

KALINGAPATNAM LIGHTHOUSE MASTER LEDGER



1. Name	Kalingapatnam Lighthouse
2. SI. No. (in ALOL)	F 0982
3. Position	Lat. 18 ⁰ 20'5" N Long. 84 ⁰ 07'5" E
4. Elevation of ground	4.54 m
5. Elevation of tower	34.54 m
6. Character of Light	FL (3) W 15 SEC
7. Range in nautical miles	
i) Luminous	17 NM
ii) Geographical	16 NM
8. Lighthouse Tower	
i.) Type	Hexagonal Masonry Tower
ii.) Height	30 m.
iii.) Color Scheme	Red & White Bands
9. Optical Equipment	
i.) Make	TRB 220 (Revolving) Tideland Signal Corporation, USA
ii.) Size	915 mm height & 445 mm Dia.
iii.) No. of panels	6
iv) Focal Length	110 mm
v) RPM	4
vi) Duration of Flash	0.38 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 1.4 m
- iii) No. of glass panes 12 Nos.
- iv) No. of Ventilators 11 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
I	ON GRID	12 kWp	38 (each 320 W / 38 V DC)	12 KVA, Make DELTA	Net meter installed

iii) *Standby*

Gensets (02 Nos.)

A. Details of Engine

Sr No	Engine SI. No	Make	BHP	No. of Cylinder	RPM	Cooling	Date of installation
1	D8.1612.92/1000317	Kirloskar	16	2	1500	Air Cooled	July-2010
2	02.8301/1620294	Kirloskar	20.5	2	1500	Air Cooled	Feb-2017

B. Details of Alternator

Sr No	Alternator SI. No	Make	KVA	Voltage	Frequency	Phase	RPM
1	BS 1 H01OB20953-H	Kirloskar	7.5	230	50Hz	Single	1500
2	CS1B016E2810-H	Kirloskar	15	230	50Hz	Single	1500

14. *Other Equipments*

i) *Battery Charger*

I no APLAB Make, 0-36 V DC. Supplied on 21-10-2011

ii) *Stabilizer*

Sr No	Input voltage	Output voltage	KV A	Make	Freq.	Phase	Date of Installation
1	160-270 V AC	230 V AC	15	SERVO	50 Hz	Single	11-09-2017
2	160-270 V AC	230 V AC	3.5	Sen & Pandit	50 Hz	Single	03-10-2003

iii) *Inverter*

Sr. No.	Particulars	Qty	Date of Installation	Purpose
1	1500 VA, 24V DC (input), 230V AC (output), SUKAM make	I No.	07-03-2014	For Light beacon
2	1400 VA, 24V DC (input), 230V AC (output), SUKAM make	I No.	17-12-2012	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. 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.
- vii) 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 : 26-12-2011

17. Fire Extinguisher

Sr. No.	Type	Capacity	Qty	Installed place
1	DCP	5 kg	04 Nos.	Power House, IQ & In front of RADAR store room.
2	ABC	6kg	01No.	LH Service room
3	WaterCO2	9Ltrs	02Nos.	Office & Store
4	Fire Buckets	10Ltrs	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 1 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 2.47 Acre
- ii. Demarcation Compound Wall
- iii. No. of Fruit Bearing Trees 45
- iv. No. of Non-Fruit Trees 15

20. Buildings

- i) 1 No Power House Cum Office cum Store.
- ii) 1 No Inspection Qtr, 1 No HLK Qtr.
- iii) 2 No NA- II Qtr, 2 No LHA Qtr
- iv) 1 No Pump House.

21. Contact Details

- i) Office No. 08942-289126
- ii) Office E-Mail kplighthouse@gmail.com
- iii) Postal Address Kalingapatnam Lighthouse, P.O : Kalingapatnam
Dist. Srikakulam, Andhra Pradesh, PIN- 532406

22. Mode of Approach

District head quarter Srikakulam Town is near about 25 Km from Lighthouse and Srikakulam Road (CHE) Railway Station is near about 40 Km from light house. Nearby Airport is Visakhapatnam Airport which is approx. 140 km from Kalingapatnam Lighthouse.

23. Facilities Available

Branch Post Office, High School, Govt. Hospital and Police Station all are within radius of 3 km from Kalingapatnam Lighthouse.

