

मास्टर लेजर/MASER LEDGER

क्रमसं ख्या/ Sr.No	नाम /Name	विवरण /Description	
1	ए. एल . ओ. एल / A.L.O.L.	F-0718	
2	स्थान/ Position	Lat.08° 22.8' N , Longitude 93° 58.9' E	
3	ऊंचाई/ Elevation(MSL)	57 m	
4	अभिलक्षण/ Characteristic	Fl(White)- 15 seconds(FL- 0.55+ ec-14.5 sec)	
5	नॉटिकल माइल मे दूरी Range in miles	31 NM	
6	दीपस्तंभ टावर/ L.H.Tower	Type	Circular Masonsry Tower
		Height	36 m
		Colour Scheme	Red and White Band
7	ऑप्टिकल उपकरण Optical equipment	Optic	Revolving Beacon
		Make	BBT
		Type	
		Size	500mm / 3 rd Order Large
		No. of panels	3
		Area of dioptric portion	3265 Sq.cm(corrected area 2318 Sq. cm)
		Area of catadioptric portion	10733 Sq.cm(corrected area 8909 Sq.cm)
		Divergence	4° 27' (Horizontal)
		Main/Emergency	1° 29' (Vertical)
		Duration of Flash	0.55Sec
		Main /Standby/Emergency	
		Pedestal	Mercury float
		Rotation Device	Dual Stepper motor(20 Kg /cm ²)
		R.P.M.	4/3 RPM
		Illuminant	Metal Halide Lamps
		Main	Cluster of 3 Nos 150W/230V
Standby	Diesel Engine Generator set- 2 Nos with Auto ON-OFF		
Emergency:	Back-up UPS supply from Battery Bank		
Date of Installation	14-02-2003		

8	प्रभावी बीम तीव्रता/Effective beam intensity	Main	68,38,000 Candellas				
9	लैंटर्न/Lantern	Diameter	3 m				
		Height of glazing	1.78m				
		No. of panes	24 Nos				
		Ventilators	11 Nos				
10	RACON		Sr. No	6548			
	Make	Model	Code	Band	Date of Installation		
	Tideland, Sea Beacon-2 System-6(X+S Band)	WM-RB-II	O	X+S	25-12-2007		
11	NAIS						
	Base Station		2 Nos-AIS1 & AIS2				
	Model	Type	Power	MMSI			
	R40	Class B	AC-230V & DC-12V	-----			
	Communication Equipment						
	VSAT Antenna	Band	Modem				
	Prodelin, (2.4m Dia)	EX.C	Hughes				
12	ऊर्जा के साधन/Source of energy	Mains			440V, 3 Phase, 50Hz AC		
		Power Source					
		Engine 1					
		Make/Type	Qty	Rating	No of Cylinder	RPM	Cooling
		Kirloskar Green	1	20.5 BHP	2	1500	Air
		Alternator					
		Make/Type	Qty	Rating	Voltage/Amp	Frequency	Phase
			1	15 KVA	230V/65.2A	50Hz	Single
		Engine 2					
		Make/Type	Qty	Rating	No of Cylinder	RPM	Cooling
		Kirloskar Green	1	32 HP	3	1500	Air
		Alternator					
		Make/Type	Qty	Rating	Voltage/Amp	Frequency	Phase

			1	25 KVA	415V/34.7A	50Hz	Three
	Solar Plant on Grid						
	Capacity PV	Numbers		Type	Battery	Bank	
	5 KW	20		Mono Crystalline	-----	-----	
	Solar Plant for Main RACON						
	Capacity PV	Numbers		Type	Battery	Bank	
	70 W/12VDC	01 No.		Tata BP/70 W	01 No Exide Make 12V/150AH	-----	
13	स्वचालित वोल्टेज स्टेबलाइजर Automatic Voltage Stabilizers(2 Nos.) 1) Main Lamp, 2) Elevator						
	Make	Model	Capacity	Input	Output	Phase	Qty
	ITL	N/A	5KVA	170-270V	230V	----	1 NO.
	Hykon Servo Stabilizer	SAN 330	30 KVA	320-470V	400V	-----	1 NO.
14	बैटरी Batteries						
	Equipment	Type	Make	Volt	Amp/ Hr	Qty	
	Main Lamp-1	Lead Acid,Tubular	Exide	12V	150 AH	1 No.	
	Main Lamp-2	Lead Acid,Tubular	Exide	12V	150 AH	1 No.	
	Main Lamp-3	Lead Acid,Tubular	Exide	12V	150 AH	1 No.	
	Stepper Motor	Lead Acid,Tubular	Exide	12V	150 AH	1 No.	
	NAIS	Lead Acid,Tubular	Amaron	12V	150 AH	2 Nos.	
	RACON	Lead Acid,Tubular	Exide	12V	150 AH	1 No.	
	DG-15KVA	Lead Acid	Exide	12V	100 AH	1 No.	
	DG-25KVA	Lead Acid	Exide(SF Sonic)	12V	100 AH	1 No.	

	Water Fountain	Lead Acid, Tubular	Luminous	12V	200 AH	2 Nos.			
15	बैटरी चार्जर/ Battery Charger								
	Equipment	Make	Model	Type	Rating	Qty			
	General Purpose	Delta Electric			15 Amps, 0-30V	1 No.			
16	इंवर्टर Inverter /UPS								
	Equipment	Nos	Make	Model	Type	Rating	Qty	input	Output
	Main Lamp	01	VGUARD	NEXTGEN1250	OFFLINE	1100 VA	01	170-230V	230V
	Main Lamp	01	VGUARD	NEXTGEN1250	OFFLINE	1100 VA	01	170-230V	230V
	Main Lamp	01	VGUARD	NEXTGEN1250	OFFLINE	1100 VA	01	170-230V	230V
	Main Lamp	01	VGUARD	NEXTGEN1250	OFFLINE	1100 VA	01	170-230V	230V
	NAIS PSS	01	SUPRA	GP1012	OFFLINE	1 KVA	01	170-230V	230V
17	स्वचलन उपकरण Automation Equipment								
	MAKE	PLC	HMI	Power Supply	VSAT	Modem	Band		
	Recktronic Devices And Systems ,Pune	1)Allen Bradley, Micro Logix1400, 2) Mitsubhishi Electric, NEXGEN 2000 plus	Renu Electronics Pvt. Ltd,HMI Display-FP5070T	24 V DC	1.2m Dia Parabolic reflector	Hughes	EX.C		
18	आग्नि शमन उपकरण Fire Fighting Equipment			Type of Extinguisher	Capacity	Nos	Make		
				DCP Type	3,2 Kg	2 Nos.			
				DCP(ABC type)	4 Kg	4 Nos.			
				FOAM	9 Ltrs	1 No.			
				Water/Sand Buckets(with stand)	----	---	2+2 Nos.		
				Fire Alarm Control Panel	----	---	----		
19	संचार Communication			(i) BSNL Phone	0471-2480337				
				(ii) Computer	Computer-HP, Printer- Brother, Modem-tp link				
20	जलपूर्ति Water Supply			(i)Water Supply available-Kerala Water Authority (ii) Open well provided in the Lighthouse compound. (iii) Water supplied from the Kerala Water Authority is collected at tank of capacity 5000 litres.					

21	भूमि Land	Area	3 Acre 28 Cent
		Demarcation	Masonry Compound Wall
		No. of fruit bearing trees	NIL
		No of fruit bearing Coconut trees	113 Nos.
		No of non-fruit bearing trees	Palm tree – 1 No. Casuarina tree – 3 Nos.
22	इमारतें Buildings	Masonry/RCC – 9 Nos.	Power House with office, Store, and Recreation room, NA-I, NA-II, LHA(2 Nos.), IQ-1, IQ-2 , Kiosk room, clock room, Cafeteria and Ticket counter.
23	कंपाउंड लाइट/ Compound Lights	LED Light fitted on G.I Pole	9 Nos.GI Poles with 12 Nos. of LED Lights
24	सीसीटीवी कमेरा CCTV CAMERA	Camera	CP PLUS(2 MP)- 16 Nos
		DVR	Dahua DVR –1 No.(16 Channel)
25	स्टाफ Staff	Sl. No	Designations
		1	Navigational Assistant Gr-I : 1 No.
		2	Navigational Assistant Gr-II : 1 No.
		3.	Lighthouse Attendant : 1 No.
26	पहुँचने का माध्यम Mode of approach	By rail up to Trivandrum then 16 KM by road up to Vizhinjam Lighthouse.	
27	उपलब्ध सुविधाएँ Facilities available	Police station at Kovalam 3 Km from Lighthouse and primary health center 2 km from Light house. Post Office at Vizhinjam from Light house.	
28	डाक पता Postal address	The Navigational Assistant Grade-I, Vizhinjam Lighthouse, Vizhinjam (PO), Thiruvananthapuram Dist., Kerala Pin: 695521	
29	मूल्य का ब्योरा Cost details (At the time of Construction)	N/A	
30	प्रवर्तन में लाने का देनांक Date of commissioning	20.05.1972	