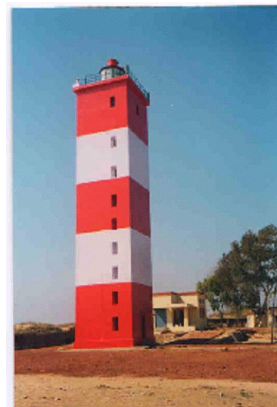


Pudimadaka Lighthouse

Estd.1971

MASTER LEDGER

1. **Name** : PUDIMADAKA LIGHTHOUSE
2. **Sr.No.**
(as per A.L.O.L) : 0968
3. **Position** :
Lat: 17' 29.3" N
Long: 83' 00.3" E
4. **Elevation** : 35 Mtr
5. **Characteristic** :
Fl. (2) W 15 Sec.
(0.4+ 3.4 +0.4 +10.8 =15 sec.)
6. **Range in nautical miles**
 - i) Luminous : 20 candelas
 - ii) Geographical : 16.5 NM
7. **Lighthouse Tower**
 - i) Type : Square Masonry
 - ii) Height : 26 Mtr
 - iii) Colour Scheme : Red & white band
8. **Optical Equipment**
 - a) i. Make : B.B.T
 - i. Size : 300 mm (4th order Large) revolving
 - ii. Focal distance : 300 MM
 - iii. No. of Panels : 4 Nos.
 - iv. Area of dioptric portion : 1125 sq cm. (corrected area 2651 sq. cm)
 - v. Area of catadioptric portion : -
 - vi. Divergence
 - Main : Horizontal 4⁰ 35', Vertical 3⁰ 26.3'
 - Standby : NIL



- Emergency : NIL
- vii. Duration of flash
 - Main/ Standby : 0.38 sec. - 0.4 sec.
 - Emergency : NIL
- b) **Pedestal** : Mercury Float (42.5 Kg in use)
- Rotation Device** : Twin Stepper motor Direct Drive system.
- c)
 - i) Stepper motor : 2 No 20Kg-cm (unique make)
 - ii) Controller: 2No 20Kg-Cm (unique make)
- d) **Rotation Speed** : 2 RPM
- e) **Illuminant**
 - i) Main/Service : 70 Metal halide lamp 3 nos. (cluster)
 - ii) Standby : Nil
 - iii) Emergency : Nil
- f) **Effective Beam Intensity**
 - i) Main/Service : 4,38,480 cds.
 - ii) Standby : Nil
 - iii) Emergency : Nil

9. Lantern

- i) Diameter : 2.5 Mtr
- ii) Height of glazing : 1.3 Mtr
- iii) No. of panes : 20 Nos.
- iv) Ventilators : 9 Nos.

10. Energy Source

- A) APEPDCL Mains : Single phase 230V supply.
- B) Green Energy : 1.36KW off grid solar power plant for main light.
 - i) Solar panels : 8 Nos. 24V/170W(TATA B.P make)
 - ii) Battery Bank : 12Nos. 2V /500Ah (Exide SMF)
 - iii) PCU : TATA B.P Make 1KVA /24V

11. Diesel Engine Generators

Make : Kirloskar
Model : KG15AS4 (Canopy)
Rating : 15KVA
Frequency : 50 HZ
Phase : single phase
RPM : 1500

12. Automatic Voltage Stabilizers : 1 No.

Make : supra- hitech
Model : SH-1100
Capacity : 10 KVA
Input : 170-270 V
Output : 230

13. Automation of Lighthouse.

- i) Make : M/s Recktronic Devices & Systems, Pune.
- ii) RDS Panel : 1No in power house.(S.No. 102946355)
- iii) RDS Panel : 1No Service room.(S.No. 102940476)
- iv) V-SAT Dish : 1.2Mtr dia
Size
- v) Date of commissioning : 21/02/2013

14. Street Lights : 10Nos. 25W LED Street lights with GI poles

15. Firefighting equipment

Fire Extinguishers

- i) D.C.P. type : 1 No.
(5kg Capacity)
- ii) Foam type : Nil
(9 litres capacity)
- iii) Fire Buckets : Nil

- A.E.(E), Dolphin Nose LH
16. Communication Facility : Telephone No. 0891-2973441
e-mail : [dolphinsnosedgps@gmail.com](mailto:dolphsnosedgps@gmail.com)
17. Water Supply : i) Open well with 1 HP pump & 500 Ltrs. O.H. Tank
18. Land
- i) Area : 4.4Acres (approx.)
 - ii) Demarcation : Masonry Compound wall
 - iii) No. of fruit trees : 20 Nos.
 - iv) No.of non fruit bearing Trees : 2 Nos.
19. Buildings : 2 Nos. (Single unit of Inspection Quarter cum LHA quarter & Cylinder room)
20. Staff : L.H.A.
21. Mode of approach : Up to Anakapalli by rail then 26 km. by road.
22. Facilities available : a) Police station, Atchuthapuram within 10 km
b) Govt. Hospital within 10 km (Atchuthapuram)
c) Govt. School within 10 km (Atchuthapuram)
d) Nationalized Bank within 1 km(Pudimadaka)
23. Postal Address : Lighthouse Attendant,
Pudimadaka Lighthouse,
P.O. Pudimadaka, Via. Achutapuram
Andhra Pradesh, PIN 531011.
Andhra Pradesh, Pin: 535 204.
24. Cost Details
- i. Construction : Rs. 3,02,495.00

- ii. Cost of equipment : Rs. 7,75,000.00
- 25. Year of first Light Commissioned : 1971
- 26. Date of Commissioning : 21-01-1971
- 27. Subsequent Innovation : 1991, 2002, 2008