

मास्टर लेजर/MASTER LEDGER

रत्नागिरीदीपस्तंभऔरडीजीपीएसस्टेशन
RATNAGIRI LIGHTHOUSE AND D.G.P.S STATION

<u>क्रमसंख्या/ Sr.No</u>	<u>नाम /Name</u>	<u>विवरण/Discription</u>	
1	ए.एल.ओ.एल/ A.L.O.L.	F0580 (RATNAGIRI LIGHT HOUSE AND DGPS STATION)	
2	स्थान/ Position	Lat. 16 ⁰ 59.2'N Long. 73 ⁰ 16.4'E	
3	ऊंचाई/ Elevation	103 Meters above MHWS	
4	अभिलक्षण/ Characteristic	Gr. fl W (2) White every 10 Sec. (Fl.0.41 + ec 1.59 + Fl 0.41 + ec 7.59 = 10 Sec.)	
5	नॉटिकलमाइलमेदूरी Range in miles	Luminous: 23 NM Geographical : 25 NM	
6	दीपस्तंभटावर/ L.H.Tower	Type	Circular Masonry Tower
		Height	15.25 Meters
		Colour Scheme	Black and White Bands 3 Nos. of 4.9 m each (2 Black + 1 White) Bottom band: Black
7	ऑप्टिकलउपकरण Optical equipment	Optic	
		Make	M/s. Stone Chance, England
		Type	3 rd order small
		Size	375mm Focal length
		No. of lens	4
		Area of dioptric portion	1430 sq. cm
		Area of catadioptric portion	5750 sq. cm.
		Divergence Main/Emergency	Horizontal – 8.36 ⁰ , Vertical – 6.08 ⁰
Duration of Flash Main /Standby/Emergency	0.41 sec		

		Lamp changer	N/A					
		Pedestal	Mercury float (51 Kg. in use)					
		Rotation Device	Dual Stepper Motor 40 Kg/cm2 with auto changeover					
		R.P.M.	3					
		illuminating						
		Main	3 x 150W, Metal Halide Lamp cluster					
		Standby	N/A					
		Emergency:	N/A					
		Date of Installation	15th June 1965					
8	प्रभावीबीमतीव्रता/Effective beam intensity	Main & Standby	352948 cd.					
Emergency		N/A						
9	लैंटर्न/Lantern	Diameter	2.16 m					
		Height of glazing	1.37 m					
		No. of panles	6 Nos., Plus 2 Nos. land ward side blanked					
		Ventilators	7 No.s					
10	RACON							
	Make	Model	Code	Band	Date of Installation			
	Pharos Marine	HY1120180649	'G' (- - .)	X Band	18/11/2018			
11	NAIS							
	Base Station							
	Model	Type	Power	MMSI				
	R40	---	AC: 100-240V DC: +24 V	----				
	Communication Equipment							
	VSAT Antenna	Band	XC Band Make: Prodelin	Modem	L Band Make: Datum			
	DGPS							
	Trasmitter Make	Frequency	Power Output	RS 1 ID	RS - II ID	Beacon ID	Date of commissioning	Date of Recapitalization
	Nautel VRD 750	308 KHZ	500 W	420	421	110	01/06/2003	29/09/2017
12	ऊर्जाकेसाधन/Source of energy	Mains	Local Mains 440 V 3 phase 50Hz & 20 KW on grid Solar power System					
		Standby	Diesel Generator Set					
		Engine 1						

		Make/Type	Qty	Rating	No of Cylinder	RPM	Cooling		
		KOEL(Kirloskar) / HA394TCI61	1 No.	25KVA	3	1500	Air		
		Alternator							
		Make/Type	Qty	Rating	Voltage/Amp	Frequency	Phase		
		Kirloskar / KG42.3B	1No.	25 KVA	415v/34.8 A	50HZ	3 Phase		
		Engine 2							
		Make/Type	Qty	Rating	No of Cylinder	RPM	Cooling		
		KOEL(Kirloskar) / HA394TCI61	1 No.	25 KVA	3	1500	Air		
		Alternator							
		Make/Type	Qty	Rating	Voltage/Amp	Frequency	Phase		
		Kirloskar / KG42.3B	1 No.	25 KVA	415v/34.8 A	50HZ	3 Phase		
		Solar Plant							
		Capacity PV	Numbers		Type	Battery	Bank		
		250 W	80 No.S		Mono - Crystalline	---	---		
		Solar Plant for Main RACON							
		Capacity PV	Numbers		Type	Battery	Bank		
		70 W & 75 W	2 No.S		Mono-Crystalline	1No. 12V / 65Ah	--		
13	स्वचालितवोल्टेजस्टेबलाइजर Automatic Voltage Stabilizers								
	Make	Model	Capacity	Input	Output	Phase	Qty		
	Servomax	-----	15 KVA	170-270 V	230± 1%	1 Phase	3 No.S		
14	बैटरी Batteries								
	Equipment	Type	Make	Volt	Amp/Hr	Qty			
	PSS NAIS	---	---	---	---	---			
	Genset	Lead Acid	Koel Green	12 V	75 Ah	2 No.S			
	Automation	SMF	Rocket	12 V	26 Ah	2 No.S			
	DGPS	SMF	Exide	12 V	42 Ah	22 No.S			
15	बैटरीचार्जर/ Battery charger								
	Equipment	Make	Model	Type	Rating	Qty			
	General Purpose	-----	-----	-----	-----	-----			
	Automation	Powerex Engg.	C280 110	---	26.5 V/15 A	1 No.			
16	इंवर्टरInverter /UPS								
	Equipment	Nos	Make	Model	Type	Rating	Qty	input	output

	Main Light	3 No.	Exide DST PSt UPS	Exide DST PSt UPS	Offline Mode	850 VA	3 No.	230 V AC 12 V DC	230 V
	NAIS PSS	2 No.	APC	SRC 1KI-IN	Online mode	1 KVA	2 No.	230 V	230 V
	DGPS	3 No.	APC	SRC10K-UXI ,SRC 3000	Online Mode	10 KVA, 3 KVA, 1 KVA	1 No. Each	230 V	230 V
17	स्वचलनउपकरण Automation Equipment								
	MAKE	PLC	HMI	Power Supply	VSAT	Modem	Band		
	NELCO	1No.Schneider electric & 1 No.Telemecanique	1No..Scheider Electric	26 V Make Powerex Engg.	1.8 m Dia.	1 No. Sky-Edge	TX: L Band (950-1450MHz) Rx:L Band (950-1750 MHz)		
18	आग्निशमनउपकरण Fire Fighting Equipment			Type of Extinguisher	Capacity	Nos	Make		
				CO2	6.5 Kg	2	Safex		
19	संचार Communication			BSNL Tel. No. 02352 – 232982, Fax Panasonic			Not Available		
20	जलपूर्ति Water Supply			1)Open well (40 ft. deep) Submersible 2 HP, 3 Phase Motor. 2)Borewell(200ft deep), 3phase 2 HP motor & . 3)Municipal water supply Submersible 2 HP, 3 Phase Motor.					
21	भूमि Land			Area			1.182 Hectares		
				Demarcation			Compound Wall		
22	इमारतें Buildings			Quarters			Lighthouse Tower, Power House(DGPS Room, Store Room),Auxiliary Red Light room,Coil Hut, Inspection Quarter,One Twin unit of A.E.(E)& NAII One Twin Unit of NAIII Quarter, One Twin unit of LHA Quarter, One SRT Quarter, Water Pump Room.		
23	कंपाउंडलाइट Compound Lights						19 No. Street Light Fittings,		

			2 Gate Dome lights.
24	सीसीटीवीकमेरा CCTV CAMERA	Camera	---
		DVR	----
25	स्टाफ Staff	Sl. No	Designations
		1	Senior Radio Technician – 1 No.
		2	Navigational Assistant Grade II - 1 No.
		3	Navigational Assistant Grade III - 1 No.
		4	Lighthouse Attendent -1 No.
		5	
		6	
7			
26	पहुँचनेकामाध्यम Mode of approach	By rail Konkan Railway upto Ratnagiri Station, then 12 Kms. By road upto Lighthouse	
27	उपलब्धसुविधाए Facilities available	Marine Police Station	Yes. Approx. 5 Km
		Dispensary	Yes. Civil Hospital At 4 Km
		High School	Yes. Appox. 7 Kms.
		Post office	Ye. Approx. 4 Kms.
28	डाकपता Postal address	Assistant Engineer(E), Ratnagiri Lighthouse & DGPS Stn. Ratnagiri (Killa), Post. Ratnagiri, Dist. Ratnagiri, Maharashtra- 415 612.	
29	मूल्यकाब्योरा Cost details (At the time of Construction)	-----	
30	प्रवर्तनमेलानेकादेनांक Date of commissioning	15th June 1965	