

मास्टर लेजर/MASTER LEDGER

पांडियन तिवु दीपस्तंभ और डीजीपीएस स्टेशन/ Pandiyen Tivu Lighthouse and DGPS Station

क्रम संख्या/ Sr.No	नाम /Name	विवरण/Description	
1	ए.एल.ओ.एल/A.L.O.L.	F 0734	
2	स्थान/Position	Lat.8° 47.1' N , Long 78° 11.9' E	
3	ऊंचाई/Elevation	49.5M (Above MSL)	
4	अभिलक्षण/Characteristic	Flashing white every 10sec	
5	नॉटिकलमाइलमेदूरी Range in miles	21NM	
6	दीपस्तंभटावर/L.H.Tower	Type	Circular tower
		Height	45.7M
		Colour Scheme	Black and White spiral Band
7	ऑप्टिकलउपकरण Optical equipment	Optic	
		Make	J.Stone & Co.
		Type	3 rd order small
		Size	375mm
		No. of lens	2 each of 180
		Area of dioptric portion	4552 Sq. cm
		Area of catadioptric portion	4552 Sq. cm
		Divergence Main/Emergency	7.20° (Horizontal) 2.45° (Vertical)
		Duration of Flash Main /Standby/Emergency	0.5 Sec
		Pedestal	Mounted upon Journal and Thrust Bearings.
		Rotation Device R.P.M.	20 kg/cm Stepper motor 3
		Illumining Main	230V/150W Metal Halide Lamp
		No. of Lamps & Make No. Of Ballast & Make	3Nos Metal Halide Lamps 3No's,Kwicklite
		8	प्रभावीबीमतीव्रता/Effective beam intensity
Emergency	-		
9	लैंटर्न/Lantern	Diameter	2.4 m
		Height of glazing	1.4m
		No. of panes	12
		Ventilators	8
10	RACON	Sr. No	6187

	Make	Model	Code	Band	Date of Installation			
	Tideland	SeaBeacon 2	O	X-BAND S-BAND	26.09.2004			
11	NAIS							
	Base Station		2 Nos-AIS1 & AIS2					
	Model	Type	Power	Sr. No				
	R40	Class A	AC-230V & DC-12V	5334,5243				
	Communication Equipment							
	VSAT Antenna	Band	Modem					
	2.4m dia Parabolic reflector	EX-C	Hughes HT2300					
	DGPS							
	Transmitter Make	Frequency	Power Output	RS 1 ID	RS -II ID	Beacon ID	Date of commissioning	Date of Re capitalization
	Southern Avionics Company	309 KHz	500 Watts	424	425	112	31.12.02	N/A
12	ऊर्जाकिसाधन/ <i>Source of energy</i>	Mains		Main supply:3Ph,440V,50Hz				
		Stand By		Gen set:230V,1Ph,50 Hz, 2 No's				
		Engine 1						
		Make/Type	Qty	HP	No of Cylinder	RPM	Cooling	
		Kirloskar	1	32	3	1500	Air	
		Alternator						
		Make/Type	Qty	Rating	Voltage	Frequency	Phase	
		Kirloskar	1	20 KVA	240V	50Hz	Single	
		Engine 2						
		Make/Type	Qty	HP	No of Cylinder	RPM	Cooling	
		Kirloskar	1	32	3	1500	Air	
		Alternator						
		Make/Type	Qty	Rating	Voltage	Frequency	Phase	
		Kirloskar	1	20 KVA	240V	50Hz	Single	
		Solar Plant : ON Grid						
		Capacity PV	Make	Type	Ratings/Voltage	Quantity		
		25 KW	Delta	Mono Crystalline	250 W	100		
		Solar Panel for RACON						
		Capacity PV	Numbers	Type	Battery			
		70 W/12V	01 No.	TBP 1270M	01 Nos 12V/100AH			
13	स्वचालितवोल्टेजस्टेबलाइजर							

Automatic Voltage Stabilizers									
Make		Capacity		Input		Output		Phase	Qty
ITL		12.5 KVA		170-270V		230V		Single	3 No's
बैटरी Batteries									
Equipment		Type		Make	Volt	Amp/ Hr	Qty		
Main Light		SMF		Exide	12V	150 AH	4		
Genset		Lead acid		Exide	12V	150 AH	2		
Automation				Numeric					
DGPS		SMF		Exide	12V	42 AH	15		
बैटरीचार्जर/ Battery charger									
Equipment		Make		Volts		Capacity		Qty	
General Purpose		Delta electric corporation		Input-230V, Output-0-30V Dc		15 A		1 No	
		AE Make		Input-230V, Output-0-30V Dc		15 A		2 No	
इंवर्टर Inverter /UPS									
Equipment	Nos	Make	Model		Type	Rating	Qty	input	Out put
Main Light	05	UTL	---		---	800 VA	5	12V DC& 230 AC	230 VAC
NAIS PSS	02	APC	----		Pure sine wave	1 KVA	2	36V DC& 230 AC	230 VAC
DGPS	01	Hykon	----		Pure sine wave	5 KVA	10	130V DC & 230 AC	230 VAC
स्वचलन उपकरण Automation Equipment									
MAKE		PLC		HMI	Power Supply		VSAT	Modem	Band
Recktronic Devices & System		Allen Bradley MicroLogix 1400		Recktronic Devices & System	24 V DC		1.8m dia Parabolic reflector	Hughes	EX.C
आग्निशमन उपकरण Fire Fighting Equipment				Type of Extinguisher		Capacity		Nos	Make
				DCP Type		6 kg		3	
				Water Co2		4.5 kg		3	
				Foam Type		9 Ltr		3	
संचार Communication				Telephone: 04612902033			Email id: pandiyantivudgps@gmail.com		

20	जलपूर्ति Water Supply	From V.O.C Port Trust Water tank through Pvt. Lorry water supply to Lighthouse.	
21	भूमि Land	Area	1.39 Hectres
		Demarcation	Compound wall
22	इमारतें Buildings	RCC Structure	Power House, Store room, Workshop, Office room, DGPS room, Coil hut, I.Q-1 No, A.E Qtrs-1No, NA.Gr-II Qtrs-2No's, LHA&LHS- 1 No.twin Qtrs.
23	कंपाउंडलाइट Compound Lights	LED Light fitted on G.I Pole-11 Nos	
24	सीसीटीवीकमेरा CCTV CAMERA	N/A	
25	स्टाफ Staff	Sl. No	Designations
		1	Navigational Assistant Gr-I
		2	Navigational Assistant Gr-II
26	पहुँचनेकामाध्यम Mode of approach	Up to Tuticorin by Rail/Road & then 18km by road up to Green gate with Bus facility & 5km by road up to Lighthouse without Bus facility	
27	उपलब्धसुविधाए Facilities available	The nearest Post office, High School and Police Station is 8km and Govt.Hospital at 23km from Lighthouse.	
28	डाकपता Postal address	The Assistant Engineer (E) Pandiyam Tivu Lighthouse cum DGPS Station. Harbor Estate Post Office, Tuticorin District, Tamilnadu, Pin: 628004.	
29	मूल्यकाब्योरा Cost details (At the time of Construction)	Rs.16,11,000/-	
30	प्रवर्तनमेलानेकादेनांक Date of commissioning	28.04.1980	