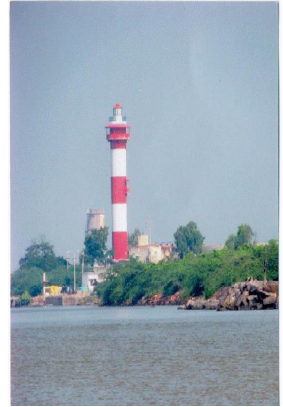


Nizampatnam Lighthouse

Estd.2004

VISAKHAPATNAM DIRECTORATE MASTER LEDGER

1. **Name** : NIZAMPATNAM LIGHTHOUSE
2. **Sr.No.**
(as per A.L.O.L) : 0952.95
3. **Position** : Lat: 15⁰ 53.02' N
Long: 80⁰ 38.30' E
4. **Elevation** : 35.83 Mtr above MSL
5. **Characteristic** : Flash White, every 5Seconds
(Fl 0.5 + ec4.5 = 5 sec.)
6. **Range in nautical miles**
 - i) Luminous : 23.0NM
 - ii) Geographical : 17 NM
7. **Lighthouse Tower**
 - i) Type : Circular R.C.C. Tower by SLIP FORM
 - ii) Height : 30 Mtr
 - iii) Colour Scheme : Red & White bands
8. **Optical Equipment**
 - a)
 - i) Make : M/s ANA Navaid's Ltd, New Delhi
 - ii) Size : 413 mm diameter
(Height 272 mm & width 160 mm)
 - iii) Focal distance : 413 mm
 - iv) No. of Panels : 8 panel "Fresnel" Lens.
 - v) Divergence
Main : Horizontal 4.56⁰, Vertical 7.22⁰
 - vi) Duration of flash
 - b) **Pedestal** : 3" G.I pipe with top & Bottom
3/8" M.S round plates welded



- c) **Rotation Device** : Stepper motor 7 kg-cm - 1 Nos.
(Gearless drive)
- d) **Rotation Speed** : 1.5 RPM
- e) **Illuminant**
 - i) Main/Service : 150 W/230V Metal Halide Lamp
 - ii) Standby : Nil
 - iii)Emergency : Nil
- f) **Effective Beam Intensity**
 - i) Main/Service : 3,92,857 candelas.
 - ii) Standby : Nil
 - iii) Emergency : Nil

9. **Lantern**

- i) Diameter : 2.40 Mtr
- ii) Height of glazing : 1.40 Mtr
- iii) No. of panes : 12 Nos.
- iv) Ventilators : 11 Nos.

10. **Energy Source**

- A) APCPDCL Mains : 230 V AC, 1 Phase, 50 Hz
- B) Green Energy : 0.9KW off grid solar power plant for main light.
 - i) Solar panels : 6 No 24V/150W(TATA B.P make)
 - ii) Battery Bank : 12 No 2V /900Ah (TATA B.P Tubular)
 - iii) PCU/UPS : TATA SOLAR MPPT Make 1 KVA /24 V UPS.

11. **No. of Standby Diesel Engine** : Kirloskar Engine ,20.5 BHP,1500 RPM,
Sl. No.0.2.2129/1320078

12. **Details of Alternator** : Kirloskar Alternator, 15 KVA, 1500RPM,
Sl. No.CSIBO13D1403-H

13. **Automatic Voltage Stabilizers** : 1 No. (U/s)
Make : Supra- hitech

Model : SH-390
Capacity : 09 KVA, 3 phase
Input : 310-450V
Output : Adjustable to 380-415 V

14. Automation of Lighthouse.

- i) Make : M/s Recktronic Devices & Systems, Pune.
- ii) RDS Panel : 1No. in power house.
- iii) RDS Panel : 1No. Service room.
- iv) V-SAT Dish Size : 1.2Mtr dia
- v) Date of commissioning : 24/02/2013
- i) G.I Poles with 25W LED light fitting - 4 Nos.

15. Street Lights : 1 No. in front of Power House without post.
ii) Gate Light CFL - 2 Nos.

16. Regulated Power supply : 2 Nos.
Make : M/s Aplab Ltd. Thane.
Input : 230 V AC
Output : 0 - 30 V DC, 0 - 20 A
Model Number : L-3220

17. Firefighting equipment

Fire Extinguishers

- i) D.C.P. type (ABC Type) : 4 Nos.
- ii) Foam type (9 litres capacity) : 2 Nos.
- (10 Fire Buckets : 4 Nos.

18. Communication Facility : Telephone No. --
NA-I Mobil No:9676763515
e-mail : nizampatnam-vizag@dgl.nic.in

19. Water Supply : i) Rain water collecting tank – 30000ltrs
ii) Panchayat water supply pumped by 1 HP motor to overhead tank at individual quarter.
20. Land
i) Area : 725 Sq. meter
ii) Demarcation : Masonry Compound wall of 8 feet height
iii) No. of fruit trees : 5 Nos.
iv) No. of non fruit bearing Trees : 10 Nos.
21. Buildings : One unit of Power House, Store & Office Room. in ground floor and LHA & LHS quarter in First floor.
: Twin unit of one NA I and one NA II quarters in ground floor and Inspection quarters & one NA III quarters in First floor
22. Staff : NA II - 1 No. ii) LHA-1 No vacant
23. Mode of approach : By Rail up to Bapatla and then by bus up to Lighthouse about 35 kilometers by road.
24. Facilities available : a) Post Office within 6 km (Nizampatnam)
b) Govt. Hospital within 7 km (Nizampatnam)
c) Govt. School within 5 km (Nizampatnam)
d) Nationalized Bank within 5 km (Nizampatnam)
25. Postal Address : The Navigational Assistant Grade I,
Nizampatnam Lighthouse,
Nizampatnam M.D post,
Bapatla Dist. Andhra Pradesh, Pin: 522 314.
26. Cost Details
i) Construction : Rs. 4,53,80,000/-

- ii) Cost of equipment : Rs. 22,50,000/-
27. Date of Commissioning : 2nd July 2004
28. Subsequent Innovation : 2022