

मास्टर लेजर/ MASTER LEDGER

क्रम संख्या/ Sr.No	नाम /Name:	विवरण/ Discription
1.	ए.एल.ओ.एल/A.L.O.L.	-----NA-----
2.	स्थान/Position	Lat. 22°28'55.0"N Long 70°07'38.0"E
3.	ऊंचाई/Elevation	41M Meter
4.	Repeater Tower for automation	Type: : GI trestle tower Height : 30M. Colour scheme: 3 Red and 2 White bands
5.	Energy source	Main supply voltage 230V,3 phase,50Hz Diesel Engine Generator Kirloskar
6.	Structure	Type : Circular RCC tower Height : 30 M. Colour scheme : White and red Alternate Horizontalbands

7. Gen-Set Details

Prime Rating at rated rpm (as per ISO8528) ¹	kVA	20	
	kW	16	
Genset Model		KG1-20AS	
Frequency	Hz	50	
Power factor	lagging	0.8	
Voltage	V	230 (1Ø)	
Governing Class (As per ISO 8528 Part-V)		G2	
Noise Level	dBA	< 75	
Fuel Consumption*.	At 100 % Load	Ltrs/hr	6.4
	At 75 % Load		5
	At 50 % Load		4
Fuel tank capacity	Ltrs	65	
Weight of Genset with canopy(approx.) ^	Dry	Kg	1130
	Wet	Kg	1180
Overall dimensions of Genset^	Length	mm	2130
	Width	mm	1050
	Height	mm	1520
Electrical Battery starting voltage	Volts-DC	12	
ENGINE			
Engine Model		HA394TCIG 1	
Rated output (Prime Continuous rating as per ISO 8528-1)	kW	23.5	
	HP	32	

No. of Cylinder	Number	3						
Cubic Capacity ²	Ltrs	2.89						
Bore x Stroke	mm	100 x 120						
Rated Speed	RPM	1500						
Lube Oil change period	hrs	500						
Lube Oil sump capacity	Ltrs	8						
Coolant Capacity	Ltrs	NA						
ALTERNATOR								
Insulation Class		Class H						
Ingression Protection		IP 23						
Alternator Efficiency (at 100 % load) 0.8p.f.**		88.8						
Max. Voltage Dip at Full Load 0.8 p.f. lag		≤ 16%						
Max. Time to build up rated voltage at rated RPM	< 5 sec provided engine reach the rated speed							
Details of Old Engine								
Sr No	Engine Sr No	Make/Type	HP	No. of Cylinders	R.P.M	Co oling		
i.	66810500	Kirloskar electric	6	1	1500	Air Co ol		
ii.	RA4 36.1044/773B	Kirloskar electric /AMF IIP	26	4	1500	Air Co ol		
iii.	RA4 36.1044/772B	Kirloskar electric /AMF IIP	26	4	1500	Air Co ol		
Details of Old Alternators								
Sr No	Frame	Make/Type	KVA	Volts	Amp	Freq.	Phase	RP M
i.	40S5/1	Kirloskar electric	5	240	21.8	50	1	15 00
ii.	S0A620	Kirloskar electric /AMF IIP	25	400	36.2	50	3	15 00
iii	S0A620	Kirloskar electric /AMF IIP	25	iii.	36.2	50	3	15 00
<u>क्रम संख्या/</u> Sr.No	<u>नाम /Name</u>	<u>विवरण/ Discription</u>						
8.	Stabilizer	AVR-Servo Voltage Stabilizer : 01 Nos Make : Delta electric Capacity : 12.5KVA						

		Input : 140V-280V,1 phase Output : 230v AC,1 phase
9.	H.S.D storage tank (Not in use)	: 01, Capacity : 12000 Ltrs
10.	Fire-fighting Equipment	ABC HALON 1211 Extinguisher (5 Kg) : 4 Nos Fire buckets : 2Nos
11.	Water supply	Water supply – Running water supply 24*7 from water board 10,000 Ltrs underground storage tank – Nos 08 500 Ltrsoverhead storage tank (syntax) – Nos 10
12.	Land	Area : 11.37 Hectares Demarcation: Compound wall
13.	Structures	Inspection Quarter :01 unit Powerhouse cum Office Building : 01unit Store: 02 unit Staff Quarters : ALK-2, LHA-3, Driver-1 LMV Garage : 01 unit
14.	Compound Street Lights	12 nos. G.I.Poles with LED Light 02 Nos. Gate Light with LED Light 06 Nos. Technical Building Light withLED Lamp
15.	Mode of approach	By Rail up to HAPA and then 3km by road on Jamnagar-Rajkot highway
16.	Facilities available	School, Police Station, Hospital at Jamnagar and Post office at 5 km from Station
17.	Address	Assistant Engineer€,MCS Dhuvav Directorate of Lighthouse and Lightships P.O. Dhuvav, Jamnagar, Gujarat – 361120 Email: dhuvavmcs@gmail.com
18.	Year of Establishment	1978
19.	Subsequent Innovation	2002, 2004, Re-capitalisation of automation of lighthouses is in progress in 2022, in which Dhuvav is one of the RCS under VTS Directorate Gandhidham