

Revised/ modified technical parameters / Particular Technical Specification based on
Pre-bid queries and discussion / resolution held on 20-12-12

Sl. No.	Technical parameters / specified as per Bid Document, Particular Technical Specification		Revised / modified based on Pre-Bid Queries and Pre-Bid Discussion / Resolution
	Reference	Details	
1	PTS, Vol-2, Part-I, & Vol-	SPV Power Plant Output: 5MWp	Minimum installed capacity shall be 5MWp
2	2, Part-II, Section I and	SPV module maximum power rating : around 300Wp	Minimum Power rating of the SPV module shall be 240Wp
3	Section-II	<u>Inverter / Power conditioning Unit (PCU)</u> Rated Capacity : 500kW Number of Units : 9 Output of Inverter : 320V to 415V	<u>Inverter / Power conditioning Unit (PCU)</u> Rated Capacity : 630kW (maximum) Number of Units : 8 (minimum) Output of Inverter : As per Inverter design Voltage
4		Annual Energy Generation: 8322MWh	Minimum Guaranteed Generation is 8.322MU
5		Mounting Arrangement: Tilt angle of PV module: 20°	Mounting Arrangement: Tilt angle upto 23° is considered to achieve maximum output
6		Grid Voltage on Inverter Output: -20% to +15%	Grid Voltage Tolerance shall be ±15%
7	PTS, Vol-2, Part-II, Section-III, Specification and Parameters of	<ul style="list-style-type: none"> 5 Nos 1250 kVA, */11kV, 3 phase, 2 winding transformer (* is inverter output voltage with a minimum of 390V), Vector group-Dyn11 	<ul style="list-style-type: none"> Minimum 4 numbers, 1500kVA, */*/33kV, 3 phase, 3 winding transformer (* is inverter output voltage) Vector Group shall be as per system requirement
8	Transformers	2 numbers, 6300kVA, 11/33kV, 3 phase Transformers	Not required, since inverter voltage is directly stepped up to 33kV.
9		1 number, 250kVA, 11/0.415kV, Station Auxillary Transformer	1 number, 250kVA, 33/0.433 kV, Station Auxiliary Transformer
10	PTS, Vol-2, Part-II, Section-IV and Section-V	<ul style="list-style-type: none"> 11kV Indoor Switchgear Short Circuit Fault current for 11kV and 33kV system considered as 12.5kVA for 3 sec. 33kV circuit breaker as SF6 33kV Outdoor Switchyard 	<ul style="list-style-type: none"> 11kV Indoor Switchgear is not required since inverter voltage is directly stepped up to 33kV. Short Circuit fault current considered is 40kA (symmetrical rms) 33kV Indoor switchgear is considered with SF6/Vacuum Circuit Breaker. Deleted. Since 33kV Indoor Switchgear is considered.

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11	PTS, Vol-2, Part-II, Section-VI	11kV Power Cable considered since inverter voltage step up to 11kV with */11kV transformer and 11kV Indoor switchgear considered.	11kV Power Cable not required since 11kV system deleted. 33kV Power Cable considered since 33kV system adopted with */*/33kV transformer.
12	PTS, Vol-2, Part-II, Section-VII	Control and Relay Panel for 33kV switchgear.	Control and relay for 33kV System included with the 33kV Indoor switchgear.
13	Vol-3	Schedule of Requirement	Schedule of Requirement is revised considering above and the following <ul style="list-style-type: none"> Approximately 1 km 33kV lines with following <ol style="list-style-type: none"> Steel Tubular pole is 540 SP-57 ACSR 'DOG' conductor in place of ACSR 'Rabbit' conductor. <u>Auxiliary distribution system</u> Auxiliary distribution system considered with one main LTAC Panel with required sub ACDB inclusive of all required cables and accessories. One feeder shall be kept for interfacing 433V from the existing power plant.
14	Single Line Diagram	Drg No. TRI/SOLAR/01 Rev 00 dtd Oct 2012	Drg No. TRI/SOLAR/01 Rev 01 dtd Dec 2012 incorporating changes as mentioned above.
15	Vol-2, Part-III	<u>Civil Works</u> <u>Control Room:</u> The building shall be reinforced concrete framed structure on concrete foundation with infill masonry. <u>Fencing:</u> Fencing work required for electrical switchyard.	<u>Civil Works</u> <u>Control Room:</u> Pre fabricated / pre-engineered building is also considered. <u>Fencing:</u> Fencing works shall be around electrical transformers & switchyard of 2.5 m height (minimum 8 gauge). Angle size for fencing post shall be minimum of ISA 70x70x6.