

## मास्टर लेजर/ MASTER LEDGER

क्रम संख्या/ Sr.No	नाम /Name	विवरण/ Discription
1.	ए. एल. ओ. एल/ <b>A.L.O.L.</b>	F 0380
2.	स्थान/ <b>Position</b>	Lat 22° 36.2' N, Long 69° 57.1' E
3.	ऊंचाई/ <b>Elevation</b>	26 M
4.	अभिलक्षण/ <b>Characteristic</b>	FI W 20 sec. (0.4+ <u>19.6</u> = 20 sec.)
5.	नॉटिकल माइल मे दूरी <b>Range in miles</b>	i) Luminous : 24NM at T=0.74 ii) Geographical :12NM
6.	दीपस्तंभ टावर/ <b>L.H.Tower</b>	Type : Circular masonry tower Height : 24M Colour Scheme: Black and White alternate horizontal bands
7.	<b>ऑप्टिकल उपकरण</b> Optical Equipment:-	Make : Stone Chance Size : 500 mm (3 <sup>rd</sup> order large) revolving type No. of panels : 2 (of 180°) Area of dioptric portion: 2240 sq. cm (corrected area 1970 sq. cm) Area of catadioptric portion: 19.700 sq cm (corrected area 15362 sq. cm) Divergence Main: 12° 35.99'(Horizontal.)&8° 14.83' (Vertical) Duration of flash : 0.7 Second Pedestal: Mercury float Rotation device: : Direct drive by electrically operated Stepper Motor, Hand wound clock wise machine- standby R.P.M.: 3 Illuminant Main: Clustered three 230V, 70 W Metal halide lamps
8.	प्रभावी बीम तीव्रता/ <b>Effective beam intensity</b>	46,0194 Candela
9.	<b>Lantern</b>	Diameter: 2.50 m Height of glazing: 1.70 m

		No. of panes: 10 Ventilators: 9
10.	<b>Energy source</b>	Solar: 12 V/725 Ah VRLA batteries 3 nos. charged by 24 nos. 70-watt solar panel (TATA BP)  Stand By: Diesel engine generator set with battery starting
11.	<b>Fire-fighting Equipment</b>	Fire extinguisher: 2 Kg. ABC 2 nos. (1 in PH and 1 in tower)  DCP Type : 2Nos. Foam type : 1 No. (Old) Halone 11-12 : 1No. Fire buckets: 4 Nos.
12.	<b>Water supply</b>	Rain water harvesting - 2 RCC ground water tanks each of 36000 litres.  2 RCC ground water tanks each of 36000 litres.  1 Masonary tank ground water of 6000 litres.  1 RCC (UG) tank of 10000 litres.  1 RCC tank of 12000 litres. Total capacity 1,36,000 litres.
13.	<b>Land</b>	Area : 0.614 hector.  Demarcation : Sea protection walls on western and southern sides and compound wall on eastern and northern side. Presently the wall is in damaged condition.
14.	<b>Buildings</b>	LH tower, Power house, Inspection quarter, store LH tower, Power house, Inspection quarter, store quarters, One twin unit of LHA and Safaiwala quarter. Presently the condition of all buildings is bad.
15.	<b>Compound lights</b> <b>Street</b>	10 nos. with 70W solar panel and 12V/130AH Battery (Self powered)
16.	<b>Staff</b>	On tour basis 01 - NA/RT/SRT and 01-LHA

17.	<b>Mode of Approach</b>	By boat from Bedi port
18.	<b>RACON (Freq. Agile)</b>	<p>Make : Tide land System 6,  Type : Sea Beacon  Frequency bandwidth : 2.9 to 3.19 GHZ &amp; 9.3 to 9.59 GHZ  Code : 'K'  Power supply : 12 V, 80AH MF lead acid battery, 1No.  Mode of charging: Solar panel 35 W with regulator.  Date of commissioning : 04/05/2004.</p>
19.	<b>Automation Equipments : (NEW)</b>	<p>Remote Transceiver Unit (RTU) Control Panel  make RDS  Sr.No : 3763  Light Sensor make : ABLE  Battery for automation : SMF  battery, 12V/100AH - 2Nos. :S/N (1)  4YL042007018614  (2)  4YL042007018619  Solar panel : make VIKRAM SOLAR 335W-  2Nos.  Model: ELDORA  S/N (1) 20864222  (2) 20862414 (335Wx2)</p>
20.	<b>Solar panel</b>	<p>3 KW (Off-Grid) with 48 nos. tubular battery of 2V/400 AH (make Exide LMXT 400, 2018) and 12 nos. Solar panel 255 W each, make BHEL. Inverter 5 KVA, Make UTL (Alpha Online PCU, 96 V)  Old Solar panels (not in use), Make TATA, 70 W each, 23 nos. (8 panels were installed in 1998 and remaining 15 panels was installed in 2014-15).</p>

**21. Diesel generators**

S.No	Engine No.	Make/type	HP	No. of Cylinder	RMP	Cooling
i	01181/9619045	Kirloskar TAF/1	6	1	1500	Air cooled

**22. Details of Alternator**

S.No	Frame	Make	KVA	Vol	Amp	Freq	Phase	RPM
i	4502/2	Kirloskar DS-Series.	15	220-240	14.6	50Hz	Single	1500
<b>23. Battery chargers</b>								
<b>Battery Charger</b>			<b>Rating &amp; unit</b>			<b>Qty</b>	<b>Date of Inst.</b>	
Aplab make Digital P.S.			0-32V / 40 Amp.			1	10.6.2004	
<b>24. Batteries</b>								
<b>Battery</b>			<b>Rating &amp; unit</b>			<b>Qty</b>	<b>Date of Inst.</b>	
Master Deep Niyatrak			12V/200Ah, Amararaja make			1	06.08.2004	
Slave Deep Niyatrak			12V/200Ah, Amararaja make			1	06.08.2004	
0.65KVA Inverter -1			12V/725AH, Amararaja make			1	12.12.2003	
0.65KVA Inverter -2			12V/725AH, Amararaja make			1	12.12.2003	
0.65KVA Inverter -3			12V/725AH, Amararaja make			1	12.12.2003	
<b>25. Postal address</b>						C/O Assistant Engineer (E) Dhuvav MCS Station Jamnagar, Gujarat Pin - 361 008		
<b>26. Date of Commissioning</b>						First lighthouse: 1898  Modern lighthouse (PV): 1958 (05.02.1958) Solarisation: 1996 (31.12.1996) Subsequent Innovations: 2003		