

PRAYAGI LIGHTHOUSE MASTER LEDGER



1. Name	Prayagi Lighthouse
2. SI. No. (in ALOL)	F 1000
3. Position	Lat. 19 ⁰ 28.00'N Long. 85 ⁰ 10.00'E
4. Elevation of ground	8.1 m
5. Elevation of tower	38.1 m
6. Character of Light	GR FL (2) W 10 SEC
7. Range in nautical miles	
i.) Luminous	17 NM
ii.) Geographical	16.4 NM
8. Lighthouse Tower	
i.) Type	Circular RCC Tower
ii.) Height	30 m.
iii.) Color Scheme	Spiral Red and White Bands
9. Optical Equipment	
i) Make	TRB 220 Tideland Signal Corporation, USA
ii) Size	915 mm height & 445 mm Dia.
iii) Panels	3
iv) Focal Length	110 mm
v) RPM	3
vi) Duration of Flash	0.2 Sec
vii) Illuminant	70 Watt MH Lamp, 230 volts AC
viii) Divergence	2.40 (Horiz.) & 1.15 (Vert.)
ix) Luminous Intensity	26928 cd
10. innovation	Innovation was carried out on august 2013. 100W/12V Halogen lamp of TRB 220 was replaced with 70W/230V MH Lamp.
11. Lantern	
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 SOUTHCO.

ii) *Solar*

Sl.No.	Types of Solar Power	Capacity	No. of Panels	Inverter	Remarks
1	ON GRID	10 kWp	32 (each 320W 24V)	10KVA, Make : Delta	Net meter installed

iii) *Standby*

Gensets (02 Nos.)

A. Details of Engine

Sr No	Engine No	Make	BHP	No. of Cylinder	RPM	Cooling	Date of installation
1	EA20D4.1616.92.1100116	Kirloskar	20	2	1500	Air Cooled	10.03.2012
2	HA-294/G102.8301/1620310	Kirloskar	20.5	2	1500	Air Cooled	15.08.2016

B. Details of Alternator

Sr No	Alternator No	Make	KVA	Voltage	Frequency	Phase	RPM
1	CSIB012A 18122-H	Kirloskar	15	230	50Hz	Single	1500
2	CSIB016E2900-H	Kirloskar	15	230	50Hz	Single	1500

14. *Other Equipments*

i) *Battery Charger*

- (i) 1 No Aplab Make, 0-32VDC, 0-20A max supplied on 20.03.2012. Presently not working.
(ii) 1 No. Altime Make, 0-20A max, supplied on 02.03.2017. Working conditions.

ii) *Stabilizer*

Sr No	Input voltage	Output voltage	Qty (Nos.)	KVA	Make	Frequency	Phase	Date of Installation
1	170-270 V AC	230 V AC	3	5	ITL	50Hz	Single	19.09.2012

iii) *Inverter*

Sr. No.	Particulars	Qty	Date of Installation	use	Condition
1	1500 VA, 24V DC (input), 230V AC (output), Sukam make	1 No.	08.04.2014	For Light beacon	Good
2	1500 VA, 24V DC (input), 230V AC (output), Sukam make	1 No.	21.09.2012	For NAIS	Good

15. Remote Monitoring and Control System

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

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

16. NAIS

- i) AIS Base station 02 Nos. Saab Transponder make, installed at Service room.
- ii) Switch 01 No. Cisco make, installed at Service room.
- iii) Modem 01 No. Datum system make, installed at Service room
- iv) GPS antenna 02 Nos. installed at LH tower railing.
- v) VHF antenna 02 Nos. installed at LH tower railing
- vi) UPS 01 No.1KVA APC make online UPS, installed at Service room
- vii) Communication VSAT
- viii) Date of commissioning : 01.12.2012

17. Fire Extinguisher

Sr. No.	Type	Capacity	Qty	Installed place
1	DCP	5 kg	01 No.	Service room
2	ABC	5 kg	01 No.	Power house
3	Water CO2	9 Ltrs	02 Nos.	One at store room & another one at base of LH tower.

18. Water Supply

Water is pump to the overhead tanks placed on roof-top of the IQ and staff quarters from bore well with 1.5 HP pump (Crompton greaves make) supplied on 10.04.2012. Another 0.5 HP pump (Crompton Greaves make) supplied on 08.07.2017 is in use for gardening.

19. Land

- i. Area 0.62 Acre
- ii. Demarcation Compound Wall
- iii. No. of Fruit Bearing Trees 21 Nos.
- iv. No. of Non-Fruit Trees 9 Nos.

20. Buildings

- i. 1 No. Power house Cum Office cum Store cum IQ.
- ii. 1 No. NA-II Qtr.
- iii. 1 No. LHA Qtr.

21. Contact Details

i)	Office Mobile No.	7750056689
ii)	Office E-Mail	prayagilighthouse123@gmail.com
iii)	Postal Address	Village Praygi, PO — Palur Via Humma Dist. Ganjam, PIN— 761 027, Odisha

22. Mode of Approach

The station is well connected by all weather road. The nearest Railway Station is Chatrapur which is approx 35 km from Prayagi Lighthouse.

23. Facilities Available

Post Office at Palur (approx. 6 KM), Primary Health Center at Rambha (approx. 15 KM), Police Station at Rambha (approx. 15 KM) and High School at Humma (approx. 12 KM).

