

# GOPALPUR LIGHTHOUSE MASTER LEDGER



1.	<b>Name</b>	Gopalpur Lighthouse
2.	<b>Sr. No. (A.L.O.L.)</b>	F 0988
3.	<b>Position</b>	Lat. 19 <sup>0</sup> 15.3'N Long. 84 <sup>0</sup> 54.5'E
4.	<b>Elevation of ground</b>	8 m
5.	<b>Elevation of tower</b>	45 m
6.	<b>Character of light</b>	FL W 5 Sec.
7.	<b>Range in nautical miles</b>	
	i) Luminous	26.2 NM
	ii) Geographical	18.2 NM
8.	<b>Lighthouse Tower</b>	
	i) Type	Circular RCC Tower
	ii) Height	37 m
	iii) Color Scheme	Red & White Band
9.	<b>Optical equipment</b>	
	i) Make	BBT Paris
	ii) Size	4 <sup>th</sup> Order (large), revolving
	iii) Panels	4
	iv) Focal Length	300 mm
	v) RPM	3
	vi) Duration of Flash	0.25 Sec
	vii) Illuminant	150W MH lamp (03 Nos. in cluster)
	viii) Divergence	4.58 (Horiz.) & 2.29 (Vert.)
	ix) Luminous intensity	1,32,700 cd
10.	<b>innovation</b>	Innovation was carried out on 2003. 400W/230V MH lamp was replaced with cluster MH lamp (03 Nos. each 150W/230V wattage).
11.	<b>Lantern</b>	

- i) Diameter 2.4 m
- ii) Height of glazing 1.5 m
- iii) No. of glass panes 16 Nos.
- iv) Ventilators 7 Nos.

12. *Pedestal* Mercury Float (33.5 kg in use)

13. *Power supply*

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

ii) *Solar*

Sl. No.	Types of Solar Power	Capacity	No. of Panels	Inverter	Remarks
1	ON GRID	15 kWp	60 (each 250W 24V)	15KVA, Make : Power one	Net meter installed

iii) *Standby* Gensets (02 Nos.)

A. *Details of Engine*

Sl. No.	Engine Sl. No.	Make	BHP	No. of Cylinder	RPM	Cooling	Date of Installation
1.	02.2129/1320074	Kirloskar	20.5	02	1500	Air Cooling	18-11-2013
2	02.8301/1620284	Kirloskar	20.5	02	1500	Air Cooling	10-02-2017

B. *Details of Alternator*

Sl. No.	Alternator Sl. No.	Make	KVA	Voltage	Current (Amp)	Freq. (Hz)	Phase	RPM
1	CS 1B0130730-H	Kirloskar	15	230	62.5	50	Single	1500
2	CS 1B016E2817-H	Kirloskar	15	230	62.5	50	Single	1500

14. *Other Equipments*

i) *Battery Charger* : 01 No. Altime make, input voltage : 180 — 250 V AC, output : 12 & 24 VDC, supplied on 30.01.2017. Presently it is working.

ii) *Stabilizer* NIL

iii) *Inverter*

Sr. No.	Particulars	Qty	Date of Installation	Purpose
1	1450 VA, 24V DC (input), 230V AC (output), Exide make	1 No.	31.08.2015	For Light beacon
2	1400 VA, 24V DC (input), 230V AC (output), Sukam make	1 No.	09.11.2013	For NAIS

## 15. *Remote Monitoring and Control System*

All equipment's are remotely monitored by RCS at Paradeep and MCS at Deep Bhavan, Kolkata.

- i) Main control Panel 1 No. installed at power house.
- ii) Remote Panel 1 No. installed at service room.
- iii) UPS 1 No. 1 KVA, APC make placed inside main Panel.
- iv) Communication VSAT
- v) VSAT Antenna 1 No. installed on ground.
- vi) Modem 1 No. placed inside main Panel.

## 16. *NAIS*

- i) AIS Base station 01 Nos. Saab Transponder make, installed at Service room.
- ii) Modem 01 No. Tellabs, installed at Service room.
- iii) Router 01 No. Cisco make, installed at Service room.
- iv) Switch 01 No. Catalyst make, installed at Service room
- v) GPS antenna 02 Nos. installed at LH tower railing.
- vi) VHF antenna 02 Nos. installed at LH tower railing
- vii) UPS 01 No. 1KVA, APC make installed at Service room
- viii) Communication Lease Line
- ix) Date of commissioning January 2012

## 17. *Fire Extinguisher*

Sl. No.	Type	Capacity	Qty	Place of Installation
1	WaterCO2	9Litr	2Nos.	One at oil room and one at power house.
2	Foam	9Litr	1No.	Placed at store room
3	DCP	5KG	2Nos.	One at service room and one at SS equipment room.
4	ABC	5KG	1No.	Placed at Power House
5	Fire Buckets	10Litr	4Nos.	Varandah of power house

- 18. *7tacon* Code "G", dual band (X + S), Tideland make, Sl. No. 6310, installed on 26.09.2005

## 19. *Water Supply*

NAC (Notified area council) water supply is available. Apart from Municipal water supply, LH has 1 HP Jet pump motor (Texmo make) use to pump water from bore well to overhead RCC tank placed beside pump house and 1 HP mono block pump motor (Texmo make) use for gardening purpose. Jet pump were purchased on 04.10.2016 and Mono block pump were purchased on 16.05.2017.

## 20. *Land*

- i) Area 3.15 Acre
- ii) Demarcation Compound Wall.
- iii) No. of fruit trees 13
- iv) No. of non-fruit bearing trees NIL

## **21. Buildings**

- i) 1 No. Office cum power house cum store room.
- ii) 1 No. IQ
- iii) 1 No. NAG-I Qtr.
- iv) 1 No. NA-II Qtr.
- v) 1 Twin unit of NA-II Qtr.
- vi) 1 No. SRT Qtr/Oil room
- vii) 1 Twin unit of LHA Qtr.
- viii) 1 No. Pump House.

## **22. Contact Details**

- i) Office Mobile No. 0680 — 2343441
- ii) Office E-Mail hlkgopalpur@yahoo.com
- iii) Postal Address Gopalpur Lighthouse,  
PO— Gopalpur— On- Sea,  
Dist. Ganjam, Odisha — 761 002.

## **23. Mode of Approach**

The station is well connected by all-weather road. The nearest Railway Station is Brahmapur which is approx. 15 Km from Gopalpur Lighthouse.

## **24. Facilities Available**

Post Office, Primary Health Center, Police Station and Kendriya Vidyalaya all are within 5 KM from Gopalpur Lighthouse.

