

Query 9 : Technical Dairy along with specification of major machines

Annexures 7 to mail to SBI dated – 20.01.2024

Solar Panel:

Make: Solar Frontier
Technology : Thin Film
Wattage: 150 Wp
Total Panels: 32500

Inverter:

Make : Power one
Model: Aurora
Capacity: 500KW
Total Inverter: 10 No's

CR → 1 → 2 Inv. not working
CR → 2 → 1 not working
CR 3 → 1 not working
CR 4 →
CR 5 →

Transformer :

Step Up Transformer – 5 no's

Make : Volt Amp
Capacity: 1.25MVA
Ratio: 320volt /33 KV

Booster Transformer- 1 no's

Make: Volt Amp
Capacity: 6.3 MVA
Ratio: 33/33KV

LT Transformer-1 no's

Make : Vol Tech
Capacity: 125KVA
Ratio: 33KV /420Volt

209700 Kwh in the
(export). (Ae)
month of January.

Import → (10350 Kwh)
Net. Ae
⇒ export - Import
= (209700 - 10350)
= Kwh.

HT Breaker Total 12 No's (Each 200 CR → 1 x 6 = 6)

- 1.) Make: System Control
Rating: 33KV
Total No's: 07
2.) Make: ABB
Rating: 33 KV
Total: 4 No's
3.) Make: Mega Win
Rating: 33KV
Total: 01 No's

LIST OF EQUIPMENTS INSTALLED OF M/S. CCCL INFRASTRUCTURE LIMITED, 5 MW, SOLAR POWER PLANT, KOMBUKKARANATHAM, TUTICORIN - 628 104.

1. List of Transformer.

SL. N.O	Transformer Make	Maker's SL.No	K.V.A	Voltage Ratio
1.	VOLTAMP TRANSFORMERS LIMITED	JN 21909/1	6300	33KV / 33KV
2.	VOLTAMP TRANSFORMERS LIMITED	JN 41417/1	1250	33KV / 320V
3.	VOLTAMP TRANSFORMERS LIMITED	JN 41418/2	1250	33KV / 320V
4.	VOLTAMP TRANSFORMERS LIMITED	JN 41418/3	1250	33KV / 320V
5.	VOLTAMP TRANSFORMERS LIMITED	JN 41418/4	1250	33KV / 320V
6.	VOLTAMP TRANSFORMERS LIMITED	JN 41418/5	1250	33KV / 320V
7.	VOLTECH MANUFACTURING COMPANY LTD	VMCL/C/1040	125	33KV/415V

2. List of HT Breaker:

SL. N.O	Make	Maker's SL.No.	K.V.A	Voltage
1.	System Control	04420022012	1250A / 25 KA	33 KV
2.	System Control	04421021022012	1250A / 25 KA	33 KV
3.	System Control	04422022012	630A / 25 KA	33 KV
4.	System Control	04423022012	630A / 25 KA	33 KV
5.	System Control	04424022012	630A / 25 KA	33 KV
6.	System Control	04425022012	630A / 25 KA	33 KV
7.	System Control	04426022012	630A / 25 KA	33 KV
8.	ABB	1VYN020211001022	1250A / 31.5 KA	36 KV
9.	ABB	1VYN020211001016	1250A / 31.5 KA	36 KV
10.	ABB	1VYN020211000947	1250A / 31.5 KA	36 KV
11.	ABB	1VYN020211001013	1250A / 31.5 KA	36 KV
12.	Megawin Switchgear-P-Limited	120339 / 9994	630A / 25 KA	36 KV

3. List of LT Breaker:

SL. N.O	Make	Maker's SL.No.	KVA/ KA	Voltage
1.	Larsen & Toubro	LU486694	1250A/50	415 V
2.	Larsen & Toubro	AV494162	1250A/50	415 V
3.	Larsen & Toubro	AV494160	1250A/50	415 V
4.	Larsen & Toubro	AV494161	1250A/50	415 V
5.	Larsen & Toubro	CS383846	1250A/50	415 V
6.	Larsen & Toubro	LU488376	1250A/50	415 V
7.	Larsen & Toubro	LU488377	1250A/50	415 V
8.	Larsen & Toubro	KU485001	1250A/50	415 V
9.	Larsen & Toubro	MR369604	1250A/50	415 V
10.	Larsen & Toubro	AV494159	1250A/50	415 V

4. List of Inverters:

Sl. No	Inverter Name	Capacity in KW	Volts
1.	Power One PVI-500 Central Inverter	500	1000V – DC
2.	Power One PVI-500 Central Inverter	500	1000V – DC
3.	Power One PVI-500 Central Inverter	500	1000V – DC
4.	Power One PVI-500 Central Inverter	500	1000V – DC
5.	Power One PVI-500 Central Inverter	500	1000V – DC
6.	Power One PVI-500 Central Inverter	500	1000V – DC
7.	Power One PVI-500 Central Inverter	500	1000V – DC
8.	Power One PVI-500 Central Inverter	500	1000V – DC
9.	Power One PVI-500 Central Inverter	500	1000V – DC
10.	Power One PVI-500 Central Inverter	500	1000V – DC

5. Solar Modules :

S.no	Make	Panel Watts	Quantity
1.	Solar Frontier	150 Wp	32,500

6. 33 KV Switching Yard With Double pole Structure Arrangement

7. Auxiliary LT Panel Chamber