

Ramayapatnam Lighthouse

Estd.1982

VISAKHAPATNAM DIRECTORATE MASTER LEDGER

1. **Name** : RAMAYAPATNAM LIGHTHOUSE
2. **Sr.No.**
(as per A.L.O.L) : 0952.5
3. **Position** : Lat: 15° 02.45" N
Long: 80° 03.00' E
4. **Elevation** : 35.29 Mtr. above MSL
5. **Characteristic** : Single Flash every 10 Sec.

6. **Range in nautical miles**
 - i) Luminous : 21.7 NM (T 0.74)
 - ii) Geographical : 16.5 NM
7. **Lighthouse Tower**
 - i) Type : Hexagonal Concrete Tower
 - ii) Height : 30 Mtr.
 - iii) Colour Scheme : Red and White bands
8. **Optical Equipment**
 - a)
 - i) Make : Mediterraneo Senalels Maritimas, Spain
 - ii) Type : MBR- 300 Marine Rotating Beacon
 - iii) Sl.No. : 061
 - iv) No. of Panels : 6 Panels (with Dioptric and Catadioptric Prisms)
 - v) Focal length : 105 mm

 - b) **Pedestal** : Made of M.S.Angle with M.S. plate.

 - d) **Rotation Speed** : 1 RPM

 - e) **Illuminant**



i) Main/Service : 150 W, 220V MH Lamp

f) **Effective Beam Intensity**

i) Main/Service : 2, 21,000 cds.

9. **Lantern**

- i) Diameter : 3.50Mtr.
- ii) Height of glazing : 2.90Mtr.
- iii) No. of panes : 36 (12 x 3)
- iv) Ventilators : 11 Nos.

10. **Energy Source**

- A) APCPDCL Mains : 3phase 440V supply
- B) Green Energy : 0.48KW off grid solar power plant for main light
- i) Solar panels : 6 No 12V/80W(TATA B.P make)
- ii) Battery Bank : 6 No 2V /900AH (EXIDE Tubular Lead Acid)
Installed on – 06/09/2018
- iii) PCU / UPS : Make – Numeric, 1KVA /12V UPS
- iv) Date of installation : 20/01/2011

11. **Details of Diesel Engine Generator**

- Make : Kirloskar
- Frame : HA294SR III
- Engine No. : 02.2129/1320079
- Model No. : KG15AS4 (Canopy)
- H.P. : 20.5
- No. of Cylinders : 2 Nos.
- RPM : 1500
- Cooling : Air Cooling

12. **Diesel Engine Alternator**

- Make : Kirloskar
- Frame : CSIB013D1415-H
- KVA : 15
- Voltage : 230 V

- | | | |
|-----|--|---|
| | Frequency | : 50 Hz |
| | Phase | : Single |
| | RPM | : 1500 |
| 13. | Automatic Voltage Stabilizer | : 1 No. |
| | Make | : Supra-hi-tech |
| | Model | : SH-3120 |
| | Capacity | : 12 KVA, 3 Phase |
| | Input | : 330-470 V |
| | Output | : 415V |
| 14. | AMF Panel | |
| | Make | : Elect India |
| | Model | : EMF15KM3G1-ICFTDM02 |
| | Capacity | : 15 KVA, 3 phase 25A |
| 15. | NAIS Equipment | |
| | Make | : M/s SAAB |
| | AIS R40 Base Station | : Sl.No.5308 |
| | AIS R40 Base Station | : Sl.No 5295 |
| | (Connected with Cisco switch and HT-2300 Satellite modem.) | |
| | V- SAT Dish Size | : 2.4 Mtrs. dia |
| | VHF Antenna | : 2 Nos. |
| | GPS Antenna | : 2 Nos. |
| | Date of Commissioning | : 20/12/2012 |
| 16. | Automation of Lighthouse. | |
| | Make | : M/s Recktronic Devices & Systems, Pune. |
| | RDS Panel | : 1No. in power house. (S.No.1609) |
| | RDS Panel | : 1No. Service room. (S.No.1602) |
| | VSAT Antenna | : 1.2 Mtr. dia |
| | Re configuration done on | : 11/01/2017 |
| | Date of commissioning | : 28/10/2013 |
| 17. | RACON | |
| | Make | : Tideland signal Corp., U.S.A. |

Input Voltage : 9 to 36 Volts D.C.
RACON Sl.No. : 6166
Morse Code : K
Date of Commissioning : 09-12-2004
Make : Tata Bp Solar India Limited.,
Solar Panel : Model No : TBP1270
Nominal peak power : 70 Watt
Peak power Voltage (ImV) : 17 V
Peak power Voltage (ImV) : 4.11 Amps
Quantity : 1 No.

18. Batteries

For RACON

Type : Tubular, Exide Powersafe Plus
Capacity : 12V, 100AH
Quantity : 1 No.
Installation date : 12/08/2022

For D.G.Set

Type : Exide Express
Capacity : 12V, 100AH
Quantity : 1 No.
Installation date : 17/01/2022

19. Battery Charger : 1 No.

Make : Associate Engineers, Madras
Input : 230 ± 10 % Volts, Single phase, 50Hz
Output : 0-30 Volts D.C
Current : 15A

20. Firefighting equipment

- i) Fire Extinguisher : 1. D.C.P type (4, 6 & 9 kg Capacity) – 1 No. Each
2. Foam Type 9 Ltr - 1 No.
3. CO₂ 3 Kg Capacity - 1 No.
- ii) Fire Buckets : 4 Nos.

21. Street Lights : 21 Nos. G.I. Poles with 25 watt LED Lights,
2 Nos. Gate Lights, 5Nos. lights on compound wall mounted.
22. Water Supply : i) Pump House provided with a 1 H.P. Mono block pump Single phase supply, 230Volts.
ii) Water sump provided for collection of Panchayat Water
23. Land
- i) Area : 1.935 ctares
- ii) Demarcation : Masonry Compound wall
- iii) No. of fruit trees : Coconut trees – 20 Nos.
Palm tree – 6 Nos.
Neem trees – 176 Nos.
- iv) No. of non- fruit bearing Trees : Casurina trees-10 Nos.
Udaya trees -2 Nos.
24. Buildings : 1. Power house (office, Store, recreation and generator room)
2. 1 Unit of Inspection quarter
3. 1 Unit of NA I Quarter
4. 2 Units of Navigational Assistant Qtr.
5. 1 Twin Unit of LHA Quarter
6. 1 No. Pump house.
7. 1 No. Security Cabin
25. Staff : i. NA-I - 1 No. (Vacant)
ii. NA-II - 2 No.
iii. LHA - 1 No.
iv. Field Assistant – 3 Nos. (outsourced)
26. Mode of approach : By rail up to Kavali & then by road upto 18 Kms from Kavali to Tettu, then 6 Kms from Tettu to Ramayapatnam LH
27. Facilities available : a) Post Office within ½ km (Ramayapatnam)
b) Govt. Hospital within 25 km (Kavali)
c) Govt. School within 1 km (Ramayapatnam)
d) Nationalized Bank within 25 km (Kavali)
e) Police Station – 20 Kms. (Ulavapadu)

28. Postal Address : The Navigational Assistant Gr-I,
Ramayapatnam Lighthouse, Ramayapatnam(Post)
Ulavapadu (Mandal),
Dist. Prakasam, Andhra Pradesh,
Pin: 523 291
29. Communication Facility : E-Mail: ramayapatnam-vizag@dgl.nic.in
30. Cost Details
- i) Construction : Rs. 13,82,867/-
 - iii) Cost of equipment : Rs. 6,14,826/-
31. Date of Commissioning : 26-06-1982
32. Subsequent Innovations : 1996, 2010, 2015.
(1st)