

## सातपाटी दीपस्तंभ/SATPATI LIGHTHOUSE

| <b>सातपाटीदीपस्तंभ/ Satpati Light House</b> |                                    |  |  |
|---|------------------------------------|--|--|
| <u>क्रमसंख्या/<br/>Sr.No</u>                | <u>नाम /Name</u>                   | <u>विवरण/Discription</u>                     |  |
| 1   | ए.एल.ओ.एल/A.L.O.L.                 | F 0492                                       |  |
| 2   | स्थान/Position                     | Lat 19°43.34' N<br>Long.72°42.16" E          |  |
| 3   | ऊंचाई/Elevation                    | 38m  |  |
| 4   | अभिलक्षण/Characteristic            | FI(2) w 20 Sec                               |  |
| 5   | नॉटिकलमाइलमेदूरी<br>Range in miles | 20 NM  |  |
| 6   | दीपस्तंभटावर/L.H.Tower             | Type   | Circular RCC Tower                         |
|   |                                    | Height                                       | 30 m                                       |
|   |                                    | Colour Scheme                                | Red & White band (3 Red<br>2 White)        |
| 7   | ऑप्टिकलउपकरण<br>Optical equipment  | Optic  | -  |
|   |                                    | Make   | Tideland signal<br>Corporation, USA        |
|   |                                    | Type   | Tideland TRB-220 Marine<br>Rotating Beacon |
|   |                                    | Size   | 110 mm focal Length                        |
|   |                                    | No. of lens                                  | 06 (04 fresnel lense + 2<br>blanks)        |
|   |                                    | Area of dioptric portion                     | Nil  |
|   |                                    | Area of catadioptric portion                 | Nil  |
|   |                                    | Divergence<br>Main/Emergency                 | Horizontal-2.40°, Vertical-2.42°           |
|   |                                    | Duration of Flash<br>Main /Standby/Emergency | 0.267 Secs                                 |
|   |                                    | Lamp changer                                 | Nil  |
|   |                                    | Pedestal                                     | GI rectangular pedestal                    |

|    |  |                      |  |             |                             |
|----|--|----------------------|--|-------------|-----------------------------|
|    |  | Rotation Device      | Stepper Motor, Tarque 10 Kgcm 2.8 A, 04 Wire, single Gearless direct drive, Microprocessor Controlled speed field Selectable rotation speed from 1/256 stepping Operated on 12 V DC. |             |                             |
|    |  | R.P.M.               | 1.5  |             |                             |
|    |  | illuminating         | 230 V AC /70 W M.H LAMP,<br>Blast 70 Watt CDM-T Philips certa Vision.  |             |                             |
|    |  | Main                 | 440 V, 03 Phase 50Hz MSEDCL Supply   |             |                             |
|    |  | Standby              | I) Genset 16 HP, 10 KVA<br>II) 12V/75 W Tata BP<br>Make 06 nos solar panels.   |             |                             |
|    |  | Emergency:           | Nil  |             |                             |
|    |  | Date of Installation | nil  |             |                             |
| 8  | प्रभावीबीमतीव्रता/Effective beam intensity | Main & Standby       | 139990 cd  |             |                             |
|    |  | Emergency            | Nil  |             |                             |
| 9  | लैंटर्न/Lantern                            | Diameter             | 2.4 Meter  |             |                             |
|    |  | Height of glazing    |  |             |                             |
|    |  | No. of panes         | 12   |             |                             |
|    |  | Ventilators          | 06   |             |                             |
| 10 | <b>RACON</b>                               |                      |  |             |                             |
|    | <b>Make</b>                                | <b>Model</b>         | <b>Code</b>  | <b>Band</b> | <b>Date of Installation</b> |
|    | Nil  | NIL                  | NIL  | NIL         | NIL                         |
| 11 | <b>NAIS</b>                                |                      |  |             |                             |
|    | <b>Base Station</b>                        | NIL                  |  |             |                             |
|    | <b>Model</b>                               | <b>Type</b>          | <b>Power</b>   | <b>MMSI</b> |                             |

|    |                                      |                    |              |               |   |                  |                       |                        |
|----|--------------------------------------|--------------------|--------------|---------------|---|------------------|-----------------------|------------------------|
|    |                                      |                    |              |               |   |                  |                       |                        |
|    | Communication Equipment              | NIL                | NIL          |               | NIL   |                  |                       |                        |
|    | VSAT Antenna                         | Band               | Modem        |               | NIL   |                  |                       |                        |
|    | DGPS                                 | NIL                |              |               |   |                  |                       |                        |
|    | Trasmitter Make                      | Frequency          | Power Output | RS 1 ID       | RS -II ID   | Beacon ID        | Date of commissioning | Date of Recapitulation |
|    | NIL                                  | NIL                | NIL          | NIL           | NIL   | NIL              | NIL                   | NIL                    |
|    |                                      |                    |              |               |   |                  |                       |                        |
| 12 | ऊर्जाकेसाधन/ <i>Source of energy</i> | Mains              |              |               | 440 V, 03 Phase 50Hz<br>MSEDCL Supply   |                  |                       |                        |
|    |                                      | Standby            |              |               | I)D.G Set 16 HP,Alternator<br>10 KVA<br>II)75 Watt/17.5V Tata BP<br>Solar Panels 06 Nos |                  |                       |                        |
|    |                                      | <b>Engine 1</b>    |              |               |   |                  |                       |                        |
|    |                                      | <b>Make/Type</b>   | <b>Qty</b>   | <b>Rating</b> | <b>No of Cylinder</b>   | <b>RPM</b>       | <b>Cooling</b>        |                        |
|    |                                      | Kirloskar EA/16    | 01<br>No     | 16 HP         | 02  | 1500             | Air                   |                        |
|    |                                      | <b>Alternator</b>  |              |               |   |                  |                       |                        |
|    |                                      | <b>Make/Type</b>   | <b>Qty</b>   | <b>Rating</b> | <b>Voltage/Amper</b>  | <b>Frequency</b> | <b>Phase</b>          |                        |
|    |                                      | Crompton           | 01<br>No     | 10 KVA        | 230 V   | 50 Hz            | Single                |                        |
|    |                                      | <b>Engine 2</b>    |              |               |   |                  |                       |                        |
|    |                                      | <b>Make/Type</b>   | <b>Qty</b>   | <b>Rating</b> | <b>No of Cylinder</b>   | <b>RPM</b>       | <b>Cooling</b>        |                        |
|    |                                      | NIL                | NIL          | NIL           | NIL   | NIL              | NIL                   |                        |
|    |                                      | <b>Alternator</b>  |              |               |   |                  |                       |                        |
|    |                                      | <b>Make/Type</b>   | <b>Qty</b>   | <b>Rating</b> | <b>Voltage/Amper</b>  | <b>Frequency</b> | <b>Phase</b>          |                        |
|    |                                      | NIL                | NIL          | NIL           | NIL   | NIL              | NIL                   |                        |
|    |                                      | <b>Solar Plant</b> |              |               |   |                  |                       |                        |
|    | <b>Capacity PV</b>                   | <b>Numbers</b>     |              | <b>Type</b>   | <b>Battery</b>  | <b>Bank</b>      |                       |                        |

|    |  |                  |                 |                   |  |               |            |              |               |
|----|--|------------------|-----------------|-------------------|--|---------------|------------|--------------|---------------|
|    |  | 75 W/ 17.5 V     | 06 Nos          | Monocry stalline. | I) 12 V/600 AH(02Vx 6 cell)<br>II) 12V/ 150AH X2 NOS<br>In parallel. | 02 Nos        |            |              |               |
|    | <b>Solar Plant for Main RACON</b>                                  |                  |                 |                   |  |               |            |              |               |
|    | <b>Capacity PV</b>   | <b>Numbers</b>   | <b>Type</b>     | <b>Battery</b>    | <b>Bank</b>  |               |            |              |               |
|    | NIL  | NIL              | NIL             | NIL               | NIL  | NIL           |            |              |               |
| 13 | <b>स्वचालितवोल्टेजस्टेबलाइजर<br/>Automatic Voltage Stabilizers</b> |                  |                 |                   |  |               |            |              |               |
|    | <b>Make</b>  | <b>Model</b>     | <b>Capacity</b> | <b>Input</b>      | <b>Output</b>  | <b>Phase</b>  | <b>Qty</b> |              |               |
|    | Servo volatge stabilizer   | V.s power system | 10 Kva          | 120V-280 V        | 231 V  | Single Phase  | 01 No      |              |               |
| 14 | <b>बैटरी<br/>Batteries</b>   |                  |                 |                   |  |               |            |              |               |
|    | <b>Equipment</b>   | <b>Type</b>      | <b>Make</b>     | <b>Volt</b>       | <b>Amp/Hr</b>  | <b>Qty</b>    |            |              |               |
|    | PSS NAIS   | NIL              | NIL             | NIL               | NIL  | NIL           |            |              |               |
|    | Genset   | SMF              | Reli cell       | 12V               | 150 AH   | 01 No         |            |              |               |
|    | Automation   | NIL              | NIL             | NIL               | NIL  | NIL           |            |              |               |
|    | DGPS   | NIL              | NIL             | NIL               | NIL  | NIL           |            |              |               |
| 15 | <b>बैटरीचार्जर/ Battery charger</b>                                |                  |                 |                   |  |               |            |              |               |
|    | <b>Equipment</b>   | <b>Make</b>      | <b>Model</b>    | <b>Type</b>       | <b>Rating</b>  | <b>Qty</b>    |            |              |               |
|    | General Purpose  | Logic state      | -               | -                 | 12v/30 amp   | 01 No         |            |              |               |
|    | Automation   | NIL              | NIL             | NIL               | NIL  | NIL           |            |              |               |
| 16 | <b>इंवर्टरInverter /UPS</b>  |                  |                 |                   |  |               |            |              |               |
|    | <b>Equipmen t</b>  | <b>Nos</b>       | <b>Make</b>     | <b>Model</b>      | <b>Type</b>  | <b>Rating</b> | <b>Qty</b> | <b>input</b> | <b>output</b> |

|    |  |     |           |  |          |        |  |      |      |
|----|--|-----|-----------|--|----------|--------|--|------|------|
|    | Main Light                                       | 01  | Exide ups | -  | -        | 650 VA | 01   | 230V | 231V |
|    | NAIS PSS   | NIL | NIL       | NIL  | NIL      | NIL    | NIL  | NIL  |      |
|    | DGPS   | NIL | NIL       | NIL  | NIL      | NIL    | NIL  | NIL  |      |
| 17 | <b>स्वचलनउपकरण<br/>Automation Equipment</b>      |     |           |  |          |        |  |      |      |
|    | MAKE   | PLC | HMI       | Power Supply   | VSAT     | Modem  | Band   |      |      |
|    | NIL  | NIL | NIL       | NIL  | NIL      | NIL    |  |      |      |
| 18 | <b>आग्निशमनउपकरण<br/>Fire Fighting Equipment</b> |     |           | Type of Extinguisher   | Capacity | Nos    | Make   |      |      |
|    |  |     |           | WATER GAS TYPE   | 09 LTR   | 02     | Water Type Gas Cartridge   |      |      |
|    |  |     |           | DCP TYPE   | 02 KG    | 02     | DCP gas Cartridge  |      |      |
|    |  |     |           |  |          |        |  |      |      |
|    |  |     |           |  |          |        |  |      |      |
|    |  |     |           |  |          |        |  |      |      |
| 19 | <b>संचार<br/>Communication</b>                   |     |           | BSNL Tel. No   |          |        | 02525-224190   |      |      |
| 20 | <b>जलपूर्ति<br/>Water Supply</b>                 |     |           | I) Gram Panchayat Water Connection<br>II) Bore Well with Pump Set. |          |        |  |      |      |
| 21 | <b>भूमि<br/>Land</b>                             |     |           | Area   |          |        | 500.76 Sq.Mt   |      |      |
|    |  |     |           | Demarcation  |          |        | Masonry Compound Wall  |      |      |
| 22 | <b>इमारतें<br/>Buildings</b>                     |     |           | Quarters   |          |        | Combined single unit of N.A.II Qtr, Inspection Qtrs, Power House, Office & Store Room. |      |      |
| 23 | <b>कंपाउंडलाइट<br/>Compound Lights</b>           |     |           |  |          |        | 04 Nos Street light power saver PLL 36 Watt & 02 Nos Gate Light.                       |      |      |
| 24 | <b>सीसीटीवीकमेरा</b>                             |     |           | Camera   |          |        | Nil  |      |      |

|    |   |   |                            |
|----|---|---|----------------------------|
|    | CCTV CAMERA   | DVR   | Nil                        |
| 25 | स्टाफ<br><b>Staff</b>   | Sl. No  | Designations               |
|    |   | 1   | Navigation Assistant Gr-II |
|    |   | 2   |                            |
|    |   | 3   |                            |
|    |   | 4   |                            |
| 26 | पहुँचनेकामाध्यम<br><b>Mode of approach</b>                            | By rail upto Palghar , Then 15 km by Auto upto Satpati Light house.   |                            |
| 27 | उपलब्धसुविधाए<br><b>Facilities available</b>                          | Marine Police Station   | 100 meter                  |
|    |   | Dispensary  | 500 meter                  |
|    |   | High School   | 100 meter                  |
|    |   | Post office   | 500 meter                  |
| 28 | डाकपता<br><b>Postal address</b>                                       | Light House Incharge, Satpati Light House, PO-Satpati, Taluka - Palghar, Dist- Palghar-401405, Maharashtra. |                            |
| 29 | मूल्यकाब्योरा<br><b>Cost details</b><br>(At the time of Construction) | I) -/Construction- Rs- 1,22,65,268<br>li)Equipment - Rs-25,96,300/-   |                            |
| 30 | प्रवर्तनमेलानेकादेनांक<br><b>Date of commissioning</b>                | 16/07/2009  |                            |