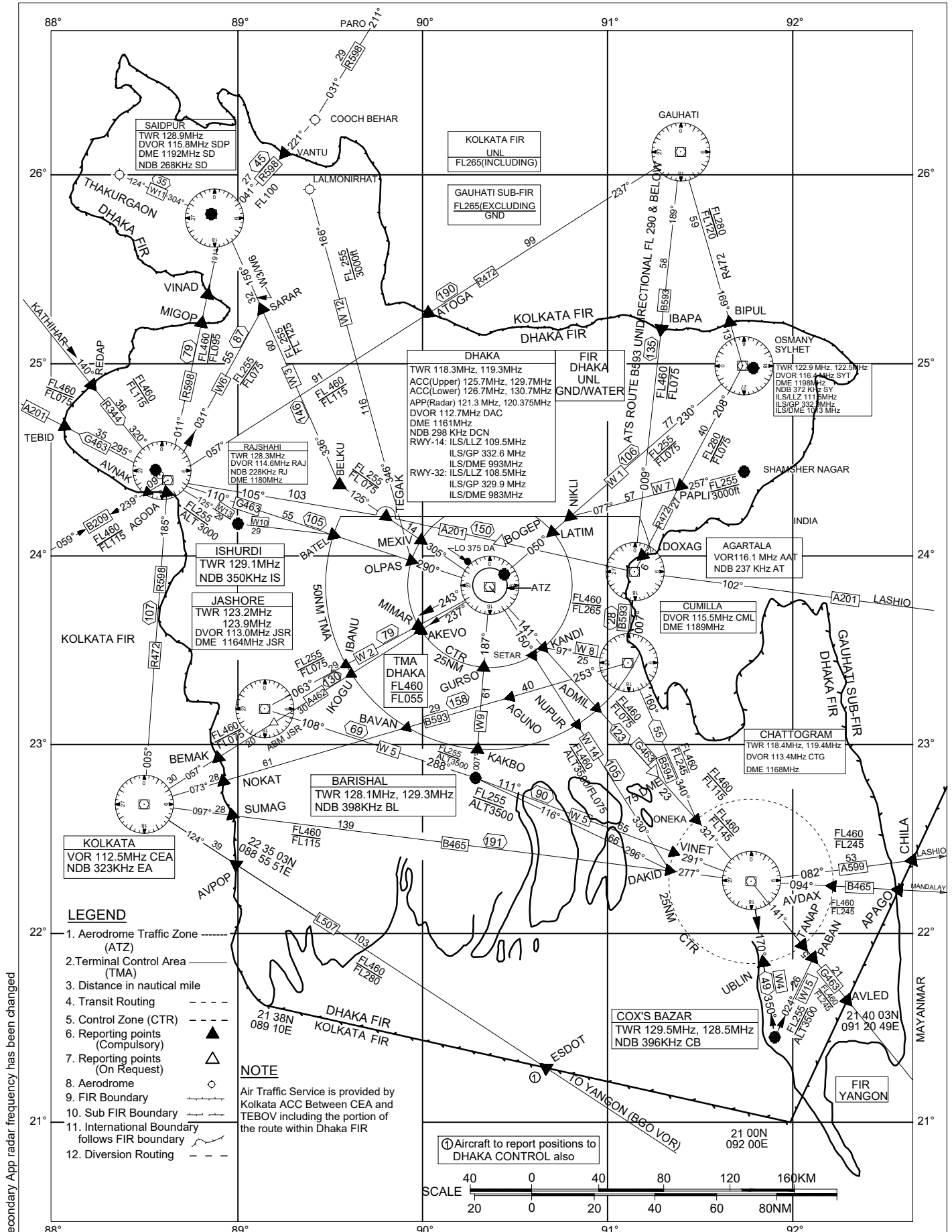
PROHIBITED RESTRICTED AND DANGER AREA - CHART



Secondary App radar frequency has been changed

ENROUTE CHART

INTERNATIONAL & DOMESTIC ATS ROUTES



- LEGEND**
1. Aerodrome Traffic Zone (ATZ) - Dotted line
 2. Terminal Control Area (TMA) - Solid line
 3. Distance in nautical mile - Number
 4. Transit Routing - Dashed line
 5. Control Zone (CTR) - Dashed line with dots
 6. Reporting points (Compulsory) - Solid triangle
 7. Reporting points (On Request) - Open triangle
 8. Aerodrome - Circle with dot
 9. FIR Boundary - Solid line
 10. Sub FIR Boundary - Dashed line
 11. International Boundary follows FIR boundary - Dotted line
 12. Diversion Routing - Long dashed line
- NOTE**
Air Traffic Service is provided by Kolkata ACC Between CEA and TEBOV including the portion of the route within Dhaka FIR

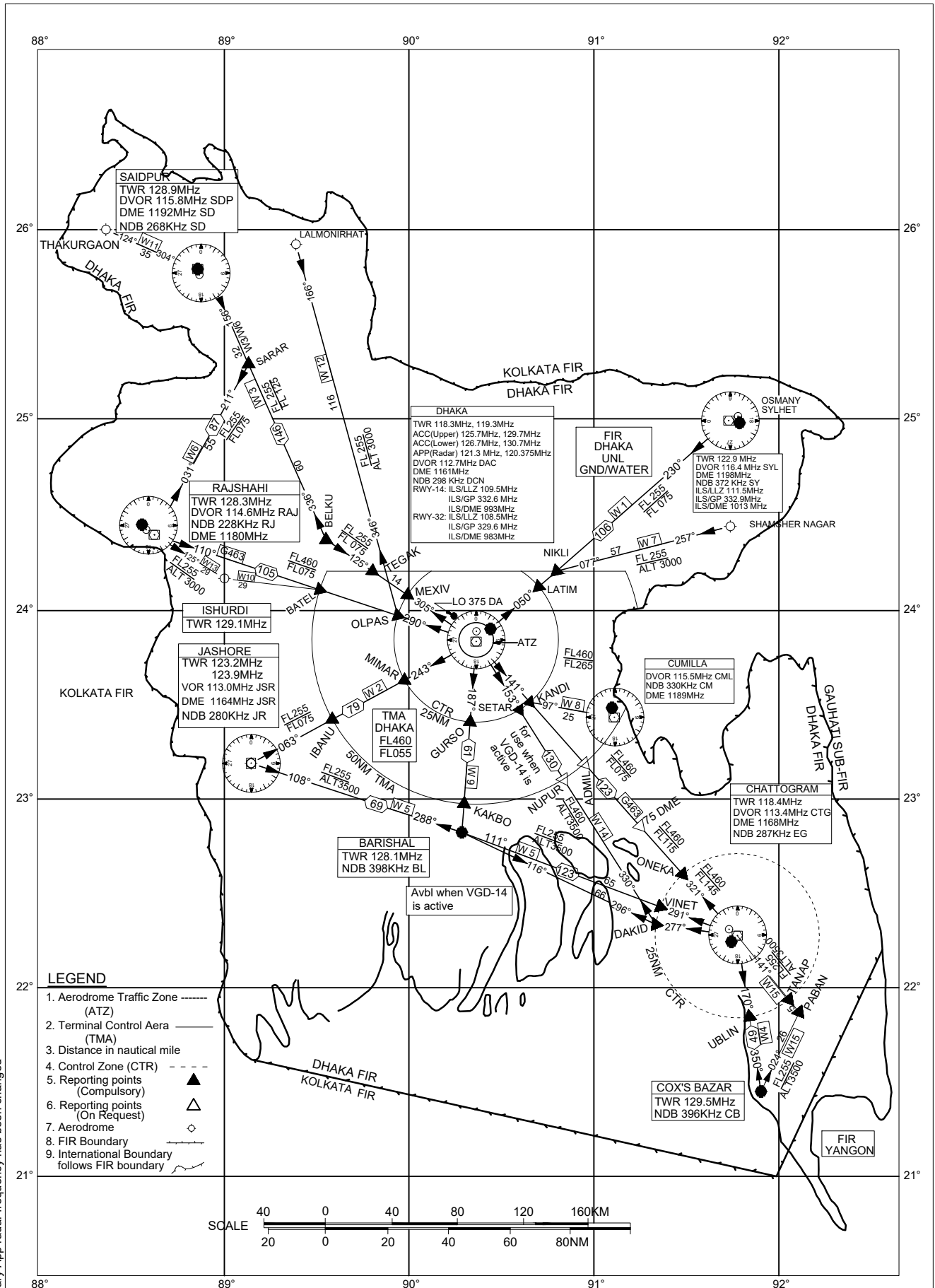
① Aircraft to report positions to DHAKA CONTROL also

21 00N 092 00E

SCALE
40 0 40 80 120 160 KM
20 0 20 40 60 80 NM

Secondary App radar frequency has been changed

DOMESTIC ATS ROUTES IN BANGLADESH



Secondary App radar frequency has been changed

VGHS AD 2.16 HELICOPTER LANDING AREA
As directed by ATC

VGHS AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

1	Designation	Dhaka Control Zone
	Lateral limits	A circle of 25 NM radius centered at Dhaka VOR (234927.42N 0902446.52E) except that portion which falls north of the straight line joining points 241147N 0903550E and 241147N 0901350E
2	Vertical limits	GND to FL055
3	Airspace Classification	C
4	ATS Unit call sign Language	Dhaka Tower English
5	Transition altitude	4000 ft AMSL
6	Remarks	Nil

1	Designation	Aerodrome Traffic Zone (ATZ)
	Lateral limits	ATZ is oval shaped area joining outer tangents of 5NM (9 km) radius circles centered at the RWY centre and both ends of RWY
2	Vertical limits	4000 FT
3	Airspace Classification	C
4	ATS Unit call sign Language	Dhaka Tower English
5	Transition altitude	4000 FT AMSL
6	Remarks	Nil

VGHS AD 2.18 AIR TRAFFIC SERVICES COMMUNICATIONS FACILITIES

Service Designator	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
ACC	Dhaka Control	125.7 MHz	FM 1400 to 0200 UTC (next day)	EMERG FREQ 121.5MHz
ACC (Upper)	Dhaka Control	PRI 125.7 MHz SRY 129.7 MHz	FM 0200 to 1400 UTC	FL285 TO FL460
ACC (Lower)	Dhaka Control	PRI 126.7 MHz SRY 130.7 MHz	FM 0200 to 1400 UTC	GND TO FL285
TWR (Aerodrome and Approach Control (Non-Radar))	Dhaka Tower	PRI 118.3 MHz SRY 119.3 MHz	H24	EM: A3
APP (Radar)	Dhaka Approach	PRI 121.3 MHz SRY 120.375 MHz	H24 except Saturday On Saturday BTN 0800-1400 NOT avbl	Jurisdiction: Dhaka Control Zone and part of Dhaka TMA upto FL 155
SMC	Dhaka Ground	121.8 MHz	H24	NIL
Air Ground	Dhaka Radio	3491 KHz, 6556 KHz, 10066 KHz, 2947 KHz	H24	MWARA (3491,6556,10066)KHz RDARA (2947)KHz EM: A3 coordinate: 235057.20N 0902413.24E
ATIS	Dhaka Information	127.4 MHz	H24	Nil

52.	Mohakhali Tower, H#82, Mohakhali	234651.40 N	902414.00 E	265	80.77	Yes
53.	Medona Tower, H#28, Mohakhali.	234651.80 N	902417.10E	224	68.28	Yes
54.	Rupayon Center, H# 72, Mohakhali	234649.30N	902421.20E	278	84.73	Yes
55.	Nitol Center, H # 71, Mohakhali	234649.30 N	902421.90 E	222	67.67	Yes
56.	IL Engineers Bhaban, H#69, Mohakhali.	234649.10 N	902423.20 E	300	91.44	Yes
57.	Square Center, HH#48, Mohakhali	234650.40 N	902425.70 E	261	79.55	Yes
58.	BRAC University, H#66, Mohakhali	234648.00 N	902425.70 E	265	80.77	Yes
59.	BAY, H#50, Mohakhali.	234649.80 N	902427.30 E	267	81.38	Yes
60.	Kaderia Tower, 28/8-B, Mohakhali	234649.70 N	902436.90 E	208	63.40	Yes
61.	BRAC Center, H# 75, Mohakhali	234647.70 N	902436.70 E	288	87.78	Yes
62.	Rangs Water Front, H#1, Gulshan1	234652.60 N	902442.90 E	234	71.32	Yes
63.	GulshanVill, H#3, Gulshan-1	234653.10 N	902447.50 E	209	63.70	Yes
64.	Navana Tower, H#45, Gulshan-1	234448.90 N	902500.60 E	314	95.71	Yes
65.	Jabbar Tower, H#42, Rd#135, Gulshan-1	234646.80 N	902500.90 E	245	74.68	Yes
66.	F & I Tower, H#220/A/1, West Kafrul.	234715.50 N	902237.90 E	141	42.98	Yes
67.	P.R.Tower, H#924/1, Shewrapara.	234729.50 N	902231.60 E	142	43.28	Yes
68.	Arabian Tower , H#849/3, Shewrapara.	234723.20 N	902234.60 E	138	42.06	Yes
69.	Youth Group, H#822/2, East Kafrul.	234719.20 N	902235.90 E	159	48.46	Yes
70.	MisamiBitopi, H#822/3, East Kafrul.	234718.50 N	902236.50 E	167	50.90	Yes
71.	DGFI Office, Kachukhet, Dhaka Cant.	234725.90 N	902318.10 E	239	72.85	Yes
72.	IDB Bhaban, E/8, Agargaon.	234642.60 N	902245.80 E	320	97.54	Yes
73.	LGED-RDEC BhabanAgargaon.	234641.10 N	902240.30 E	219	66.75	Yes
74.	Asha Tower, 23/3, Shyamoli.	234624.30 N	902200.00 E	205	62.48	Yes
75.	BijoySharoni, Tower, 121/3, Tejkunipara	234550.20 N	902323.00 E	155	47.24	Yes

1. STANDARD INSTRUMENT DEPARTURES (SIDs)-HSIA, DHAKA

All take-off shall be noise abated.
Factors common to all SIDs are:

- i) The radials shall be reference to the Dhaka VOR
- ii) Aircraft should intercept their cleared track by 10 DME Dhaka.
- iii) All references to altitude shall be QNH.

DEPARTURE RUNWAY 14

ATS route Designator	TMA Boundary Designator	SID Designator	Routing after take- off
W1	NIKLI	NIKLI ONE	Maintain Runway heading to 1000 ft then turn left to intercept the 050 radial.
		NIKLI ONE ALFA	Maintain Runway heading to 2000 ft then turn left to intercept the 050 radial.
G463	ADMIL	ADMIL ONE	Intercept the 141 radial.
A462	IKOGU	IKOGU ONE	Maintain Runway heading to 1000 ft then turn right and cross radial 175 at or above 2000 ft to intercept 237 radial.
		IKOGU ONE ALFA	Maintain Runway heading to 2000 ft then turn right to intercept 237 radial.
W2	IBANU	IBANU ONE	Maintain Runway heading to 1000 ft then turn right and cross radial 175 at or above 2000 ft to intercept 243 radial.
		IBANU ONE ALFA	Maintain Runway heading to 2000 ft then turn right to intercept 243 radial.
G463	BATEL	BATEL ONE	Maintain Runway heading to 1000 ft then turn right and cross radial 175 at or above 2000 ft to intercept 290 radial.
		BATEL ONE ALFA	Maintain Runway heading to 2000 ft then turn right to intercept 290 radial.
W3	TEGAK	TEGAK ONE	Maintain Runway heading to 1000 ft then turn right and cross radial 175 at or above 2000 ft to intercept 305 radial.
		TEGAK ONE ALFA	Maintain Runway heading to 2000 ft then turn right to intercept 305 radial.
W9	KAKBO	KAKBO ONE	Maintain Runway heading to 1000 ft then turn right and cross radial 175 at or above 2000 ft to intercept 187 radial.
		KAKBO ONE ALFA	Maintain Runway heading to 2000 ft then turn right to intercept 187 radial.
W14	NUPUR	NUPUR ONE	Intercept the 150 radial.
		NUPUR ONE ALFA	Maintain Runway heading to 2000 ft then turn right to intercept 150 radial.

AD 2 AERODROMES
VGSY AD 2.1 AERODROME LOCATION INDICATOR AND NAME
VGSY – OSMANI INTERNATIONAL AIRPORT, SYLHET

VGSY AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATION DATA

1	ARP coordinates and site at AD	245740.83N 0915217.89E in the RWY
2	Distance and direction from city	05 NM N/NE of Town
3	AD elevation/reference temperature	50 FT/35.4°C
4	MAG VAR	1° W
5	AD administration, address, telephone, fax, AFS	Civil Aviation Authority of Bangladesh Postal address: Airport Manager, Osmani International Airport, Sylhet, Postal code 3102, Bangladesh Telephone : APM – 0821-714243 Control TWR – 0821-718459, VGSYZTZX
6	Types of traffic permitted	IFR/VFR
7	Remarks	Nil

VGSY AD 2.3 OPERATIONAL HOURS

SL Nr.	Services	Hours
1	Aerodrome Administration	0900 L T to 1700 LT, FRI & SAT closed
2	Custom and Immigration	HO
3	Health and Sanitation	HO
4	AIS briefing office	NIL
5	ATS reporting office (ARO)	HO
6	MET briefing office	HO
7	Air traffic service	HO
8	Fuelling	HO
9	Handling	HO
10	Security	HO
11	De-icing	NIL
12	Remarks	NIL

VGSY AD 2.4 HANDLING SERVICES AND FACILITIES

Manual Handling

VGSY AD 2.5 PASSENGER FACILITIES

1	Hotels	AVBL within 2 Km FM airport
2	Restaurant accommodation	Limited at the airport
3	Transportation available	Taxies, Microbus, Car, Auto rickshaws
4	Medical facilities	Only first Aids AVBL.
5	Banks	AVBL
6	Tourist office	AVBL within 2 KM FM airport
7	Remarks	NIL
9	Post Office	NIL

VGSY AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD Category for fighting	CAT : 8 AVBL : 8
2	Rescue Equipment	AVBL to meet the ICAO requirement for CAT 8
3	Disabled Aircraft Removal	NIL
4	Remarks	NIL

VGSY AD 2.7 SEASONAL AVAILABILITY CLEARING

2.7.1 The airport is available for all seasons. Side stripes become unusable during monsoon. There is no requirement for clearing.

VGSY AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	Surface : Bituminous Concrete Strength: PCN 40/F/C/Y/T(old apron), 70/R/C/X/T(new apron)
2	Taxiway width, surface and strength	Width : 75 ft Surface : Bituminous Concrete Strength: PCN 40/F/C/Y/T (Taxiway-A), 101/F/C/X/T (Taxiway-B)
3	ACL location and elevation	Not designated
4	Remarks	Nil

VGSY AD 2.9 SURFACE MOVEMENT GUIDANCE, CONTROL SYSTEM AND MARKINGS

1	Stand identification/taxiway guidelines/ visual docking/parking guidance	Taxiing guidance signs at intersection with TWY and RWY. Guidance at apron: Nose-in guidance at aircraft stands. - Due to parking and maneuvering problem, all ACFT with wing-span more than 80ft operating to/fm Osmani International Airport are required to have tow bar for pushback.
2	RWY and TWY markings and LGT	RWY marking aids: THR, Centre line, RWY designator all runways, Touchdown zone marking. TWY marking aids: TWY centerline, RWY Holding Position
3	Stop bars	NIL
4	Remarks	NIL

VGSY AD 2.10 AERODROME OBSTACLES

SL Nr	Name of the significant obstacles/obstructions	Co-ordinates of the Obstacle	True Bearing FM REF point	Dist FM REF Point (m)	Elevation AMSL (FT)
	DVOR	245747.75 N 915142.06 E	283.20	1019	74
	AWOS	245801.83 N 915112.79 E	---	---	63
	Control Tower	245731.19 N 915214.92 E	197.39	278	118
	Light Mast-01	245727.10 N 915216.77 E	184.64	407	127
	Light Mast-02	245726.12 N 915219.05 E	175.77	426	127
	Light Mast-03	245725.19 N 915221.04 E	---	---	127
	Light Mast-04	245724.38 N 915223.06 E	---	---	127
	Light Mast-05	245732.65 N 915209.65 E	227.07	315	133
	Light Mast-06	245727.10 N 915213.11 E			130
	Grand Sylhet (building)	245718.46 N 915140.35 E	236.15	1241	195.
	Mobile Antenna Tower	245708.25 N 915151.19 E	216.88	1241	215
	TV Mast	245338.20 N 915245.70 E	180	17594	499
	Chimney-1	245815.08 N 915152.25 E	313.44	1593	123
	Chimney-2	245823.80 N 915133.10 E	---	---	143
	Jalalabad GAS Transmission building	245302.76 N 915253.37 E	174	8619	226
	Kailastila Gas Field	245204.96 N 920124.40 E	124	18521	226
	Hill Side Apartment	245706.47 N 915152.25 E	---	---	173
	App Path-29 Elec. Pole	245726.13 N 915258.89 E	---	---	88
	RAB Mast, Rab-9 Majortila, Islampur	245350.87 N 915433.52 E	---	---	218
	Radio Mast, Majortila, Islampur	245338.20 N 915422.34 E	---	---	416
	Jhanditila, Near Kalagul Tea Garden, Khadimnagar.	245630.58 N 915513.60 E	---	---	243

VGSY AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET office	Osmani Int'l Airport Sylhet (VGSY)
2	Hours of service	HO
3	Office responsible for TAF preparation Periods of validity (hours)	Hazrat Shahjalal Int'l (VGHS) 6
4	Type of landing forecast Interval of issuance	--
5	Briefing/consultation provided	Provided at VGHS
6	Flight documentation Languages used	C, PL English
7	Charts and other information available for briefing or consultation	--
8	Supplementary equipment available for providing information	--
9	ATS units provided with information	TWR
10	Additional information	Tel: NIL

VGSY AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designator RWY NR	TRUE & MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY & SWY	THR Coordinates	THR elevation (FT)	Slope of RWY- SWY
1	2	3	4	5	6	7
11	114 ⁰ True	3125X45	PCN 101/F/C/X/T (RWY) PCN 89/F/C/X/T (SWY)	245809.25 N 0915104.29 E	50	0.16 %
29	294 ⁰ True	3125X45	Bituminous Concrete	245729.65 N 0915246.85 E	50	0.16 %

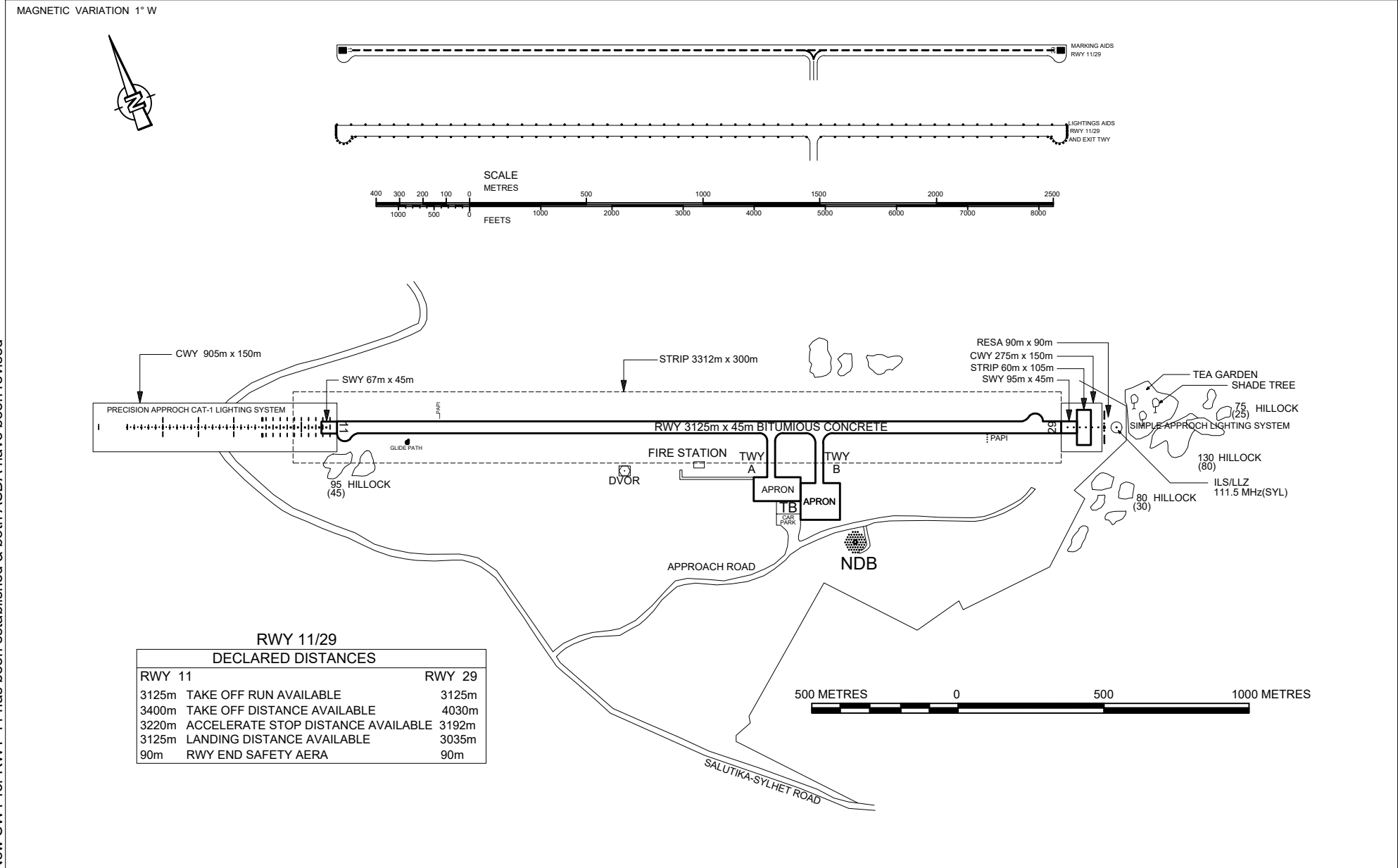
Designator RWY NR	SWY Dimensions (m)	CWY Dimensions (m)	Strip Dimensions (m)	RESA(m)	OFZ	Remarks
8	9	10	11	12	13	14
11	95 X 45	275 X 150	3312 X 300	90x90	within the clearway	NIL
29	67 X 45	905 X 150	3312 X 300	90x90	within the clearway	

VGSY AD 2.13 DECLARED DISTANCES

RWY	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	REMARKS
1	2	3	4	5	6
11	3125	3400	3220	3125	NIL
29	3125	4030	3192	3035	Due displaced threshold (245730.79 N 0915243.89 E)

VGSY AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH	THR	VASIS PAPI	TDZ	RWY Centre line	RWY edge	END & WBAR	STW LGT	Remarks
1	2	3	4	5	6	7	8	9	10
11	Precision approach lighting system (CAT-1)	Six Green LGT	3 ⁰ PAPI	NIL	NIL	60 m apart lights intensity	AVBL	NIL	
29	Simple approach lighting system	Six Green LGT	3 ⁰ PAPI	NIL	NIL	100%, 80 %, 60 %.	AVBL	NIL	



New SWY for RWY 11 has been established & both ASDA have been revised

VGCB AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VGCB –COX’S BAZAR AIRPORT, COX’S BAZAR.

VGCB AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATION DATA

1	ARP coordinates and site at AD	212718.70 N 915749.57 E, Centre of the RWY.
2	Distance and direction from city	02 km from city center
3	AD elevation/reference temperature	12 ft/ 340C
4	MAG VAR	50’’ W
5	AD administration, address, telephone, telefax, telex, AFS	Civil Aviation Authority of Bangladesh Postal address: Airport Manager Cox’s Bazar Airport, Cox’s Bazar Bangladesh Telephone : APM : 88-02333346980 (Off) 88-02333346981(Res) 88-02333346982 (Fax) TWR : 88-02333346987
6	Types of traffic permitted IFR/VFR	IFR/VFR
7	Remarks	Nil

VGCB AD 2.3 OPERATIONAL HOURS

SL Nr.	Services	Hours
1	Aerodrome Administration	0900LT to 1700 LT except FRI, SAT & Government Holidays
2	Custom and Immigration	Nil
3	Health and Sanitation	HO
4	AIS briefing office	Nil
5	ATS reporting office (ARO)	HO
6	MET briefing office	HJ
7	Air traffic services	HO
8	Fuelling	Nil
9	Handling	Nil
10	Security	HO
11	De-icing	Nil
12	Remarks	Nil

VGCB AD 2.4 HANDLING SERVICES AND FACILITIES
NIL

VGCB AD 2.5 PASSENGER FACILITIES

1	Hotels	AVBL
2	Restaurant	AVBL
3	Transportation available	Taxi, Microbus, Auto -rickshaws and Rickshaws
4	Medical facilities	AVBL
5	Banks and Post Office	AVBL
6	Tourist office	AVBL
7	Remarks	Cox's Bazar is the most important tourist spot in Bangladesh and longest sea beach in the world

VGCB AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD Category for fire fighting	CAT: 7 AVBL: 7
2	Rescue Equipment	AVBL
3	Disabled Aircraft Removal	Nil
4	Remarks	Nil

VGCB AD 2.7 SEASONAL AVAILABILITY CLEANING

2.7.1 The airport is available for all seasons, Side strips become unusable during monsoon. There is no requirement for clearing.

VGCB AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	Surface: Bituminous Concrete Strength: PCN 63/R/C/W/T
2	Taxiway width, surface and strength	Width:15 M Surface: Bituminous Concrete Strength: PCN 63/R/C/W/T
3	ACL location and elevation	Not designated
4	Remarks	NIL

VGCB AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Stand identification/taxiway guide lines/visual docking/parking guidance	Taxiing guidance signs at all intersections TWY and RWY at all holding positions. Guidelines at apron. Nose- in guidance at aircraft stands.
2	RWY and TWY markings and LGT	RWY markings : THR, Centre line RWY designator : Both runways TWY markings : RWY holding position and TWY centre line RWY LGT : Edge LGT, THR LGT and End LGT TWY LGT : Edge LGT
3	Stop bars	NIL
4	Remarks	NIL

VGIS AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VGIS -ISHURDI AIRPORT, ISHURDI.

VGIS AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATION DATA

1	ARP co-ordinates and site at AD	240912.57N, 890256.25E
2	Distance and direction from city	03 NM North of Town.
3	AD elevation / reference temperature	46ft/40.4°C
4	MAG VAR	40' W
5	AD administration, address, telephone telefax, telex, AFS	Civil Aviation Authority of Bangladesh Postal address: Airport Manager Ishurdi Airport, Ishurdi Bangladesh Telephone : APM/TWR 07326-63569
6	Types of traffic permitted IFR/VFR	IFR/VFR
7	Remarks	Nil

VGIS AD 2.3 OPERATIONAL HOURS

SL. No.	Services	Hours
1.	Aerodrome Administration	0900 LT to 1700 LT except FRI, SAT & Government Holidays
2.	Custom and Immigration	NIL
3.	Health and Sanitation	HO
4	AIS briefing Office	NIL
5	ATS reporting Office (ARO)	HO
6	MET briefing Office	HO
7	Air traffic service	HO
8	Fueling	NIL
9	Handling	NIL
10	Security	HO
11	De-icing	NIL
12	Remarks	NIL

VGIS AD 2.4 HANDLING SERVICES AND FACILITIES

NIL

VGIS AD 2.5 PASSENGER FACILITIES

1	Hotels	Nil
2	Restaurant	AVBL, capacity- 20 persons.
3	Transportation available	Buses, Rickshaws and Taxies.
4	Medical facilities	Only first aids available.
5	Banks an post Offices	Bank available.
6	Tourist office	Nil
7	Remarks	Nil

VGIS AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD Category for fire fighting	CAT: NIL AVBL: NIL
2	Rescue Equipment	AVBL
3	Disabled Aircraft Removal	Nil
4	Remarks	Nil

VGIS AD 2.7 SEASONAL AVAILABILITY CLEARING

2.7.1 The airport is available for all seasons. Side strips become unusable during monsoon. There is no requirement for clearing.

VGIS AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA.

1	Apron surface and strength	Surface: Bituminous Concrete Strength: PCN 12/R/C/Y/T
2	Taxiway width, Surface and Strength	Width: 50 FT, 75 FT and 100 FT. Surface: Bituminous Concrete Strength: PCN 12/R/C/Y/T
3	ACL location and elevation	Not designated
4	Remarks.	NIL

VGIS AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKING

1	Stand identification/ taxiway guide lines/ visual docking/ Parking guidance	Taxiing guidance signs at all intersections with TWY and RWY at all holding positions. Guidelines at apron. Nose-in guidance at aircraft stands.
2	RWY and TWY markings and LGT	RWY marking aids: THR, Centre line, RWY designator all runways TWY marking aids: TWY center line-all TWYs.
3	Stop bars	Nil
4	Remarks	Nil

AERODROME CHART-ICAO TYPE-A

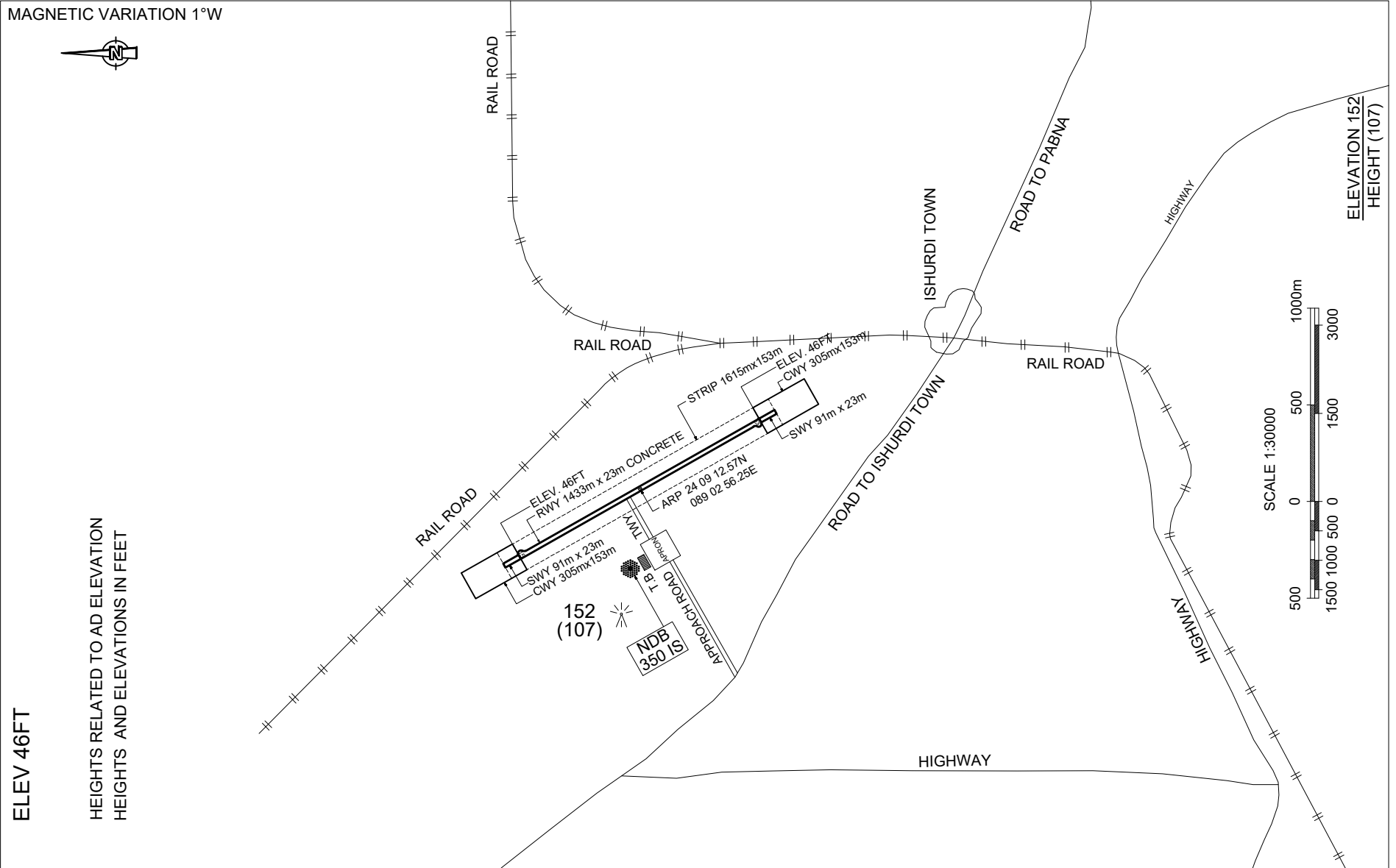
ISHURDI AIRPORT, ISHURDI, PABNA

MAGNETIC VARIATION 1°W

ARP Elev has been corrected & both THR Elev have been inserted

ELEV 46FT

HEIGHTS RELATED TO AD ELEVATION
HEIGHTS AND ELEVATIONS IN FEET



VGJR AD 2.10 AERODROME OBSTACLES

Sl.Nr	Name of the Critical Points/Obstacles/Structures	WGS-84 Co-ordinates		Elevation	Remarks
		Latitude	Longitude	Feet	
1.	DVOR	23°12'06.37" N	89°09'10.37" E	50	
2.	NDB	23°10'30.57" N	89°09'42.31" E	79	
3.	Control Tower	23°10'38.17" N	89°09'38.85" E	127	
4.	Robi Mobile Tower (On the roof of Ms Orchid Centre), 44 M K Road	23°09'54.35"N	89°12'48.26"E	222	
5.	Civil Apron Mast Light 1	23°10'37.42" N	89°09'39.81" E	103	
6.	Civil Apron Mast Light 2	23°10'34.43" N	89°09'41.26" E	104	
7.	Civil Apron Mast Light 3	23°10'31.30" N	89°09'42.88" E	104	
8.	Police Line Mast	23°10'25.16" N	89°11'42.16" E	227	
9.	DGFI Mast, Jashore Cantonment	23°10'27.47" N	89°11'08.49" E	181	
10.	Wind Socks RWY-34	23°10'35.06" N	89°09'48.12" E	42	
11.	Wind Socks RWY-16	23°11'31.10" N	89°09'29.52" E	46	
12.	Noapara Radio Mast	23°02'55.91" N	89°22'47.00" E	400	
13.	Arresting Barriers	---	---	31	386 ft fm RWY 16, 94 ft fm THR RWY 34
14.	VDF Aerial Mast	---	---	110	173 ⁰ MAG fm THR RWY 16
15.	GCA Radar	---	---	60	1179 m (SE) fm THR RWY 16 and 132.08 m off set fm RWY centre line
16.	Rajarhat Mast	230830.60N	891432.46E	318	5NM on BRG 111 ⁰ M fm Control TWR
17.	Garrison Mosque	---	---	115	050 ⁰ MAG fm Control TWR1.7 km (approx)

VGJR AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET office	Jashore Airport (VGJR)
2	Hours of service	HJ
3	Office responsible for TAF preparation Periods of validity (Hours)	Hazrat Shahjalal Intl (VGHS)
4	Type of landing forecast Interval of issuance (Hours)	
5	Briefing/ consultation provided	P, D, T
6	Flight documentation languages used	C,PL English
7	Charts and other information available for briefing or consultation	S, U
8	Supplementary equipment available for providing information	
9	ATS units provided with information	TWR
10	Additional information	Tel: Nil

VGJR AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designator RWY NR	TRUE & MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY & SWY	THR Coordinates	THR elevation (FT)	Slope of RWY-SWY
1	2	3	4	5	6	7
16	157° TRUE	2420X45	PCN 17F/C/W/T Bituminous concrete	231137.94 N 890922.92 E	20	0%
34	337° TRUE	2420X45		231025.65 N 890955.32 E	20	0%

Designator RWY NR	SWY dimensions (m)	CWY dimensions (m)	RESA	Strip dimensions (m)	OFZ	Remarks
	8	9	10	11	12	13
16	NIL	150 X 150	90X90	2600 X 150	Within the CWY	Nil
34	60 X 45	210 X 150	90X90	2600 X 150	Within the CWY	Nil

VGJR AD 2.13 DECLARED DISTANCES

RWY	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	REMARKS
1	2	3	4	5	6
16	2420	2570	2420	2420	Due to introduction of RESA
34	2420	2630	2480	2420	

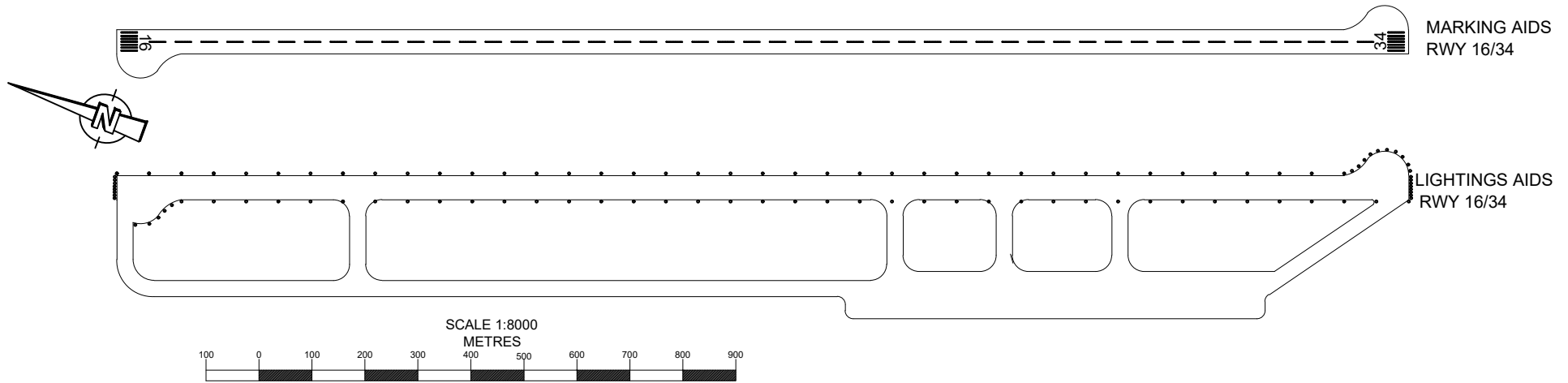
VGJR AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY designator	APCH	THR	PAPI	TDZ	RWY Centre	RWY edge	END & WBAR	STWL	Remarks
1	2	3	4	5	6	7	8	9	10
16	Simple Approach lighting system Length: 280 M	Six green LGT	PAPI	NIL	NIL	60 m apart 73 Nr White Omni- directional with fixed intensity	END: Avbl 6 Red LGT Unidirectional	NIL	Kerosene flares avbl
34	Simple Approach lighting system Length : 150 M	Six green LGT	PAPI	NIL	NIL	60 m apart 73 Nr White Omni- directional with fixed intensity		NIL	

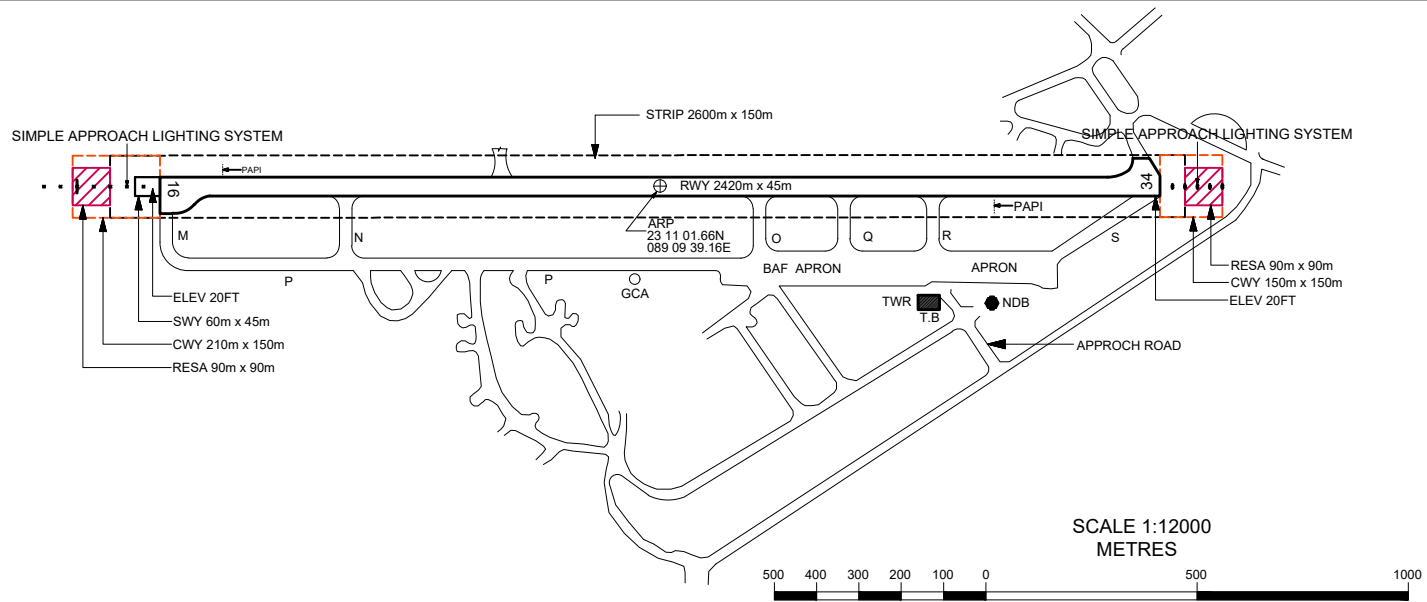
AERODROME CHART-ICAO TYPE-A

JESSORE AIRPORT, JESSORE

MAGNETIC VARIATION 1°W



NEW SIMPLE APPROACH LIGHTING SYSTEM AT RWY 34 HAS BEEN ESTABLISHED



VG TJ AD 2.10 AERODROME OBSTACLES

In approach/TOFF area			
Rwy effected	Obstacle type elevation	Position	LGT
35	Apartment Building 144 FT	East of extended centre line 1244 M FM THR RWY 35	Yes
35	Bashundhara Building 159 FT	1.7 KM on brg 166 ⁰ FM THR RWY-35	Yes
17	Old LOS Mast 325 FT	1 KM on brg 125 ⁰ FM THR RWY-17	Yes

In circling area				
RWY affected	Obstacle type	Position	Marking/ LGT	Remarks
17/35	Bricks structure (Dimension 1650X75FT) 6FT	220 ft offset to the West side of RWY centre line	No	Tejgaon is adjacent to Hazrat Shahjalal International Airport (VGHS). All the Obstructions at/around VGHS will be considered as obstacles for Tejgaon (VG TJ).
17/35	Bricks structure (Spectrum Gallery) (Dimension 1000X60FT) 4FT	220 ft offset to the West side of RWY centre line	No	
17/35	Bricks structure (Spectrum Gallery) (Dimension 900X60FT) 4FT	220 ft offset to the West side of RWY centre line	No	
17/35	IDB Bhavan Antenna 325 FT	1200 ft offset to the West side of RWY centre line	Yes	

VG TJ AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

2.11.1 Crews may receive weather briefing at Met office located at BAF Base Bashar.

VG TJ AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

RWY Designations	True / Mag BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY & SWY	THR Coordinates	THR Elevation (FT)	Slope of RWY-SWY
			RWY SWY			
1	2	3	4	5	6	7
17	166° T	2622X30	PCN40F/C/Y/T Bituminous Concrete	234724.94N 0902244.87E	24 ft	0.06%
35	346° T	2622X30	PCN40F/C/Y/T Bituminous Concrete	234602.74N 0902309.83E	24 ft	0.06%
RWY Designations	SWY Dimensions(M)	CWY Dimensions(m)	Strip Dimensions (m)	OFZ	Remarks	
	8	9	10	11	12	
17	144X30	208X50	2834X150	Within the CWY	Nil	
35	68X30	268X50	2834X150	Within the CWY	Nil	

VG TJ AD 2.13 DECLARED DISTANCES

RWY	TORA (M)	TODA (M)	ASDA(M)	LDA (M)	Remarks
1	2	3	4	5	6
17	2622	2830	2766	2622	NIL
35	2622	2890	2690	2622	NIL

VG TJ AD 2.14 APPROACH AND RUNWAY LIGHTING

NIL

VG TJ AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY.

NIL

VG TJ AD 2.16 HELICOPTER LANDING AREA

As directed by ATC

VG TJ AD 2.17 AIRTRAFFIC SERVICES, AIRSPACE

1	Designation	Tejgaon Tower
	Lateral limits	A portion of the Dhaka CTR laterally bounded by a closed line obtained by joining A(234116.57N, 0902427.57E) to B(232428.23N, 0902223.48E) then along an arc of radius 25NM from Dhaka VOR upto C(235552.71N), 0895824.17E) then to D(234920.99N), 0902209.78E) there fter along the center line of the RWY to A(234116.57N, 0902427.57E).
2	Vertical limits	1000FT (AMSL)
3	Airspace Classification	C
4	Call Sign of ATC Unit	TejgaonTower
	Language	English
5	Transition Altitude	4000 FT
6	Hours of Applicability	0100UTC to Sunset
7	Remarks	Nil.

1	Designation	ATZ
	Lateral limits	2 NM-To the North from threshold RWY17, 5 NM-To the South & West (semicircular from center of runway)
2	Vertical limits	1000FT (AMSL)
3	Airspace Classification	C
4	Call Sign of ATC Unit	TejgaonTower
	Language	English
5	Transition Altitude	4000 FT
6	Hours of Applicability	0100 UTC to Sunset
7	Remarks	Nil.

VG TJ AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

1	Service designator	Air Traffic control service
2	Call sign	TejgaonTower
3	Frequency	123.0MHz (PRY) 122.9 MHz (SRY)
4	Hours of operation	0100 UTC to sunset
5	Remarks	1) Service provided by Bangladesh Air force 2) HF/RT 6826 KHz for coordination.