

BARUVA LIGHTHOUSE MASTER LEDGER



1. <i>Name</i>	Baruva Lighthouse
2. <i>Sl. No. (in ALOL)</i>	F 0985
3. <i>Position</i>	Lat. 18 ⁰ 52'8" N Long. 84 ⁰ 35'8" E
4. <i>Elevation of ground</i>	9 m
5. <i>Elevation of tower</i>	40 m
6. <i>Character of Light</i>	FL (I) W 15 SEC
7. <i>Range in nautical miles</i>	
i.) Luminous	17 NM
ii.) Geographical	20 NM
8. <i>Lighthouse Tower</i>	
i.) Type	RCC structure (Octagonal Shape)
ii.) Height	30 m.
iii.) Color Scheme	Black and White Bands
9. <i>Optical Equipment</i>	
i.) Make	TRB 220 (Revolving)
ii.) Size	Tideland Signal Corporation, USA
iii.) No. of panels	915 mm height & 445 mm Dia.
iv) Focal Length	6
v) RPM	110 mm
vi) Duration of Flash	2
vii) Illuminant	0.8 Sec
viii) Divergence	70 Watt MH Lamp, 230 volts AC
ix) Luminous Intensity	2.40 (Horiz.) & 1.15 (Vert.)
10. <i>Innovation</i>	26928 cd
11. <i>Lantern</i>	Innovation was carried out on August 2013. 100W/12V Halogen lamp of TRB 220 was replaced with 70W/230V MH Lamp.
i) Diameter	2.4 m
ii) Height of glazing	1.3 m
iii) No. of glass panes	8 Nos.

iv) No. of Ventilators 6 Nos.

12. Pedestal

Local Make

13. Power supply

i) Mains

3 Phase, 440V, 50Hz Electric Mains Supply from APEPDCL.

ii) Solar

Sl.No.	Types of Solar Power	Capacity	No. of Panels	Inverter	Remarks
1	ON GRID	11 kWp	48 (each 235W 29 V DC)	15KVA, Make : DELTA	Net meter installed

iii) Standby

Genset (01 No.)

A. Details of Engine

Sr No	Engine SI. No	Make	BHP	No. of Cylinder	RPM	Cooling	Date of installation
1	D4.1616.9211100098	Kirloskar	20.8	2	1500	Air Cooled	July-2012

B. Details of Alternator

Sr No	Alternator SI. No	Make	KVA	Voltage	Frequency	Phase	RPM
1	CSIB012A19713-H	Kirloskar	15	230	50 Hz	Single	1500

14. Other Equipments

i) Battery Charger

1 No. APLAB Make, 0-32 V DC , 0-20 A max supply installed on 19.09.2012

ii) Stabilizer

Sr No	Input voltage	Output voltage	KVA	Make	Freq.	Phase	Date of Installation
1	170-270 V AC	230 V AC	5	ITL	50Hz	Single	19-09-2012

iii) inverter

Sr. No.	Particulars	Qty	Date of Installation	Purpose
1	1.4 KVA, 24V DC (input), 230V AC (output), SUKAM make	1 No.	19.09.2012	For Light beacon
2	1.4 KVA, 24V DC (input), 230V AC (output), SUKAM make	1 No.	01.12.2012	For NAIS

15. Remote Monitoring and Control System

All equipment's are remotely monitored by RCS at Kalingapatnam 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 Equipment's in service room).
- iii) UPS 1 No. I 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.
- viii) Date of commissioning : May-2013

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 : 01-12-2012

17. Fire Extinguisher

Sr. No.	Type	Capacity	Qty	Installed place
1	DCP	5 kg	02 Nos.	01 No. at LH & 01 No. at Power House.
2	ABC	6 kg	01 No.	LH Service room
3	Water CO2	9 Ltrs	02 Nos.	Office & Store
4	Fire Buckets	10 Ltrs	04 Nos.	Placed outside the Power house.

18. Water Supply

Crompton make 3/4 HP Jet pump Installed on 08-11-2012 fitted to bore well is used to sump for stock water and one Crompton Make I HP mono block pump installed on 08-11-2012 fitted to pump house used for sump to over head tank for supply water to technical building and Quarters.

19. Land

- i. Area 0.79 Acre
- ii. Demarcation Compound Wall
- iii. No. of Fruit Bearing Trees 15
- iv. No. of Non-Fruit Trees 11

20. Buildings

- i) 1 No. Office cum power house cum store room.
- ii) 1 No. IQ
- iii) 1 No. NAG-I Qtr.
- iv) 1 No. LHA Qtr.
- v) 1 No. pump house.

21. *Contact Details*

i)	Office No.	9553779014
ii)	Office E-Mail	baruvalh@gmail.com
iii)	Postal Address	Baruva Lighthouse, Post-Baruva, Sompeta mondal, Dist. - Srikakulam, PIN-532 263, Andhra Pradesh

22. *Mode of Approach*

The station is well connected by all weather road. The nearest Railway Station is Sompeta which is approx. 14 Km from Baruva Lighthouse. Nearest Airport is Bhubaneswar which is approx. 200 km from Baruva LH.

23. *Facilities Available*

Post Office, Primary Health center, Police Station, High school and Degree College all are within radius of 5 kms from Baruva Lighthouse.

