

मास्टर लेजर/MASER LEDGER

क्रसंSr. No	नाम /Name	विवरण/Description			
1	ए.एल.ओ.एल/A.L.O.L.	F 0698			
2	स्थान/Position	Lat.09° 59'82" N , Long 76° 13' 34" E			
3	ऊंचाई/Elevation	49 m (Above MSL)			
4	अभिलक्षण/Characteristic	Fl (4) W 20 sec (fl 0.41)			
5	नॉटिकल माइल मे दूरीRange in NM	27.0 NM			
6	दीपस्तंभ टावर/L.H.Tower	Type	Circular Ribbed double shell RCC		
		Height	46 m		
		Colour Scheme	Red and White Band		
7	ऑप्टिकल उपकरण Optical equipment	Optic			
		Make	M/s J. Stone & Co., Calcutta		
		Focal Length	375mm		
		Type	3 rd Order Small		
		No. of Panels	4		
		Area of dioptric portion	-		
		Area of catadioptricportion	-		
		Total Area	4552 Sq cm		
		Divergence	11° 27' 32" (Horizontal) 6° 6' 39" (Vertical)		
		Main/Emergency Lamps			
		Duration of Flash	Fl (4) W 20 sec (fl 0.41) 0.41+2.92+0.41+2.92+0.41+2.92+0.41 + 9.6 seconds		
		Main /Standby/Emergency	Only Main Lamp		
		Pedestal	Ball bearing type		
		Rotation Device	Dual Stepper motor (20 Kg cm)		
		R.P.M.	3		
		Illuminant	Metal Halide Lamps		
		Main	Cluster 4 Nos-230V/150W MHL,600 Watts		
Standby	NA				
Emergency:	NA				
Date of Installation	09-08-2003				
8	प्रभावी बीम तीव्रता/ Effective beam intensity	Main	1938500 cds		
		Emergency	NA		
9	लैंटर्न/Lantern	Diameter	2.4m		
		Height of glazing	1.380 m		
		No. of panes	12		
		Ventilators	8		
10	RACON	Sr. No	6572		
	Make	Model	Code	Band	Dol

	Tideland, USA	Sea Beacon 2 Sysytem 6	K	X + S Band	04-05-2009			
11	NAIS							
	Base Station		2 Nos - AIS1 & AIS2					
	Model	Type	Power	MMSI				
	R40	Class A	AC-230V & DC-12V					
	Communication Equipment	Satellite Modem	1KVA UPS 12V/100AHBattery					
	VSAT Antenna	Band	Modem					
	2.4m dia Parabolic reflector	EX-C	M/s HugesPvt Ltd					
	DGPS							
	Transmitter Make	Frequency	Power Output	RS 1 ID	RS -II ID	Beacon ID	Date of commissioning	Date of Recapitalization
	NA	NA	NA	NA	NA	NA	NA	NA
12	ऊर्जा के साधन/ Source of energy							
	Mains			440V AC 3Ø - Local State Electricity				
	Stand by Source -2 Nos			DG Set 25 KVA&7.5KVAKirloskar make				
	Engine 1- 25KVA for Elevator							
	Make/Type	Qty	Rating	No of Cylinder	RPM	Cooling		
	Kirloskar Green /HA394	1	32 BHP	3	1500	Air		
	Alternator							
	Make/Type	Qty	Rating	Voltage/Amp	Frequency	Phase		
	Kirloskar	1	25 KVA	230 V/34.7A /1Ø	50Hz	3 Ø		
	Engine 2- 7.5KVA for Main Lamp							
	Make/Type	Qty	Rating	No of Cylinder	RPM	Cooling		
	Kirloskar Green /EA-16	1	16 BHP	3	1500	Air		
	Alternator							
	Make/Type	Qty	Rating	Voltage/Amp	Frequency	Phase		
	Kirloskar	1	7.5 KVA	240V/ 31.25A	50Hz	1 Ø		
	Solar Plant-2KW offline							
	Capacity PV	Panels Nos		Type	Battery	Bank		
	2 KW Offline	8 Nos 250Watts each		Mono Crystalline	48 Nos 2V/200 AH	01 No.		
	Solar Plant for RACON- Morse Code-K							
	Capacity PV	Numbers		Type	Battery	Bank		
	70W/12V	02Nos		TBP 1275	01 No 12V/100AH	01 No.		
13	स्वचालित वोल्टेज स्टेबलाइजर / Automatic Voltage Stabilizers							
	Make	Model	Capacity	Input	Output	Phase	Qty	
	AE- Main Lamp	EMS-12-J	5 KVA	160-260V	230±1%	1Ø	1 No	
	Unitek- Elevator	K-5000	30 KVA	320-470	400±1%	3Ø	1 No	
14	बैटरी / Batteries							
	Equipment	Type	Make	Volt	Amp/Hr	Qty		
	NAISPSS	SMF	Exide	12V	150 AH	2 Nos		
	Genset	SMF	SFM Sonic	12V	100 AH	1 No	7.5KVA	

		Lead Acid	Exide Xp100	12V	100 AH	1 No	25 KVA	
	Automation	SMF	Exide	12V	7 AH	2Nos		
	DGPS	NA	NA	NA	NA	NA	NA	NA
15	बैटरी चार्जर/ Battery charger							
	Equipment	Make	Model	Input	Output	Rating	Qty	
	Stepper Motor – Battery	Ruttonsha	BC-12/10	230 V AC	0-100V DC	50 A	1	
16	इंवर्टर / Inverter /UPS							
	Equipment	Make	Model	Type	Rating	Input	Output	Qty
	Main Light	Su-Kam	Shiny	Pure sine	900VA	12 V DC	230 AC	04
	NAIS PSS	Microteck		Pure sine	1 KVA	12 V DC	230 AC	01
		Su-Kam	Shiny	Pure sine	1 KVA	12 V DC	230 AC	01
	DGPS	NA	NA	NA	NA	NA	NA	NA
17	स्वचलन उपकरण / Automation Equipment							
	MAKE	PLC	HMI	Power Supply	VSAT	Modem	Band	
	M/s RDS Pvt Ltd	Allen Bradley	Renu Electronic Pvt Ltd	24 V DC	1.8m dia Parabolic reflector	Hugues	EX.C	
18	आग्नि शमन उपकरण Fire Fighting Equipment		Type of Extinguisher		Capacity	Nos	Make	
			DCP Type		1 / 2 / 4 Kg	3/3/2	Map90	
			Co2		4.5 Kg	1		
			Foam Type		9 Ltr	3		
19	संचार / Communication		BSNL Line - 0484 2502443					
20	जल पूर्ति / Water Supply		Kerala Water Authority water supply (1 Separate Lines) up to Sump. 2 Nos. Overhead water tank of capacity 2000 Ltrs & 1800 Ltrs is installed for staff quarters and visitor's toilet respectively.					
21	भूमि Land		Area			32.20 Acre		
			Demarcation			Compound wall		
22	इमारतें Buildings		RCC Structure: 08 Nos			Lighthouse Tower		
						Power House cum office, stores & recreation room		
						NA-II/Inspection Qtr(Double storey Building)		
						NA-I Qtr		
						NA-II Qtr		
						LHA-Qtr (Twin)		
						Ticket Counter cum Security room		
						Pump House		
23	कंपाउंड लाइट/Compound Lights		NA			NA		
24	Elevator		M/s Axis Elevators and Escalators, Cochin			Capacity 5 Persons -320 kgs		

25	सीसीटीवी कमेरा CCTV CAMERA	M/s HawksightTechnoliges, Cochin	8 Nos
		DVR- 2TB	01 Nos
25	स्टाफ Staff	Sl. No	Designations
		1	Navigational Assistant Gr-I
		2	Navigational Assistant Gr-II- 1 No
		2	LHA -1 No
26	पहुँचने का माध्यम Mode of approach	Ernakulam Railway Station Bus service – 12 Km	
27	उपलब्ध सुविधाएँ Facilities available	Post Office at 100 Mtr, Hospital at 100 Mtr, High school at 1 Km and Police Station is at 5 Km limit available.	
28	डाक पता Postal address	The Head Lightkeeper Vypin Lighthouse, Puthuvaip P.O Ernakulam-682508 Kerala	
29	मूल्य का ब्योरा Cost details (At the time of Construction)	N/A	
30	प्रवर्तन में लाने का देनांक Date of commissioning	10.10.1979	