

मास्टर लेज़र/MASTER LEDGER

मुट्टम प्वाइंट दीपस्तंभ और नेवटेक्स स्टेशन/MUTTOM POINT LIGHTHOUSE AND NAVTEX STATION

| क्रमसंख्या/ Sr.No | नाम /Name | विवरण/Description | |
|----------------------|---|--|---|
| 1 | ए.एल.ओ.एल/A.L.O.L. | F 0724 | |
| 2 | स्थान/Position | Lat. 8° 7.4' N, long 77° 19.1' E | |
| 3 | ऊंचाई/Elevation | 42.97m Above MSL (tower height 21.5m) | |
| 4 | अभिलक्षण/Characteristic | Single Fl (W) every 5 seconds | |
| 5 | नॉटिकलमाइलमेदूरी Range in miles | 28 NM | |
| 6 | दीपस्तंभटावर/L.H.Tower | Type | Hexagonal Masonry |
| | | Height | 21.5mtrs |
| | | Colour Scheme | Black & White bands |
| 7 | ऑप्टिकलउपकरण Optical equipment | Optic | 2 nd Order |
| | | Make | M/s Chance Brothers |
| | | Type | |
| | | Size | 700 mm |
| | | No. of lens | 4 |
| | | Area of dioptric portion | 660.79 Sq.mm |
| | | Area of catadioptric portion | 10094.85 Sq.mm |
| | | Divergence Main/Emergency | 5° 33' 55" (Horizontal) 2° 56' 46" (Vertical) |
| | | Duration of Flash Main /Standby/Emergency | 5 second |
| | | Pedestal | Mercury Float type 127 kg. Mercury) |
| | | Rotation Device | Inbuilt stepper motor with drive |
| | | R.P.M. | 3 R PM |
| | | illuminating | |
| | | Main | 230V/ 150W -3 Nos Cluster Metal Halide Lamp |
| | | Standby | - |
| Emergency: | - | | |
| Date of Installation | 1875 | | |
| 8 | प्रभावीबीमतीव्रता/Effective beam intensity | Main | 350944 cds |
| | | Emergency | - |
| 9 | लैंटर्न/Lantern | Diameter | 3.65 m |
| | | Height of glazing | 3.03 m |
| | | No. of panes | 36 Nos With 12 blank panels |
| | | Ventilators | 14 Nos |
| 10 | RACON | Sr. No | |

| | | | | | | | |
|-----------|---|--|---|--|--|------------------------------|---------------------------------|
| | Make | Model | Code | Band | Date of Installation | | |
| | Wealth Marine, | WM-RB II | M | X-band | | | |
| 11 | NAIS | | | | | | |
| | Base Station | | | | | | |
| | Model | Type | Power | MMSI | | | |
| | | | | | | | |
| | Communication Equipment | | | | | | |
| | VSAT Antenna | Band | Modem | | | | |
| | 2.4m dia Parabolic reflector | EX-C | Datum system M7LT Satellite Terminal | | | | |
| | DGPS | | | | | | |
| | Transmitter Make | Frequency | Power Output | RS 1 ID | RS -II ID | Beacon ID | Date of commissioning |
| | | | | | | | Date of Recapitalization |
| | NAVTEX | | | | | | |
| | Transmitter Make | Frequency | Power Output | Operation Slots | Transmitter ID | Date of commissioning | Date of Recapitalization |
| | Make:Danphone 1KW Futronic transmitter | International-518Khz, Regional-490Khz) | Powersupply SM 300-5, Delta Elektronika | UTC Time Slots: 01:50, 05:50, 09:50, 13:50, 17:50, 21:50 | "L" | Installed on March 2015 | |
| 12 | ऊर्जासिाधन/ Source of energy | | Mains | | Tamil Nādu electricity board | | |
| | | | Power Source | | 3 phase /440V AC supply 90KW ON Grid SOLAR LOAD -25 KW | | |
| | | | Engine 1 | | (NIL) | | |
| | Make/Type | Qty | Rating | No of Cylinder | RPM | Cooling | |
| | Eicher / Four stroke diesel engine | 1 | 20KVA | 2 | 1500 | Air | |
| | Alternator | | | | | | |
| | Make/Type | Qty | Rating | Voltage/Amper | Frequency | Phase | |
| | Kirloskar/Brushless | 1 | 20 KVA | 240 / 40 | 50 | 1 | |
| | | | Engine 2 | | (NIL) | | |
| | Make/Type | Qty | Rating | No of Cylinder | RPM | Cooling | |

| | | | | | | | |
|----|--|---|-----------------|--------------|--------------------|------------------------|-------------|
| | | Eicher / Four stroke diesel engine | 1 | 20KVA | 2 | 1500 | Air |
| | | Solar Plant for Main light | | | | | |
| | | Capacity PV | Numbers | | Type | Battery | Bank |
| | | 25 KW (24 V/250 W) | 4 Nos | | Access solar | 12 Nos 2 V/ 1000 AH | 01 No. |
| | | Solar Plant for 2KW off grid (used in automation, street light and etc | | | | | |
| | | Capacity PV | Numbers | | Type | Battery | Bank |
| | | 25 KW (24 V/ 250 W) | 100 Nos. | | | - | - |
| | | Make | Inverter | | Data Logger | Rating /v | |
| | | ZYTECH | DELTA | | Derlemo V2.0 | 250W/36.60vd c | |
| 13 | स्वचालितवोल्टेजस्टेबलाइजर Automatic Voltage Stabilizers | | | | | | |
| | Make | Model | Capacity | Input | Output | Phase | Qty |
| | Blue Bird (for Navtex) | Servo controller | 15 KVA | 170-270 V | 230 V | 1 phase | 1 No |
| | Globus (For Main Light) | Servo controller | 7.5 KVA | 170-270 V | 230 V | 1 phase | 1 No |
| | Globus (For Museum Lighting) | Servo controller | 5 KVA | 170-270 V | 230 V | 1 phase | 3 Nos |
| | Globus (For Museum 19 TR AC) | Servo controller | 45 KVA | 440 V | 440 V | 3 phase | 1 Nos |
| | Globus (For Museum 8 TR AC) | Servo controller | 22.5 KVA | 440 V | 440 V | 3 phase | 1 Nos |
| 14 | बैटरी Batteries | | | | | | |
| | Equipment | Type | Make | Volt | Amp/Hr | Qty | |
| | PSS NAIS | - | - | - | - | - | |
| | Genset | Lead Acid | Exide | 12 | 90 | 2Nos | |
| | Automation | - | - | - | - | - | |
| | DGPS | - | - | - | - | - | |
| | Navtex | SMF Lead Acid | Exide | 12 | 42 | 15 Nos | |
| | Main Light | Lead Acid | Exide | 12 | 150 | 3 Nos | |
| | Steeper motor | Lead Acid | Exide | 12 | 150 | 1 No | |
| | Racon | Lead Acid | Exide | 12 | 100 | 1 No | |
| | CCTV Camera Museum | Lead Acid | Exide | 12 | 100 | 4 Nos | |

| | | | | | | | | | |
|----|--|---------------|------------------|--|-------------------------------|---------|------------------------------|------------------------|----------|
| | Museum Ups | SMF Lead Acid | Exide | 12 | 150 | 2 Nos | | | |
| 15 | बैटरीचार्जर/ Battery charger | | | | | | | | |
| | Equipment | Make | Model | Type | Rating | Qty | | | |
| | Battery charger | AE | | - | 0-30 V/ 15 A | 1 No | | | |
| | Battery charger | VENUS | | - | 0-40V/ 20A | 1 No | | | |
| 16 | इंवर्टरInverter /UPS | | | | | | | | |
| | Equipment | Nos | Make | Model | Type | Rating | Qty | input | output |
| | Main Light | 3 Nos | UTL | - | Pure sine wave | 800 VA | 3 Nos | 12 V/ DC & 230 V AC | 230V AC |
| | Stepper Motor | 1 No | Luminous | -- | Pure sine | 800 VA | 1 No | 12 V/ DC & 230 V AC | 230V AC |
| | Navtex Transmitter | 1 No | Hykon | AE 7500 Y | Pure sine wave | 7.5 KVA | 1 No | 180V/DC & 230V AC | 230V AC |
| | CCTV For Museum | 1 No | Luminous | - | Pure sine | 3.5 KVA | 1 No | 48V/DC & 230V AC | 230 V AC |
| | Museum Light Load | 1 No | Luminous | - | Pure sin wave | 1.5 KVA | 1 No | 24V /DC & 230V AC | 230 V AC |
| 17 | स्वचलनउपकरण Automation Equipment (RCS MUTTOM) | | | | | | | | |
| | MAKE | PLC | HMI | Power Supply | VSAT | Mod em | Band | | |
| | RDS | Allen Bradley | Renu electronics | 24 V DC | 1.8 m dia Parabolic reflector | Hughes | EX.C | | |
| 18 | आग्निशमनउपकरण Fire Fighting Equipment | | | Type of Extinguisher | Capacity | Nos | Make | | |
| | | | | DCP Type | 6 kg | 6 | INTIME | | |
| | | | | Co2 | 9 Kg | 2 | INTIME | | |
| | | | | Co2 | 5 kg | 2 | INTIME | | |
| | | | | Co2 | 4.5 Kg | 1 | INTIME | | |
| | | | Foam Type | - | - | - | | | |
| 19 | संचार Communication | | | BSNL telephone | | | 04651-229533 | | |
| 20 | जलपूर्ति Water Supply | | | Local panchayath water supply, 1 Nos of well pump and 1 No of borewell | | | | | |
| 21 | भूमि Land | | | Area | | | Approx 45 Acres | | |
| | | | | Demarcation | | | Not Available | | |
| 22 | इमारतें Buildings | | | RCC Structure: 06 Nos | | | Power House-cum Office room, | | |

| | | | |
|----|---|---|---|
| | | | Inspection quarters, NA-I & NA -II twin quarters and LHA quarter, Canteen -cum Store room, Pump house |
| 23 | कंपाउंडलाइट Compound Lights | LED Light fitted on G.I Pole-5 Nos Garden light-5 Nos Gate light- 6 Nos | |
| 24 | सीसीटीवीकमेरा CCTV CAMERA | IR Bullet Camera 2MPHIKVISION Office & Lighthouse | 13 Nos |
| | | IR Bullet Camera 2MPHIKVISION Museum | 20 Nos |
| 25 | स्टाफ Staff | Sl. No | Designations |
| | | 1 | Navigational Assistant Gr-I – 1 No |
| | | 2 | Navigational Assistant Gr -II – 1 No |
| | | 3 | Outsourced staff for Housekeeping- 1 No |
| | | 4 | Outsourced staff Day Security -1 No |
| 5 | Outsourced staff Regulating visitors Housekeeping -1 No | | |
| 26 | पहुँचनेकामाध्यम Mode of approach | Nearby Railway station is Nagercoil, Nearest airport is Thiruvananthapuram airport, from Nagercoil to Muttom by road about 17 KM From Thiruvananthapuram to Muttom by road about 73 KM From Kanyakumari to Muttom by road about 32 Km | |
| 27 | उपलब्धसुविधाए Facilities available | The nearest Post office local panchayat office, High School and Dispensary at Muttom, Police Station are available at Vellichandhai | |
| 28 | डाकपता Postal address | The Navigational Assistant Gr-I Muttom Lighthouse, Muttom post office, Kalkulam Taluk Kanyakumari -Dist, Tamilnadu-629 202 | |
| 29 | मूल्यकाब्योरा Cost details (At the time of Construction) | | |
| 30 | प्रवर्तनमेलानेकादेनांक Date of commissioning | 1875 | |