

# PURI LIGHTHOUSE MASTER LEDGER



<b>1. Name</b>	<b>Puri Lighthouse</b>
<b>2. Sl. No. (in ALOL)</b>	F 1002
<b>3. Position</b>	Lat. 19 <sup>o</sup> 47' 24" N Long. 85 <sup>o</sup> 48' 22" E
<b>4. Elevation of ground</b>	5.2 m
<b>5. Elevation of tower</b>	30.2 m
<b>6. Character of Light</b>	FL (3) W 20 SEC
<b>7. Range in nautical miles</b>	
i.) Luminous	17 NM
ii.) Geographical	15 NM
<b>8. Lighthouse Tower</b>	
i.) Type	Circular RCC Tower
ii.) Height	25 m.
iii.) Color Scheme	Black and White Bands
<b>9. Optical Equipment</b>	TRB 220 (Revolving)
i) Make	Tideland Signal Corporation, USA
ii) Size	915 mm height & 445 mm Dia.
iii) No. of panels	6
iv) Focal Length	110 mm
v) RPM	3
vi) Duration of Flash	0.11 Sec
vii) Illuminant	70 Watt MH Lamp, 230 volts AC
viii) Divergence	2.40 (Horiz.) & 1.15 (Vert.)
ix) Luminous Intensity	26928 cd
<b>10. innovation</b>	: Innovation was carried out on august 2013. 100W/12V Halogen lamp of TRB 220 was replaced with 70W/230V MH Lamp.
<b>11. Lantern</b>	
i) Diameter	2.4 m
ii) Height of glazing	1.3 m

- iii) No. of glass panes 12 Nos.  
iv) No. of Ventilators 6 Nos.

12. *Pedestal*

Local Make

13. *Power supply*

- i) *Mains* 3 Phase, 440V, 50Hz Electric Mains  
Supply from CESU.  
ii) *Solar*

Sl.No.	Types of Solar Power	Capacity	No. of Panels	Inverter	Remarks
1	ON GRID	10 kWp	40 (each 250W 24V)	10KVA, Make : Power one	Net meter installed

iii) *Standby*

Gensets (02 Nos.)

A. *Details of Engine*

Sr No	Engine Sl. No	Make	BHP	No. of Cylinder	RPM	Cooling	Date of installation
1	21.1042/0100923	Kirloskar	12	2	1500	Air Cooled	14.04.2002
2	21.1042/0100675	Kirloskar	12	2	1500	Air Cooled	14.04.2002

B. *Details of Alternator*

Sr No	Alternator Sl. No	Make	KVA	Voltage	Frequency	Phase	RPM
1	MK20750783	Kirloskar	7.5	230	50Hz	Single	1500
2	MK20750783	Kirloskar	7.5	230	50Hz	Single	1500

14. *Other Equipments*

i) *Battery Charger*

02 Nos. AE make, each capacity 0-32 VDC, 15A.  
01 No. installed at Power House were supplied on 04.12.2009 & another installed at service room, supplied on 02.11.2013.

ii) *Stabilizer*

Sr No	Input voltage	Output voltage	KVA	Make	Freq.	Phase	Date of Installation
1	160-260 V AC	230 V AC	5	AE Ltd	50Hz	Single	29.05.2011

iii) *Inverter*

Sr. No.	Particulars	Qty	Date of Installation	Purpose
1	1500 VA, 24V DC (input), 230V AC (output), Sukam make	I No.	18.11.2013	For Light beacon
2	1400 VA, 24V DC (input), 230V AC (output),	I No.	09.03.2013	For NAIS

Sukam make			
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### 15. Remote Monitoring and Control System

All equipments 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 (interface between main panel and equipments in service room).
- iii) UPS 1 No. 1 KVA, APC make placed inside main Panel.
- iv) Communication VSAT
- iv) VSAT Antenna 1 No. installed on ground.
- v) Modem 1 No. placed inside main Panel.

### 16. NAIS

- i) AIS Base station 02 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 (BSNL)
- ix) Date of commissioning : March 2012

### 17. Fire Extinguisher

Sr. No.	Type	Capacity	Qty	Installed place
1	DCP	5 kg	02 Nos.	01 No. at Service room & 01 No. at Power House.
2	ABC	5 kg	01 No.	Power house
3	Water CO2	9 Ltrs	02 Nos.	01 No. at Service room & 01 No. at Power House.
4	Fire Buckets	10 Ltrs	04 Nos.	Placed at corridor of Power house.

### 18. Water Supply

Municipal Water supply is available. Apart from Municipal water supply, LH has 1 HP motor (Crompton make) use to pump water from bore well to overhead tank at staff quarters and technical building. 1 HP motor were supplied on August 2002.

### 19. Land

#### A) Lighthouse

- i. Area 0.606 Acre
- ii. Demarcation Compound Wall
- iii. No. of Fruit Bearing Trees 21
- iv. No. of Non-Fruit Trees 100

#### B) Storm Signal Control Centre

- i. Area 0.085 Acre
- ii. Demarcation Compound Wall
- iii. No. of Fruit Bearing Trees NIL

iv. No. of Non-Fruit Trees

NIL

**20. Buildings**

- i) I No. Office cum power house cum store room.
- ii) I No. IQ
- iii) I No. NAG-I Qtr.
- iv) I No. LHA Qtr.
- v) I No. pump house.
- vi) I No. Storm Signal Control Centre cum LHA Qtr.

**21. Contact Details**

- i) Office No. 06752-230622
- ii) Office E-Mail purihlk@yahoo.com
- iii) Postal Address Puri Lighthouse, Baliapanda  
Puri-752001, Dist. Puri, Odisha

**22. Mode of Approach**

The station is well connected by all weather road. The nearest Railway Station is Puri which is 6 Km from Puri Lighthouse. Nearest Airport is Bhubaneswar which is approx. 60 km from Puri LH.

**23. Facilities Available**

Post Office, Primary Health Center, Police Station and Kendriya Vidyalaya all are within radius of 8 KM from Puri Lighthouse.

