

# Nagayalanka Lighthouse

## Estd.1901

### MASTER LEDGER

1. Name : NAGAYALANKA LIGHTHOUSE
2. Sr.No. (In A.L.O.L) : 0953
3. Position : Lat:15° 47' 10" N  
Long: 80° 59' 15" E
4. Elevation : 35 Mts. above MSL
5. Characteristic : FL W EV. 15 Seconds  
**(Fl 11.16+03.84= 15 sec.)**
6. Range in nautical miles  
i) Luminous : 24.0  
ii) Geographical : 16.5
7. Lighthouse Tower  
i) Type : Square Stone Masonry Tower  
ii) Height : 37 Mts.  
iii) Colour Scheme : Red and White Diagonal bands
8. Optical Equipment
- a) i) Make : M/s BBT  
ii) Size : 700 mm (2<sup>nd</sup> order) revolving  
iii) No.of Panels : 4 log of 90° each  
vi) Divergence :  
Main : -  
Standby : Nil  
Emergency : Nil  
vii) Duration of flash  
Main & Standby : 1.16 seconds  
Emergency : Nil
- b) Pedestal : Mercury floats 165 KG in use
- c) Rotation Device : Stepper Motors 40kg/cm<sup>2</sup> and standby Clock machine
- d) Rotation Speed : 1 RPM
- e) Illuminant  
i) Main/Service : Metal halide lamps. (3X 70 W)Cluster  
ii) Standby : Nil  
iii) Emergency : Nil
- f) Effective Beam Intensity



- i) Main/Service : 4, 38,480 cds
- ii) Standby : N/A
- iii) Emergency : N/A

9. Lantern

- i) Diameter : 3.68 Mtrs
- ii) Height of glazing : 2.70 Mtrs
- iii) No. of panels : 36 Nos. in three Tier
- iv) Ventilators : 11 Nos.

10. Lamp changer : not applicable

11. Energy Source : Solar powered backup

12. No. of Standby Diesel : One Engine Generators

**Details of Engine**

Sl No.	Engine No.	Make/Type	H.P.	RPM	Cooling
1.	02.2145/1323257	Kirloskar/ HA294	20.5	1500	Air cooled

13. Details of Alternator :

Sl No.	Frame	Make/Type	KVA/AMPS	VOLTS/PHASE	Frequency/RPM
1.	KG 184B	Kirloskar/ HA294	15 / 62.5	240V/ Single	50Hz /1500

14. Automatic Voltage Stabilizers : Nil

15. AMF Panel : Elect AMF panel to be installed

16. Battery Charger : 2 Nos.

Sl No.	Make	Type	Input	Output	Remarks
1.	A.E make	-	230V, AC	0-30V/40A	good

17. Solar Panels : Total 51Nos

8 Nos. Installed for Main Light sources, 15 Nos are removed from circuit(not in use)

2 Nos. of solar panel for optic rotation (stepper motor),

24 Nos. for NAIS and

2 Nos for Automation.

18. UPS :

<b>Qty</b>	1No	1No
<b>Make</b>	UTL	UTL
<b>Capacity</b>	1250VA	2100Watts
<b>Input</b>	24V	48VDC
<b>Output</b>	230VAC	230VAC
<b>Used for</b>	Main Light	NAIS

19. No. of Batteries : i) 12 Nos of 2V , 900AH Tubular Batteries make: Exide and 2Nos of 12 V /150AH SMF Exide batteries for main light.  
ii) 1Noof 12 V/100 AH Lead Acid Battery make : Amaron for Engine Starting.  
iii) 2 Nos of 12V/150AH Lead Acid Batteries for Optic Rotation.  
iv) 24 Nos of 2V/900AH Tubular batteries make: Exide for NAIS.

20. Firefighting equipment

a) Fire Extinguishers (New):

- i) Mechanical foam type : 01No (9Kgs)  
ii) Dry powder type. : 01No (9Kgs)  
iii) Dry powder type. : 01No (4Kgs)  
iv) Dry powder type. : 01No (6Kgs)

b) Fire Extinguishers (Old) :

- i) Dry powder type : 2Nos (5.0kg)  
ii) Carbon dioxide type. : 01No (4.5Ltrs)  
iii) Mechanical foam type : 01No (9Ltrs)  
iv) Foam type : 01No (9 Lits)

- c) Fire Buckets : 5Nos.  
d) Fire stand. : 01No

21. Communication : P&T Prepaid cell phone No. 6305439196, Launch runs once in a week on contract basis.

22. Water Supply : 12Nos of rain water collecting tanks are provided

23. Land

- i) Area : 0.890 Hectares  
ii) Demarcation : Compound wall with RCC fending

24. Buildings : Power house/ Batteries room, HLK Quarters, Twin unit of ALK Quarters, Twin unit of L.H.A Quarters and L.H.SQuarters, Store Room, Old Store Building converted as Inspection Quarters, Old Lighthouse Tower basement used as oil room.

25. Street Lights LED)	: 14 Nos solar powered street (2Nos CFL + 12 Nos
26. Staff	: touring station
27. Mode of approach	:By Rail up to Vijayawada and then by road for 100Km upto Nagayalanka Village and then by 25Km Krishna river way by launch
28. Facilities available	: a) Post Office at Nagayalanka village 25 Km b) Dispensary within 25 Km c) Govt. School within 25 Km d) Nationalized Bank and Police station within 25 Km at Nagayalanka village.
29. Postal Address	: The Navigational Assistant Gr –I, Nagayalanka Lighthouse, Nagayalanka post, Krishna District, Andhra Pradesh, Pin: 521 120.
31. Cost Details	
i) Construction	: Rs.28, 08,800/-
ii) Cost of equipment	: Not available
32. Year first Light Commissioned	: 1901
33. Date of Commissioning	: 17- 09 - 1998
34. Subsequent Innovations	: 1940, 1955, 1972, 1998
35. Racon	: NIL
36. NAIS	: <b>i) Comprising</b> NAIS Rack, ii) Isolation transformer and UPS (100VA), iii) 2Nos of 150AH batteries and Router, iv) CISCO switch, MODEM, v) R40 AIS base stations-2 Nos, vi) GPS antennas-2Nos, VHF antennas-2 Nos.
33. Automation Equipment	: Installed by RDS (Recktronic Devices Systems) on 18-02-2013. <b>Comprising</b> Power room control panel, Service room control panel with various sensors and adapters, modems, Demods, VSAT antenna.

