

Amendment - 1

NIT No : SECI/C&P/NIT/2020/SCCL32

Design, Engineering, Supply, Construction, Erection, Testing, Commissioning and O&M of 32 MW (AC) OB Dump based Solar PV Power Plant for different packages at SCCL Telangana State

Sl. No.	Section	Page No.	Clause	Original Version	Amendment
1	SECTION - VII B. TECHNICAL SPECIFICATIONS	9 OF 140	1.3.2	The Employer reserves the right to conduct Pressure Cooker (PC) test/ Highly Accelerated Stress Test (HAST) to confirm the durability of the back sheet in accelerated conditions.	Pressure Cooker Test shall be carried out under following conditions: 121 °C /100 %Rh and 2 atm Pressure for 48 hours. The apparatus shall be such that specimen is not dipped in water but exposed to vapour (steam) while maintaining aforementioned conditions. Necessary sensors for measurement of Temperature, Pressure and RH shall be installed for verification. For acceptance: 1. there shall be no delamination or micro cracks observed in the back sheet 2. The back sheet shall retain 30% of the initial value (as per approved GTP) of the Elongation at Break.
2	SECTION - VII B. TECHNICAL SPECIFICATIONS	17 OF 140	4.3.2	Every DC input terminal of PCU shall be provided with fuse of appropriate rating. The combined DC feeder shall have suitably rated isolators for safe start up and shut down of the system. One spare DC input terminal shall be provided for each PCU.	Every DC input terminal of PCU shall be provided with fuse/MCB/MCCB of appropriate rating. The combined DC feeder shall have suitably rated isolators for safe start up and shut down of the system. One spare DC input terminal shall be provided for each PCU.
3	SECTION - VII B. TECHNICAL SPECIFICATIONS	17 OF 140	4.3.9	PCU front panel shall be provided with LCD/ LED to display all the relevant parameters related to PCU operation and fault conditions. It shall include, but not limited to, the following parameters. (i) DC input power (ii) DC input voltage (iii) DC input current (for each terminal) (iv) AC output power (v) AC output voltage (all the 3 phases and line) (vi) AC output current (all the 3 phases and line) (vii) Frequency (viii) Power Factor	PCU front panel shall be provided with LCD/ LED to display all the relevant parameters related to PCU operation and fault conditions. It shall include, but not limited to, the following parameters. (i) DC input power (ii) DC input voltage (iii) DC input current (for each terminal) (iv) AC output power (v) AC output voltage (all the 3 phases and line) (vi) AC output current (all the 3 phases and line) (vii) Frequency (viii) Power Factor In case of outdoor PCU, PCU without LCD display with provision for Data access over Bluetooth shall be acceptable.
4	SECTION - VII B. TECHNICAL SPECIFICATIONS	54 OF 140	15.9.2	Operating System - Operating System and Database shall be of enterprise scale (RedHat Linux or equivalent Linux OS, Oracle/MySQL or equivalent DB), with required AMC for 5 years.	Operating System - Operating System and Database shall be of enterprise scale (RedHat Linux or equivalent Linux OS, Oracle/MySQL or Windows or equivalent DB), with required AMC for 5 years.
5	SECTION - VII B. TECHNICAL SPECIFICATIONS	29 of 140	6.5.2	Auxiliary voltage of the relays shall be 110 VDC and the relays shall be capable of operating continuously between 80 – 120% of auxiliary voltage.	Relays shall operate on suitable DC auxiliary voltage and the relays shall be capable of operating continuously between 80 – 120% of auxiliary voltage.
6	ANNEXURE D MANDATORY SPARES	-	New Clause	-	Refer Annexure 1 to Amendment 1

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7	SECTION - VII B. TECHNICAL SPECIFICATIONS	351	21.4.1 . (v)	<p>(v) Connectivity and Data transmission:</p> <ul style="list-style-type: none"> ■ Built-in GSM/ GPRS modem for wireless data transmission to SCADA/ cloud server (procurement of GPRS enabled SIM Card and connection subscription to be the responsibility of Contractor). It should be possible to remotely communicate with the device for configuration settings. ■ RS485 MODBUS interface for data collection and storage on SCADA ■ Web interface with provision for user login to enable viewing and downloading of weather data in XLS/ CSV format ■ Communication protocol should support fast data transmission rates, enable operation in different Frequency bands and have an encryption-based data security layer for secure data transmission 	<p>(v) Connectivity and Data transmission:</p> <ul style="list-style-type: none"> ■ RS485 MODBUS interface for data collection and storage on SCADA ■ Communication protocol should support fast data transmission rates, enable operation in different Frequency bands and have an encryption-based data security layer for secure data transmission
8	SECTION - VII B. TECHNICAL SPECIFICATIONS	47 of 140	13.4	Galvanized Iron mast with base plate and guy wire kit	GI tubular pole supported on RCC pedestal and foundation structure through Base plate & Anchor bolt assembly.
9	SECTION - VII C. SPECIAL TECHNICAL SPECIFICATIONS	-	New Clause	-	All outdoor installations shall be supported on plinth comprising of RCC framed structure with foundations, columns and beams up to plinth level (FFL), with a suitable metal canopy on top.
10	SECTION - VII B. TECHNICAL SPECIFICATIONS	35 of 140	7.5	Maximum voltage drop in LT cable (from inverter to inverter transformer) shall be limited to 0.5% of the rated voltage. For HT cables (from inverter transformer to interconnection point), maximum voltage drop shall be limited to 0.5 % of the rated voltage. The Contactor shall provide voltage drop calculations in excel sheet.	Maximum voltage drop in LT cable (from inverter to inverter transformer) shall be limited to 0.5% of the rated voltage. For HT cables (from inverter transformer to plant take off point), maximum voltage drop shall be limited to 0.5 % of the rated voltage. The Contactor shall provide voltage drop calculations in excel sheet.
11	SECTION - VII B. TECHNICAL SPECIFICATIONS	14 of 140	3.1	Standards and Codes	Refer Annexure 2 to Amendment 1
12	SECTION - VII B. TECHNICAL SPECIFICATIONS	14 of 140	3.3	DC cables shall be single core, armoured, Flame Retardant Low smoke (FRLS), PVC outer sheath conforming to IS 7098-I. DC cable with positive polarity should have marking of red line on black outer sheath.	Refer Annexure 2 to Amendment 1
13	SECTION - VII B. TECHNICAL SPECIFICATIONS	83 of 140	20.3.3	The lighting level shall take into account appropriate light output ratio of luminaires, coefficient of utilization maintenance factor (of 0.7 or less) to take into account deterioration with time and dust deposition	The lighting level shall take into account appropriate light output ratio of luminaires, coefficient of utilization maintenance factor (of 0.7 or less) to take into account deterioration with time and dust deposition. For the purpose of design, the illuminance uniformity [Uo] should be min 0.3.

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Sl. No.	Section	Page No.	Clause	Original Version	Amendment
14	SECTION - V SPECIAL CONDITIONS OF CONTRACT	6 of 12	6.2	<p>During the demonstration of yearly CUF, any shortfall from specified CUF shall attract the LD @ INR 5.65/kWh for each unit shortfall. The CUF shall be calculated as per the formula mentioned Section VII, Scope of Work and Technical Specifications. Shortfall in CUF during any year may be compensated against excess achieved CUF during previous or subsequent years subject to total CUF over the O&M Period being in accordance with the committed CUF. LD levied, if any, on account of shortfall in CUF in any year shall be refunded when the same is compensated through excess CUF in subsequent years. Determination of LD on account of shortfall, if any, shall be made after such adjustment, upto excess CUF which is not already accounted in an earlier year.</p> <p>If the Contractor fails to achieve 10-year cumulative CUF at the end of O&M period, then the Contractor will pay compensation to Owner an amount equal to the Net Present Value (NPV) of the estimated revenue loss due to shortfall in CUF for 11th to 25th year calculated at a discount factor of 9.08% as below.</p> $COM = \sum_{n=1}^{15} \frac{((Eg - Ea) / 10) \times C}{(1 + 0.0908)^n}$ <p>Where, COM is the compensation payable to Owner in INR</p> <p>Eg is 10-year cumulative guaranteed generation with reference to the committed CUF in kWh</p> <p>Ea is 10-year cumulative actual generation in kWh C is tariff of INR 5.00/kWh.</p>	During the demonstration of yearly CUF, any shortfall from specified CUF shall attract the LD @ INR 5.65/kWh for each unit shortfall. The CUF shall be calculated as per the formula mentioned under Section VII, Scope of Work and Technical Specifications.
15	SECTION - VII B. TECHNICAL SPECIFICATIONS	132 of 140	35.1	Module cleaning procedure and pressure requirement at discharge point shall be as per the recommendation of PV module manufacturer. However, discharge pressure at outlet shall not be less than 50kg/cm ² (5 MPa)	Module cleaning procedure and pressure requirement at discharge point shall be as per the recommendation of PV module manufacturer. However, discharge pressure at outlet shall not be less than 5kgf/cm ² (0.5 MPa)

Contact Details for site visit				
22 MW Solar Power plant at RAMAGUNDAM - III Area : Contact Numbers				
Name	Designation	Contact number	Location	Mail ID
K. Suryanarayana	General Manager	9491144076	RAMAGUNDAM -III	gm_rg3@scclmines.com
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N. Ramalingam	Area Engineer	9491145368	RAMAGUNDAM -III	enm_rg3@scclmines.com
10 MW Solar Power plant at Dorli, Bellampalli Area : Contact Numbers				
Name	Designation	Contact number	Location	Mail ID
K. Kondiah	General Manager	9491144300	BELLAMPALLI	gm_bpa@scclmines.com
V. Purushotham Reddy	PO, BPA	9491145104	BELLAMPALLI	
G. Kamalakar Bhushan	Area Engineer	9491144184	BELLAMPALLI	enm_bpa@scclmines.com

Clarifications to Queries raised during Pre-Bid Meeting

NIT No : SEC/C&P/NIT/2020/SCCL32							
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S No.	Tender Section	Page No.	Clause No	Description as per Tender Document	Queries	Category (Finance/Technical/Contractual)	Clarifications
1	SECTION - VII	3	1	Proposed AC capacity (MW)	Allow to vary AC capacity as per inverter Sizing	Technical	Terms & conditions of the tender document will prevail.
2	SECTION - IV	29 OF 72	32.1.3	In the matter of connectivity of Plant to DISCOM's substation, the Owner will take the necessary connectivity permission	Provide grid connectivity letter for better clarity and also mention the grid connection voltage level	Technical	Application was submitted at TSTRANSCO/TSNPDCL office. It is under process. Approval not yet received
3	SECTION - IV	29 OF 72	32.1.3	In the matter of connectivity of Plant to DISCOM's substation, the Owner will take the necessary connectivity permission, however, all the other permissions and clearances as deemed required by the State Agency/DISCOM for Bay allocation, technical/regulatory compliance for interconnection, ROW etc are to be taken by the Contractor.	Provide bay extension estimation letter issued by the concerned DISCOM for better clarity. Also, please confirm who will pay the supervision charges for Transmission line and bay extension	Technical	Bay extension is the responsibility of the EPC contractor. EPC firm has to approach concerned TSNPDCL/TSTRANSCO substations and estimation may be arrived. As per Telangana solar policy supervision charges for solar plant works are exempted.
4	SECTION - VII A	4 OF 14	1	Performance Ratio - 80% CUF - 20%	The proposed solar plant are on Ash dump area resulting in higher soiling losses (because of ash deposition) hence request to consider lower Performance Ratio (i.e. around 76%) and CUF (at around 18%)	Technical	Terms & conditions of the tender document will prevail.
5	SECTION - VII A	3 OF 14	1	Particulars : Ramagundam (RG 3 OC 1 OB Dump & Dorli OC 1 OB Dumps	Please provide the height of Ash dumped over natural soil	Technical	It is not ash dump, it is a Over Burden dump which is natural ingredient available in earth layers. For RG-3 OC 1 OB Dump : Height is 120 mtrs. For Dorli OC1, the height is 30 mtrs.
6	SECTION - VII A	8 OF 14	5.1.2	Earthwork for site grading, cutting, filling, levelling & compaction of land.	Please clarify whether it is required to fill the ash dump area with soil?	Technical	Some levelling works are required to be done by EPC Contractor.
7	SECTION - VII B	9 OF 140	1.3.1	For PV Modules with back sheet, toughened low iron glass with minimum thickness of 3.2 mm for multi or mono-crystalline modules	Assuming that 3.2 mm glass can be used for 72 cell PV module as well. Also, specify about additional requirement if any	Technical	Glass thickness shall be 3.2mm for 72 cell as well 60 cell module.
8	SECTION - VII B	9 OF 140	1.3.2	The Employer reserves the right to conduct Pressure Cooker (PC) test/ Highly Accelerated Stress Test (HAST) to confirm the durability of the back sheet in accelerated conditions.	There is no international standard for HAST / PCT as of now. Please clarify what will be checked?	Technical	Please refer S. No. 1 of Amendment-1
9	SECTION - VII B	17 of 140	4.3.9	PCU front panel shall be provided with LCD/ LED to display all the relevant parameters related to PCU operation and fault conditions	In case of out door inverters (IP54), kindly allow for inverter without LCD / LED display. Instead a Bluetooth enabled data can be provided to check the inverter parameters	Technical	Inverter without LCD display with provision for Data access over Bluetooth shall be acceptable. Refer the S. No.3 of Amendment-1
10	SECTION - VII B	23 OF 140	5.4	Dry Type Auxiliary Transformer	Please provide confirmation to use outdoor type oil cooled auxiliary transformer	Technical	Auxiliary transformer can be either oil filled or dry type. Kindly refer the TS clause no 5.2.
11	SECTION - VII B	24 OF 140	5.6.1.3	Type and Special tests are not required for auxiliary transformers of rating including 100 KVA and below. However, auxiliary transformer shall have minimum 3 star BEE rating as per BIS guidelines.	Kindly extend the exemption of type and special test for auxiliary transformer above 100 kVA as well	Technical	Terms & conditions of the tender document will prevail.

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12	SECTION - VII B	28 OF 140	6.3.10	Panel shall be provided with local bus-bar protection	Please specify the protections required	Technical	Terms & conditions of the tender document will prevail.
13	SECTION - VII B	35 OF 140	7.5 (ii)	Maximum voltage drop in LT cable (from inverter to inverter transformer) shall be limited to 0.5% of the rated voltage.	Kindly allow for 1 % voltage drop in LT Cable (from inverter to inverter transformer incise of string inverters	Technical	Terms & conditions of the tender document will prevail.
14	SECTION - VII B	36 OF 140	8.3	Auxiliary system shall be provided with two independent sources for reliable auxiliary power supply.	Providing 2 independent source of power supply for auxiliary system is practically very difficult (as there is single connection to the complete plant)	Technical	Terms & conditions of the tender document will prevail.
15	SECTION - VII B	47 OF 140	13.2	Protection level for the entire plant shall be Level-I	Kindly allow protection level for entire plant as Level - 4	Technical	Terms & conditions of the tender document will prevail.
16	SECTION - VII B	92 OF 140	25.2	The power evacuation system for the plant shall be as per the local DISCOM requirement and appropriate approval. The contractor shall get the route approval from the Employer and TSTRANSCO/TSNPDCL as the case may be prior to start of the construction. Any changes in the route or scheme introduced by DISCOM at any point of the time prior to commissioning shall be complied without any additional cost to the Employer.	Request you to provide the exact length of transmission line or make provision to pay additional charges for extra length of transmission line.	Technical	It is an approximate length. Route Survey is in the scope of EPC Contractor. Based on the route approval, the length may vary. No additional charges will be paid by SCCL. EPC contractor has to visit the site of Solar plant before bidding and assessment has to be arrived for length of Transmission line.
17	SECTION - VII B	96 OF 140	3.3	There shall be minimum 1 nos. of BH per 5 acres of the area (However, total number of boreholes shall not be less than 5), 3 nos. of Trial pits, 5 nos. of CBR test & ERT, 5 nos. of Ground water samples for laboratory investigation	Kindly provide the details of total land available at each site	Technical	RG3 OC1 Dump 22 MW Plant : 100 Acres, Dorli OC1 Dump 10 MW plant : 50 Acres.
18	SECTION - VII B	100 OF 140	5.3	It is envisaged that the MMS are installed on natural/ existing ground without any levelling or grading of the area. Contractor shall accordingly consider the effect of the existing ground slope on the design of MMS structure as specified elsewhere in the specifications. If any ground undulations at column locations are observed the same shall be filled up with PCC (1:3:6) up to surrounding ground level immediately after pile installation before start of erection of other MMS members. In case of pile, the PCC fill shall extend min. 500mm outside pile cap all around and remaining area may be filled up with local soil properly compacted	It is mentioned that upto 3 Degree slope is accepted in technical specification. The requirement of filling with PCC up to surrounding ground level is not technically and commercially feasible. Also provide topo survey report of the plot for better understanding about undulations	Technical	Terms & conditions of the tender document will prevail. Topo survey of the land shall be in the scope of the EPC Contractor.
19	SECTION - VII B	111 OF 140	11.2	No foundation for MMS, buildings, switchyard equipment and structures, sub-stations, HT line towers, transformers, etc. shall rest on filled-up ground. However, minor structures like cable trench, cable rack, pipe pedestal, etc. may rest on filled-up soil with max. safe bearing capacity for design considerations not more than 3 T/Sqm	Kindly allow to consider the safe bearing capacity as per soil test report	Technical	Terms & conditions of the tender document will prevail.

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20	SECTION - VII B	111 of 140	12.2.1	In case the contractor proposes to provide bored cast-in-situ concrete pile; the type, dia. and length of pile shall be as per recommendations of Geotechnical investigation report corresponding to prevalent soil characteristics at site. However, the min. dia. and depth of the pile shall be 300mm (Min 350 mm for column depth more than 175 mm) and 1800mm respectively	Request to consider the foundation depth as per the Geo technical investigation report and pile test reports. Please confirm about the cost reimbursement for any increase in foundation depth beyond 1800 mm (in absence of geo technical investigation report)	Technical	Terms & conditions of the tender document will prevail. It is responsibility of contractor to conduct the Geo-technical Investigated and design the pile based on the findings of investigation. No reimbursement will be made for additional cost incurred on account of depth beyond the specified min value.
21	SECTION - VII B	111 of 140	12.2.1	In case the contractor proposes to provide bored cast-in-situ concrete pile; the type, dia. and length of pile shall be as per recommendations of Geotechnical investigation report corresponding to prevalent soil characteristics at site. However, the min. dia. and depth of the pile shall be 300mm (Min 350 mm for column depth more than 175 mm) and 1800mm respectively	Please clarify about min 350 mm for column depth more than 175 mm	Technical	Min dia of the pile shall be 300 mm for column web depth upto 175 mm and 350 mm for column web depth more than 175 mm.
22	SECTION - VII B	116 OF 140	13.7	The minimum thickness excluding anti corrosive treatment (BMT) of various elements of MMS structure shall be as following: • Stub/ column – 3.15mm, • Rafter – 2.5mm & • Purlin & other members – 2.0mm	Kindly allow to consider the section sizes based on the site conditions (wind speed at site etc.)	Technical	Terms & conditions of the tender document will prevail.
23	SECTION - VII B	117 OF 140	13.16	The MMS structure shall be hot dip galvanized with minimum GSM 610 kg/ sqm and/or minimum coating thickness of 80 microns for protection against corrosion. Galvanization shall conform to IS-2629, 4759 & 4736 as applicable	There are contradicting statement about use of MMS material (Refer Clause 13.6 where is it is mentioned about proposing any light gauge sections) Please clarify. Request to allow use of POSMAC / Galvalume material for extended plant life and also to optimize the design.	Technical	Light gauge section profiles with design conforming to present technical specifications of tender may be proposed. Corrosion protection treatment shall conform to provisions of technical specifications of tender.
24	SECTION - VII B	117 OF 140	13.23	Fasteners and washers to be used for erection of mounting structures and those for fixing Module over MMS shall be of stainless steel grade SS 304 & SS 316 with property class A2-70 conforming to relevant ISO standard and must sustain the adverse climatic conditions to ensure the life of the structure for 25 years	Kindly allow use of SS304 fasteners for PV module to purlin fixing and HDG fasteners for remaining structure	Technical	Fasteners and washers to be used for erection of mounting structures and those for fixing Module over MMS shall be of stainless-steel grade SS 304 with property class A2-70 & SS 316 with property class A4-70 conforming to relevant ISO standard and must sustain the adverse climatic conditions to ensure the life of the structure for 25 years.
25	SECTION - VII B	118 OF 140	13.32	The length of one unit (Table) of MMS shall not generally be more than 20m.	Kindly allow for 30 m long MMS table	Technical	Terms & conditions of the tender document will prevail.
26	SECTION - VII B	118 OF 140	13.35	The length of any cold formed section (CFS) shall not be more than 5.5 m.	Kindly allow of higher length (up to 7 m)	Technical	Terms & conditions of the tender document will prevail.
27	SECTION - VII C	2 OF 6	5. i	The depth of all BH shall be 5m. The BH drilling shall be with DTH. As specified in Tech Secs Vol. – VI, the drilling shall be carried out for full depth of 5m irrespective of encountering of any rock strata.	Drilling using DTH is not feasible in ash dump area.	Technical	Project area is an OB dump site. Terms and conditions of document will prevail.

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28	SECTION - VII C	3 OF 6	6	The top of the OB Dump site being very high from the ground level, extraction of ground water for construction and O & M purposes is not feasible and Mining water shall be supplied by the employer during construction and O & M phase at single location as specified in SCC	Please confirm the exact height of the as dumped over natural soil	Technical	RG3 OC1 Dump 22 MW Plant : 120 mtrs height Dorli OC1 Dump 10 MW plant : 30 mtr height
29	SECTION - VII C	3 OF 6	7	There shall be no boundary fence to the plant site.	Please confirm whether the construction of boundary fencing is in bidder scope or not? as the scope of work i.e. SECTION - VII A, Page 8 OF 14, Clause No. 5.1.3 mention about construction of boundary wall	Technical	There shall be no boundary fence to the plant site. Section-VII C. Special Technical Condition will supersede Section VII A. Scope of Works.
30	SECTION - VII C	3 OF 6	12	The modules shall be fixed in landscape orientation with fixed tilt along the length of the array. Length of the table shall not be more than 20 m.	a) Kindly allow fixing of PV modules in portrait orientation to optimize the MMS design b) Request to consider the table length of 30 m (considering 1500 V system)	Technical	Terms & conditions of the tender document will prevail.
31	SECTION - VII C	3 OF 6	14 ii	The grade of pre-cast RCC sleeper shall be min. M35.	Request to consider M25 grade RCC sleepers	Technical	Terms & conditions of the tender document will prevail.
32	SECTION - VII C	3 OF 6	14 iii	The sleepers shall be shop manufactured (or cast at a properly established casting yard near the project site with proper casting and curing facilities	Request to allow casting of RCC sleepers near the installation location to avoid handling issues	Technical	Terms & conditions of the tender document will prevail.
33	SECTION - VII C	4 OF 6	14 iv	MMS structure shall comprise of rafter members directly fixed over the precast sleeper which shall support the purlins	Request to change the design of MMS to support the rafter member on column post instead of precast sleepers as this will result in very heavy RCC sleepers	Technical	Terms & conditions of the tender document will prevail.
34	SECTION - VII C	4 OF 6	14 vi	For general information, a schematic representation of MMS structure and foundation system is shown in the sketch attached Sketch – 1 to this Annexure.	Kindly provide detailed drawing for the same.	Technical	For general information, a schematic representation of MMS structure and foundation system is shown in the sketch attached Sketch – 1 to this Annexure. Detailed drawing shall be provided by contractor during detailed engineering.
35	SECTION - VII C	5 OF 6	28	All UG cables shall be laid in brick masonry trench (max. depth 450mm) to be covered with precast concrete covers.	Kindly allow to lay cables above ground (i.e. 300 mm above ground) using supporting structure	Technical	Terms & conditions of the tender document will prevail.

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36	Annexure – A	374	7	<p>Decision Rules for Acceptance/Rejection</p> <p>AQL Levels:</p> <p>Major :2.5</p> <p>Minor : 4</p> <p>Inspection Level :General inspection level I</p> <p>> Flash Test</p> <p>> Visual</p> <p>> EL</p>	<p>We would like to request:</p> <p>Special Inspection level : S4 against</p> <p>General inspection level I</p> <p>with same AQL levels because G1 requires higher sample inspection and has a higher rejected number in the lot as per AQL table. The modules go through multiple handling and inspections and has chances to cause micro-cracks. We would recommend S4 inspection to avoid repeat handling of large quantities. Also SECI or any Third party can be appointed for 24 hour inspection or in line process inspection to reduce burden on final inspection to avoid multiple remanding. Also S4 inspection levels calls for specific inspection levels and yield same results with lesser handling and lesser stress. Also pre shipment inspection does not specify sample selection from full pallet or multiple pallets. We recommend full/single pallet selection to avoid multiple and redundant handling cracks.</p>	Technical	<p>Terms & conditions of the tender document will prevail.</p> <p>Owner/ Inspector reserves the rights to select either complete or partial no. of modules from pallets for inspection.</p>
37	SECTION - V	151 of 417	SCC 9	<p>Interest bearing adjustable initial advance (OPTIONAL) of 10% of the Contract Value (i.e., total sum of all the Supply Contract) shall be released to successful bidder upon receipt of unconditional acceptance of NOA, detailed Performa invoice of contractor and against submission of unconditional & irrevocable Advance Bank Guarantee (ABG) with a validity period up to date of final commissioning total amounting to 110% of total advance amount. The ABG needs to be submitted in addition to the Contract Performance Security. The annual interest rate shall be calculated based on SBI one-year MCLR + 3.5% as applicable. Successful bidder will be required to submit the individual ABGs on individual site basis for claiming the advance amount.</p>	<p>Interest "free" bearing adjustable initial advance (OPTIONAL) of 10% of the Contract Value (i.e., total sum of all the Supply Contract) shall be released to successful bidder upon receipt of unconditional acceptance of NOA, detailed Performa invoice of contractor and against submission of unconditional & irrevocable Advance Bank Guarantee (ABG) with a validity period up to date of final commissioning total amounting to 110% 100 % of total advance amount. The ABG needs to be submitted in addition to the Contract Performance Security. The annual interest rate shall be calculated based on SBI one-year MCLR + 3.5% as applicable. Successful bidder will be required to submit the individual ABGs on individual site basis for claiming the advance amount.</p>	Contractual	<p>Provisions of the Bidding documents shall prevail</p>

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38	SECTION - V	148 of 417	SCC 6	First Stage (Supply and Services): The value of the Contract Performance Security shall be 10% of the Contract Value (i.e., total sum of the Supply & Service Contract). This Performance security will be valid for a total period of 75 Months (12 Months Project commissioning period) + first half of the prescribed O & M Period, i.e. 60 Months + 03 Months additional) from the date of its issuance. The successful bidder can submit Contract Performance Security with initial validity of one year and the same may be extended every year till completion of the total 75 months period.	First Stage (Supply and Services): The value of the Contract Performance Security shall be 10% of the Contract Value (i.e., total sum of the Supply & Service Contract). This Performance security will be valid for a total period of 27 Months (12 Months Project commissioning period) + first half of the prescribed O & M Period, i.e. 60 12 Months + 03 Months additional) from the date of its issuance. The successful bidder can submit Contract Performance Security with initial validity of one year and the same may be extended every year till completion of the total 75 27 months period.	Contractual	Provisions of the Bidding documents shall prevail
39	SECTION - V	148 of 417	SCC 6	Second Stage (O&M): The Performance security shall be furnished 30 days prior to the completion of first stage Performance Security & it shall be equivalent to the 5% of the Contract Value (i.e., total sum of the Supply & Service Contract). This Performance security will be valid for a total period of 63 Months (Second half of the prescribed O & M Period, i.e. 60 Months + 03 Months additional) from the date of its issuance. The successful bidder can submit Contract Performance Security with initial validity of one year and the same may be extended every year till completion of the total 63 months period.	Second Stage (O&M): The Performance security shall be furnished 30 days prior to the completion of first stage Performance Security & it shall be equivalent to the 5% of the Contract Value (i.e., total sum of the Supply & Service Contract). This Performance security will be valid for a total period of 27 Months (Second half of the prescribed O & M Period, i.e. 24 Months + 03 Months additional) from the date of its issuance. The successful bidder can submit Contract Performance Security with initial validity of one year and the same may be extended every year till completion of the total 27 months period.	Contractual	Provisions of the Bidding documents shall prevail
40	SOW	207 of 417	1 Project Particulars	Construction Water and Power It is the responsibility of the EPC contractor. Depending on the availability SCCL may provide construction water and Power.	The proposed locations are on OB dump areas so it is not possible to drill bore well and also arranging power supply during construction will be difficult. Request SCCL to arrange the same.	Technical	Refer the Clause 6 of Section VIII C. Special Technical Condition
41	SECTION - VII B	100 OF 140	5.3	It is envisaged that the MMS are installed on natural/ existing ground without any levelling or grading of the area. Contractor shall accordingly consider the effect of the existing ground slope on the design of MMS structure as specified elsewhere in the specifications. If any ground undulations at column locations are observed the same shall be filled up with PCC (1:3:6) up to surrounding ground level immediately after pile installation before start of erection of other MMS members. In case of pile, the PCC fill shall extend min. 500mm outside pile cap all around and remaining area may be filled up with local soil properly compacted	Piling for MMS – Due to the dump yard, SCCL should provide the pile design, soil test report and specifications for piling. Further, during piling if bigger size rocks are found than SCCL should compensate for extra work cost.	Technical	Terms & conditions of the tender document will prevail.

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Clarifications to Queries raised during Pre-Bid Meeting

42	TS	318 of 417	5.4	The slope at edge of graded areas shall not be steeper than 1:1.5 (1 Vertical: 1.5 Horizontal) in cutting and 1:2 (1 Vertical: 2 Horizontal) in filling. In case of filling with rock material, the edges shall be provided in line with provisions of relevant BIS standard.	SCCL has to ensure strength of the Slope so that no issue of landfall / landslide. If any such incident happens than any rectification work will not be coming under Bidder's scope.	Technical	SCCL will arrange for strengthening of the Slope of site edges.
43	TS	319 of 417	6.1	Suitable approach road (as applicable) from nearest public road up to plant Main gate, Access road from Main gate to Main control cum office room (MCR), Internal roads connecting MCR and other facilities/ buildings/ open installations like Local control room(s) (LCR)/ Inverter control room(s) (ICR), Sub-station & Switch yard (as applicable) etc. and peripheral road along inside of the boundary fence/ wall shall be provided for safe and easy transportation of men, material and equipment during construction and maintenance.	As the proposed sites are located on OB dump areas above the 120 meter from mean sea level; the approach roads till the sites should be constructed by SCCL.	Technical	Please Refer Section VII C: special Technical Specifications. Terms & conditions of the tender document will prevail.
44	SECTION - VII B. TECHNICAL SPECIFICATIONS	225	1.2	Cell type Mono-crystalline or Multi-crystalline or Thin film	The current market is supplying Monoperc module which are more efficient than Multicrystline, saves area and efficiency, Please accept	Technical	Mono-crystalline cells are also allowed as per tender.
45	SECTION - VII B. TECHNICAL SPECIFICATIONS	226	1.2	Origin Cells and Modules shall be domestically manufactured	Please accept imported cells and panels also	Technical	Terms & conditions of the tender document will prevail.
46	SECTION - VII B. TECHNICAL SPECIFICATIONS	230	2.2.1	SMU enclosure shall be made of UV resistant, fire retardant, thermoplastic material	Please accept FRP Material enclosure which is durable and equivalent to thermoplastic.	Technical	Terms & conditions of the tender document will prevail.
47	SECTION - VII B. TECHNICAL SPECIFICATIONS	230	2.2.3	Every SMU input shall be provided with fuses on both positive and negative side	Please accept to consider one fuse at positive site only which will suffice the requirement	Technical	Terms & conditions of the tender document will prevail.
48	SECTION - VII B. TECHNICAL SPECIFICATIONS	232	4.3.2	Every DC input terminal of PCU shall be provided with fuse of appropriate rating.	Please accept to consider MCCB of appropriate rating for DC side input of Inverter	Technical	MCCB/MCB of appropriate rating for DC side input of inverter shall be acceptable. Please refer S. No. 2 of Amendment-1
49	SECTION - VII B. TECHNICAL SPECIFICATIONS	248	2.1.1	Cumulative AC energy measured at the Plant End (ABT meter) over the duration of reporting period (kWh)	Please clarify the generation data taken from ABT meter will at at solar plant end or at substation	Technical	Cumulative AC energy measured at the Plant End (ABT meter) over the duration of reporting period (kWh) shall be used for computing the PR.
50	General				GPS coordinates of RAMAGUNDAM (RG 3 OC 1 OB DUMP), SCCL(Site-1)	Technical	Please see attached GPS (CSV) file
51	General				GPS coordinates of DORLI OC 1 OB DUMPS, SCCL (Site-2)	Technical	Please see attached GPS (CSV) file
52	General				Site photos	Technical	EPC contractor is encouraged to have site visit for better understanding of the sites as permissible. Photos will be submitted after lockdown. Contact numbers for respective site are provided
53	General				SLD and BOQ of the plant if any	Technical	Shall be determined during detailed engineering
54	General				Contour layout of both plants	Technical	The contractor are responsible for detailed Topographical Survey of the proposed project site.
55	General				Soil test, Earth resistivity, Hydrology, water quality reports if any	Technical	The contractor are responsible for detailed Geotechnical investigations at the proposed project site
56	General				Topography	Technical	The contractor are responsible for detailed Topographical Survey of the proposed project site.

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Clarifications to Queries raised during Pre-Bid Meeting

57	C	312	2.1	The contractor shall be responsible for detailed Topographical Survey of the proposed project site. The work shall be carried out through an agency with relevant experience and qualified survey team.	As everyone know Due to Covid -19 Restrictions , Site visit or survey cant be done , So pls Share any Photos of the sites	Technical	Terms & conditions of the tender document will prevail.
58	C	313	3.1	The contractor shall be responsible for detailed Geotechnical investigations at the proposed project site for the purpose of foundation design for various buildings, structures, HT lines, MMS etc. and other design/ planning requirements. The investigation work shall be carried out through any Govt. approved/ NABL accredited agency. The contractor shall submit the credentials of the proposed agency along with relevant certificates in support thereof for verification/ approval of the Investigation Agency by the Engineer.	As everyone know Due to Covid -19 Restrictions , Site visit or survey cant be done , So pls Share any Soil Investigation Reports near by sites for rough understanding of Soil Strata.	Technical	Terms & conditions of the tender document will prevail.
59	C	317	5.1	Area Grading and Land Development 5.1 The Finished Grade Level (FGL) of the proposed plant shall be fixed with reference to the highest flood level (HFL) and surrounding ground profile at proposed site to avoid flooding of plant site	As everyone know Due to Covid -19 Restrictions , Site visit or survey cant be done , So pls Share spot levels/Topo of the Location.	Technical	Terms & conditions of the tender document will prevail.
60	C	322	8	The plant peripheral boundary shall be provided with either Chain link or barbed wire fencing or masonry boundary wall as specified.	Pls share any reference drawings for Boundary Wall,	Technical	Please refer Special Technical Specifications. This section will supersede Section VII B Technical Specification.
61	C	369	Sketch-1	MMS Schematic Details	MMS Details of the schematic Sketch is not clear and what is the purpose of that sketch pls explain clearly	Technical	'For general information, a schematic representation of MMS structure and foundation system is shown in the sketch attached (Sketch – 1) to Special Technical Conditions. Detailed drawing shall be provided by contractor during detailed engineering.
62	SCC	8	S.No 9 Schedule of Rates & Payments (GCC clause 80.1)	The supplier shall upload his Tax Invoice in the GSTN as per the provisions of the GST Act i.e., by 10th of the month subsequent to the month in which “Time of Supply” arises. In respect of orders where the entire order quantity is executed through a single Tax Invoice and if the “Tax Invoice” is not uploaded within the time limits prescribed under GST Act, the amount of tax contained in the Invoice will be withheld by SCCL till such time the invoice is uploaded in the GSTN Portal.	1.Time limit for GSTR-1 has been amended to 11 the of succeeding month. In below clause it is mentioned as 10th.This need to be amended.	Contractual	10th or any other date as notified by government.
63	GCC	59	85	In general payment of final bill shall be made to Contractor within 60 days of the submission of bill on joint measurements, after completion of all the obligations under the Contract against the final completion.	Please check , bills will be processed within 60 days from submission of bills as per below clause. If that is case will have impact on cash flows. Try to get 30 days processing clause.	Contractual	Provisions of the Bidding documents shall prevail
64	Section-VII	10	1.3.7	Each PV Module shall be provided a bar code which is embedded inside the module lamination and must be able to withstand harsh environmental conditions. The bar code data base shall contain the following information. Bar code scanner and database of all the modules containing the following information shall also be provided.	As per MNRE's guidelines, the data required under this clause are to be provided in RFID tag. RFID reader and its software can be provided to read the data. Hence, request to accept RFID-based solution instead of barcode-based.	Technical	Terms & conditions of the tender document will prevail.

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Clarifications to Queries raised during Pre-Bid Meeting

65	Section-VII	267	15.2.1	The SCADA System shall be built over Industrial IoT architecture with integrated Analytics, secure web access, enterprise software and Database.	SECI may pl provide list of IOT based SCADA software vendors for our reference who will meet requirements as specified in the tender document.	Technical	SECI cannot share any vendor list. Same solutions provided in earlier projects.
66	Section-VII	268	15.2.7	A server running SCADA & Monitoring Software shall be configured in parallel with Plant Server to enable easy access to plant data from outside the plant without having to login to plant server. Effectively, the plant data shall be replicated in both places i.e. between systems at the Plant Server and Remote Server to provide data redundancy for critical plant data.	The remote server here is same as Owner designated server in various clauses 15.1.3, 15.2.7 and 15.2.9?? Plant data is getting replicated in the Owner designated server also to provide data redundancy for critical plant data. In order to have clarity on requirements, block architecture diagram to be provided.	Technical	Yes the HQ server/remote server is the same as Owner designated Server in Clauses 15.1.3, 15.2.7 and 15.2.9
67	Section-VII	267	15.2.2	Data acquisition shall be distributed across MCR and LCRs while plant level data aggregation shall be done in both local and remote server (as specified by Owner).	This Owner specified server is same as specified in 15.2.7 at SCCL HQ in Hyderabad??	Technical	Yes
68	Section-VII	267	15.1.3 (viii)	Transfer of plant data reliably, to an Owner designated server	This Owner designated server is same as specified in 15.2.7 at SCCL HQ in Hyderabad??	Technical	Yes
69	Section-VII	268	15.2.7	A server running SCADA & Monitoring Software shall be configured in parallel with Plant Server to enable easy access to plant data from outside the plant without having to login to plant server. Effectively, the plant data shall be replicated in both places i.e. between systems at the Plant Server and Remote Server to provide data redundancy for critical plant data.	There are two projects of 11 & 23 MW capacity. At SCCL HQ, it is recommended to provide one Server suitable to store data for these 2 projects combined together which is possible due to high end specifications of the server available in the market. For 2 projects, different logins will be created to provide access to the concerned SCCL engineers. This approach will save SCCL from providing larger space, more power supply, O&M staff at their HQ. SCADA vendor will decide if any capacity increase is required in the SCCL HQ remote server to store data of above projects as per tender requirements.	Technical	Data from all sites shall be stored on one server only.
70	Section-VII	270	15.4.10	Connectivity shall be provided to Owner's Data Monitoring Centre..	Where is this Owner's Data Monitoring Centre located??	Technical	Hyderabad
71	Section-VII	272	15.9.2	Accessories :Intelligent UPS (on line): Minimum 2 hour battery backup.	Plant server and OWS will be fed from Main Control Room UPS. Separate UPS is not recommended.	Technical	Terms & conditions of the tender document will prevail.
72	Section-VII	272	15.9.2	Operating System	Plant server will have operating system and database compatible to the SCADA software being proposed for plant, because softwares performances are linked with specific Server PC models, operating system and databases.	Technical	Please refer S. No. 4 of Amendment-1
73	Section-VII	410	2.2	Grid outage hours shall be subtracted from total number of hours in a year. The Contractor shall submit grid outage certification from competent authority of STU/DISCOM.	STU/DISCOM certification for grid loss hours may be practically difficult. Please amend the clause to competent authority of STU/DISCOM/SCCL/SECI.	Technical	Terms & conditions of the tender document will prevail.

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Clarifications to Queries raised during Pre-Bid Meeting

74	Section-VII	General		Plant layout	Please share the Auto CAD of the proposed land for understanding the area available, contour map, Boundary coordinates etc.,	Technical	Please find attached the Auto CAD layout for sites
75	Section-VII	101	32.1.3	In the matter of connectivity of Plant to DISCOM's substation, the Owner will take the necessary connectivity permission, however, all the other permissions and clearances as deemed required by the State Agency/DISCOM for Bay allocation, technical/regulatory compliance for interconnection, ROW etc are to be taken by the Contractor.	Kindly inform if there are any ROW issues for laying of Tx line.	Technical	Definitely there will be ROW issues, and to be settled by EPC contractor at the time of laying the transmission line. ROW is the responsibility of the EPC contractor.
76	Section-VII				Also inform the distance of the transmission line which falls under ROW. Bidder may please be facilitated to carry out only works related to solar PV plant and ROW issues if any shall be resolved by M/s. SECI/SCCL	Technical	To be studied by EPC contractor to have exact idea before bidding. SCCL will not interfere in the matter of ROW under any circumstances.
77	Section-VII	225	B1.1	Certification as per IEC, and PV Modules used in the grid connected solar power projects shall be registered with BIS and bear the Standard Mark as notified by the Bureau of Indian Standards.	BIS registration & Standard Mark on module as notified by the Bureau of Indian Standards are being done only if Solar PV module are tested as per IS standards (like IS 14286, IS/IEC 61730-1 & 2) not for the test done as per IEC standard mentioned in this clause. There are contradiction within the certification requirement & BIS marking in Module. We will provide certification as per latest IEC standard instead of BIS registration (as per IS standard) and BIS marking. However if customer require BIS registration (as per IS standard) and BIS marking can be given instead of IEC certificates. Kindly Clarify	Technical	Terms & conditions of the tender document will prevail.
78	Section-VII	229	1.6.6	Current binning of modules shall be employed to limit current mismatch of modules. Different colour codes shall be provided on the modules as well as pallet for identification of different bins. Maximum three nos. of bins will be allowed for each module rating	BHEL does binning as per each five wattages band by our automated packing machine instead of current binning. The same is followed for all our executed projects. Kindly accept.	Technical	Terms & conditions of the tender document will prevail.
79	Section-VII	General		Soil resistivity	Please provide the soil resistivity to be considered by bidder for tender estimate purpose.	Technical	Soil testing to be in the scope of EPC contractor
80	Section-VII	General		Bore well with pump	Please furnish the level of underground ground water from NGL for installation of Bore Well. Please furnish scheme or P&IDs. Further, taking permission of digging bore well in the SPV area shall lies with owner. Kindly confirm.	Technical	It is not available with SCCL. Permissions if any required to establish solar plant are in the scope of EPC contractor.

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81	Section-VII	304	22	No. of Cameras	As per the referred clause, Number of cameras will be finalised by customer during execution of the project. However, Bidders proposal is that , in case during execution, customer requirement exceeds the bidders estimated BOQ then in such case unit rate shall be applicable. kindly confirm.	Technical	Terms & conditions of the tender document will prevail without any additional cost. Please refer Clause 22.1 of TS for details.
82	Section-VII	General		Type test charges	Valid type test certificates (less than 10 years old) shall be submitted during detailed engineering stage. Type test shall be conducted only if valid type test certificates are not available. Type test charges are not accounted at this stage, same shall be charged to customer during execution time if type test shall be required for any supplied equipment. This is inline with the type test requirements of Equipments indicated in bid specification. Customer may please confirm.	Technical	Terms & conditions of the tender document will prevail.
83	Section-VII	General		Topography Report & Contour map	Please furnish the topographical survey of the area to estimate the site levelling works and natural slope for drain works.	Technical	The contractor are responsible for detailed Topographical Survey of the proposed project site.
84	Section-VII	General		Soil Investigation report	Please furnish Soil Investigation report.	Technical	The contractor are responsible for detailed Geo-technical investigation of the proposed project site.
85	Section-VII	310	25.3	The ROW for the TL/UG cable shall be obtained prior to the construction of the line from the concerned authorities	Please clarify scope. Is there any private land through which the evacuation line has to be constructed?	Technical	There may be some private properties along the evacuation lines.
86	Section-VII	335	13.25	Modules shall be clamped or bolted with the structure properly. The material of clamps shall be Al / SS – 316 having weather resistant properties. Clamp/bolt shall use EPDM rubber and shall be designed in such a way so as not to cast any shadow on the active part of a module	Please specify if the PV-Modules have to be Clamped and Bolted both to the structure?? Also use of EPDM may be waived off as it may not last for 25 years in outdoor condition.	Technical	Modules shall be clamped or bolted with the structure properly. Terms & conditions of the tender document will prevail.
87	Section-VII	334	13.7	The minimum thickness excluding anti corrosive treatment (BMT) of various elements of MMS structure shall be as following: • Stub/ column – 3.15mm, Rafter – 2.5mm & • Purlin & other members – 2.0mm	The thickness of MMS members to be arrived as per design calculations. Suggested thickness-(Column - 2.5mm,Rafter -2.0mm and Purlin-1.6mm)	Technical	Terms & conditions of the tender document will prevail.
88	Section-VII	335	13.23	Fasteners and washers to be used for erection of mounting structures and those for fixing Module over MMS shall be of stainless steel grade SS 304 & SS 316 with property class A-70 conforming to relevant ISO standard and must sustain the adverse climatic conditions to ensure the life of the structure for 25 years.	Please specify the grade of stainless steel fasteners for Mounting Structure has to be SS304 and for PV Module fastening has to be SS316. For the above case grade of SS304 has to be A2 and SS316 has to be A4 . Please confirm.	Technical	Fasteners and washers to be used for erection of mounting structures and those for fixing Module over MMS shall be of stainless-steel grade SS 304 with property class A2-70 & SS 316 with property class A4-70 conforming to relevant ISO standard and must sustain the adverse climatic conditions to ensure the life of the structure for 25 years.

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89		General		General	If delay from scheduled completion is on account of employer, then any statutory variation beyond stipulated Delivery/ Commissioning/Completion schedule shall be to customer's account.	Technical	Agreed
90	Section-V	151	10	Interest bearing adjustable initial advance (OPTIONAL) of 10% of the Contract Value (i.e., total sum of all the Supply Contract) shall be released to successful bidder upon receipt of unconditional acceptance of NOA	We request to give interest free advance. Kindly accept. We request to submit unconditional Bank Guarantee for 100% of advance amount. Kindly accept.	Technical	Terms & conditions of the tender document will prevail.
91	Section-VII	228	1.4.3	Warranty: The above warranties shall be backed by third party insurance.	We kindly request you to also accept the provision of providing Bank Guarantee also for the solar PV modules warranty as accepted in all other tenders.	Technical	Terms & conditions of the tender document will prevail.
92	Section-III (BDS)	65	13	State of which stamp paper is required for Contract Agreement: Telangana	We kindly request you to keep the choice open for using stamp paper from any state for contract agreement. Please accept	Technical	Terms & conditions of the tender document will prevail.
93	Section-V	146	3.1	Issue of NOA/LOA/LOI as zero date	We kindly request you to accept that zero date or effective date should be the date of handover of complete encumbrance free land to the successful bidder not the issue of NOA	Contractual	Provisions of the Bidding documents shall prevail
94	Section-VII	328	11.2	No foundation for MMS, buildings, switchyard equipment and structures, sub-stations, HT line towers, transformers, etc. shall rest on filled-up ground. However, minor structures like cable trench, cable rack, pipe pedestal, etc. may rest on filled-up soil with max. safe bearing capacity for design considerations not more than 3 T/Sqm.	Foundation over the filled up soil of 95% consolidation may be allowed.	Technical	Provisions of the Bidding documents shall prevail
95	Sec+D42+C38	318	5.4	The contractor is responsible for making the site ready and easily approachable by clearing bushes, felling of trees (mandatory permissions/ licenses/ statutory clearances from competent authorities if required for cutting of trees, blasting or mining operations, disposal of waste material etc. shall be obtained by the contractor), cutting, filling with selected excavated earth or borrowed earth including identifying borrow areas	We kindly request you to consider the tree cutting in SECI or SCCL scope. However if the bidder is responsible for it then we request SECI-SCCL to obtain the permission from Forest dept. Please confirm	Technical	Terms & conditions of the tender document will prevail.
96	Section-VII	232	4	Power Conditioning Unit	Kindly confirm whether string inverter/ Containerised PCU is acceptable	Technical	String inverters/ containerised PCU are acceptable. May kindly note that Power Conditioning Unit shall be outdoor type as per clause no 1.3.1 of section-VII C. special technical specification.
97	Section-VII	338	16.1.2	Unless otherwise specified elsewhere, all buildings and plinth for open installations except Security room/ cabin shall have RCC framed structure. Masonry partition walls shall be provided for Kitchen, Pantry, Battery room and Toilet units. For other rooms AL Glass partitions shall be provided. The plinth for open installations and equipment area shall be designed with OEM requirements. The security room/ cabin(s) shall be of prefabricated structure.	PEB control room and PEB LCR(inverter room) may be allowed to expedite the work as RCC buildings take a lot time and considering the completion time, it is feasible to allowed PEB inverter and control room. Same is accepted in other tenders also.	Technical	Kindly refer the Special Technical Specification.

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98	Section-VII	352	30.2	Wall and ceiling plaster shall be in cement mortar (CM) 1:6 and 1:3 respectively	Ceiling plaster may not be required if we use fair face ply shuttering. Ceiling plaster will be provided if using steel plate shuttering. Pl. confirm.	Technical	Terms & conditions of the tender document will prevail.
99	Section-VII	353	32.1	The Contractor shall design & provide soak pit and RCC Septic tank for treatment of sewage and waste water from MCR/LCR building and Security room. The septic shall be designed as liquid retaining structure conforming to IS:3370 for design loads as specified under Clause No.35	Septic tank will be constructed with brick work as per IS 2470. Pl. review.	Technical	Terms & conditions of the tender document will prevail.
100	Section-VII	General		Layout	Fencing & peripheral road around occupied land & encroachment land is not the part of EPC scope.Pl. confirm	Technical	Kindly refer the Special Technical Specification.
101		General		Price BID	The rate of Safe-Guard Duty is not fixed and varies with time. SECI may indicate the month in which the LOA shall be placed enable Bidder mention exact rate of Safe-Guard Duty applicable in the Bid. Alternately, SECI to specify the % SGD to be considered in the Bid and the value of the Module price for bringing parity among bidders and then adjust the Bid Price with actual rate of SGD applicable after 1/3rd time of LOA to arrive at the Contract Price at the time of releasing LOA.	Contractual	Bidders are required to use their own diligence & discretion while applying the SGD
102		General		Payment to MSMEs	Purchaser to make registration of Bidders on the Trade Receivables Discounting System (TReDS) platform (www.rxil.in) compulsory for all Bidders to bring parity among bidders and ensure adherence to Govt Policies.	Contractual	SECI is registered on TReDS. MSME bidders may also be registered for the payment purposes as per their convenience.
103		General		Techno Commercial Bid Opening	In line with Guidelines of transparent bid opening procedure participation in techno-commercial Bid opening may be made OPTIONAL to be Bidders.	Contractual	It's an online bidding system. Respective bidders are always a part of the Techno-Commercial bid opening process from their respective online logins at the ETI Platform.
104		General		Price Bid Opening	In line with Guidelines of transparent bid opening procedure participation in techno-commercial Bid opening may be made OPTIONAL to be Bidders.	Contractual	It's an online bidding system. Respective bidders are always a part of the price bid opening process from their respective online logins at the ETI Platform. SECI also sends mail intimation for the online opening of the price bids of the respective Techno commercial qualified bidders.

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105		General		Bank Guarantee	<p>The Bank Guarantee shall be issued by the Bank in the city from where the BG is issued and any notice of its appropriation shall be valid if the notice reaches the Bank within the specified date. Hence, any action on the Bank Guarantee is valid only if it happens in the city from which the Bank Guarantee is issued. Hence, applicability of stamp duty at SECI (Employer address) or SECI Site is not applicable.</p> <p>However, if SECI desires that the notice of appropriation shall be issued by SECI HQ / SECI Site to the nearest branch of the bank, SECI to inform the city / district where the BG notice should be applicable so that necessary arrangement in the BG shall be made. The specific clause that will be required to be inserted in the BG for making such a notice valid, will be taken up with the bank and informed to Employer to take necessary decision regarding amendment of the ITB once the clarification to above is received.</p>	Contractual	Provisions of the Bidding documents shall prevail
106		General		Compliance to Public Procurement (Preference to Make in India), December Order 2018 and its Amendment, if any. This Office Memorandum is mandating use of 100 % indigenous solar modules for grid connected solar power projects	Purchaser to specify that compliance to this Order is compulsory for all Bidders, since it is not mentioned in the Tender Specifications.	Contractual	Provisions of the Bidding documents shall prevail
107					Purchaser to relax any specifications which restricts Bidders to adhere to this Order.	Contractual	Provisions of the Bidding documents shall prevail
108					We request SECI-SCCL to consider this and may grant permission to bidders to procure PV modules from outside India to ensure immunity to bidders for any scrutiny from statutory authorities at a later date	Technical	Terms & conditions of the tender document will prevail.
109	Section-VII	253	7.8.2	LT cable (from inverter to inverter transformer) shall laid through RCC cable trench with supports.	We kindly request you to accept PCC trench instead of RCC as this will consume a lot of time and with time line of just 9 months, it is feasible to allow PCC trench as same is allowed in other tenders.	Technical	Terms & conditions of the tender document will prevail.
110	Section-V	148	5	CPBG submission	We kindly request to allow the bidder to submit CPBG within 30 days from the date of handing over of encumbrance free land to successful bidder instead of issuing of NOA	Contractual	Provisions of the Bidding documents shall prevail

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Clarifications to Queries raised during Pre-Bid Meeting

111	Section-V	148	5	<p>First Stage (Supply and Services): The value of the Contract Performance Security shall be 10% of the Contract Value and will remain valid 72 months from date of issuance</p> <p>Second Stage (O&M): The Performance security shall be furnished 30 days prior to completion of first 05 years of O&M and value of the Contract Performance Security shall be 05% of the Contract Value</p>	<p>We kindly request you to accept CPBG-1 of 5% of contract value excluding O&M charges with validity up to Defect liability period as the O&M will be started after operational acceptance and bidder will be providing separate BG for that.</p> <p>We also request you to accept CPBG-II for O&M with amount of 10% of O&M value with initial validity of one year which will be extended from time to time and value will be reduced after completion of each year O&M as allowed in other tenders.</p>	Contractual	Provisions of the Bidding documents shall prevail
112	Section-IV	81	1.1.31	<p>EFFECTIVE DATE means the date of issuance of Notification of Award from which the Time for Completion shall be determined or any other specific date as provided in the Notice to Proceed(NTP) for exceptional cases</p>	<p>We kindly requested you that effective date should be considered as date of handing over of complete encumbrance free land to bidder and subsequently zero date and date of completion to be changed accordingly as there have been instances where NOA has been awarded but land has been awarded at a later stage.</p>	Contractual	Provisions of the Bidding documents shall prevail
113	Section-IV	86	5.1	<p>The right to accept the Tender will rest with the Employer/ Owner. The Employer/ Owner, however, does not bind himself to accept the lowest Tender, and reserves to itself the authority to reject any or all the Tenders received without assigning any reason whatsoever. At the option of the Employer/ Owner, the work for which the Tender had been invited, may be awarded to one Contractor or split between more than one bidders.</p>	<p>We kindly request to waive off this clause as this doesn't guarantee that project will be awarded to the L-1 bidder.</p>	Contractual	Provisions of the Bidding documents shall prevail
114	Section-IV	93	19	Force Majeure	<p>We kindly request to include local disturbances and public outrage to be included in the force majeure events.</p>	Contractual	Provisions of the Bidding documents shall prevail
115	Section-IV	94	19.7	<p>If works are suspended by Force Majeure conditions lasting for more than two months, the Employer/Owner shall have the option of cancelling this Contract in whole or part thereof, at its discretion.</p>	<p>We kindly request you to waive off this clause.</p>	Contractual	Provisions of the Bidding documents shall prevail
116	Section-IV	97	25.3	<p>Termination for Convenience</p> <p>The Owner may, by written notice sent to the Contractor, terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Owner's convenience, the extent to which performance of work under the Contract is terminated, and the date upon which such termination becomes effective.</p>	<p>We kindly request you to waive off this clause as reason for termination should be on some valid ground like on grounds of EPC bidder not following specifications not because of customer convenience.</p>	Contractual	Provisions of the Bidding documents shall prevail
117	Section-IV	94	20	<p>Liquidated damages for Delay</p> <p>half percent (0.5%) per week of the Contract Price for the whole of the facilities as liquidated damages</p>	<p>We kindly request you to amend the clause as 0.5% per week of the Contract Price (excluding O&M) for the uncommission portion as liquidated damages. Kindly accept</p>	Contractual	Provisions of the Bidding documents shall prevail

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Clarifications to Queries raised during Pre-Bid Meeting

118	Section-IV	130	81.1.4	Owner shall make all endeavour to make payments of undisputed amount of the bills submitted based on the joint measurements within 30 (Thirty) days from the date of certification by the Engineer-in-Charge/Project Manager.	We kindly request to reduce the date of payment from within 30 days to within 15 days from the date of certification as this is short term project and payment to be made as quick as possible for more workers to rope into the project and maintaining delivery schedule.	Contractual	Provisions of the Bidding documents shall prevail
119	Section-IV	130	81.1.4		Also please mentioned if there is penalty clause in case payment is not made within 30 days. Kindly include the clause suggesting if the payment is not made within 30 days then the payment along with the interest will be given by SECI-SCCL to the contractor	Contractual	Provisions of the Bidding documents shall prevail
120		General		Vendor Approval for Works	Kindly inform if any vendor approval for works is required	Technical	No except for Geo-technical investigation.
121	Section-VII	211	4.1.19	Mandatory spares as per Annexure-D for each package	Annexure-D is not provided with the tender documents. Kindly specify the list of mandatory spares excluding modules to be provided by the bidder.	Technical	List of mandatory spares for each site is provided in Annexure-D. Kindly refer theAnexure-1 to Amendment-1.
122	Section-IV	116	58.4	All the spares, as required for the trouble-free comprehensive O&M of Plant, must be kept under secure storage during O&M period.	Kindly confirm if these are additional spares other than the mandatory spares or same. Also kindly mentioned the list of the these spares if different from mandatory spares	Technical	List of mandatory spares for each site is provided in Annexure-D. Kindly refer theAnexure-1 to Amendment-1.
123	Section-VII	General		Sub-Vendor List	No specific vendor list is being provided in the tender. Kindly inform whether bidder can proceed with their PMD vendors for raw material and bought out items.	Technical	Yes, bidder can proceed with their vendors for raw material and bought out items.
124	Section-IV	101	32.1.3	In the matter of connectivity of Plant to DISCOM's substation, the Owner will take the necessary connectivity permission, however, all the other permissions and clearances as deemed required by the State Agency/DISCOM for Bay allocation, technical/regulatory compliance for interconnection, ROW etc are to be taken by the Contractor. Statutory fees pertaining to such shall be reimbursed by the Owner on production of the documentary evidence/Demand note over and above the contract value. Further, Contractor shall also facilitate Owner in getting the required permissions/agreements as required for the energy accounting by State agencies/DISCOM.	We infer that that this project will be set up for captive Purpose. Kindly clarify what approvals are required to be taken by the contractor.	Technical	Yes project will be set up for captive use of SCCL only. All other approvals required as per Telangana State Solar Policy -2015 to be adhered and approvals to be taken by EPC contractor only.
125	Section V	148	6	However, where value of BG is Rs.5 lakhs and above, the BG should be obtained from the bank branches situated at Hyderabad / Kothagudem or operative and payable at bank branches situated at Hyderabad/ Kothagudem.	This may not be possible for the contractor to get the BG issue from Branches of Hyderabad only, we request SCCL to accept BG from banks as mentioned in the tender from any branches.	SCCL	Terms and Conditions of the Tender Document Prevail

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Clarifications to Queries raised during Pre-Bid Meeting

126		SOR-2		O & M Charges on YoY basis must be in equal or in ascending order only.	O&M Charges my differ on YoY, pls allow bidders to assume O&M value as per their discretion.	Contractual	Provisions of the Bidding documents shall prevail
127	Section-IV	213	6.1.1	All statutory approvals/permissions and/or No Objection Certificates (NoC) etc. from the DISCOM for obtaining connectivity at the substation as per Project Particulars provided above.	The is contradiction in two clauses, we infer that SCCL will take grid connectivity permission.pls confirm.	Technical	SCCL will take only the grid connectivity approvals, the remaining other approvals are to be obtained by EPC contractor only.
128	Section-IV	101	32.1.3	In the matter of connectivity of Plant to DISCOM's substation, the Owner will take the necessary connectivity permission		Technical	SCCL will take only the grid connectivity approvals, the remaining other approvals are to be obtained by EPC contractor only.
129		GENERAL		Revised clarification after site visit	Due to lockdown in the country till 14th April, we are unable to do site visit. we request SECI/SCCL to allow to allow to submit revised clarification after site visit and also extend the pre-bid meeting and bid submission date accordingly	Contractual	Bid submission date is extended, keeping 2 weeks from the extended lock down period i.e., 03.05.2020
130	Section-IV	84	2.3	Construction Water Supply	We request you to provide water free supply during execution and O&M Period	Technical	Kindly refer the Special Technical Specification.
131	Section-IV	84	2.4	Construction Power Supply	We request you to provide power free supply during execution and O&M Period	Technical	Terms & conditions of the tender document will prevail.
132	Section-IV	133	94	During the Contract period including O&M period, i.e., during Construction & O&M period, all insurance related expenses shall be borne by the Contractor.	As per norms & rules, During construction period all insurances shall be borne by bidder During O&M period all insurances shall be borne by you/Owner as per the IRDA rule	Contractual	Provisions of the Bidding documents shall prevail
133		GENERAL		Equipment Warranties	We shall provide Warranty/Guarantee period for all equipment's as per the OEM's recommendations.	Technical	Terms & conditions of the tender document will prevail.
134	Section-VII	322	8	Boundary wall/ Fencing	Please confirm if boundary wall is in the scope of SCCL	Technical	Kindly refer the Special Technical Specification.
135	Section-V	150	7.0	LD for PR Test For every 0.01 shortfall in PR below the committed PR value, a penalty of 1% of the total Contract Value (i.e., total sum of all the Supply, Service and absolute value of O & M Contract) shall be levied. In case the Contract Performance Security has already been encashed on account of any default/delays, the penalty amount will be recovered from any due payments to the contractor. In case the Plant PR Shortfall is more than 0.05 than the specified PR value, then the total plant will be accepted on as-is basis & the total Contract Performance Security submitted by the contractor will be forfeited & payments linked to operational acceptance will not be made.	We kindly request to review the penalty clause and reduce the penalty to 0.5% of Contract price excluding O&M without encashment of CPBG	Technical	Terms & conditions of the tender document will prevail.

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Clarifications to Queries raised during Pre-Bid Meeting

136	Section-VII	224	2.70	The designed array capacity at STC shall be suitably determined to meet the proposed guaranteed generation output at the point of interconnection by the contractor in his bid. The contractor shall take care of first year degradation also by installing additional DC capacity as the CUF calculations will not factor the first-year degradation of the modules.	Kindly confirm that CUF of 20% is to be maintained for 10 years of O&M by installing additional DC (if required)	Technical	Yes. Please refer Clause 2.2 of Annexure C for details.
137	Section-IV	131	85	Payment due to the Contractor shall be made by the Owner either by e-Banking or by Account Payee Cheque	We kindly request that "The Employer will establish an irrevocable Letter of Credit (L/C) in favour of the Contractor through the Employer's Bank in Employer's country for payments due for Supply" Kindly confirm	Contractual	Provisions of the Bidding documents shall prevail
138	Section-IV	120	70	The Contractor shall not be entitled to claim compensation for any loss or damage sustained by him by reason of temporary suspension of the Works aforesaid. However, suitable time extension may be considered at the sole discretion of the owner.	We kindly request that Compensation to be provided to the contract in addition to the time extension if work is suspended by EIC temporarily.	Contractual	Provisions of the Bidding documents shall prevail
139	Section-VII	206	1	132 kV/33 kV TSTRANSCO substation, Manthani 132 kV/33 kV TSTRANSCO substation, Asifabad	Kindly confirm the Substation details (bay availability, available feeders) in the substation. Also if during the execution of the contract, if SECI or SCCL propose new sub-station for evacuation then this calls for Price & Time implication under unforeseen circumstances/Additional Work and SECI-SCCL will bear the cost implication.	Technical	EPC contractor have to visit sites and connecting substations to have better idea about availability of Bays and feeders.
140	Section-VII	334	13.14	MMS shall support SPV modules at a given orientation & tilt and shall absorb and transfer the mechanical loads to the ground properly	Kindly confirm whether fixed tilt & n seasonal tilt, both are acceptable	Technical	The modules shall be fixed in landscape orientation with fixed tilt along the length of the array.
141	IFB	3 of 10	7	Interested bidders have to necessarily register themselves on the portal https://www.bharatelectronicstender.com through M/s Electronic Tender.com India Pvt Ltd (ETI), New Delhi to participate in the bidding under this invitation for bids.	Please clarify that, i. consortium Bids can be submitted/uploaded by any member of consortium or by lead bidder only ii. All members registration with ETS portal is required or not.	Contractual	i. consortium Bids can be only be submitted/uploaded by the lead bidder ii. No. Only lead bidder registration is required with ETS as he is submitting the bid on behalf of the consortium. Bidder are required to refer the "Annexure to BDS" section for acquiring more information about JV/Consortium.
142	SCC	2 of 12	3	The Time for Commissioning for the cumulative capacity of 32 MW OB Dump based Solar PV Power Plant at 02 different sites along with other associated equipment as per this tender document in total shall be 12 (Twelve) Months from the Date of the Notification of Award NOA/LOA/LOI	Considering present delivery schedule of various components (including DCR category module) we request you to extend project commissioning period as 15 (Fifteen) Months for individual site locations from the date of the handing over of site to the bidder	Technical	Terms & conditions of the tender document will prevail.

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Clarifications to Queries raised during Pre-Bid Meeting

143	BDS	2 of 6	4	Bids from Consortium/ Joint Venture are ALLOWED	If lead bidder is qualifying 100% technical and financial criteria and interested to participate with partner as consortium for ease of project execution (especially financial area), In that case any minimum qualification criteria for consortium partner is required or not?	Contractual	Kindly refer Section "Annexure to BDS" for the same.
144	SCC	4 of 12	5	Contract Performance Security	Kindly confirm that Contract performance security (BG) from any of the JV/Consortium partner will be acceptable to you	Contractual	No. By the lead bidder only. However, as per the JV/Consortium agreement, all the partners will be jointly & severally responsible for the project.
145	SCC	4 of 12	6	<p>Contract Performance Security</p> <p>1. First Stage (Supply and Services): The value of the Contract Performance Security shall be 10% of the Contract Value (i.e., total sum of the Supply & Service Contract). This Performance security will be valid for a total period of 75 Months (12 Months Project commissioning period) + first half of the prescribed O & M Period, i.e. 60 Months + 03 Months additional) from the date of its issuance.</p> <p>2. Second Stage (O&M): The Performance security shall be furnished 30 days prior to the completion of first stage Performance Security & it shall be equivalent to the 5% of the Contract Value (i.e., total sum of the Supply & Service Contract). This Performance security will be valid for a total period of 63 Months (Second half of the prescribed O & M Period, i.e. 60 Months + 03 Months additional) from the date of its issuance.</p>	<p>We request you to amend this clause as follows:-</p> <p>1. First Stage (Supply and Services):The value of the Contract Performance Security shall be 10% of the Contract Value (i.e., total sum of the Supply & Service Contract). This Performance security will be valid till commissioning of plant. (Project commissioning period + 3months Additional)</p> <p>2. Second Stage (O&M): The Performance security during O&M period shall be furnished 30 days prior to the completion of first stage Performance Security & it shall be equivalent to the 5% of the Contract Value (i.e. O&M Contract). This Performance security will be valid for a total O&M period of 10 yrs + 03 Months additional from the date of its issuance. This will be revolving BG initially valid for 1 year and renewing every year till the completion of O&M period.</p>	Contractual	Provisions of the Bidding documents shall prevail
146	General			warranty / guarantee period	Warranty/Guarantee period for all equipment's shall be as per the OEM's recommendations.	Contractual	Provisions of the Bidding documents shall prevail
147	GCC	22 of 72	20	<p>Liquidated Damages (LD)</p> <p>20.1 Subject to Force Majeure Clause, if the Contractor fails to comply with the Time for Completion /successful commissioning of Plant facilities in accordance with SCC Clause then the Contractor shall pay to the Owner a sum equivalent to half percent (0.5%) per week of the Contract Price for the whole of the facilities as liquidated damages for such default and not as a penalty, without prejudice to the Owner's other remedies under the Contract subject to the maximum limit of five percent (05%) of Contract Price for the whole of the facilities</p>	Kindly confirm that, Liquidated Damages for delay in commissioning (0.5% per week) will be on undelivered portion of the contract	Contractual	Provisions of the Bidding documents shall prevail

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Clarifications to Queries raised during Pre-Bid Meeting

148	SCC	7 of 12	10	Schedule of Rates & Payments	We request you to provide, Interest free 10% advance payment against submission of BG. This will be applicable till contractual execution period, there after option will be there to charge interest	Contractual	Provisions of the Bidding documents shall prevail
149	General			Price Preference policy	Kindly confirm that, after reverse bidding price preference benefit to match L1 bidder price will be allowed to MSME bidders as per GOI rules.	Contractual	Provisions of the Bidding documents shall prevail
150	SOW	3 of 14	1	Cells and Modules to be manufactured in India	Kindly confirm that MNRE registered cell & module manufactures will be acceptable to you.	Technical	Terms & conditions of the tender document will prevail.
151	SOW	7 of 14	4.1.12	ABT meters (Main, Check and standby) with all necessary metering rated CT's and PT's at the plant take off point as well as at the substation	Kindly confirm metering point location at plant take off side or connecting substation end	Technical	At both the locations i.e. plant take off point and evacuating substation side.
152	TS	93 of 146	25	Power evacuation system	Kindly confirm that, i) All charges for statutory approvals/ grid connectivity Approval will be reimburse by you against documentary proof. ii) ROW for approach road and transmission line needs to be reimburse by you. We will negotiate with parties along with your representative. iii) Bay extension at connecting substation is in bidder's scope or not. If yes, please provide exact scope of work to be done iv) Provide Transmission Line Route details v) All other facilitation will be in bidder's scope	Technical	i) The statutory charges will be reimbursed against documentary proof. SCCL will take the grid connectivity approval. ii)The complete charges (fees and compensation, if any) in respect of ROW for approach road and transmission line have to be borne by EPC contractor only. No reimbursement in this regard from SCCL. iii) Bay extension is under bidder scope and bidder has to make site visit and take approvals from TRANSCO/NPDCL. iv) Route survey is in the scope of EPC contractor. v) The bidder have to apply for approvals through SCCL on its letter heads with HOD signature. Bidder has follow up with the concerned authorities to get necessary approvals.
153	TS	101 of 146	5.4	The contractor is responsible for making the site ready and easily approachable by clearing bushes, felling of trees (mandatory permissions/ licenses/ statutory clearances from competent authorities if required for cutting of trees, blasting or mining operations, disposal of waste material etc. shall be obtained by the contractor),	We understand that, 1. Necessary permissions and Clearance for vegetation (i.e. Bushes, small plants, tree cutting, shifting etc.) shall be arranged by owner 2. Shifting of existing lines passing through the sites and necessary permissions for the same if needed, shall be arranged by owner.	Technical	Terms & conditions of the tender document will prevail.
154	GCC	61 of 72	94.1	Insurance During the Contract period including O&M period, i.e., during Construction & O&M period, all insurance related expenses shall be borne by the Contractor	As per the IRDA norms, During construction period all insurances shall be borne by bidder During O&M period all insurances shall be borne by owner of plant. The insurance to cover workman will be taken care by the contractor.	Contractual	Provisions of the Bidding documents shall prevail

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155	Section - IV	61 of 72	94.1	The goods supplied under the Contract shall be fully insured against the loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in such a manner that Owner shall not incur any financial loss, as long as the plant continues to remain under the custody of the Contractor. During O&M period also (after the Construction period is over), the insurances shall be in the scope of the Contractor.	Insurance Policy is in the name of the beneficiary i.e. SCCL and hence shall take & maintain the Insurance Policy, as per the terms desired including loss of profit, from the date of Commissioning. However, Contractor will take Insurance Policy for their Manpower & Machinery of their part.	Contractual	Provisions of the Bidding documents shall prevail
156	GCC	8 of 72	1.1.22	COMMISSIONING means a project shall be considered commissioned if all equipment as per rated capacity, mentioned under the scope of contract, has been installed and energy has flown into grid.	Kindly confirm that, site wise part-commissioning and operational acceptance will be allowed by you. Accordingly, respective milestone payments will be released to the contractor.	Contractual	No
157	General			Site Visit	<p>Due to current lockdown period imposed by government we are unable to do site survey and due diligence. If any queries found after actual site survey shall be submitted to you for necessary clarifications</p> <p>We would request for assistance to be provided during the Site Visit especially for the Land demarcation, approach to the Land from State/ National Highway, Receiving end Substation location and proposed Right of Way for the Transmission Line from Plant Substation, availability of Power & Water for the Construction purposes.</p> <p>We would request for intimating bidders a date/ slot of dates for the Site Visit for all Contractors preferably before the Pre-bid Meeting.</p>	Technical	Site visit can be planned after confirming with site officials. SCCL will show the solar plant site evacuating substation etc. The contact persons list is attached in contact number sheet of this excel sheet.
158	Section - I	8 of 10	Bid Information Sheet (H)	Pre-Bid Meeting 1100 HRS (IST) on 02/04/2020	Due to Nationwide Lockdown till 14th April 2020, kindly propose alternate date & venue with fortnight notice to attend.	Contractual	The Pre Bid queries are getting addressed vide these clarifications.
159	Section - I	9 of 10	Bid Information Sheet (I)	Off-line & On-line Bid Submission Deadline is 22/04/2020 up to 1400 HRS	Kindly extend the bid submission date by 4 weeks from the date of uploading pre-bid clarifications.	Contractual	The Bid submission deadline have already been extended till 15.05.2020

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Clarifications to Queries raised during Pre-Bid Meeting

160	Section - II	11 of 47	12.1 - SOR/ PS/ Bid Price	Unless stated otherwise in the Tender Documents, the Contract shall be for the whole works as described in Tender Documents, based on the rates and prices submitted by the Bidder and accepted by the Employer/ Owner. The prices quoted by the Bidders should indicate clearly the Goods & Service Tax (GST) components as also mentioned under the SoR.	<p>GST figures in the Column 6 of the Schedule of Rates - SOR 1 and Column 5 of the Schedule of Rates - SOR 2 will be Lump Sum amount.</p> <p>However, break-up of the GST Figures will be submitted with Break-up of Rates for Billing Purposes after award of Contract as defined in Clause No. 34.4.1 (e) - Billing Break-up</p>	Contractual	Question not clear.
161	Section - II	25 of 47	34.4.1	Bidder should invoice separately for components, spare parts etc., consumed for O&M service involved in this contract mentioning their description of goods, HSN, value etc.	SOR-2 (Operation & Maintenance) does not provide separate column for indicating the Price for Components & spares etc. Do bidder requires submitting the same after Award of Contract?	Contractual	No. The O&M payment shall be done on the quarterly Lump Sum (Ls) basis & no separate spare parts invoicing billing is required.
162	Section - II	26 of 47	34.4.2	At least one week prior to e-RA, advance intimation regarding the date and time of the e-RA will be sent to by email to all bidders whose Technical & Financial bids have been opened and found to be qualified. However, from this advance intimation it shall not be construed by the bidders that they have been shortlisted for e-RA.	Kindly clarify whether all JV/ Consortium Partners receive such intimation?	Contractual	No. Only the lead bidder
163	GCC	11 of 72	2.1b - Access Road	Contractor, if necessary, shall build other temporary access roads to the actual site of construction for his own work at his own cost. The Contractor shall be required to permit the use of the roads so constructed by him for vehicles of any other parties who may be engaged on the project site. The Contractor shall also facilitate the construction of any permanent roads should the construction thereof starts while he is engaged on this work. He shall make allowance in his Tender for any inconvenience he anticipates on such account. Non-availability of access roads, railway siding and railway wagons for the use of the Contractor shall in no case condone any delay in the execution of work nor be the cause for any claim for compensation against the Employer/ Owner.	SCCL/ SECI shall arrange land for accessing the Project Site without any encumbrances; however, making way for the vehicles will be arranged by the Contractor provided the distance is not exceeding 1 KM. This aspect will be brought to the Notice of SCCL/ SECI after the Site Visit	Technical	Please refer Section VII C: Special Technical Conditions

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Clarifications to Queries raised during Pre-Bid Meeting

164	GCC	12 of 72	2.3 - Construction Water Supply	<p>Contractor will have to make his own arrangements for supply of water to his labour camps and for works. The water quality should be suitable for use in civil construction work. All pumping installations, pipe network and distribution system will have to be carried out by the Contractor at his own risk and cost.</p> <p>Alternatively, the Employer/ Owner at his discretion may endeavour to provide water to the Contractor at the Employer's/ Owner's source of supply provided the Contractor makes his own arrangement for the water meter which shall be in custody of the Employer/ Owner and other pipe networks from source of supply, so as not to interfere with the layout and progress of the other construction works. In such case, a separate accounting shall be maintained for billing purpose on monthly basis. However, the Owner does not guarantee the supply of water and this does not relieve the Contractor of his responsibility in making his own arrangement and for the timely completion of the various works as stipulated.</p>	<p>SCCL/ SECI will provide permission for digging bore well (temporary purpose only) for the Construction period. Contractor will arrange own pumping arrangement for requirement of Water for Construction purposes.</p> <p>However, the arrangement of Water Requirement will be undertaken by SCCL/ SECI. Any pumping required inside the Plant premises will be arranged by the Contractor.</p>	Technical	SCCL will provide required water at bottom of the OB Dump for construction works and maintenance works.
165	Section - IV	12 of 72	2.4 - Construction Power Supply	Contractor has to arrange for the construction power supply of their own. However, subject to availability, Employer/ Owner may provide access to the nearest available point in his location for supply power at only one point, from where the Contractor will make his own arrangement for temporary distribution through a temporary energy meter (sealed by Employer/ Owner).	We will revert after the Site Visit on this issue of Construction Power based on its availability and also procedures for getting the same at Project Site. On need based requirement, SCCL/ SECI may provide us the permission of bringing 11 KV Power to Project Site at one location by discussing with the DISCOM and applying for the same on behalf of the Project	Technical	SCCL will allow if EPC firm bringing the 11 kV power from DISCOM at mutually agreed location. From there utilisation voltage as per CMR can be drawn at utilisation point.
166	Section - IV	13 of 72	2.5 - Land for Contractor's Field Office, Godown and Workshop	The Employer/ Owner will, at his own discretion and convenience and for the duration of the execution of the work make available near the site, land for construction of Contractor's Temporary Field Office, godowns, workshops and assembly yard required for the execution of the Contract.	SCCL/ SECI shall assist Contractor in occupying part of the Project Land for construction of Field Office, Godown and Workshop etc.	Technical	SCCL will hand over the complete site to the EPC contractor. Temporary office etc. can be arranged by EPC contractor.
167	Section - IV	17 of 72	10.2 - Note to Schedule of Rates	The bidder shall be deemed to have studied the Drawings (if any), Specifications and details of work to be done within Time Schedule and to have acquainted himself of the condition prevailing at site	Any Layout Drawing not provided with the Bid Document . SECI may provide AutoCAD Drawing for the same at the earliest	Technical	Please find attached the Auto CAD layout for sites

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Clarifications to Queries raised during Pre-Bid Meeting

168	Section - IV	29 of 72	32.1.1 - Contractor's responsibility	It is Contractor's responsibility to coordinate with state/central agencies in order to get any permission whatsoever, required for successful development & operation of Plant till its desired life.	All permission required for setting-up of the Power Plant and Operation & Maintenance of the same after Commissioning at the location will be taken-up by SECI/ SCCL. However, any permission that may be required for Implementation of the Project by Contractor for its Manpower & Machinery requirement and also for bringing the material to Site and installation of the same will be taken-up by Contractor. PI confirm	Contractual	Provisions of the Bidding documents shall prevail
169	Section - IV	29 of 72	32.1. 2- Contractor's responsibility	The Contractor shall acquire, on behalf of Owner, in the Owner's name, all permits, approvals and/or licenses from all local, state or national government authorities or public service undertakings in the Country/ State where the Site is located that are necessary for the setting up of the Plant & operation of Plant till its desired life as mentioned under the Contract, including, but not limited to, entry permits for all imported Owner's/Employer's Equipment (if any).	Obtaining Permits/ Approvals/ Licenses etc., though documentation required will be given by Owner, might take time and hence may please be considered. Owner will also pay all fees for obtaining Permits/ Approvals/ Licenses etc. on behalf of the Owner.	Technical	Terms & conditions of the tender document will prevail.
170	Section - IV	30 of 72	32.1.7 - Contractor's responsibility	Any plant, material, spares & spares inventory and services that will be incorporated in or be required for the facilities.	SECI may define the requirement of Spares & Spare Inventory to enable all the Bidder quote on same basis.	Technical	Please Refer Annexure 1 to the Amendment No 1
171	Section - IV	30 of 72	32.1.8 - Contractor's responsibility	Unless otherwise specified in the Contract or agreed upon by the Owner and the Contractor, the Contractor shall provide/ deploy sufficient, properly qualified operating and maintenance personnel; shall supply and make available all raw materials, spares, tools and tackles and other materials and facilities; and shall perform all work and services of whatsoever nature, to properly carry out Pre-commissioning, Commissioning and Guarantee Tests, all in accordance with the provisions of "Scope of Works and Supply by the Owner/Employer" to the Contract Agreement at or before the time specified in the program furnished by the Contractor and in the manner thereupon specified or as otherwise agreed upon by the Owner/ Employer and the Contractor.	Central Inverters requires replacement after 5-8 years (depending on the manufacturer even with AMC). Do Bidders consider replacement of all Central Inverters within the Operation & Maintenance period of 10 years? SECI may clarify	Technical	Terms and Conditions of the Tender Document Prevail
172	Section - IV	34 of 72	43.2 - Guarantee Tests & Operational Acceptance and Transfer of Title	The Plant Performance Guarantee (as mentioned in TS) Test shall be conducted by the Contractor after Commissioning of the Facilities to ascertain whether the Facilities or the relevant part(s) can attain the Functional Guarantees specified in the Contract Documents. The Contractor's and Project Manager's advisory personnel shall attend the Guarantee Test. The detailed procedure for Performance Guarantee Test shall be carried out as per procedure laid down in Technical Specifications.	In the event, Plant can not be commissioned due to the reason beyond the Control of Contractor, SCCL/ SECI will consider 'Project mechanical Completion' is completed for its contractual purposes. However, it will be Contractor's responsibility for Commission of the Plant soon the same is possible and execute Operation & Maintenance Work as per the Contract Agreement.	Contractual	Provisions of the Bidding documents shall prevail

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Clarifications to Queries raised during Pre-Bid Meeting

173	Section - IV	37 of 72	45.5	The Contractor shall keep and maintain the inventory of such spares for the hassle-free operation during the complete O&M period without additional cost to Owner. Also, at the end of penultimate year of the O&M contract, Contractor shall supply a list of all recommended spares as per the operational requirement of the plant and with reference to the mean time between failures (MTBF), along with detailed specifications, supplier details and tentative cost for future purchase. The price of such spare parts shall include the breakup of taxes and duties as applicable towards purchase and supply of spare parts. Owner, at its discretion, will purchase the spare as required for future operation. However, the Contractor shall replenish the mandatory spares at his cost prior to the completion of the O&M period.	SECI shall elaborate the requirement. Contractor shall indicate requirement of Spares by OEM for Owner to take a decision for procurement of the same. Owner shall take Annual Maintenance Contract with Inverter/ SCADA/ HT Panel/ Transformer Manufacturer as such services should be excluded from Operation & Maintenance of the Plant during specified 10 years period	Contractual	Provisions of the Bidding documents shall prevail
174	Section - IV	40 of 72	52.2	The Contractor must arrange for the placement of workers in such a way that the delayed completion of the Work or any part thereof for any reason whatsoever will not affect their proper employment. The Owner will not entertain any claim for idle time payment whatsoever.	In the event of work stopped due to direction or no direction from the Owner (Delay in handing over Project Site/ Delay in providing Approval/ Delay in getting Statutory Approvals etc.), progress may hamper and hence compensation claim is tenable	Contractual	Provisions of the Bidding documents shall prevail
175	Section - IV	40 of 72	53.1	The Work covered under this Contract having to be executed by the Contractor on a lump-sum firm price quoted by him, the Owner will not accept any proposals for changes in Value of Contract or extension in time on account of any such changes which may arise to the Contractor's scope of Work as a result of detailed Engineering and thereafter during the execution of Work.	Since the Proposal is based on Bid Level Engineering and the selection of the Equipment & System is based on the Bid Level Engineering, any comment that requires change in the Equipment Specification might lead to Cost implication	Contractual	Provisions of the Bidding documents shall prevail
176	Section-IV GCC	Pg-229		Minimum Wp of module	Minimum Wp of module is Not mentioned. Kindly confirm.	Technical	Kindly refer the Technical Specification Clause No. 1 for PV module specification. As such no min. Watt peak rating is specified in tender.
177	Section-IV GCC	Pg-231	3.5-ii)	The average voltage drop in the cables (Modules to Inverter) shall be limited to 1.5 % of the rated voltage.	Can the volgate drop limit be increased to 2% in the DC side as sometimes the length of the cables are too much to maintain 1.5% voltage drop. Please Confirm.	Technical	Terms & conditions of the tender document will prevail.
178	Section-IV GCC	Pg-252	7.5-iii)	Maximum voltage drop in LT cable (from inverter to inverter transformer) shall be limited to 0.5% of the rated voltage. For HT cables (from inverter transformer to interconnection point), maximum voltage drop shall be limited to 0.5 % of the rated Voltage	Can the volgate drop limit be increased to 3% in the AC side as the injection point may be far away from the Inverter duty Transformers. Please Confirm.	Technical	Please refer the Sr No 10 of Amendment no. 1

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Clarifications to Queries raised during Pre-Bid Meeting

179	Section-IV GCC	Pg-264	13.2	Protection level for the entire plant shall be Level-I.	<p>If Level-1 ESE-LA are used, then more no of Las are required which will lead to more space requirement. Instead, can we go with Level-3 with a radius of 97mtr.</p> <p>Kindly Confirm</p>	Technical	Terms & conditions of the tender document will prevail.
180				Tentative layouts	<p>Requesting SECI to provide tentative layouts of the project.</p> <p>Please share</p>	Technical	to be determined during detailed engineering stage
181	SECTION - VII B. TECHNICAL SPECIFICATIONS	210 & 273		Power Transformer	<p>For power transformer and inverter transformer specs can be finalized at the time of detailed engineering stage to suit the design requirements which can be having deviation for few parameters.</p> <p>Options can be given and allowed for using indoor or outdoor specifications for Inverters and HT panels.</p>	Technical	Terms & conditions of the tender document will prevail.
182					<p>In tender title, its mentioned as OB Dump based, What does it mean?</p> <p>Can you please elaborate.</p>	Technical	OB stands for Overburden. In Open cast mining, coal is extracted by blasting during which a huge amount of waste rock in form of OB is generated. It is dumped to nearby area, generally with a suitable slope to minimise the land requirement.

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