

**Sacramento Lighthouse**  
**Estd.1985/2015**  
**VISAKHAPATNAM DIRECTORATE**  
**MASTER LEDGER**

1. **Name** : SACRAMENTO LIGHTHOUSE
2. **Sr.No.**  
**(as per A.L.O.L)** : 0958
3. **Position** : Lat: 16<sup>0</sup> 35.2' N  
Long: 82<sup>0</sup> 16.8' E
4. **Elevation** : 48 Mtr
5. **Characteristic** : FL White in every 5 Seconds  
**(Fl .0.2, ec 4.8 )**
6. **Range in nautical miles**
  - i) Luminous : 24 andelas
  - ii) Geographical : 18 NM
7. **Lighthouse Tower**
  - i) Type : Circular Masonry Tower
  - ii) Height : 45 Mtr
  - iii) Colour : Red and White spiral bands  
Scheme
  - iv) Visibility : 225<sup>0</sup>--045<sup>0</sup> (180<sup>0</sup>)  
Sector
8. **Optical Equipment**
  - a)
    - i) Make : M/s Chance Brothers, U.K.
    - ii) Size : 500 mm 3rd Order large Revolving
    - iii) Focal distance : 500
    - iv) No. of Panels : 2 Nos.
    - v) Divergence  
Main : Horizontal : 6<sup>0</sup> 45 5', Vertical : 6<sup>0</sup> 18'



vi) Duration of flash

Main : 0.19 seconds

- b) **Pedestal** : Mercury Float 55 kg in use.  
Cast iron pedestal
- c) **Rotation Device** : Twin Stepper motor Direct Drive system.  
i) Stepper motor : 2 No 40Kg-cm (unique make)  
ii) Controller: 2No 40Kg-Cm (unique make)
- d) **Rotation Speed** : 6 RPM
- e) **Illuminant**  
i) Main/Service : 150 watts Metal Halide Lamp 3 Nos. (Cluster)
- f) **Effective Beam Intensity**  
i) Main/Service : 9,39,600 cds.  
ii) Standby : -----  
iii) Emergency : -----

9. **Lantern**

- i) Diameter : 3.65 Mtr  
ii) Height of glazing : 1.83 Mtr  
iii) No. of panes : 31 Nos. (10 panes blanked on land side)  
iv) Ventilators : 12 Nos.

10. **Main light UPS** : 4 Nos. in use. 1 No. spare

Make : UTL  
Capacity : 800 VA  
Input : 12V DC  
Output : 230V AC  
Model Number : UTL combo

11. **Energy Source**

- A) APEPDCL Mains : Three phase 415 V, 50 Hz  
B) Green Energy : 3KW off grid solar power plant for main light.

- i) Solar panels : 12 No 24V/250W( Vikram make)
- ii) Battery Bank : 12 No 12V /150Ah (Exide SMF)
- iii) PCU : HBL Make 3KVA /48V PCU

**12. Details of Diesel Engine Generators**

- Make : Kirloskar HA294
- Model No. : KG15AS4 (Canopy)
- HP : 19 HP
- No. of Cylinder : 02 Nos.
- Output voltage : 240V/50Hz
- RPM : 1500
- Cooling : Air Cooling

**13. Diesel Engine Alternator**

- Make : Kirloskar
- KVA : 15
- Voltage : 240
- Frequency : 50
- Phase : Single
- RPM : 1500

**14. Servo Stabilizer : 1 No.**

- Make : Supra-hi-tech
- Model : SH-3120
- Capacity : 12 KVA 3 phase
- Input : 330 V - 470 V
- Output : 400 ± 1%

**15. AMF Panel**

- Make : Elect India
- Model : EMF15KM3G1-ICFTDM02
- Capacity : 0 VA, 3 phase 25A

**16. NAIS Equipment**

- Make : M/s SAAB

AIS R40 Base Station : Sl.No.5229  
AIS R40 Base Station : Sl.No 5256  
(Connected with Cisco switch and PSM-500LSatellite modem.)  
V- SAT Dish Size : 2.4 Mtr. dia  
VHF Antenna : 2 Nos.  
GPS Antenna : 2 Nos.  
Date of Commissioning : May, 2016

17. Automation of Lighthouse.

Make : M/s Recktronic Devices & Systems, Pune.  
RDS Panel : 1No. in power house. (S.No.1610)  
RDS Panel : 1No Service room. (S.No.1605)  
VSAT Antenna : 1.2 Mtr. dia  
Date of commissioning : March, 2016

18. Street Lights : i) G.I Poles with 25W LED light – 8 Nos.  
ii) Gate Light CFL - 2 Nos.  
iii) 10 Nos 18W Solar Street light

19. No of Batteries : 5 Nos.  
: 4 No. Exide 12 V/ 150 AH Battery for Main Light  
: 1 No. Exide 12 V/ 100 AH Battery for Gen Set  
: Starting

20. Firefighting equipment

Fire Extinguishers

i) D.C.P. type : 2 Nos.  
(5kg Capacity)  
ii) Foam type : 3 Nos.  
(9 litres capacity)  
iii) Fire Buckets : 4 Nos.

21. Communication Facility : NA-II , Ph. No.9989572305  
e-mail : [sacramentolh@gmail.com](mailto:sacramentolh@gmail.com)
22. Water Supply : i) Open well  
ii) 4 Nos. Bore well with Hand Pump
23. Land  
i) Area : 99.94 Acres  
ii) Demarcation : Masonry Compound wall  
iii) No. of fruit trees : 35 Nos.  
iv) No.of non fruit bearing Trees : 400Nos.
24. Buildings : One unit of Inspection quarter, Store, One unit of NA I quarter, two unit of NA II quarter, Two unit of LHA quarter and One unit of LHS quarter.
25. Staff : i. NA-I - 1 No. (Vacant)  
ii. NA-II - 2 Nos. (1 No. Vacant)  
iii. LHA - 2 Nos. (1 No. Vacant)  
iv. Field Assistant - 3 Nos. (outsourced)  
v. Security Guards - 3nos. (outsourced)
26. Mode of approach : i) By Rail up to Rajamundry and then by bus up to 90 kilometers up to Mulletimoga village and then by walk up to Lighthouse 3 Kms.  
ii) Upto Rajamundry by rail. From Rajamundry to Kandikuppa by bus 50 kms. Via. Amalapuram, then 15 kms. Mulletimoga village to Lighthouse.
27. Facilities available : a) Post Office within 20 km (Katrinikona)  
b) Govt. Hospital within 17 km (Katrinikona)

- c) Govt. School within 18 km (Katrinikona)
- d) Nationalized Bank within 20 km (Katrinikona)

28. Postal Address : The Navigational Assistant Gr-I,  
Sacramento Lighthouse,  
Bojjararipeta post, Katrenikona Via,  
Dist. East Godavari, Andhra Pradesh,  
Pin: 533 212

29. Cost Details

- i. Construction old LH : Not available
- ii. Cost of equipment : Not available
- iii. Construction of new LH Tower : Rs.1,36,33,329/- (March, 2015)

30. Date of Commissioning : 1895

31. Subsequent Innovation : 1902, 1997, 2004, 17-02-2015