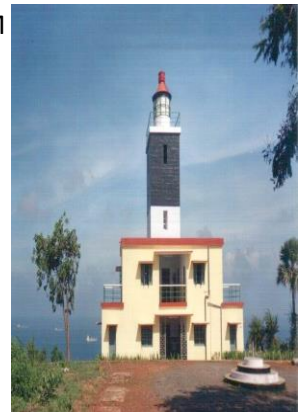


# Dolphin Nose Lighthouse

Estd.1940.

## MASTER LEDGER

1. **Name** : DOLPHIN'S NOSE LIGHTHOUSE CUM  
D.G.P.S. STATION
2. **Sr.No.**  
**(In A.L.O.L)** : 0970
3. **Position** : Lat: 17<sup>0</sup> 40.5' N  
Long: 83<sup>0</sup> 17.7' E
4. **Elevation** : 173 above MSL
5. **Characteristic** : FL.W. 10 Sec  
**(Fl 0.33 Sec. Ec9.67 Sec.)**
6. **Range in nautical miles**
  - i) Luminous : 32 M
  - ii) Geographical : 31 NM
7. **Lighthouse Tower**
  - i) Type : Square Masonry Tower
  - i) Height : 19 Mtr
  - ii) Colour Scheme : Black & White bands
8. **Optical Equipment**
  - a) **Optic**
    - i) Make : BBT
    - ii) Size : 375 mm (3<sup>rd</sup> order small) Revolving
    - iii) No. of Panels : 1 Nos.
    - iv) Area of dioptric portion : 1964.30 q.cm.
    - v) Area of catadioptric portion : 10,007 sq.cm.



- vi) Divergence
  - Main/Service : Horizontal 5°57', Vertical 2° 1'
  - Standby : Not Provided
  - Emergency : Not Provided

- vii) Duration of flash
  - Main : 0.33 seconds
  - Emergency : ---

- b) **Pedestal** : Mercury float (48.5 kg in use)  
Twin Stepper motor Direct Drive system.
- c) **Rotation Device** : i) Stepper motor : 2 No 40Kg-cm (unique make)  
ii) Controller: 2No 40Kg-Cm (unique make)
- d) **Rotation Speed** : 3 RPM
- e) **Illuminant**
  - i) Main/Service : MH Lamp 150W-230V, 3 Nos. (cluster arrangement)
  - ii) Standby : Nil
  - iii) Emergency : Nil
- f) **Effective Beam Intensity**
  - i) Main/Service : 9,39,600 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. **Lamp changer** : Not require, working in Cluster Arrangement.
- 11. **Energy Source**
  - A) APEPDCL Mains : 440V, 3 phase, 50 Hz.
  - B) Green Energy : 15Kw on grid

- i) Solar panels : 60 No. 24V, 250W panels
- ii) PCU : 15 KW Power-One Micro Systems make

12. Engine Details.

S.No.	Engine No	Make/Type	HP	No. Of Cylinder	Model No	RPM	Cooling
1	4H.3545/1220049	Kirloskar	105	4	4R1040 TA	1500	Coolant
2	4H.3545/1121940	Kirloskar	105	4	4R1040 TA	1500	Coolant

13. Details of Alternator

S.No	Engine No	Make/Type	KVA	voltage	Freq.	Phase	RPM
1	ES3B011D126846	Kirloskar	70	415	50 Hz	3	1500
2	ES3B011E127959	Kirloskar	70	415	50 Hz	3	1500

14. AMF Panel

- Make : In built inside Kirloskar three phase DG set
- Capacity : 82.5 KVA ( 3 PH)

15. Battery Charger : Pintron make 12V, 10A Charger.

16. Main Light UPS : 4 Nos.

- Make : UTL
- Capacity : UPS 800 VA
- Input : 12 V DC
- Output : 230AC

17. No. of Batteries : 2 No. 12 V-150 AH Lead Acid for Genset starting.  
3 Nos. 12V-150AH Lead Acid for cluster of lamps.  
1 no.12V-150AH Lead acid for Steeper motor.  
1 No. 12V-100AH Lead acid battery for RACON

18. Air-Conditioner (Split type) : 19 Nos.

- i. Ac for NAIS project  
 Make : Voltas  
 Three Nos. in SERVER Room : S.No. 455 2623 B 20 LC 46422(Voltas)  
 S.No. 455 3189 A 22 FF 09241(Voltas)  
 S.No. 455 3152 A 22 CF 03898 (Voltas)  
 Two Nos. in RCC Room : S.No. 455 2627 D 20 KC 08697(Voltas) &  
 S.No. 455 1247 A 11 B 001823(Voltas)  
 Three numbers in CCC Room : S.No. 455 2623 B 20 LC 46095(Voltas),  
 S.No. 455 3152 A 22 CF 03863(Voltas) &  
 S.No. 455 1247 A 11 B 001855(Voltas).  
 Two numbers in SIMULATOR Room : S.No. 455 1247 A 11 B 001861(Voltas) &  
 S.No. 455 1247 A 11 B 001821(Voltas)  
 Capacity : 1.5 Ton each
- i. AC for DGPS project  
 Make : Voltas  
 S.No. : S.No. 455 2623 B 21 CC 78912 (Voltas)  
 S.No. 455 2089 A 17 FC 04459 (Voltas)  
 S.No. 455 1960 A 16 IA 00733 (Voltas)
- ii. AC for NAVTEX project  
 Make : Voltas  
 S.No. : S.No. 455 1411 A 12 F 003891 &  
 S.No. 455 1837A 15 C 005632
- iii. Ac for Inspection Quarter  
 Make : Voltas

S.No. : S.No. 455 1837A 15 E 017890,  
S.No. 4551960 A16IA000672 (top IQ bed room)  
Make : Blue Star (IQ Hall)  
S.No. : S.No. B118587056607410151496  
Make : Voltas (Bottom IQ)  
S.No. 4551960 A16IA000681

19. Differential Global Positioning System (DGPS)

A. Reference Station : (RS-1) S. No. 17013 P/N: EDRS-MK I

Comprising of

- a) GR 30 professional GNSS reference receiver. (Made in [Switzerland](#))  
Sl. No- 1705519
- b) MSK modulator SL. NO: 17C003013 with rack mountable Chassis  
Sl. NO: 17013
- c) AR 20 GNSS Choke ring antenna SR. No. 19277003 (MADE IN USA)

B. Reference Station : (RS-2) Sr.No.17014 P/N: EDRS-MK I

Comprising of

- a) GR 30 professional GNSS reference receiver. (Made in [Switzerland](#))  
Sl. No- 1705502
- b) MSK modulator SL. NO: 17C003014 with rack mountable Chassis  
Sl. NO: 17014
- c) AR 20 GNSS Choke ring antenna SR. No. 19277004 (MADE IN USA)

C. Integrity Monitor : Sr.No.17013, P/N: EDIM-MK I

Comprising of

- a) GR 30 professional GNSS reference receiver. (Made in [Switzerland](#))  
Sl. No- 1705511
- b) Demodulator SL.NO. 17C001013
- c) GEODETIC Antenna AS 10 S/NO: 16471053 ( MADE IN CANADA)
- d) Beacon Antenna : A031  
Hemisphere MD : Sl. No: B1644-01871-01-029

D. Integrity Monitor : Sr.No.17014, P/N: EDIM-MK I

Comprising of

- a) GR 30 professional GNSS reference receiver. (Made in [Switzerland](#))  
Sl. No- 1705508
- b) Demodulator SL.NO. 17C001014
- c) GEODETIC Antenna AS 10 S/NO: 16471054 ( MADE IN CANADA)
- d) Beacon Antenna : A031  
Hemisphere MD : Sl. No: B1644-01871-01-045

E. RS Changeover unit : P/N: EMS50-RB, SL.NO: 174098B7007

F. MOXA N PORT Serial Device Server : SL.No: NP5650-16\_2873

G. CISCO switch : SL. NO: FCQ1748X39Z

H. Transmitter: (VRD750 Dual)

Make : M/s Nautel INC, USA  
Serial No. : B385  
Operating frequency : 295 KHz  
Power output : 500 W  
Input power : 230 50 Hz, Single phase

I. Un interrupted Power supply

- i) M/s APC make 10 KVA ON line UPS (MODEL NO. : SRC 10 KUXI ; S/NO: B21623000555) for transmitter with 12V/42AH Exide make Lead Acid maintenance free battery 16nos.
- ii) M/s APC make 3 KVA ON line UPS (MODEL NO. : SRC 3 KUXI) S/NO: B21644006107) for DGPS with 12V/42AH EXIDE make Lead Acid maintenance free battery 6 Nos.

J. AUTOMATIC TUNING UNIT

Make : M/s Nautel INC, USA  
Serial No. : B315  
Model : ATU –HP  
Operating frequency : 295 KHz

Input power : 230 V, 50 Hz, Single phase  
 30 mtr GI trestle tower : 2 Nos for wire antenna.

K. ISOLATION TRANSFORMER : 1 No  
 : (15 KVA, 1 PHASE , S/NO: 17.03.150071)

L. AC timer : 1 no (with LED Display for 3 AC)  
 : (Sr. No: 17F243)

M. Stabilizer : 3 nos  
 Model : SERVOMAX  
 Make : SERWEL ELECTRONICS PRIVATE LIMITED,  
 Hyderabad  
 Serial No. : 2017-05.S00231, 2017-05.S00219, 2017-05-  
 S00210  
 KVA Rating : 15 KVA  
 Operating frequency : 50/60 KHz  
 Phase : 1 PH

N. Electric Winch : 2 Ton ( Double Barrel)  
 Model : 1B42X  
 Make : Powertek Equipment Co., Mumbai.  
 HP : 2.0  
 Serial No. : 179117, 180117  
 Rope Speed : 5 mtr / min  
 Wire rope dia : 8 mm  
 Drum Capacity : 100 Mtr

O. Portable CO2 fire Extinguisher : 2 Nos  
 (6.5 kgs)

P. Smoke detector : 1 set (M/s. Ravel make )  
(Fire Alarm system)

Comprising of

- i) RE-102-2 Zone stand alone Fire Alarm Control Panel  
(S/N: 111600010)
- ii) RE 316SH2L multi sensor
- iii) RE716MR manual Call point
- iv) RE 24CS 24 Volt Souder (S/No: 121600041)
- v) Battery : 2 Nos  
(12 Volt-7 AH)

Q. Work Station : 1 set

Comprising of

- i) Dell professional Tower 3620\*CT0, Base 7th Gen Intel Core i7-7700,  
(Quad core 3.6 GHz, 4.2 GHz Turbo. 8 MB.)  
model -T3620, Sr. DV5RQM2
- ii) DELL P2417H 24" professional LED, (Sr. CN-OVRTCJ- QDCOO-7BS-  
2MEB)
- iii) Printer ( HP Office Jet 6970), Sr. No: TH79G1R1FG

20. **RACON**

- i) Make : Tideland signal Corp., U.S.A.
- ii) Input Voltage : 9 to 36 Volts D.C.
- iii) RACON S.No. : 6314
- iv) Morse Code : O
- v) Date of commissioning : 01-12-2005
- vi) Solar panel : 2 nos /Webel 12 Volt.(sl.no: 013812, 018711)
- vii) Battery : 10 / 150 AH

21. NAIS Project

- i) Physical Shore Station (NAIS)  
R 40 AIS Base station A : Sl.No.5204



R 40 AIS Base station B	Sl.No.5304
VHF Antenna (CX4)	: 2 Nos.
GPS antenna	: 2 Nos.
UPS	: 1KVA Hykon
Isolation transformer	: 0.5 KVA, Sl.No: 1512014

ii) SERVER ROOM

1. Stabilizer for A/C (V-GUARD) : 3 Nos.
2. Fire alarm Raval model RE 102 : 2 Nos.
3. Control panel for power supply with digital Volt & Ammeter device change over switch : 1 No.
- 40AMPS MCB : 15 Nos.
- 20AMPS MCB : 18 No.
4. BSNL main distributor box : 1 No.
5. SLEEK HYPE -1 Fibre management system : 1No.
6. Metal rack with front glass door & Ventilation fans : 3 Nos.
7. Network rack datum system PSM -500 & Satellite modem : 11 Nos.
8. CISCO Router 2900 Series : 2 Nos.
9. CISCO -ASA -5510 Catalyst 3560 B2 Switch for RCC & CCC : 1 No.
10. Fibre optic modem for Machilipatnam & JOC Model TEAMLINK 3002 FC : 2 Nos.
11. UPS (APC make) 10 KVA : 2 Nos.
12. Switch (MY POWER make) S3400 : 1 No.
13. convertor fibre optical to electrical BSNL ITI TJ 100 CPR4 SLM -11017 : 1 No.
14. Power supply
15. CCC monitor with keyboard & mouse
16. POLYCOM RMX 2000 : 1 No.
17. Master view PS/2 USB KUM CS 1308 Server switch for CCC

- |  |   |                                      |
|--|---|--------------------------------------|
| 18. Servers CCC  | : | LSS 01 - 300 GB,<br>IP : 10.200.2.11 |
| 19. Servers CCC  |   | DAS 01 - 300 GB,<br>IP : 10.200.2.15 |
| 20. Servers CCC  |   | DL 01 - 2 TB,<br>IP : 10.200.2.13    |
| 21. Servers CCC  |   | LSS 02 - 300 GB,<br>IP : 10.200.2.12 |
| 22. Servers CCC  |   | DAS 02 - 300 GB,<br>IP : 10.200.2.16 |
| 23. Servers CCC  |   | DL 02 - 2 TB,<br>IP : 10.200.2.14    |
| 24. RCC monitor with key board & mouse                 |   |                                      |
| 25. PSS fibre optical modem for DNLH                   |   |                                      |
| 26. Fibre optical to electrical convertor              |   |                                      |
| 27. Master view switch for RCC PS /2 USB KVM CS 1308   |   |                                      |
| 28. Servers CCC  | : | LSS 01 - 300 GB,<br>IP: 10.100.5.11  |
| 29. Servers CCC  |   | DAS 01 - 300 GB,<br>IP: 10.100.5.15  |
| 30. Servers CCC  |   | DL 01 - 300 GB,<br>IP: 10.100.5.13   |
| 31. Servers CCC  |   | LSS 02 - 300 GB,<br>IP: 10.100.5.12  |
| 32. Servers CCC  |   | DAS 02 - 300 GB,<br>IP: 10.100.5.16  |
| 33. Servers CCC  |   | DL 02 - 300 GB,<br>IP: 10.100.5.14   |
| 34. 12 Volt Index sealed batteries                     |   |                                      |
| 35. Portable CO <sub>2</sub> fire Extinguisher (2 kgs) | : | 2 Nos.                               |
| 36. Tube light fittings (08 tube lights)               |   |                                      |
| 37. CFL light fittings with bulb                       |   |                                      |

38. Fire sensors
39. 12V 65AH Exide make batteries for back of NAIS project : 40 Nos.
40. Isolation Transformer : 10 KVA, Power Safe,  
Sl.No:1502012
41. Network Rack Provided By M/S Reliance Communication  
Consisting Of
- 1) Cabinet – 1 No.,  
Made by M/S Shenzhen Century Man Comm Equipment Co.  
Ltd, Product: BDF, No: 2007071133,
  - 2) Switching Power supply : 1 No  
Model HK-4804T, Sl. No: 034269
  - 3) OME (Optical multi Edge)- 1 No.  
Make: NORTEL (OME 6110 HDE)  
SL.NO: NNTMDAV04FHP
  - 4) Battery : 4 Nos ( Valve Regulated Pure Lead-Tin Battery)  
Made: HBL power system Limited  
Capacity: 12 Volt- 12 AH

### **RCC ROOM**

S.No	Description	Units/ nos
1.	A/C inner unit	2 nos
2.	A/C outer unit	2 nos
3.	Remote for A/C	2 nos
4.	Stabilizer for A/C (V-GUARD) 02 No's	2 nos
5.	Console monitor HP	2 nos
6.	Keyboard HP	2 nos
7.	Mouse HP	2 nos
8.	CPU HP	2 nos
9.	Speakers creative A 35	4 nos
10.	RCC Operator table with monitor holder attachment	2 nos
11.	Video conference MIC POLYCOM	1 no
12.	Video conference remote POLYCOM	1 no
13.	Camera POLYCOM	1 no

14.	Processor for video camera POLYCOM HDX 7000	1 no
15.	LED screen for video conference SONY BRAVIA 51" with remote	1 no
16.	Wall mounted fire alarm	1 no
17.	Fire sensors	2 nos
18.	Fire alarm speaker	1 no
19.	Tube light fittings (each twin fittings)	3 nos
20.	Portable CO2 Extinguisher (4.5 kgs)	2 nos
21.	Printer : HP Make laser jet pro colour	1 no

### **CCC ROOM**

S.No	Description	Units / nos
1.	A/C inner unit	2 nos
2.	A/C outer unit	2 nos
3.	Remote for A/C	2 nos
4.	Stabilizer for A/C (V-GUARD) 2 No's	2 nos
5.	Console monitor HP	4 nos
6.	Keyboard HP	4 nos
7.	Mouse HP	4 nos
8.	CPU HP	4 nos
9.	speakers creative A 35	4 nos
10.	Operator table with monitor holder attachment	2 nos
11.	Video conferencing MIC POLYCOM	1 no
12.	Video conferencing remote POLYCOM	1 no
13.	Camera POLYCOM	1 no
14.	Processor for video camera POLYCOM HDX 7000	1 no
15.	LED screen for video conferencing SONY BRAVIA 51" with remote	1 no
16.	Wall mounted fire alarm	1 no
17.	Fire sensors	2 nos
18.	Fire alarm speaker	1 no
19.	Tube light fittings (each twin fittings)	3 nos
20.	Portable CO2 Extinguisher (4.5kgs)	2 nos

21	DOT Matrix printer	1 no
----	--------------------	------

### **SIMULATOR ROOM**

S.No	Description	Units/ nos
01	A/C inner unit	2 nos
02	A/C outer unit	2 nos
03	Remote for A/C	2 nos
04	Stabilizer for A/C(V-GUARD)02No's	2 nos
05	Console monitor HP	4 nos
06	Keyboard HP	4 nos
07	Mouse HP	4 nos
08	CPU HP	4 nos
09	Speakers creative A 35	4 nos
10	Operator table with monitor holder attachment	4 nos
11	Tube light fittings (each twin fittings)	3 nos
12	Portable CO2 Extinguisher (2 kgs)	1 no

### **23. Automation**

This station hold the Remote station(RS), Regional control station(RCS) and Master control station (MCS).

Following equipments are associated

1) Particulars : Service room panel and associated Lighthouse sensors

Location : Service room

Quantity : 1 No.

Date of Installation & Commissioning : 18-08-2013

2) Particulars : Power house panel and associated DGset sensors and power back-up

Location : Power house

Quantity : 1 No.

Date of Installation & Commissioning : 18-08-2013

- 3) Particulars : VSAT antenna unit for RCS and MCS  
 Location : Power house top  
 Quantity : 2 Nos.  
 Date of Installation & Commissioning : 18-08-2013
- 4) Particulars : RCS monitoring console  
 Location : DGPS room  
 Quantity : 2 Nos.  
 Date of Installation & Commissioning : 18-08-2013
- 5) Particulars : MCS monitoring console  
 Location : DGPS room  
 Quantity : 2 Nos.  
 Date of Installation & Commissioning : 18-08-2013
- 6) Particulars : MODEM/Switches unit for RCS/MCS  
 Location : DGPS room  
 Quantity : 1 set  
 Date of Installation & Commissioning : 18-08-2013

#### 24. NAVTEX

Navtex monitoring station at Dolphin's Nose had been installed on 16-01-2015 at Technical block and equipments working satisfactory. The system is working satisfactory. The following equipments have been installed:

a) Navtex Receiver interface, Navtex receiver, Antenna and printer .

S. No.	Particulars	Location	Qty
1	Switching power supply NSE-25-24 Input 100-240 v AC, Output -24v DC	At Lighthouse service room Navtex rack top	1 no
2	SIRIUS-3 NAVTEX Colour GMDSS Receiver P/N - SIR 3, S/N A1322364	At Lighthouse service room Navtex rack INSIDE	1 no

3	EPSON LQ-50 PRINTER MODEL- PA51A S/N- *MWCYOO7047*	At Lighthouse service room Navtex rack INSIDE	1 no
4	NAVTEX Receiver Antenna	Fitted on LH gallery hand-rail.	1 no

b) HP make Computer, monitor, and CPU assembled (one unit).

S. No.	Particulars	Location	Qty
1	25 inch Monitor ( Made- HP Pavilion model 25 xi IPS monitor)	In NAVTEX room	1 no
2	HP PRO 3330 MT Desktop PC (CPU)( S/L No - INA 427PMKD)	In NAVTEX room	1 no
3	HP mono LaserJet 1020 Plus A4 Printer ( S/N CNCH 373832)	In NAVTEX room	1 no
4	Portable CO2 Extinguisher (2 kgs)	In NAVTEX room	1 no

c) Server rack with Network and database server(2nos each) with switches and router associated with servers.

S. No.	Particulars	Location	Qty
1	Server HP DL 560 GEN 8 1X INTEL E5-4610V2 @ 2.3 GHz RAM - 16 GB , SYSTEM -64 Bit, Serial number SG H428L6FX -1No Serial number SG H428L6FY-1No Serial number SGH428L6 HO-1No Serial number SG H 428L6HI-1No	In NAVTEX room	
2	Hard Disk ( HP model mm 1000 FB FVR HP P/N - 605832 - 002, 1 TB , 7200 RPM) 1) S/No -- TH 1427 H 30 S --- 1 no CT 2B FVR 023X6R4T1 2) S/No -- TH 1427 H 30 5 --- 1 no		

	CT 2B FVR 023X6R5HQ 3) S/No -- TH 1427 H 30 R --- 1 no CT 2B FVR 023X6R4TJ 4) S/No -- TH 1427 H 30 M --- 1 no CT 2B FVR 023X6R4UF 5) S/No -- TH 1427 H 2Y V --- 1 no CT 2B FVR 023X6R4RI 6) S/No -- TH 1427 H 30 V --- 1 no CT 2B FVR 023X6R4SL 7) S/No -- TH 1427 H 30 Z --- 1 no CT 2B FVR 023X6R4TQ 8) S/No -- TH 1427 H 2Z 7 --- 1 no CT 2B FVR 023X6R30G	In NAVTEX room	
3	HP LV 2011 ( 20" LED monitor) SL no- CNCU08 NPGF --- 1 no Product No- A 3R 82AA)	In NAVTEX room	
4	ATEN KVM SWITCH - 4 Port S/No --Z3E4- 099AJ -0348 --- 1 no	In NAVTEX room	
5	C 1905 Router , 2 GE , HWIC - IT, CAB - SS - V35MT, 256F/256D, IP BASE --- 1 no	In NAVTEX room	

25. CC TV CAMERA SYSTEM – 1 set

- i) 18.5" samsung monitor : 1 No.
- ii) IR outdoor cameras : 3 Nos.  
(HIKVISION)
- iii) 4 Channel DVR : 1No.
- iv) Power supply unit : 2 Nos.
- v) UPS (600 VA) : 1 No.
- vi) IR PTZ camera (HIKVISION) : 1 No.

26. Firefighting equipment

Fire Extinguishers



- i) D.C.P. type (5kg Capacity) : 4 Nos. (1 no in DG set room, 1 No. in Office, 2 nos in LH )
- ii) Foam type (9 litres capacity) : 2 Nos. (1 no in DG set & 1 no in oil room)
- iii) CO<sub>2</sub> Type : 8 Nos.(block wise already mentioned)
- iv) Fire Buckets : NIL
27. Street Lights : i) 12 Nos. cement Concrete Poles and fitted with 25W LED Street light fitting.  
ii) 6 nos of street light fittings in front of office area.  
iii) 6 Nos. Gate Light fitting.  
iv) 8 Nos. garden light in front of Lighthouse tower.
28. Communication Facility : i) BSNL telephone with Fax facility provided with Telephone No.0891-2973441,  
ii) HP LaserJet Fax Machine-1 No., Model No. M 1213nf MFP  
e-mail : dolphinsnose-vizag@dgl.nic.in
29. Water Supply : Natural spring pond at foot hill with multistage water pump / motor (1.5 Km away from L.H) (Ground Fos make), model CR-5-36, 32 stage, 7.5BHP Centrifugal Pump surface mounted type.
30. Water Filter : i) Industrial Type Aqua guard Water Filter – 1 No., 25 ltr./HR.  
ii) SS water Cooler (40 Ltr.) USHA Make – 1 No.  
iii) Kent Grand Plus Mineral RO – 1 No.
31. Land
- i) Area : Ac.27.0 Cts.
- ii) Demarcation : Masonry Compound wall
- iii) No. of fruit trees : 11 Nos.

- iv) No.of non fruit bearing Trees : 15 Nos.
32. Buildings : 1) Lighthouse tower, one unit of Powerhouse, Stores, Office with NAIS and DGPS block, Gen set room, oil room and one unit of Inspection quarter 1<sup>st</sup> floor of Lighthouse tower and one unit of inspection quarter at bottom of lighthouse tower.  
2) One building for static sensor project.  
3) One unit of A.E.(E) Qtr. one unit of SRT Qtr, three twin unit for four ALKs Qtr. & LHA/LHS Qtr. One Unit of Jeep Driver Qtr. cum garage & one unit of Garden attended Qtr.
33. Staff : i) Asst. Engineer - 1 No. (Vacant)  
ii) SRT – 1 No.  
iii) Navigational Assistant Gr- II - 2 Nos.  
iv) Navigational Assistant Gr- III - 1 No  
v) Lighthouse Attendant – 1 No.  
vi) AIS Operator – 3 Nos. (Outsourced)  
vii) NAVTEX Operator – 3 Nos. (Outsourced)  
viii) AIS Supervisor – 1 No. Vacant  
ix) Technical Assistant – 2 Nos. (Outsourced)  
x) Housekeeping staff – 1no. (Outsourced)
34. Mode of approach : Up to Visakhapatnam by Rail and up to Lighthouse by road for 18 km.
35. Facilities available : a) Post Office within 7 km (Malkapuram)  
b) Govt. Hospital within 9 km (Malkapuram)  
c) Govt. School within 10 km (Malkapuram)  
d) Nationalized Bank with 10 km(Malkapuram)  
e) Police Station within 9 km (Malkapuram)
36. Postal Address : Assistant Engineer (Electronics),  
Dolphin's Nose Lighthouse  
Post: Gandhigram. P.O.Box-134

Visakhapatnam-530005.

**37. Cost Details**

- i) Construction : Rs. 2,52,000/-
- ii) Cost of equipment : Rs.2,67,000/-

38. Year of first Light  
Commissioned : 1940

39. Date of  
Commissioning of  
present LH : 15-06-1957

40. Subsequent  
Innovation : 1957, 1961, 1991,1997, 1998, 2004, 2012

\*\*\*\*\*