

## मास्टर लेजर/MASER LEDGER

| क्रमसं<br>ख्या/<br>Sr.No | नाम /Name  | विवरण/Description                            |  |      |                         |
|--------------------------|--|--|--|------|-------------------------|
| 1                        | ए. एल. ओ. एल/ A<br>.L.O.L.                         | F 0706                                       |  |      |                         |
| 2                        | स्थान/Position                                     | Lat.09° 29'30"N,Long.76° 19'18" E            |  |      |                         |
| 3                        | ऊंचाई/Elevation                                    | 33M (Above MSL)                              |  |      |                         |
| 4                        | अभिलक्षण/Characteristic                            | Fl (1) W 15 sec (fl 0.8)                     |  |      |                         |
| 5                        | नॉटिकल माइल मे<br>दूरी<br>Range in miles           | 24.5 NM                                      |  |      |                         |
| 6                        | दीपस्तंभ<br>टावर/L.H.Tower                         | Type   | Circular masonry tower   |      |                         |
|                          |  | Height                                       | 28M  |      |                         |
|                          |  | Colour Scheme                                | Red and White Band   |      |                         |
| 7                        | ऑप्टिकल<br>उपकरण<br>Optical<br>equipment           | Optic  | Revolving Beacon   |      |                         |
|                          |  | Make   | BBT Paris  |      |                         |
|                          |  | Type   |  |      |                         |
|                          |  | Size   | 250mm/4 <sup>th</sup> Order  |      |                         |
|                          |  | No. of lens                                  | 4  |      |                         |
|                          |  | Area of dioptric portion                     | ----Sq. cm   |      |                         |
|                          |  | Area of catadioptric portion                 | ----Sq. cm   |      |                         |
|                          |  | Divergence<br>Main/Emergency                 | 5° (Horizontal)<br>3.4° (Vertical)                                 |      |                         |
|                          |  | Duration of Flash<br>Main /Standby/Emergency | 0.8 Sec  |      |                         |
|                          |  | Pedestal                                     | Floating on Mercury trough   |      |                         |
|                          |  | Rotation Device                              | Dual Stepper motor(10 Kg/cm)                                       |      |                         |
|                          |  | R.P.M.                                       | 1  |      |                         |
|                          |  | Illuminating                                 | ----   |      |                         |
|                          |  | Main   | A cluster of three 230V/150W<br>Double ended Metal Halide<br>Lamps |      |                         |
|                          |  | Standby                                      |  |      |                         |
| Emergency:               |  |  |  |      |                         |
| Date of Installation     | 06-09-2007   |  |  |      |                         |
| 8                        | प्रभावी बीम<br>तीव्रता/Effective<br>beam intensity | Main   | 3,33,731cds  |      |                         |
|                          |  | Emergency                                    |  |      |                         |
| 9                        | लैंटर्न/Lantern                                    | Diameter                                     | 2.0m   |      |                         |
|                          |  | Height of glazing                            | 1.05 m   |      |                         |
|                          |  | No. of panes                                 | 08 (02 Nos. covered)   |      |                         |
|                          |  | Ventilators                                  | 07   |      |                         |
| 10                       | RACON  | Sr. No                                       | N/A  |      |                         |
|                          | Make   | Model  | Code   | Band | Date of<br>Installation |

|    |   |                            |                          |                        |                       |                                  |                  |                |               |  |
|----|---|----------------------------|--------------------------|------------------------|-----------------------|----------------------------------|------------------|----------------|---------------|--|
|    | N/A   | N/A                        | N/A                      | N/A                    | N/A                   | N/A                              |                  |                |               |  |
| 11 | <b>NAIS</b>   |                            |                          |                        |                       |                                  |                  |                |               |  |
|    | <b>Base Station</b>   | 2 Nos-AIS1 & AIS2          |                          |                        |                       |                                  |                  |                |               |  |
|    | <b>Model</b>  | <b>Type</b>                | <b>Power</b>             |                        |                       | <b>MMSI</b>                      |                  |                |               |  |
|    | SAAB R40  | Class A                    | AC-230V & DC-24V         |                        |                       | 004192245                        |                  |                |               |  |
|    | <b>Communication Equipment</b>                                    |                            |                          |                        |                       |                                  |                  |                |               |  |
|    | <b>VSAT Antenna</b>   | <b>Band</b>                | <b>Modem</b>             |                        |                       |                                  |                  |                |               |  |
|    | <b>Make: Prodelin<br/>2.4m dia<br/>Parabolic<br/>Reflector</b>    | <b>EX-C</b>                | <b>Hughes HT2300</b>     |                        |                       |                                  |                  |                |               |  |
| 12 | ऊर्जा के साधन/ <i>Source of energy</i>                            | Mains                      |                          |                        |                       | 440V, 3Phase, 50 Hz., A/C Supply |                  |                |               |  |
|    |   | Power Source               |                          |                        |                       | DG Set 7.5KVA Make               |                  |                |               |  |
|    |   | Engine 1                   |                          |                        |                       |                                  |                  |                |               |  |
|    |   | <b>Make/Type</b>           | <b>Qty</b>               | <b>Rating</b>          | <b>No of Cylinder</b> |                                  | <b>RPM</b>       | <b>Cooling</b> |               |  |
|    |   | Kirloskar Green/ EA16      | 1                        | 16 HP                  | 3                     |                                  | 1500             | Air            |               |  |
|    |   | Alternator                 |                          |                        |                       |                                  |                  |                |               |  |
|    |   | <b>Make/Type</b>           | <b>Qty</b>               | <b>Rating</b>          | <b>Voltage/Amp</b>    |                                  | <b>Frequency</b> | <b>Phase</b>   |               |  |
|    |   | Kirloskar                  | 1                        | 7.5 KVA                | 240V                  |                                  | 50Hz             | Single         |               |  |
|    |   | Solar Plant for Main Light |                          |                        |                       |                                  |                  |                |               |  |
|    |   | <b>Capacity PV</b>         |                          | <b>Numbers</b>         |                       | <b>Type</b>                      | <b>Battery</b>   |                | <b>Bank</b>   |  |
|    | 2KW Off Grid  |                            | (250W HHV Make – 8 Nos.) |                        | Mono Crystalline      | 24 Nos 2V/200AH                  |                  | 01 No.         |               |  |
| 13 | <b>स्वचालित वोल्टेज स्टेबलाइजर/ 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   | SAN 115                    | 15 KVA                   | Single Phase 180-240 V | 230V                  | Single                           | 1 No.            |                |               |  |
| 14 | <b>बैटरी / Batteries</b>  |                            |                          |                        |                       |                                  |                  |                |               |  |
|    | <b>Equipment</b>  | <b>Type</b>                | <b>Make</b>              |                        | <b>Volt</b>           | <b>Amp/Hr</b>                    | <b>Qty</b>       |                |               |  |
|    | PSS NAIS  | Tubular                    | Amaron Quanta S-XEL      |                        | 12V                   | 150 AH                           | 2                |                |               |  |
|    | Genset  | SMF                        | SF Sonic Trucker 1080    |                        | 12V                   | 100 AH                           | 1                |                |               |  |
|    | Automation  | Sealed Lead Acid           | Exide                    |                        | 12V                   | 7 AH                             | 2                |                |               |  |
| 15 | <b>बैटरी चार्जर/ Battery charger</b>                              |                            |                          |                        |                       |                                  |                  |                |               |  |
|    | <b>Equipment</b>  | <b>Make</b>                | <b>Model</b>             | <b>Type</b>            | <b>Rating</b>         | <b>Qty</b>                       |                  |                |               |  |
|    | General Purpose for A.M.F. Panel                                  | Automatic Electric Ltd.    | ---                      | 30V                    | 15 Amps               | 01                               |                  |                |               |  |
| 16 | <b>इंवर्टर Inverter /UPS</b>                                      |                            |                          |                        |                       |                                  |                  |                |               |  |
|    | <b>Equipment</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  | 04                         | Su-Kam                   | SHINY 900              | Pure sine wave        | 900 VA                           | 4                | 170-230 V AC   | 230V AC       |  |

|           |  |   |                            |              |                              |  |                       |              |         |  |
|-----------|--|---|----------------------------|--------------|------------------------------|--|-----------------------|--------------|---------|--|
|           | <b>NAIS PSS</b>                            | <b>02</b>   | APC                        | SRC 1 KI- IN | Pure sine wave               | 1 KVA  | 2                     | 100-300 V AC | 230V AC |  |
|           | <b>Automation</b>                          | <b>01</b>   | APC                        | PRO 1000     | Pure sine wave               | 1 KVA  | 1                     | 100-300 V AC | 230V AC |  |
| <b>17</b> | <b>स्वचलन उपकरण/ Automation Equipment</b>  |   |                            |              |                              |  |                       |              |         |  |
|           | MAKE                                       | PLC   | HMI                        | Power Supply | VSAT                         | Modem  | Band                  |              |         |  |
|           | NELCO                                      | Allen Bradley Micro Logix 1400  | Renu Electronics Pvt. Ltd. | 24 V DC      | 1.2m dia Parabolic Reflector | Hughes HN7000S   | EX.C                  |              |         |  |
| <b>18</b> | आग्नि शमन उपकरण<br>Fire Fighting Equipment | Type of Extinguisher  |                            |              | Capacity                     | Nos  | Make                  |              |         |  |
|           |  | DCP Type  |                            |              | 3.2Kg/ 2Kg                   | 2+2  | Firex/ Ande x         |              |         |  |
|           |  | Co2   |                            |              | 4.5 Kg                       | 2  | Flam eblitz z         |              |         |  |
|           |  | Foam Type   |                            |              | 9 Ltr                        | 1  | Avon                  |              |         |  |
|           |  | MAP-90 Powder   |                            |              | 4/2/1 Kg                     | 3+8+1  | Flam eblitz z         |              |         |  |
| <b>19</b> | <b>संचार<br/>Communication</b>             | Not Available   |                            |              |                              |  |                       |              |         |  |
| <b>20</b> | <b>जल पूर्ति<br/>Water Supply</b>          | Kerala Water Authority – 2 connections, 01 No. Open Well with potable water.  |                            |              |                              |  |                       |              |         |  |
| <b>21</b> | <b>भूमि<br/>Land</b>                       | Area  |                            |              |                              |  | 0.307 hectre          |              |         |  |
|           |  | Demarcation   |                            |              |                              |  | Masonry Compound Wall |              |         |  |
| <b>22</b> | <b>इमारतें<br/>Buildings</b>               | 08 Nos  |                            |              |                              | Office, Powerhouse & Store,Heritage IQ, Museum, New Inspection Quarters, Staff Quarters: N.A. I – N.A. II twin quarters, A.L.K/ N.A. II Quarters, LHA- LHS Twin Quarters |                       |              |         |  |
| <b>23</b> | <b>कंपाउंड लाइट</b>                        | 11 Nos. of Antique type streetlights, 05 Nos. oftubelights fitted on G.I Poles, 02 Nos. of Main Entrance Gate lights fitted on G.I. poles |                            |              |                              |  |                       |              |         |  |

|    |   |   |                                  |
|----|---|---|----------------------------------|
|    | <b>Compound Lights</b>  |   |                                  |
| 24 | सीसीटीवी कमेरा<br>CCTV CAMERA   | Camera<br>N/A   | N/A                              |
| 25 | स्टाफ<br><b>Staff</b>   | Sl. No  | Designations                     |
|    |   | 1   | Navigational Assistant Grade –I  |
|    |   | 2   | Navigational Assistant Grade –II |
| 26 | पहुँचने का माध्यम<br><b>Mode of approach</b>                            | The lighthouse is accessible by train or by bus up to Alappuzha.  |                                  |
| 27 | उपलब्ध सुविधाएँ<br><b>Facilities available</b>                          | The Alappuzha Lighthouse located near the district headquarters of Alappuzha District has all the essential amenities within a radius of 3 K.M. Alappuzha Railway Station, Alappuzha Head Post Office, Alappuzha Civil Station/ Collectorate, Alappuzha District Police headquarters and Alappuzha South Police Station are within 2 K.M. from the lighthouse. A State Government General Hospital is only 2.5 K.M. away from the lighthouse. |                                  |
| 28 | डाक पता <b>Postal address</b>   | Navigational Assistant Grade-I<br>Alappuzha Lighthouse<br>C.C.S.B. Road, Civil Station Ward, Alappuzha<br>Pin: 688012.  |                                  |
| 29 | मूल्य का ब्योरा<br><b>Cost details</b><br>(At the time of Construction) | N/A   |                                  |
| 30 | प्रवर्तन में लाने का देनांक<br><b>Date of commissioning</b>             | 28.03.1862  |                                  |