

मास्टर लेजर/ MASTER LEDGER

क्रम संख्या / Sr.No	नाम /Name	विवरण/ Discription
1.	ए.एल.ओ.एल/ A.L.O.L.	F 0355
2.	स्थान/ Position	Lat 23°14.36" N, Long 68°36.43" E
3.	अभिलक्षण/ Characteristic	FI W 10 sec. (0.3 flash+9.7eclipse =10 sec.)
4.	दीपस्तंभ टावर/ L.H.Tower (i) Type (ii) Height of tower (iii) Colour scheme	Double shell RCC Circular tower 41M 4 red and 3 white bands (Band width 5.6 mtrs, bottom band red, nos. of bands – 7)
5.	ऊंचाई/ Elevation Height above MSL	46 Mtr.
6.	नॉटिकल माइल मे दूरी Range in miles i) Luminous ii) Geographical	17 NM at T=0.74 18 NM
7.	ऑप्टिकल उपकरण Optical equipment <u>Optic</u> i) Make ii) Size iii) No. of panels iv) Divergence Main v) Pedestal vi) Rotation device vii) R.P.M viii) Illuminate Main <u>Lantern</u> i)Diameter ii) Height of glazing iii) No. of panes iv) Ventilators	Stone chance 375mm(3rd order small) revolving type 3 (each 120 degrees) 16° 47.99' (Horizontal) 10° 59.70' (Vertical) Mercury float (As per tech block measure 34.5 kg. in use) i) Electrically operated stepper motor for dual drive system 2 Cluster of MH lamp 150 W 230 V with 3 Nos. Electronics Ballast & 3 Nos. 0.65 KVA Inverters. 2.16 m 1.23 m 8

		7
8.	Source of energy	03 Inverter with battery backup of 12v, 120Ah each for the cluster of 03 metal halide lamp Input supply provided by PGVCL mains/ DG sets of 50 KVA (The offgrid solar system is non-operational and the process of converting it to ongrid is in progress)
9.	Year of Lighthouse commissioned	1957
10.	Years of Upgradation	1965, 1993, 1996, 1999, 2004 and 2014
11.	Postal Address	Jakhau Lighthouse & VTS Station, PO- Jakhau, Taluka – Abdasa Distt. Kutch Gujarat – 370640
12.	RACON (X-band) Code 'M' DOI: 14.03.2019	Make – Pharos Marine (replaced on 14.03.2019, earlier RACON make Tideland installed on 21 Aug 2004) S/N – 20180763SJP Power supply: 12 V, 100 AH MF Exide battery Charging by solar panel 12V/50 W installed on 08/08/2018.

VTS EQUIPMENTS:

SNO.	Particulars	Qty	Location	Remark
1	Radar X- Band 18' Scanner Make TERMA SI no.3001 Part No:314240-001	01	Tower top	
2.	Radar S Band Scanner/Antenna Make TERMA P.No-305501-001 S.No-3571002	01	Tower top	
3.	Radio Direction Finder, 16 Element Antenna Make Servo light Model 7010, SNo.1120 (with lightening arrestor)	01	Tower top	
4.	Radar Transceiver Unit 1 (Scanner 2001) Make TERMA, 9375 MHz X -Band Type -262001-024 SNo.3014	01	VTS tower Equipment room at 5 th floor	
5.	Radar Transceiver Unit 2 (Scanner 2001) Make –TERMA, 9375 MHz X – Band Type -262001-017 SNo.3018	01	VTS tower Equipment room at 5 th floor	
6.	X- band , Scanner ACU	01	VTS tower	

	ACS550-01-012A-4 Make TERMA, SNo: 3016 Type 262382-001 3- ϕ , 400V, 47-63Hz Power 4KVA		Equipment room at 5 th floor	
7.	Radar S –Band, Scanter-2001 Transceiver Unit-1 Make – TERMA, Type -262001-093 REV-B, 3050MHz, SNo.3001 3050Mhz	01	VTS tower Equipment room at 5 th floor	
8.	Radar S –band, Scanter 2001 Transceiver Unit-2 Make – TERMA, Type -262001-094 REV-B, 3050MHz, SNo.3001 3050MHz	01	VTS tower Equipment room at 5 th floor	
9.	S-Band ACU –ACS550-01-012A-4 Make TERMA, Type 262382-001 SNo.3026 3 - ϕ , 400V,47-63Hz power-4KVA	01	VTS tower Equipment room at 5 th floor	
10.	Rack Manager, (Make – SAMSUNG AUSTIN HUGES) Type A117e SNo:2060110094165-05Z	01	VTS tower Equipment room at 5 th floor	
11.	RSD X-Band S/N: 4589 RSD S-Band S/N: 4601 DOI:13/02/2020	02	VTS tower Equipment room at 5 th floor	
12.	KONGSBERG C-SET, radar data processor (X - Band) S/N: 3053172216 DOI:30/12/2019	01	VTS tower Equipment room at 5 th floor	
13.	KONGSBERG C-SET radar data processor (S - Band) S/N: 3053192216 DOI:30/12/2019	01	VTS tower Equipment room at 5 th floor	
14.	KVM Switch, KVM -02 SNo:Z3B1Y143DDH0179	01	VTS tower Equipment room at 5 th floor	
15.	RDF Receiver Make- Servo Light, Model – DF2110M, SNo-1067 With Monitor HP 1940 Sr.No: CNP534X29D	01	VTS tower Equipment room at 5 th floor	

16.	CISCO Switch, Catalyst 2960 series SNo-FOC1445Y1GW	01	VTS tower Equipment room at 5 th floor	
17.	15 KVA UPS Make –Schneider SNo:9E1904T10170 DOI:19/08/2019	01	VTS tower Equipment room at 5 th floor	
18.	Battery (SMF) Make-APC 12V, 26AH for 15 KVA UPS	32	VTS tower Equipment room at 5 th floor	
19.	SPU -1 Make Harries True Point 4040 SNo:A0125958 PNo.201-902595-502	01	VTS tower Equipment room at 5 th floor	
20.	SPU -2 Make Harries, True Point 4040 SNo:A0125922	01	VTS tower Equipment room at 5 th floor	
21.	7.5 KVA UPS Make – Protek-G S/N – PG011074075377		VTS tower Equipment room at 5 th floor	
22.	Battery (SMF) Make-Amaron 12V, 42AH for 7.5 KVA UPS make Protek-G	15	VTS tower Equipment room at 5 th floor	
23.	Air conditioner, split type ,1.5 Ton Make -Blue Star (02 nos.) SNo:C101229470310527130574 SNo:C101229470310526130615 Videocon (01no.) SNo:11081574200233	03	VTS tower Equipment room at 5 th floor	
24.	Micro Wave Antenna Type -THP-12-071SWB SNo.08K1MWA0000120021 Freq-7.15 to 8.5GHz	01	Tower wall	
25.	RFU mini link to harudi R9N979454 Make: Ericsson DOI: 19/08/2019	01	With antenna	
26.	Micro Wave Antenna Type -THP-12-071SWB SNo.08K1MWA0000120022	01	On tower wall	
27.	RFU mini link to vanku R9N963221 Make: Ericsson DOI: 19/08/2019	01	With Antenna	
28.	Micro Wave Antenna Type -THP-12-071SWB	01	On tower wall	

	SNo.08K1MWA0000120024			
29.	RFU 7310-7373TR-154, 48V Make - Ericsson SNo:CR9N958698	01	With Antenna	
30.	Micro Wave Antenna Type -THP-12-071SWB SNo.08KIMWA0000120026	01	On tower wall	
31.	RFU 7310-7373TR-154, 48V Make - - Ericsson SNo: CR9N958637	01	With Antenna	
32.	DG SET -I Type HA694. Model -KG50AS ,415V, 3- φ,50KVA 50 Hz Alternator M/c DS3D010L17033H Engine no: 06.2145/1000021 Control Panel Sl.no. WCPL/02/11/1810 With 120 Liter HSD storage tank STARTING BATTERY SL No. A3E1B0272593F13 (FOR DG1) MAKE -EXIDE 12V 130AH DOI: 28/07/2021 DG SET -II Type HA694. Model-KG50AS,415V,3- φ,50KVA, 50HZ Alternator M/c No- DS3D011A19085-H Engine No-06.2145/1100001 Control Panel S.no. WCPL/02/11/ 1809 With 120 Liter HSD storage tank STARTING BATTERY SL No. A4A1B0081423A12 MAKE -EXIDE 12V 130AH DOI:07/05/2011	02	Power house	
33.	DG AMF Panel 50 KVA 415 V ,100 Amp,3 Phase SNo:04-10/05/02	01	Power house	
34.	LVDB Panel SNo:099	01	Power house	
35.	1.Voltage Stabilizer 16 KVA Make- Krykard S/N: S20K1670700005	03 + 02	Power house	

	<p>2.Voltage Stabilizer 16 KVA Make- Krykard S/N: S20K167070006</p> <p>2.Voltage Stabilizer 16 KVA Make- ALFA S/N:</p> <p>4.Voltage Stabilizer 16 KVA Make- Power +</p> <p>6. Voltage Stabilizer Make- ALFA</p>		U/S	
36.	<p>VHF sets SNo:874 SNo:877 SNo:875 DOI: 30/12/2019</p>	03	Equipment room	
37.	<p>AIS Base station Make – KONGSBERG Type BS-500/01 SNo:5001105 PART No. B500-001</p>	01	Equipment room	
38.	<p>Solar Power System Make – Su-kam Capacity – 30 KW Off-grid Solar Inverter – 01No. Solar Charge Controller – 03No. Solar Panels – 120Nos. Solar Battery Bank – 180Nos. DOI: 02/11/2015</p>	01	Solar System room	
39.	<p>New M/W link (S/N 18E829703327) DOI: 11/07/2020</p>	01	Coast Guard, Jakhau	
40.	<p>New Radio(S\N: 18E8297C33CC) DOI: 11/07/2020</p>	01	VTS Tower Link setup with coast guard Jakhau.	
41.	<p>APC Rack PDU S\N: 5A-1922E03979 DOI: 12/10/2019</p>	01	Equipment Room	
42.	<p>new batteries 12 V 26AH DOI:25/08/2019</p>	08	Coast Guard Jakhau	
D G Set:		02	<p>3PHASE,450V,50KVA Make: KIRLOSKAR Model:KG50AS. S.No. HA694 EngineNo:06.2145/1100001 AlternatorNo:DS3D010L17033H EngineNo:06.2145/1000021</p>	

	Alternator No:DS3D010A19085H Panel S.No:WCPL/02/11/1809
Off-Grid” Solar Power System : 30 KW	PV Module Silicon,(Solar Panel):120 nos.Make:SUKAM Solar Inverter, 30 KW Make:SUKAM : 01 no. Solar battery, 2V,600AH: 180 nos. Make- HBL Power System Ltd Sukam Charging Controller: 03 nos.
13. POWER SUPPLY	Mains supply - PGVCL 415V, 3-phase 415V, 50 Hz
14. STRUCTURES	VTS Tower : 60 m high LH tower :41m high RCC circular tower. Technical Building : 1 Unit/old power house - 01 Unit Inspection Quarter :1 Unit / old IQ 01 Unit to SRT Compound wall: The compound wall has been provided on four sides for enclosing perimises with internal cement concrete pathway Main gate : 01 nos Area : 11998.5717 Sq.m Staff quarter: (i) HLK quarter - 1 Unit (ii) ALK quarter - 1 Unit (iii) LHA quarter - 1 Unit (iv) Touring staff quarter -1 Unit
COMPOUND STREET LIGHT	LED Lights On G.I bi-poles - 16 nos. On main gate - 2 nos
Mode of Approach	By rail up to Bhuj, then 107 KMs via Naliya State Highway
Address & Communication	Jakhau lighthouse & VTS station, Post Jakhau Ta- Abdasa, Dist- Kutch, Gujrat- 370641

	Ph.02831-2863683 Email: jakhauvts@gmail.com
Date of Commissioning	1 st April 1965 (Lighthouse) 13 Feb 2012 (VTS)