

मास्टर लेजर/MASER LEDGER

क्रमसं ख्या/ Sr.No	नाम /Name	विवरण/Description	
1	ए.एल.ओ.एल/A.L.O.L.	F-0715	
2	स्थान/Position	Lat.08° 40.4' N , long 76° 48.5' E	
3	ऊंचाई/Elevation	38M+1.69M =39.6M(Above MSL)	
4	अभिलक्षण/Characteristic	Fl (2) W 20 sec (fl 0.44+3.33+0.44+15.79 Sec)	
5	नॉटिकल माइल मे दूरी Range in miles	20NM	
6	दीपस्तंभटावर/L.H.Tower	Type	Circular RCC tower
		Height	38M
		Colour Scheme	Black and White Band
7	ऑप्टिकल उपकरण Optical equipment	Optic	
		Make	M/s Tideland Signal Corporation.Texas Model :TRB-220Max Lumina with modified 40 Kg Cm stepper motor
		Type	Revolving Beacon
		Size	220mm
		No. of lens	06Nos (2Nos fixed and others blocked)
		Area of dioptric portion	
		Area of catadioptric portion	
		Divergence Main/Emergency	2.40° (Horizontal)
		Duration of Flash Main /Standby/Emergency	2 flashes in every 20 Sec
		Pedestal	Fixed stand arrangement
		Rotation Device	Stepper motor (40 Kg cm)
		R.P.M.	3
		Illumining	Metal Halide Lamp
		Main	230V/70W Philips Metal Halide Lamp
		Standby	NA
Emergency:			
Date of Installation	03-02-2009		
8	प्रभावी बीम तीव्रता/Effective beam intensity	Main	86445 Candelas
		Emergency	
9	लैंटर्न/Lantern	Diameter	2.4 m
		Height of glazing	0.88 m
		No. of panes	12
		Ventilators	06
10	RACON	Sr. No	6295

	Make	Model	Code	Band	Date of Installation					
	NA	NA	NA	NA	NA					
11	NAIS									
	Base Station		NA							
	Model	Type	Power	MMSI						
	NA	NA	NA	NA						
	Communication Equipment									
	VSAT Antenna	Band	Modem							
	NA	NA	NA							
	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		Local Mains 440 V, 3 ϕ , 50 Hz, AC Supply					
			Emergency		Back-up UPS Supply from Battery Bank					
			Stand By		340Watt off Grid solar Plant with 24 V 600 AH Battery Bank					
			Solar Plant Main Light		DOI- 12-07-2010					
			Capacity PV	Numbers	Type	Battery	Bank			
			170W/24V	02 Nos	Poly Cryst alline	12 Nos 2V/6000AH	01 No.			
			Solar Plant for Street Light		DOI- 21-04-2017					
			Capacity PV	Numbers	Type	Battery	Bank			
	250 W	08 Nos	Mon o Cryst alline	24 Nos 2V/200AH	01 No.					
13	स्वचालित वोल्टेज स्टेबलाइजर Automatic Voltage Stabilizers									
	Make	Model	Capacity	Input	Output	Phase	Qty			
	Instrument Techniques Pvt Ltd	SVS500L	5KVA	170-270V	230V	1 ϕ	01			
14	बैटरि Batteries									
	Equipment	Type	Make	Volt	Amp/Hr	Qty				
	Main Lamp	Tubular	Amaron-Quanta	12V	150 AH	1				
	Stepper Motor	Tubular	Amaron-Quanta	12V	150 AH	1				
	Main Lamp back- up	SMF	HBL	01V	600 AH	12				
	Street Light	SMF	HBL	02V	200 AH	24				
	Main Lamp	Tubular	Amaron-Quanta	12V	150 AH	1				
15	बैटरिचार्जर/ Battery charger									
	Sr No	Make	Capacity	Volt	Qty					

	1	AE	50 Amps	50 Volts	01 Nos		
16	इंवर्टर Inverter /UPS						
	Sr No	Make	Input Volts AC	Output Volts	Capacity	Used for	
	01	V-Guard	180-260V	230V	1100VA	Main Lamp	
	02	V-Guard	180-260V	230V	1100VA	Stepper Motor	
	03	UTL Gamma+	170-230V	230V	1KVA	Main Lamp Back up	
	04	Statcon Energiaa	170-230V	230 V	2KVA	Street Light	
17	स्वचलन उपकरण Automation Equipment						
	MAKE	PLC	HMI	Power Supply	VSAT	Modem	Band
	RDS	Allen Bradley	Renu Electronics Pvt .Ltd	24 V DC	1.2 m Dia Parabolic reflector	Hughes	Band C
	Sl. No	Name of the equipment's	Make	Rating	Quantity		
Power Room RTU							
1	Panel Monitor (HMI)	Renu Electronics Pvt .Ltd	HMI Display-FP5070T-S0 Sr. No CI4812178199	01 No			
2	PLC unit	Allen Bradley	Micro Logix 1400	01 No			
3	V-SAT Modem	Hughes	---	01 No			
4	V-SAT Antenna	1.2 m Dia	---	01 No			
4	D-Link switch Ethernet	---	---	---			
5	SMPS unit	NHP	I/P-230AC O/P-24VDC/5A	01 No			
6	Adapter for D-Link	---	---	---			
7	Adapter for V-sat modem	Hughes	I/P- 100-240VAC/ 2A O/P- 64 W	01 No			
8	Relays	IDEC / Omron	RU4S D24/12VDC MY2N	05+04 Nos			
9	MCB	Schneider Electric	4 Pole/ 2 pole	01+03 Nos			
10	Transducer	Adept Fluidyne	---	04 Nos			
11	Rotary On-OFF Switch	---	---	04 Nos			
12	Indication Lamp	---	---	29 Nos			
13	Buzzer with indicating lamp	---	---	01 No			
14	Push button switch	---	---	02 Nos			
15	CT/ Shunt	Amol Electricals	50/5A Sr No-520	01 No			
16	Surge Protecting Device	Hakel-B20M/ PIIIM 320	255 AC/ 320 AC	02 Nos			
17	UPS	APC	1100 VA/660 W	01 No			
Service Room RTU							
1	PLC unit	PSU	Sr No-P2112 (4)	01 No			
2	SMPS unit	NHP	I/P-230V/ O/P-24V/5A DC	01 No			

	3	Transducer	Adept Fluidyne	---	04 Nos	
	4	Relays	IDEC/IDEC	RU4S D24/RJ1S-CL-D24	01+02 Nos	
	5	MCB	Schneider Electric	2 Pole/ 1 pole	02+01 Nos	
	6	Rotary On-OFF Switch	---	---	04 Nos	
	7	Indication Lamp	---	---	11 Nos	
	8	Buzzer with indicating lamp	---	---	01 No	
	9	Push button switch	---	---	01 No	
	10	Proximity Switch	---	---	---	
	11	Light Intensity Sensor	ABLE Instruments & Controls	10-20000 Lux O/P-4-20mA/0-10VDC	01 No	
18	आग्नि शमन उपकरण Fire Fighting Equipment		Type of Extinguisher	Capacity	Nos	Make
			CO2	4.5 kg	2	Flameblitzz
			Map90 Foam Type	4 Kg	2	Flameblitzz
			Map90 Foam Type	2 Kg	3	Flameblitzz
			Map90 Foam Type	1 Kg	1	Flameblitzz
			Water/ Sand Buckets (with stand)		4	
			Smoke Detector		1	Agni systems by microsensors
19	संचार Communication		0470-2656658 Facility provided Office			
20	जल पूर्ति Water Supply		1. Water Supply available-Kerala Water Authority Attingal ,Thiruvananthapuram. 2. 02 Nos of Open well provided in the Lighthouse compound contain salty water. 3. Water supplied from the Kerala Water Authority is collected at sump of capacity 4000 liters from there it pumped to an overhead tank of capacity 1000 liters using 1HP Crompton make, 230 V, 1ϕ motor.			
21	भूमि Land		Area	0.3167 Hectare		
			Demarcation	Masonry Compound Wall		
22	इमारतें Buildings		RCC Structure: 04 Nos	Power House cum office, Store, Kitchen and Recreation room,, NA-I, NA-II, LHA(02 Nos.)		
			Timber Construction above level	One unit of NA-I Qtr., One units of NA-II ,Twin LHA Qtrs, office cum Power house,store,kitchen ,and recreation rooms		
23	कंपाउंड लाइट Compound Lights		There are 09 Nos of Street lights LED with 07 GI poles			
24	सीसीटीवी कमेरा CCTV CAMERA		Camera	--		
			DVR	--		
25	स्टाफ Staff		Sl. No	Designations		
			1	Navigational Assistant Gr-II : 01 No		

		2	Navigational Assistant Gr-III : 01 No
26	पहुँचने का माध्यम Mode of approach	About 06 Km by road from Kadakkavoor railway station on Eranakulam-Thiruvananthapuram route and is about 08 km by road from Attingal on NH-47 to Anjengo Lighthouse.	
27	उपलब्ध सुविधाएँ Facilities available	Police station at Anjengo 2.5 Km and 4Km coastal police station Muthalapozhi from Lighthouse. Fishing harbour 04 Km from Lighthouse. Thiruvananthapuram international airport 35 Km from Lighthouse. Primary health centre near to Lighthouse. Post office at Anjengo 1.2km from Lighthouse.	
28	डाक पता Postal address	Navigational Assistant Gr-I, Anjengo Lighthouse, Anjengo P.O Thiruvananthapuram Dist. Kerala-695309	
29	मूल्य का ब्योरा Cost details (At the time of Construction)	--	
30	प्रवर्तन में लाने का दिनांक Date of commissioning	30.04.1988	