SAGAR ISLAND LIGHTHOUSE MASTER LEDGER



1. Name Saugor Island Lighthouse & DGPS Station

2. *Sr. No.* (*A.L.O.L.*) F 1028

3. *Position* Lat. 21⁰ 39.4'N

Long. 88⁰ 02.9'E

4. Elevation of ground 2 m

5. Elevation of tower 26 m

6. Character of light FL (W) in every 3 Sec

7. Range in nautical miles

i) Luminous 25 NMii) Geographical 17 NM

8. Lighthouse Tower

i) Type Circular Cast Iron Tower

ii) Height 24 m

iii) Color Scheme Red and White Band

9. Optical equipment

(i) Make Chance Brothers, Birmingham, England

(ii) Size 4th order (focal length 250mm)

(iii) No. of Panels 8

(iv) Focal Length 250 mm

(v) RPM

(vi) Duration of Flash 0.3 Sec

(vii) Illuminant 400W MH Lamp

(viii) Divergence 4.35 (Horiz.) & 2.10 (Vert.)

(ix) Luminous intensity 1,32,500 cd

10. *Innovation* No innovation has been carried out since take over from

Kolkata Port Trust on 2011.

11. Lantern

i) Diameter 3m
ii) Height of glazing 1.93 m
iii) No. of glass panes 80 Nos.
iv) Ventilators 6 Nos.

12. *Pedestral* Mercury float (24 Kg in use)

13. *Power Supply*

i) *Mains* 3 Phase, 440 V, 50Hz AC Mains supply from WBSEDCL

ii) Solar

SI.No.	Types of Solar Power	Capacity	No. of Panels	Inverter	Remarks
1	OFF GRID	5 kWp	20 (each 250W	5KVA, Make	
			24V)	Genus	

iii) Standby

Gensets (02 Nos.)

A) Details of Engine

SI.No.	Engine Sl. No.	Make	BHP	No. of	RPM	Cooling	Date of
	_			Cylinder			Installation
1.	3.2107/1120683	Kirloskar	32	03	1500	Air Cooling	28.11.2016
2	03.8901/1620602	Kirloskar	32	03	1500	Air Cooling	06.07.2012

B) Details of Alternator

Sl. No.	Alternator SI. No.	Make	KVA	Voltage	Current (Amp)	Freq. (Hz)	Phase	RPM
1	CS1D011A119980	Kirloskar	20	230	83	50Hz	Single	1500
2	CS 1 D016C23382-H	Kirloskar	20	230	83	50Hz	Single	1500

14. Other Equipments

i) Battery Charger

NIL

ii) Stabilizer

Sr No	Input voltage	Output Voltage	KVA	Make	Freq.	Phase	Date of Installation
1	170-270VAC	230VAC	15	ServoMax	50Hz	Single	27.10.2017
2	170-270VAC	230VAC	15	ServoMax	50Hz	Single	27.10.2017
3	170-270VAC	230VAC	15	ServoMax	50Hz	Single	27.10.2017

iii) Inverter

Sr.	Particulars		Date of	Purpose	
No.			Installation	_	
1	1600 VA, 24V DC (input), 230V AC (output),	1 No.	24.12.2016	For Light beacon	
	Sukam make				

15. Remote monitoring and control system

All equipment's are remotely monitored by MCS at Deep Bhavan, Kolkata

i) Main Panel 1 No. installed at power house.

ii) Remote Paneliii) No. installed at base of the Lighthouse tower.iii) UPS1 No.1 KVA, APC make placed inside main Panel.

iv) Communication VSAT

iv)VSAT 1 No. installed on roof top of power house.

v) Modem 1 No. placed inside main Panel.

16. *NAIS*

i) AIS Base station
ii) Modem
iii) Modem
iii) Router
iv) Switch
02 Nos. Saab make, installed at DGPS room (NAIS Rack).
01 No. Datum make, installed at DGPS room (NAIS Rack).
iv) Switch
01 No. Cisco make, installed at DGPS room (NAIS Rack).
iv) Switch
iv) Something of the properties of the p

v) GPS antennavi) VHF antenna02 Nos. installed at roof top of IQ.vi) VHF antenna02 Nos. installed at LH tower railing.

vii) UPS 02 Nos. 1KVA, APC make installed at DGPS room (NAIS Rack)

viii) Communication VSAT installed at rooftop of IQ.

ix) Date of commissioning February 2012

17. *DGPS*

i) Transmitter Nautel (Canada)

ii) Frequency 318 Hz iii) Power Output 500 W iv) Reference Station I, ID 434 v) Reference Station II, ID 435

vi) Integrity Monitor I&II GR 30 LEICA

vii) Beacon ID 117

viii) Personal Computer Make — Dell with Key Board & Mouse

With 01 No. Laser Printer Make — HP

ix) UPS Capacity — 10 KVA for Transmitter & ATU, Make-APC,

Capacity — 03 KVA for DGPS Rack, Make-APC,

Capacity — 01 KVA for Printer, Make-APC,

x) Batteries 16 Nos. SMF (42AH/12V), EXIDE make for l0KVA UPS.

06 Nos. SMF (42AH/12V), EXIDE make for 3KVA UPS.

xi) Date of Installation 27.11.2017

17. Fire Extinguisher

Sl.	Type	Capacity	Qty	Installed Place
No.				
I	DCP	5 Kg	4 Nos.	1 No. at service room, 1 No. at power house
				and 2 Nos. at store room.
2	CO2	9 ltr.	2 Nos.	1 No. at power house & 1 No. at store room.
3	CO2	6.5 ltr.	2 Nos.	Both at DGPS room
4	ABC	5 Kg	1 No.	Placed at power house
5	Fire Buckets	10 Litres	4 Nos.	Placed inside power house

18. Water Supply

2 HP motor (Crompton make) use to pump water from bore well to overhead tanks (04 Nos.) placed at roof top of staff quarters. 2 HP motor were supplied onl2.03.2016

19. *Land*

i) Area 6 Acre

ii) Demarcation Compound Wall.

iii) No. of fruit treesiv) No. of non-fruit bearing trees35

20. Building

i. 1No.Office cum power house cum IQ.

ii. I No. building which consist of AE (E) & NA-II Quarters (total 6 quarters).

iii. I No. twin LHA Qtr.

iv. I No. pump house.

v. I No. Coil Hut.

21. Contact details

i. Incharge Mobile No. 9601899925

ii. Office E-Mail saugardgps@gmail.com

iii. Postal Address Sagar Island Lighthouse & DGPS Station,

PO Beguakhali, Via Rudranagar, Sagar,

Dist. South 24 Parganas, West Bengal-743 373.

22. Mode of Approach

To visit the station one has to cross the Hooglyriver through Vessels from Lot No.8 Ghat to KachuberiaGhat. Distance from KachuberiaGhat to Lighthouse is approx. 32 Km. Nearest Railway Station is Kakdwip which is approx. 44 Km from Lighthouse.

23. Facilities Available

Post Office, Primary Health Center, Police Station and High School all are within 10 KM from Sagar Island Lighthouse.