

मास्टरलेजर /MASTER LEDGER

हजीरा दीपस्तंभ (सुवाली पॉइंट) Hazira Lighthouse & DGPS station (Suvali Point)

क्रमसंख्या/ Sr.No	नाम /Name	विवरण/Discription	
1	ए.एल.ओ.एल/A.L.O.L.	F 0476	
2	स्थान/Position	Lat. 21° 05.53' N Long. 72° 38.55' E	
3	ऊंचाई/Elevation	39m	
4	अभिलक्षण/Characteristic	Fl (3)W 15 Sec. (fl. 0.4, ec. 2.10)(fl. 0.4,ec.2.10) (fl 0.4, ec. 9.60)	
5	नॉटिकलमाइलमेदूरी Range in miles	24 NM	
6	दीपस्तंभटावर/L.H.Tower	Type	Circular Stone Masonry Tower
		Height	25 m
		Colour Scheme	White
7	ऑप्टिकलउपकरण Optical equipment	Optic	4 th Order
		Make	B.B.T
		Type	Revolving
		Size	250 mm
		No. of lens	6 (2 Tier of 3 Panels each of 60°)
		Area of dioptric portion	402 cm ² (Corrected area 286 sq.cm)
		Area of catadioptric portion	1182 cm ² (Corrected area 981 sq.cm)
		Divergence Main/Emergency	12. 54° (Horizontal) & 9.12° (Vertical) MH Lamps, Philips 220V/150Wx3
		Duration of Flash Main /Standby/Emergency	0.4 Sec.
		Lamp changer	NA
		Pedestal	Mercury float (22.325 Kg in use)
		Rotation Device	Dual Stepper Motor 40 Kgcm with auto changeover Clock machine with hand Winding is kept as Standby
		R.P.M.	2
		Illumining	

		Main	3x150 W Metal Halide Lamp Cluster					
		Standby	NA					
		Emergency:	NA					
		Date of Installation	01-06-1966					
8	प्रभावीबीमतीव्रता/Effective beam intensity	Main & Standby	72054 cd					
		Emergency	-					
9	लैंटर्न/Lantern	Diameter	2 m					
		Height of glazing	1.07 m					
		No. of panes	8					
		Ventilators	7					
10	RACON		Sr. No.	ALORS 78980				
	Make	Model	Code	Band	Date of Installation			
	Tideland (frequency Agile)	Sea beacon 2 System 6	K	X+S Band	6 th May-2005			
11	NAIS							
	Base Station	R40 Base Station AIS-1, AIS-2 , Satellite Modem & 8 Port Network Switch						
	Model	Type	Power	MMSI				
	R 40	Class A	12.5 W	4192222				
	Communication Equipment	02Nos GPS Antenna 02Nos VHF Antenna						
	VSAT Antenna	Band	Modem					
	2.4m dia Parabolic reflector	Ex-C band	Datum Systems PSM-500L Satellite Modem					
	DGPS							
	Trasmitter Make	Frequency	Power Output	RS 1 ID	RS -II ID	Beacon ID	Date of commissioning	Date of Recapit alization
	Nautal	314 Khz	500 Watts	408	409	104	March-2004	25.02.2020
12	ऊर्जाकेसाधन/ Source of energy	Mains		DGVCL, 415V AC, 3 Phase, 50Hz				
		Standby		Diesel Generator-02 Nos				
		Engine 1						
		Make/Type	Qty	Rating	No of Cylinder	RPM	Cooling	
		Kirloskar /HA494	01	43BHP	04	1500	Air Cooling	
		Alternator						

		Make/Type	Qty	Rating	Voltage/Amp	Frequency	Phase
		Kirloskar/ GIR.F.160	01	35KVA,	415V/49Amp	50Hz	3ø
		Engine 2					
		Make/Type	Qty	Rating	No of Cylinder	RPM	Cooling
		Kirloskar /HA494	01	43BHP	04	1500	Air Cooling
		Alternator					
		Make/Type	Qty	Rating	Voltage/Amp	Frequency	Phase
		Kirloskar/ GIR.F.160	01	35KVA,	415V/49Amp	50Hz	3ø
		Solar Plant					
		Capacity PV	Numbers	Type	Battery	Bank	
		17.5V/200W	03	Mono Crystalline	03Nos 12V/150A H	-	
		Solar Plant for Main RACON					
		Capacity PV	Numbers	Type	Battery	Bank	
		17V/75W	01	TBP1275	01No 12V/100A H	-	
13	स्वचालितवोल्टेजस्टेबलाइजर Automatic Voltage Stabilizers						
	Make	Model	Capacity	Input	Output	Phase	Qty
	Precious Power technologies Pvt.LtdHyderabad Servomax Type	IS-9815	15KVA	170V -270V AC	230V AC ± 1%	1ø	03Nos
14	बैटरी Batteries						
	Equipment	Type	Make	Volt	Amp/Hr	Qty	
	PSS NAIS	-	-	-	-	-	
	Genset-I	Lead Acid	Exide	12 V	180 AH	01	
	Genset-II	Lead Acid MF	Relicell	12 V	150 AH	01	
	Automation	Lead Acid MF	Exide	12 V	26 AH	8+2 = 10	
	DGPS	SMF VRLA	Amaron Quanta	12 V	42 AH	16+6 = 22	
15	बैटरीचार्जर/ Battery charger						
	Equipment	Make	Mode I	Type	Rating	Qty	
	General Purpose	Logic Control	-	-	10Amps	01	

	Automation	Powerex Eng.	-	-	15Amps	01			
16	इंवर्टर Inverter /UPS								
	Equipme nt	Nos	Make	Model	Type	Rating	Qty	input	output
	Main Light	03	Exide	850 DSP PST UPS (M)	Pure Sine Wave	850 VA	03	12 V DC & 230V AC	230V AC
	NAIS PSS	02	APC	1. SRC 1KI.IN 2. Smart UPS RC 1000	On-Line	1000 VA	2	12 V DC & 230 AC	230 AC
	DGPS	02	APC	SRC10K UXI SRC3KUX	On Line On Line	10KVA 3KVA	01 01	192V DC/ 230V AC 72V DC/ 230V AC	230V AC 230V AC
17	स्वचलन उपकरण								
	Automation Equipment								
	MAKE	PLC	HMI	Power Supply	VSAT	Modem	Band		
Nelco	Telemecanique	Schneider	24V DC	1.8 mtrs dia Parabolic reflector	SkyEdge	Ex-C band			
18	आग्निशमन उपकरण Fire Fighting Equipment			Type of Extinguisher		Capacity	Nos	Make	
				1.D.C.P Type		3.2 Kg. Cap.	03	Bharat	
						1 Kg. Cap.	02	Chandrakan t & Co.	
				2. CO2 Type		9 Liters Cap. 5 Kg. Cap.	01 02	Zenith Safex	
19	संचार Communication		BSNL Telephone with fax machine Tel.No. 0261- 2870761			haziralighthouse@gmail.com			
20	जलपूर्ति Water Supply		(i) A Submersible pump 2 HP/1 phase Crompton Greaves Installed in Open Well inside Lighthouse premises & water is pumped to R.C.C over head tank & running water is provided to all Quarters.						
21	भूमि Land		Area		1.70 Hectare				
			Demarcation		C.C. Block Masonry Compound Wall				
			No. of Fruit Trees		130				
			No. of non-fruit Trees		155				
22	इमारतें		Quarters		Inspection Quarter, One unit of A.E(E) Qtrs, Fourunit of Navigational				

	Buildings		Assistant Qtrs, One unit of LHA and one unit of Safaiwala Qtrs,
		Other Buildings	Powerhouse, Pump house, Office, Store Room, ATU Room
23	कंपाउंडलाइट Compound Lights	10Nos G.I. Pipe poles are fitted with 12Nos LED Street Light fitting, 03Nos LED Street Light fitting mounted on wall, 04Nos Gate light and 05Nos Dome Light with G.I Pipe	
24	सीसीटीवीकमेरा CCTV CAMERA	Camera	-
		DVR	-
25	स्टाफ Staff	Sl. No	Designations
		1	A.E(E) - 1 (Vacant)
		2	Navigational Assistant Gr-I - 1
		3	Navigational Assistant Gr-II - 1
		4	Navigational Assistant Gr-III - 2
		5	LHA - 1
		6	Safaiwala - 1 (Vacant)
		7	
26	पहुँचनेकामाध्यम Mode of approach	By Rail upto Surat then 35 Kms. By bus upto Lighthouse from Adajan S.T Depot, Surat	
27	उपलब्धसुविधाए Facilities available	Marine Police Station	2 Kms far from LH
		Dispensary	Hazira Gam (Shell Company) ½ Kms
		High School	Gujarati medium High School ½ Kms ONGC Central School 30 Kms
		Post office	½ Kms
		Police Station	08 Kms far from Lighthouse at Essar Gate, Hazira
28	डाकपता Postal address	Assistant Engineer (E) Hazira Lighthouse & DGPS Station P.O. Hazira, Ta: Choryasi, Dist. Surat, Gujarat, Pin-394270	
29	मूल्यकाब्योरा Cost details (At the time of Construction)	Rs. 2,70,200 F.O.R	
30	प्रवर्तनमेलानेकादेनांक Date of commissioning	01.06.1966	

