

# Vodarevu Lighthouse

**Estd.2003.**

## **VISAKHAPATNAM DIRECTORATE** **MASTER LEDGER**

1. **Name** : VODAREVU LIGHTHOUSE
2. **Sr.No.**  
**(as per A.L.O.L)** : F 0952.9
3. **Position** : Lat: 15<sup>0</sup> 47'42" N  
Long: 80<sup>0</sup> 24' 36" E
4. **Elevation** : 34 Mtr above MSL
5. **Characteristic** : Gp FL (2) White, every 15 Seconds  
**(Fl 0.6 +ec1.9 + Fl 0.6 + ec 11.9)**



### 6. **Range in nautical miles**

- i) Luminous : 24 M at 074 ATF
- i) Geographical : 17 NM

### 7. **Lighthouse Tower**

- i) Type : Circular R.C.C. Tower by SLIP FORM
- ii) Height : 30 Mtr
- iii) Colour Scheme : Black and White bands

### 8. **Optical Equipment**

- a) i) Make : M/S Stone Chance Limited, London
- ii) Size : 4<sup>TH</sup> Order Revolving
- iii) Focal distance : 250 mm
- iv) No. of Panels : 4 (in 90<sup>0</sup> each)
- v) Area of dioptric portion : 665 sq.cm (corrected to 470 sq.cm)
- vi) Area of catadioptric portion : 1300 sq.cm (corrected to 1080 sq.cm)

vii) Divergence

Main : Horizontal :  $3.41^{\circ}$ , Vertical :  $5.7^{\circ}$

viii) Duration of flash

Main : 0.6 seconds

- b) **Pedestal** : Mercury Float 28 kg .in use.  
Cast iron Pedestal  
i) Optical table driven by twin stepper 20kg. cm  
motor with auto change over using  
microcontroller - 1No
- c) **Rotation Device** :  
ii) Stand by stepper motor controller-01
- d) **Rotation Speed** : 1 RPM
- e) **Illuminant**  
i) Main/Service : 150 watts Metal Halide Lamps
- f) **Effective Beam Intensity**  
i) Main/Service : 5,22,000 cds.

9. **Lantern**

- i) Diameter : 2.16 Mtr  
ii) Height of glazing : 1.13 Mtr  
iii) No. of panes : 8 Nos.  
iv) Ventilators : 7 Nos.

10. **Energy Source**

- A) APSPDCL Mains : 440 V AC, 3 Phase, 50 Hz  
B) Green Energy : 1.2 KW off grid solar system for main light  
i) Solar panels : 8 Nos 24V/150W solar module (TATA BP Make)  
12Nos 2V/900Ah battery bank (TATA BP Make)  
Date of installation 21/10/2019,  
ii) Battery Bank : 4nos 12V150AH battery bank (Exide Make)  
(Date of installation 15/07/22, 60month  
warranty)  
iii) UPS : 2KVA/ 24V UTL make

11. **Details of Diesel Engine Generators**

Make : Kirloskar Green

Model No. : KG15AS4 (Canopy)  
H.P. : 15 KVA  
No. of Cylinder : 02 Nos.  
RPM : 1500

**12. Diesel Engine Alternator**

Make : Kirloskar Green  
Model : CSIBO14F64  
KVA : 15  
Voltage : 230 V  
Frequency : 50 Hz  
Phase : Single  
RPM : 1500

**13. Automatic Voltage Stabilizers : 1 No.**

Make : M/s. Supra-hi-tech  
Model : SH-390  
Capacity : 9 KVA 3 Phase  
Input : 330-470V AC  
Output : 415 V

**14. NAIS Equipment**

Make : M/s SAAB  
AIS R40 Base Station : Sl.No.5298  
AIS R40 Base Station : Sl.No 5348

(Connected with Cisco Switch and PSM-500L Satellite Modem)

V- SAT Dish Size : 2.4 Mtr. dia  
VHF Antenna : 2 Nos.  
GPS Antenna : 2 Nos.  
Date of Commissioning : 20/12/2011

**15. Automation of Lighthouse.**

Make : M/s Recktronic Devices & Systems, Pune.  
RDS Panel : 1No. in power house.  
RDS Panel : 1No. Service room.

VSAT Antenna	:	1.2 Mtr. dia
Date of commissioning	:	21/02/2013
16. Street Lights	:	<ul style="list-style-type: none"> <li>i) G.I Poles with 25W LED light - 8 Nos.</li> <li>ii) Main Gate Light CFL - 2 Nos.</li> <li>iii) Wicket gate Light CFL-2 Nos</li> </ul>
17. Firefighting equipment		
Fire Extinguishers		
i) D.C.P. type (3.2kg Capacity)	:	4 Nos.
ii) Foam type (9 litres capacity)	:	1 No.
iii) Fire Buckets	:	4 Nos.
18. Communication Facility	:	<p>Telephone No. 08594 – 248352 with broadband (Disconnected) e-mail : <a href="mailto:vodarevu-vizag@dgll.nic.in">vodarevu-vizag@dgll.nic.in</a></p>
19. Water Supply	:	<ul style="list-style-type: none"> <li>i) Rain water collecting tank -1.20 lakh capacity</li> <li>ii) Bore well - using 1 HP Motor- 2 Nos.</li> </ul>
20. Land		
i) Area	:	Ac. 1.75 Cts.
ii) Demarcation	:	Masonry Compound wall
21. Buildings	:	<ul style="list-style-type: none"> <li>i) Power House, Store &amp; Office Room</li> <li>ii) Inspection quarter</li> <li>iii) NA-I quarter</li> <li>iv) One Twin unit of NA-II quarter</li> <li>v) One Twin unit of LHA and LHS quarter</li> <li>i. NA-I - 1 No.</li> <li>ii. NA-II - 1 No.</li> <li>iii. LHA - 1 No. (Vacant)</li> </ul>
22. Staff	:	
23. Mode of approach	:	By Rail up to Chirala and then by bus up to Lighthouse about 8 km by road.
24. Facilities available	:	<ul style="list-style-type: none"> <li>a) Post Office within 0.5 km (Vodarevu)</li> <li>b) Govt. Hospital within 8 km (Vodarevu)</li> <li>c) Govt. School within 8 km (Vodarevu)</li> </ul>

- d) Nationalized Bank within 8 km (Vodarevu)
25. Postal Address : The Navigational Assistant Gr-I,  
Vodarevu Lighthouse, Vodarevu Post,  
Chirala, Andhra Pradesh, Pin: 523 157
26. CC camera :4Nos ( Date of installation 25/12/2021
27. **Cost Details**
- i) Construction : Rs. 70,00,000/-
- iii) Cost of equipment : Taken from Visakhapatnam Port Light
28. Year of Commission : 2003
29. Date of Commissioning : 25<sup>th</sup> September, 2003
30. Subsequent Innovation : 2006