

CHANDRABHAGA LIGHTHOUSE MASTER LEDGER



1.	<i>Name</i>	Chandrabhaga Lighthouse
2.	<i>Sr. No. (A.L.O.L.)</i>	F 1003
3.	<i>Position</i>	Lat. 19 ⁰ 52.3'N Long. 86 ⁰ 06.36'E
4.	<i>Elevation of ground</i>	6.5 m
5.	<i>Elevation of tower</i>	37m
6.	<i>Characteristic of Light</i>	FL W 10 Sec
7.	<i>Range in nautical miles</i>	
	i) Luminous	14.5 NM
	ii) Geographical	16.5 NM
8.	<i>Lighthouse Tower</i>	
	i) Type	Circular RCC Tower
	ii) Height	30.5 m
	iii) Colour Scheme	Red and White Bands
9.	<i>Optical equipment</i>	
	(i) Make	Stone Chance, France
	(ii) Size	4 th order small, revolving
	(iii) Panels	2 (each of 120 degree)
	(iv) Focal Length	250 mm
	(v) RPM	3
	(vi) Duration of Flash	0.3 Sec
	(vii) Illuminant	70W MH lamp (03 Nos. in cluster)
	(viii) Divergence	5.30 (Horiz.) & 3.24 (Vert.)
	(ix) Luminous intensity	10500 cd
10.	<i>Innovation</i>	Innovation was carried out on 2003. 1000W/230V incandescent lamp was replaced with cluster MH lamp (03 Nos. each 70W/230V wattage).

11. *Lantern*
- i) Diameter 2 m
 - ii) Height of glazing 1.05 m
 - iii) No. of glass panes 8 Nos.
 - iv) No. of Ventilators 7 Nos.
12. *Pedestal* Mercury Float (24 kg in use).
13. *Power Supply*
- i) *Mains* 3 Phase, 440 V, 50Hz Mains supply from CESU
 - ii) *Solar*

Sl. No.	Types of Solar Power	Capacity	No. of Panels	Inverter	Remarks
1	ON GRID	15 kWp	40 (each 250W 24V)	10KVA, Make : Power one	Net meter installed

iii) *Standby* Genset (01 No.)

A. Details of Engine

Sl. No.	Engine Sl. No.	Make	BHP	No. of Cylinder	RPM	Cooling	Date of Installation
1	02.8301 / 1620309	Kirloskar	20.5	02	1500	Air Cooling	21.11.2016

B. Details of Alternator

Sl. No.	Alternator SI. No.	Make	KVA	Voltage	Current (Amp)	Freq. (Hz)	Phase	RPM
1	CS1BO16E2813-H	Kirloskar	15	230	62.5	50	Single	1500

14. Other Equipments

i) *Battery Charger* 01 No. Westing House make, input voltage : 200 — 250 V AC, output : 12 VDC, supplied on 04.12.1970. Presently it is working.

ii) *Stabilizer*

Sr No	Input voltage	Output Voltage	KVA	Make	Freq.	Phase	Date of Installation
1	120-270 V AC	230 V AC	15	Delta Electric Corp.	50Hz	Single	28.08.2008

iii) *Inverter*

Sr. No.	Particulars	Qty	Date of Installation	Purpose
1	850 VA, 12V DC (input), 230V AC (output), Sukam make	1 No.	22.05.2014	For Light beacon (02 Nos. Lamp)
2	850 VA, 12V DC (input), 230V AC (output), Sukam make	1 No.	22.05.2014	For Light beacon (Rotation & 01 No. Lamp)

3	1400 VA, 24V DC (input), 230V AC (output), Sukam make	1 No.	15.12.2012	For NAIS
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15. *Remote Monitoring and Control System*

All equipment's are remotely monitored by RCS at Paradeep 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) UPS 1 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 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) 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 installed at Service room
- vii) Communication Lease Line
- viii) Date of commissioning December 2011

17. *Fire Extinguisher*

Sl. No.	Type	Capacity	Qty	Installed Place
1	DCP	2 Kg	2 Nos.	One at service room and one at power house.
2	DCP	1 Kg	1 No.	Service room
3	Foam	9 ltr.	2 Nos.	Both at Power House
4	Fire Buckets	10 ltr	4 Nos.	Verandah 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 open well to overhead tank placed at roof top of power house. 1 HP motor were supplied on 10.04.2014.

19. *Land*

- i) Area 4.67 Acre (Lease executed on 14.12.2017)
- ii) Demarcation Compound Wall.
- iii) No. of fruit trees 20
- iv) No. of non-fruit bearing trees 100

20. *Buildings*

- i) 1 No. Office cum power house cum store room.
- ii) 1 No. IQ
- iii) 1 No. NAG-I Qtr.
- iv) 2 Nos. NA Qtr.

v) 2 Nos. LHA Qtr.

21. Contact details

i)	Office Land line No.	06758 — 236838
ii)	Office E-Mail	chandrabhagalighthouse@gmail.com
iii)	Postal Address	Chandrabhaga Lighthouse, Konark PO — Konark, Dist. Puri, Odisha — 752 111.

22. Mode of Approach

The station is well connected by all-weather road. The nearest Railway Station is Puri which is approx. 38 Km from Chandrabhaga Lighthouse.

23. Facilities Available

Post Office, Primary Health Center, Police Station and Navodaya school all are within 7 KM from Chandrabhaga Lighthouse.

