

मास्टर लेजर/ MASTER LEDGER

क्र सं/ Sr.No	नाम /Name	विवरण/ Discription	
1.	Station	VTS Master Control Center Kandla	
2.	Position	Latitude- 23°00.965'N Longitude- 70°12.982'E	
3.	VTS Tower		
	Type	RCC (cylindrical)	
	Height	60 Meters	
	Color	Red & White Alternate Horizontal Bands	
	Elevation (above MSL)	62.5 Meter	
4.	Energy source		
I.	Incoming Power supply	415 V, 3 Phase, 50Hz(from DPT)	
II.	Solar Panels	37 KW (from 25/08/2017)	
i.	Make	Solgen	
ii.	Type	On- Grid	
iii.	Total Nos. of Panels	144	
iv.	Capacity	37 KW	
v.	DC Input	Max. DC Voltage:- Staring Voltage:- MPPT (Max. Power Point tracker Voltage:- Operation Voltage :- Max, DC Power:-	1000V 300V 280 - 800 V 450 - 800 V 20800 W
vi.	AC Out Put	Rated output Power:- Max Current :- Harmonic Distortion:-	20000 W Each Inverter 32 Amps. Less Than 3%
vii.	Max. Efficiency	98.4%	
viii.	MPPT Efficiency	99.9%	

ix.	Operation Temperature	-25 to +60 Degree Celsius	
x.	Protection	Over Voltage Protection, DC Isolation Monitoring, DC Monitoring, Island Protection Short Ckt. Protection, Over tempt. Protection	
05.	Generator Sets: - 02 in Nos. (Generator Room)		
S.N.	Engine No.& Alternator No.	Make/ type	Capacity
			No. of cylinder
			RPM
			Cooling
i.	F63208/0800273 & FS35110B97940	Kirloskar/ 6SL908 8TA	160 KVA
			06
			1500
			Water Cooling
ii.	F63208/0800292 & FS35110C100205	Kirloskar/ 6SL908 8TA	160 KVA
			06
			1500
			Water Cooling

06.	Stabilizer: -(In Power House)	
i.	Type	3 Phase Servo Controlled Voltage Stabilizer (Auto Voltage Stabilizer)
ii...	Make	Krykard
iii.	Sl. No.	L17K100408031
iv.	Model	AU4080
v.	Capacity/Rating	100 KVA
vi.	Input: Voltage Range	340 V - 480 V (VAC)
vii.	Output	415 V AC /+- 1%
viii.	Date of Installation	24/03/2018

07. UPS (05 in No's)						
S.N	Serial No.	Make/ type	Capacity	No. of Battery	Date of Installatio n	Positio n
i.	J111041	NGBPS	15 KVA	12V, 65 Ah (20 Exide)	20/07/2017	MCC Room
ii.	9E1904T10197	Schneider Electric	15 KVA	12 V,26 Ah Make: APC Qty: 32Nos	26/12/2019	S e r v e r R o o m
iii.	9E1904T10202	Schneider Electric	15 KVA	12 V,26 Ah Make: APC Qty: 32Nos	26/12/2019	S e r v e r R o o m
iv.	9E1904T10178	Schneider Electric	15 KVA	12 V,26 Ah Make: APC Qty: 32Nos	23/09/2019	VTS Equip ment s R o o m
v.	JH 1039	NGBPS	10 KVA	12V, 42 Ah, Qty. 20 Nos.	03/01/2015	VTS Equip ment s R o o m

08. Rectifier (Equipment Room)

i Make BSMC Power System

ii SI. No. MS-103/B/442

09. Isolation Transformer (Equipment Room)

Capacity : 6 KVA (Single Phase, 220V, 50Hz)

10. Batteries for Gensets

S. N.	Gen. Set	Make	Capacity	Qty.	Date of Installation.
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i.	01	Exide	12 V,180 Ah	02	14/01/2020
ii.	02	Exide	12 V 180 Ah	02	14/05/2019
11. AMF Control Panel (In Power House)					
i	Capacity		160 KVA		
12. LVDB Panel (In Power House)					
ii	Capacity		160 KVA		
13. Radar					
i.	Type:-		X Band		
ii.	Make :-		Terma		
iii.	Frequency:-		9375 MHz		
iv.	Range :-		20 NM		
v.	Input Power Supply:-		280-400v 3 Phase 50 Hz		
vi.	Peak Power:-		25 Kw		
vii.	Antenna Gain:-		37 dbi		
viii.	Antenna Length:-		18 Feet		
ix.	Antenna Rotation Speed :-		6 - 35 RPM		
x.	VSWR:-		< 1.3		
xi.	Short Pulse (SP) :-		50 - 120 Nano Seconds		PRF 800 - 8000 Hz
xii.	Very Short Pulse (VSP):-		40 Nano Seconds		PRF 800 - 8000 Hz
xiii.	Medium Pulse (MP):-		120 - 300 Nano Seconds		PRF 600 - 3300 Hz
xiv.	Long Pulse (LP):-		300 - 600 Nano Seconds		PRF 400 - 2200 Hz
xv.	Very Long Pulse(VLP):-		600 - 1000 Nano Seconds		PRF 400 - 1200 Hz
14. AIS (Auto Identification System)					
i.	Make:-		Kongsberg		
ii.	Type:-		BS 500/01		
iii.	Weight: -		6Kg		
iv.	Physical Dimension:-		482 mmx132mmx257mm		
v.	Input Supply:-		110 V/240 V AC Single Phase, 50 Hz		
vi.	Power Consumption:-		< 50 W		

vii.	Operating Temperature:-	-5 to +40 Degree Celsius
viii.	VHF Data Link Freq.:-	156.025 - 162.025 MHz
ix.	Channel Spacing:-	25 KHz
x.	Transmitter Power:-	2 or 12 W (Selectable)
xi.	Transmitter Operating Frequency Channel:-	161.975 MHz
xii.	GPS Operating frequency(Receiving Only):-	1575.42 MHz +/- 10 MHz

15. Server Room Equipment in Rack

S. N.	Equipment name	Make	Serial No.	Qty	Position
i.	Lane Switch	Cisco	FOC1510V1RA	01	Rack-01
ii.	Time Server	Meinberg	030111230410	01	Rack-01
iii.	Rack manager (RM)	HPE	2C49119G7C	01	Rack-01
iv.	KVM switch	Aten	F3J2-022-0040	01	Rack-01
v.	C- Scope Server-01	HPE	SGH929YV3W	01	Rack-01
vi.	C- Scope Server-02	HPE	SGH929YV3P	01	Rack-01
vii.	VHF Server-01	HPE	CZ29200BC1	01	Rack-01
viii.	VHF Server-01	HPE	CZ29220G4K	01	Rack-01
ix.	Storage Area Network	HPE	286130C072	01	Rack-01
x.	Web Server	HPE	CN762404PC	01	Rack-01

16. Equipment on VTS Tower Equipment Room

S. N.	Equipment Name	Make	Qty.	Serial No.	Position
i.	Lane Switch	Cisco	01	FD01330X065	Rack-01
ii	AIS (BS-500)	Kongsberg	01	500112B	Rack-01
iii	VHF Set	Jotron	03	943, 944, 945	Rack-01
iv	Rack Manager	Austin Huges	01	2060110094165-13Z	Rack-01
v	KVM Switch	Aten	01	F3A6X005MES0190	Rack-01
vi	RSD	Terma	01	4592	Rack-01

vii	C-Set V-3 MK-2	Kongsberg	01	3053032216	Rack-01
viii	C-Set V- 5	Kongsberg	01	3462620920	Rack-01
ix	PDU	APC	01	5A1922E04046	Rack-01
x	SPU (M/Link)	Ericsson	01	CE8A312087	Rack-01
xi	Antenna Control Unit	Terma	01	3020	--
xii	Trans receiver	Terma	02	3018, 3022	---

17. Meteo Sensor		
i.	Make	Vaisala Weather
ii.	Model	WXT 530
iii.	Sl. No.	R2310353
iv.	Parameters	Wind Direction (Deg.), Wind Speed (m/S), Wind speed (Knots), Temperature (DegreeC), Humidity (%), Pressure (hPa), Accumulated Rainfall (mm), Rain Duration (hh mm ss), Rain Intensity (mm/h)

18.	Centralized Air Conditions				
S. N.	Make	Serial No.	Capacity	Current Rating	Power supply
i.	Blue Star	DPA1321R1-I09000115	11 Ton	23 Amps.	415 V, 3 Phase, 50 Hz
ii.	Blue Star	DPA1321R1-I09000113	11 Ton	23 Amps.	415 V, 3 Phase, 50 Hz
iii.	Blue Star	DPA1321R1-I09000114	11 Ton	23 Amps.	415 V, 3 Phase, 50 Hz
iv.	Blue Star	DPA1321R1-I09000112	11 Ton	23 Amps.	415 V, 3 Phase, 50 Hz

19. Spilt AC					
S. N.	Make	Serial No.	Capacity	Rating	Position & Quantity
i.	Voltas	4552419A19DA01594	1.5 Ton	240V, 50Hz 1 Phase	Conference Room (01)
ii.	Voltas	4552532B19EC01696	1.5 Ton	240V, 50Hz 1 Phase	SRT/RT Room (01)

iii.	Voltas	4552532B19EC0 1334	1.5 Ton	240V, 50Hz 1 Phase	AEE(E) Room (01)
iv.	Voltas	4552419A19DA0 1598	1.5 Ton	240V, 50Hz 1 Phase	DDG Room (01)
v.	Voltas	4552274A18FA0 0249	1.5 Ton	240V, 50Hz 1 Phase	VTS Manager Room (01)
vi.	Voltas	4552419A19DA0 1600, 4552419A19DA0 1605	1.5 Ton	240V, 50Hz 1 Phase	MCC Room (02)
vii.	Voltas	4552592A19DC0 1658, 4552502A19DC 05966, 4552052A19DC0 6563	1.5 Ton	240V, 50Hz 1 Phase	Inspection Quarter(I.Q.) (03)
viii.	Panasonic	181PAJADQV00 316 181PAJABRV00 150	1.5 Ton	240V, 50Hz 1 Phase	Server Room (02)
ix.	Blue Star Videocon	GLIDU181YC09 032728, GLIDU181YC09 032564 1108157420023 6	1.5 Ton	240V, 50Hz 1 Phase	Equipment Room(VTS Tower) (02 +01= 03)

20. CCTV Camera

S. N.	Type of Camera	Position	Quantity
i.	PTZ Camera	4 th Floor VTS Tower	01
ii.	Dome Camera	Server Room	01
		MCC Room	02
		MCC Building Entrance	01
		DA Room	01
		VTS Tower Equipment Room	01
iii.	Bullet Camera	Main Gate Entrance	01
		DA Room Back side	01
		Diesel Tank Area	01
		DA Room, Gensets Room and Water tank Area	01
		VTS Tower and IQ Area	01
iv.	LED Monitor 42 inchSl. 908PLRS1197 42 Sl.	VTS Manager Room, Duty SRT/RT Room	02

	908PLPG119760			
v.	NVR	AEE (E) Room		01
vi.	8-Port POE NetworkSwitch	DDG Room		01
vii.	UPS (1 KVA)	DDG Room		01
21. Web Server Dish Antenna				
Make &Model	Serial No.	Frequency	Gain	Position/ Location
Airmax TM55L-DP DISH-29	355101002	4.9 - 5.9 GHz	29dbi	4 th Floor VTS Tower
22. DTH for TV Set (Above MCC Building)				
Make	SI No. Of Set up Box	Subscriber ID	Position/Location	
Tata Sky	889218348932	1355497940	VTS Manager Room	
23. BSNL FTTH (Internet Tel No. 02836 296411				
S. N.	Description	Serial No.	Position/Location	
i.	Dish Antenna	Nil	3 rd Floor Window VTS Tower	
ii.	Wireless Router	Make ; - DIGI Set Model:- DG HR-300 Sl. No.:- 009/3g2004438	Server Room	
iii.	8-Port Switch	Make:- Cisco Batch No.:- PSZ21231H76	Server Room	
24. MCC Room Equipment -				
S. N.	Sector	Monitor	CPU	VHF
i.	Sector-01	Make :- BenQ Model:- EL2870-B	Make:- HP Model:-HP	Make:- JOTR ON
		Qty. :- 03	Product No:-	Model No:-
		Serial No.:-	1JP11AV	JRRC
		1.ETE8K03056SL0 T	Serial No:-	Serial No:-

		2.ETE8K03139SL0 T	INA933X9 PH	331
		3.ETE8K03123SL0 T		
ii.	Sector-02	Make :- BenQ	Make:- HP	Make:-
		Model:- EL2870-B	Model:- HP	JOTR ON
		Qty. :- 03	Product No:-	Model No:-
		Serial No :-	1JP11AV	JRRC
		1.ETE8K03061SL0 T	Serial No:-	Serial No:- 332
		2.ETE8K03074SL0 T	INA933X9 PG	
		3.ETE8K03133SL0 T		
iii.	Sector-03	Make :- BenQ	Make:- HP	Make:-
		Model:- EL2870-B	Model:- HP	JOTR ON
		Qty.:- 03	Product No:-	Model No:-
		Serial No :-	1JP11AV	JRRC
		1.ETE1K02715SL0 T	Serial No:-	Serial No:- 333
		2.ETE8K03131SL0 T	INA933X9 PP	
		3.ETE8K03121SL0 T		
iv.	Sector-04	Make :- BenQ	Make:- HP	Make:-
		Model:- EL2870-B	Model:- HP	JOTR ON
		Qty. :- 03	Product No:-	Model No:-
		Serial No :-	1JP11AV	JRRC
		1.ETE8K03065SL0 T	Serial No:-	Serial No:-
		2.ETE8K03144SL OT	INA933X9 PC	334
		3.ETE8K03078SL OT		

v.	VTS Supervisor	Make :- BenQ	Make:- HP	Make:-	
		Model:- EL2870-B	Model:- HP	JOTR ON	
		Qty. :- 03	Product No:-	Model No:-	
		Serial No :-	1JP11AV	JRRC	
		1.ETE8K03145SL OT	Serial No:-	Serial No:-	
		2.ETE8K03088SL OT	INA933X9 PQ	330	
		3.ETE8K03115SL OT			
25. Server Room (CPU, Monitor)					
S.No.	Position/Location	Monitor	CPU	VHF	
i.	Server Room PC	Make :- BenQ Model:- EL2870-B Qty. :- 02 Serial No :- 1.ETE1K02742SLOT 2.ETE8K03143SLOT	Make:- HP Model:- HP Product No:- 1JP11AV Serial No :-INA933X9PJ	Nil	
26. Microwave Antenna and Mini Link Radio :- (at VTS tower)					
S. N.	Description of Items	Qty.	Make/Model	Serial No (Antenna & M/Radio)	Location
i.	Antenna & M/Radio	1+1	Antenna:- FainiTelcom., M/Radio:- Ericsson (Mod:-6363)	08KIMWA0000120006, CR9N995864	On Tower Towards Bhadreshwar
ii.	Antenna & M/Radio	1+1	Antenna:- FainiTelcom., M/Radio:- Ericsson (Mod:- 6363)	08KIMWA0000120054, CRN964253	On Tower Towards Navlakhi
iii.	Antenna & M/Radio	1+1	Antenna:- FainiTelcom., M/Radio:- Ericsson (Mod:-6363)	08KIMWA0000120004, CR9Q240411	On Tower Towards Bhadreshwar

iv.	Antenna & M/Radio	1+1	Antenna:- FainiTelcom., M/Radio:- Ericsson (Mod:-6363)	08KIMWA0000120056, CR9P211858	On Tower Towards Navlakhi
27. Dish Antenna For PMS Kandla Port :-					
S. N.	Description of Items	Qty.	Make & Model No.	Serial No	Location
i.	For Kandla PMS	01	Airmax RD-5G30	RD5M24298	VTS Tower 6 TH floor
28. EPABx:-					
S. N.	Description	Qty.	Make/Model	Tech. Specification	Location
i.	Intercom (MCC Kandla)	01	Matrix Eternity	100-240 V AC, 47-63 Hz, 1 A	Server Room
29. LIFT (VTS Tower)					
Make	Capacity	Lift Motor Rating	Speed	Date of Installation	License Validity
Trio Elevator	06 Passengers (408 Kg)	3 Phase,415V, 50 Hz, Motor Sl. No. :- 1000063083 Capacity:- 5.5 KW	1 M/Sec	03/11/2009	02/11/202 2
30. Firefighting Equipment					
(a) Fire extinguisher					
S. N.	Type of fire extinguisher	No of fire extinguisher	capacity	Month/year of manufacturing	
i.	ABC dry powder	08	05 kg	Feb-2011	
ii.	Clean agent	04	04 kg	Feb-2011	
iii.	ABC dry powder (spare in store)	04 (New) 03 (Old)	05 kg	Dec-2011	
(b) Fire buckets :- 03 No's					
31.	HSD Oil Tank	Capacity - 12000 Liters			
32.	Water supply	From Deendayal Port Trust (DPT) (Pipeline division) Submersible pump(5 HP, 3ø) inside water tank Underground tank (Cap. 60000 Ltr.) Overhead water tank (Cap.			

		10000 Ltr.)
33.	Structures	MCC Building : 01 unit VTS Tower : 01 unit Inspection Quarter : 01 unit Power House (DA room): 01 unit Generator room: 01 unit Security Cabin: 01 unit
34.	Land Area	10000 Sq.m
35	Compound Street lights	11 Nos. G.I Poles (22.5 Feet height) with 14 LED lights, 02 Nos. Gate light 10 No's LED light around MCC building
36.	Mode of Approach	By Road From Gandhidham (13KM)
37.	Address & Communication	VTS-Master Control Center Behind Balaji Temple New Kandla Kutch, Gujarat - 370210 02836- 270110 (VTS Manager) 02836- 270130 (VTS Supervisor) 02836- 270144 (AEE, SRT/RT)
38.	Date of Commissioning	13 February 2012