

Amendment - 1

NIT No : SECI/C&P/NIT/2020/SCCL34

Design, Engineering, Supply, Construction, Erection, Testing, Commissioning and O&M of 34 MW (AC) ground 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 vapor (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 microcracks 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 (preferably RedHat Linux or equivalent Linux OS, Oracle/MySQL 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 C PG TEST PROCEDURE	9 of 10	2.2	Capacity Utilization Factor	Refer Annexure 1 to Amendment 1
7	ANNEXURE D MANDATORY SPARES	-	New Clause		List of mandatory spares for each site is provided in Annexure-D. Refer Annexure 2 to Amendment 1.

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8	SECTION - VII B. TECHNICAL SPECIFICATIONS	351	21.4.1 . (v)	(v) Connectivity and Data transmission: .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	v) Connectivity and Data transmission: .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
9	SECTION - VII B. TECHNICAL SPECIFICATIONS	120 OF 140	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.	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. 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	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.
11	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.
12	SECTION - VII B. TECHNICAL SPECIFICATIONS	14 of 140	3.1	Standards and Codes	Refer Annexure 3 to Amendment 1
13	SECTION - VII B. TECHNICAL SPECIFICATIONS	14 of 140	3.3	DC cables shall be single core, armored, 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 3 to Amendment 1
14	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
15	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> $COM = \sum_{n=1}^{15} \left[\frac{((Eg - Ea) / 10) \times C}{(1 + 0.0908)^n} \right]$ <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>	<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.</p>
16	SECTION - VII B. TECHNICAL SPECIFICATIONS	132 of 140	35.1	<p>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/cm² (5 MPa)</p>	<p>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/cm² (0.5 MPa)</p>

Clarifications to Queries raised during Pre-Bid Meeting

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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 - 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	1) 23 MW @ Kothagudem : Connectivity Voltage @ 132 kV to be connected to Seetharamapatnam SS or Chandrugonda SS depends on Connectivity approval: Awaiting the approval from TSTRANSCO (2) 11 MW @ Chennur: Connectivity Voltage @ 33 kV to be connected to Kistampet SS, Chennur. Awaiting the grid connectivity approval from TSNPDCL.
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, 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.	Technical	After getting grid connectivity approvals, Bay Extension estimate is to be made by EPC firm and EPC firm has to get it approved by TRANSCO/ TSNPDCL.
3	SECTION - VII A	3 OF 14	1	Electrical Interconnection Details for Kothagudem site: 132/33 kV TSTRANSCO SS, Chandrugonda (or) 220/132/33 kV TRANSCO SS, Sitarampatnam	Kindly confirm the details of connecting substation. Also provide grid connection letter for the same	Technical	Approval is under process at TSTRANSCO, Connecting substation is not yet finalized by TRANSCO. Will be informed immediately after getting the grid connectivity approval.
4	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	Approval is under process at TSTRANSCO, Connecting substation is not finalized by TRANSCO. Will be informed immediately after getting the grid connectivity approval.
5	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	<u>At Kothagudem:</u> Near Garimellapadu village: 27 acres, 2. Near ITDA nursery : 93 acres, 3. Opp. 2 Town Police station, Kothagudem : 39 acres (drawing pdf enclosed) <u>At Chennur:</u> 76 acres (drawing enclosed),
6	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	ROW issues are there. To be handled by EPC contractor.
7	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	EPC contractor has to visit the sites for the transmission line route survey to have better idea and not to depend on others survey

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8	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 borewell in the SPV area shall lies with owner. Kindly confirm.	Technical	Ground Water levels are not available with SECI/SCCL. It is the responsibility of contractor to take all associated and necessary statutory permissions
9	Section-VII	357	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	Installation of Transmission Line as per the norms including the route approval with TRANSCO and associated ROW is the responsibility of bidder.
10	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	Responsibility of EPC contractor. All the approvals required for the establishment of the project as per the guidelines of state / central statute are required to establish a plant are in the scope of the contractor. Exhaustive list is not available.
11	Section-VII	254	1	132/33 kV TTRANSCO SS, Kistampet, Chennur 132/33 kV TTRANSCO SS, Chandrugonda (or) 220/132/33 kV TRANSCO SS, Sitarampatnam	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 Firm has to inspect the substations to have an Idea.
12	VII	258	4.1.1	Civil, Mechanical & Plumbing Works including Module mounting structure	(a) Request client to provide preliminary details of the geotechnical information, land profile and available topographical data to estimate the civil scope of work for the project. (b) Request client to confirm that hot rolled section if utilized shall also be designed as per WSD utilizing IS 800 instead of LRFD method. Please confirm the same. (c) Our understanding is that Sag rods are not required for the purlins considering the lateral restrained provided by the solar panels to the purlins. Request client to confirm that our understanding is correct and sag rods are not required for the purlins. (d) Request client to confirm that during design stage of MMS structure we can utilize IS875 Part III 2015 - latest edition standard including the reduction factor specified within code for calculating the wind loads considering the height and other parameters for MMS structure. (e) Request allow use of Posmac and Galvalume sections in the MMS with minimum thickness of 1 mm. (f) Request allow use of SS304 (or equivalent) fasteners for module mounting and GI fasteners for rest.	Technical	(a) Geotechnical reports are not available with SCCL for the proposed land. (b) Terms and conditions of the tender document will prevail. (c) Terms and conditions of the tender document will prevail. (d) Terms and conditions of the tender document will prevail. (e) Terms and conditions of the tender document will prevail. (f) Terms and conditions of the tender document will prevail.

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13	II	20	6	Site Visit : The Bidder is advised to visit and examine the site of works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid and entering into a Contract for the required job. The costs of visiting the site shall be borne by the Bidder.	Due to the ongoing Lockdown, we have not had a chance to visit the Site which we consider is of utmost importance to understand the site conditions prior putting in our bid. We therefore request to extend the bid submission deadline by at least 05 weeks to enable the bidders to undertake site visit post lockdown period subject to timely receipt of clarifications of the pre-bid queries from SECI.	Contractual	Bid submission deadline has been extended till 13.05.2020
14	SECTION - VII	258	4.1.13	SCADA: Providing necessary communication and Data Acquisition System to transfer real time data to SLDC, Vidyut soudha, TSTRANSCO, Hyderabad as per the specifications of SLDC wing and as per grid connectivity approving authority.	We assume that Communication protocol for SLDC communication shall be IEC-104 & Communication medium shall be wireless GPRS. Please confirm that bidder's assumption is correct.	Technical	It should be through OPG cable to nearest TRANSCO substation as per grid connectivity approval. TSTRANSCO guide lines have to be followed.
15	Technical Specification, SECI/C&P/NIT/2020/SCCL34	254/436	Section-VII (A) Technical Specification CI-1, Project Particulars under Scope of works	Brief scope of works	We request you to furnish the scope clarity in pooling substation along with following details, i. Typical SLD, General Arrangement of the equipment ii. Bus Scheme for the Switchyard. iii. STC rating with duration. iv. Current continuous rating of the equipment's, Line Bay Trafo Bay, BC Bay if any etc.	Technical	EPC Firm has to inspect the substations to have an Idea.
16				Single line diagram, SLD	We request SECI to provide any tentative / Final SLD for both the Sites. Kindly confirm	Technical	SLD is not provided, it is encouraged to develop SLD as per the applicable norms and standards and requirement
17	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.
18	SECTION - VII A	8 OF 14	5.1.2	Cutting of trees, bushes and vegetation from site (including permission from local authorities) and disposal thereof	Tree cutting permission to be excluded from bidders scope	Technical	Terms & conditions of the tender document will prevail.
19	SECTION - VII B	9 OF 140	1.3.1	For PV Modules with backsheet, 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.
20	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.	This is a non-IEC / IS standard and out of MNRE - BIS - IEC specifications. Why is a non standard test requested in Tender? Can the tender clearly the test condition and specify what are the parameters it would check for durability so that there is no ambiguity later on? Please specify specification of pre and post HAST test if it would be conducted along with test condition and procedure for test as this is non reference standard ?	Technical	Please refer S. No. 1 of Amendment No. 1
21	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 No. 1
22	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.
23	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.
24	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.

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25	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 incase of string inverters	Technical	Terms & conditions of the tender document will prevail.
26	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.
27	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.
28	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 up to 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.
29	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.
30	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.
31	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.
32	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.

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33	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 / Galvelume 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.
34	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.
35	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.
36	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.
37	SECTION - VII B	115 OF 140	13	Module Mounting Structure	Kindly confirm whether the bidder can propose fixed type MMS	Technical	MMS shall be designed optimally for Seasonal Tilts.
38	SECTION - VII SOW	4 OF 14	PR	Performance Ratio of 80% for both the sites	PR of 80% is very high looking at the length of Transmission Lines and related losses. Request you to reduce it to 78%	Technical	Terms & conditions of the tender document will prevail.
39	Annexure – A	374	7	Decision Rules for Acceptance/Rejection AQL Levels: Major :2.5 Minor : 4 Inspection Level :General inspection level I > Flash Test > Visual > EL	We would like to request: Special Inspection level : S4 against General inspection level I 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.	Technical	Terms & conditions of the tender document will prevail. Owner/ Inspector reserves the rights to select either complete or partial no. of modules from pallets for inspection.

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40	SECTION - V	151 of 436	SCC 9	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.	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.	Contractual	Provisions of the Bidding documents shall prevail
41	SECTION - V	148 of 436	SCC 5	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 75 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
42	SECTION - V	148 of 436	SCC 5	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
43	SECTION - VII B. TECHNICAL SPECIFICATIONS	273	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.
44	SECTION - VII B. TECHNICAL SPECIFICATIONS	274	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.
45	SECTION - VII B. TECHNICAL SPECIFICATIONS	277	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.
46	SECTION - VII B. TECHNICAL SPECIFICATIONS	278	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.

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Clarifications to Queries raised during Pre-Bid Meeting

47	SECTION - VII B. TECHNICAL SPECIFICATIONS	282	13.5	The MMS stub/ column, rafter, purlin, ties and bracing members shall conform to following Indian standards.	Please accept to consider Purlins with ASTM A792 material specification with AZ 150 galvanization	Technical	Terms & conditions of the tender document will prevail.
48	SECTION - VII B. TECHNICAL SPECIFICATIONS	282	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 No 1
49	SECTION - VII B. TECHNICAL SPECIFICATIONS	244	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 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 Chennur (Site-1)	Technical	Refer Annexure-E in the amendment No 1. (coordinate file)
51	General				GPS coordinates of Kothegudm (Site-2)	Technical	Refer Annexure-E in the amendment. (coordinate file)
52	General				Autocad Chennur (Site-1)	Technical	Refer Annexure-E in the amendment No 1 (Pdf file)
53	General				Autocad of Kothegudm (Site-2)	Technical	Refer Annexure-E in the amendment No 1 (Pdf file)
54	General				Site photos	Technical	Parties may visit site post lock down.
55	General				SLD and BOQ of the plant if any	Technical	Shall be determined during detailed engineering
56	General				Contour layout of both plants	Technical	The contractor are responsible for detailed Topographical Survey of the proposed project site.
57	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
58	General				Topography	Technical	The contractor are responsible for detailed Topographical Survey of the proposed project site.
59	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.
60	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.
61	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.
62	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.

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Clarifications to Queries raised during Pre-Bid Meeting

63	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.	SCCL	10th or any other date as notified by government.
64	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
65	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.
66	Section-VII	315	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.
67	Section-VII	315	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
68	Section-VII	315	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.
69	Section-VII	315	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
70	Section-VII	315	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 both the projects shall be stored on one server only.
71	Section-VII	318	15.4.10	Connectivity shall be provided to Owner's Data Monitoring Centre..	Where is this Owner's Data Monitoring Center located??	Technical	Hyderabad
72	Section-VII	320	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.
73	Section-VII	320	15.9.2	Operating System	Plant server will have operating system and database compatible to the SCADA software being proposed for plant, because software's performances are linked with specific Server PC models, operating system and databases.	Technical	Please refer S. No. 4 of Amendments No. 1

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Clarifications to Queries raised during Pre-Bid Meeting

74	Section-VII	250	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.
75	Section-VII	General		Plant layout	Please share the Auto CAD of the proposed land for understanding the area available, contour etc.,	Technical	Please refer the attached plot
76	Section-VII	273	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.
77	Section-VII	277	1.6.6	Current binning of modules shall be employed to limit current mismatch of modules. Different color 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.
78	Section-VII	General		Soil resistivity	Please provide the soil resistivity to be considered by bidder for tender estimate purpose.	Technical	Soil test reports are not available. Terms & conditions of the tender document will prevail.
79	Section-VII	352	22	No. of Cameras	As per the referred clause, Number of cameras will be finalized 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 for details.
80	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.
81	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.
82	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.
83	Section-VII	381	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.

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Clarifications to Queries raised during Pre-Bid Meeting

84	Section-VII	382	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.
85		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.	Contractual	Agreed
86	Section-V	151	9	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.	Contractual	Provisions of the Bidding documents shall prevail
87	Section-VII	276	1.4	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.
88	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	Contractual	Provisions of the Bidding documents shall prevail
89	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
90	Section-VII	376	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	Terms & conditions of the tender document will prevail.
91	Sec+D42+C38	365	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.
92	Section-VII	280	4	Power Conditioning Unit	Kindly confirm whether string inverter/ Containerized PCU is acceptable	Technical	String inverters/ containerized 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.
93	Section-VII	385	16.1.2	Unless otherwise specified elsewhere, all buildings except Security room/ cabin shall have RCC framed structure. Brick partition walls shall be provided for Kitchen, Pantry, Battery room and Toilet units. For other rooms AL Glass partitions shall be provided. The equipment area shall be designed with OEM requirements to ensure all satisfactory operations. 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	For MCR, terms & conditions of the tender document will prevail. Please find S. No. 9 of Amendments No. 1

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Clarifications to Queries raised during Pre-Bid Meeting

94	Section-VII	393	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.
95	Section-VII	394	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.
96	Section-VII	General		Layout	Fencing & peripheral road around occupied land & encroachment land is not the part of EPC scope.Pl. confirm	Technical	Fencing & peripheral road around occupied land & encroachment land is in the scope of contractor.
97		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
98		General		Customs duty on SPV modules		Contractual	Kindly refer clause 10 of Special Conditions of contract
99		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.
100		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.
101		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.
102		General		Bank Guarantee	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. 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.	SCCL	Terms & conditions of the Tender document will prevail

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Clarifications to Queries raised during Pre-Bid Meeting

103		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
104					Purchaser to relax any specifications which restricts Bidders to adhere to this Order.	Contractual	Provisions of the Bidding documents shall prevail
105					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	Contractual	Provisions of the Bidding documents shall prevail
106	Section-VII	301	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.
107	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
108	Section-V	148	5	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 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	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. 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.	Contractual	Provisions of the Bidding documents shall prevail
109	Section-IV	81	1.1.31	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	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.	Contractual	Provisions of the Bidding documents shall prevail
110	Section-IV	86	5.1	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,	We kindly request to waive off this clause as this doesn't guarantee that project will be awarded to the L-1 bidder.	Contractual	Provisions of the Bidding documents shall prevail
111	Section-IV	93	19	Force Majeure	We kindly request to include local disturbances and public outage to be included in the force majeure events.	Contractual	Provisions of the Bidding documents shall prevail
112	Section-IV	94	19.7	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.	We kindly request you to waive off this clause.	Contractual	Provisions of the Bidding documents shall prevail

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Clarifications to Queries raised during Pre-Bid Meeting

113	Section-IV	97	25.3	Termination for Convenience 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.	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.	Contractual	Provisions of the Bidding documents shall prevail
114	Section-IV	94	20	Liquidated damages for Delay half percent (0.5%) per week of the Contract Price for the whole of the facilities as liquidated damages	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	Contractual	Provisions of the Bidding documents shall prevail
115	Section-IV	130	81.1.4	Owner shall make all endeavor 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
116	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
117		General		Vendor Approval for Works	Kindly inform if any vendor approval for works is required	Technical	No except for Geo-technical investigation.
118	Section-VII	259	4.1.19	Mandatory spares as per Annexure-D for each package	Annexure-D & F is not provided with the tender documents. Kindly specify the list of mandatory spares excluding modules to be provided by the bidder.	Technical	Please find Annexure-D in the amendment No 1
119	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 the Amendment-1.
120	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.
121	Section V	148	5	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 & conditions of the Tender document will prevail
122		SOR-2		O & M Charges on YoY basis must be in equal or in ascending order only.	O&M Charges may differ on YoY, pls allow bidders to assume O&M value as per their discretion.	Contractual	Provisions of the Bidding documents shall prevail
123	Section-IV	261	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	Grid Connectivity permission is underway and shall be made available to Contractor on available.
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		Technical	Grid Connectivity permission is underway and shall be made available to Contractor on available.

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Clarifications to Queries raised during Pre-Bid Meeting

125		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 submit revised clarification after site visit and also extend the pre-bid meeting and bid submission date accordingly	Contractual	Pre Bid queries have already been invited & will be uploaded soon after resolution. Bid submission date have also been extended till 13.05.2020. Bid submission deadline can not be indefinitely delayed in lieu of the site visit alone. Bidders are required to use their diligence & information provided along with the tender/its amendments for the purpose of participation in the tender.
126	Section-IV	84	2.3	Construction Water Supply	We request you to provide water free supply during execution and O&M Period	Technical	Terms & conditions of the tender document will prevail.
127	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.
128	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
129		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.
130	Section-VII	370	8	Boundary wall/ Fencing	Please confirm if boundary wall is in the scope of SCCL	Technical	Boundary wall shall be in the scope of contractor. Kindly refer Tender clause 5.1.4 of SOW.
131	Section-V	149	6	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	Contractual	Provisions of the Bidding documents shall prevail
132	Section-VII	272	2.7	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.
133	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 favor 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
134	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

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Clarifications to Queries raised during Pre-Bid Meeting

135	II	12	12.6	However, Change in Law shall not include (iii) any change on account of regulatory measures by the Appropriate Commission.	EPC contractor cannot be made liable for any change in the regulatory laws which can affect his costing post bid submission. EPC contractor bids on the basis of current laws enforce and as such takes into account all charges with it. If charges change after bid submission, it should be paid by the Owner and covered in this clause.	Contractual	Provisions of the Bidding documents shall prevail
136	IV	44	58.1	Contractor shall deliver supplies at site in accordance to its erection sequence. Owner may hold payment against supplies in case same is delivered more than 03 (Three) months before its erection requirement (except for imported items)	Supply of items at site cannot be timed as per the erection sequence as various factors like availability of items, pricing, transportation etc. have to be factored in whilst delivering items at site. Request remove clause of holding of payment for 03 months which restricts the Contractor to plan for the project in terms of his financial/commercial requirements.	Contractual	Provisions of the Bidding documents shall prevail
137	IV	44	59.3	Owner, at his sole discretion and upon request from Contractor, may provide appropriate space for storage outside the site on chargeable basis mutually agreeable to both parties.	Mutually agreed rates may increase chances of dispute which can result in delay of project timeline. Please provide exact charges for the above.	Contractual	Provisions of the Bidding documents shall prevail
138	IV	49	73	Defects Liability Period [12 (Twelve) Months Period of Liability from the date of Operational Acceptance]	This contractor has to carry out comprehensive O&M of the plant for a period of 10 years on operational acceptance of the plant which includes attending to all defects and defects in the design, engineering, materials and workmanship of the Plant and Equipment supplied and of the work executed. All the requirements mentioned in this clause is already covered in the O&M scope. There is therefore no requirement of a separate DLP clause. As per clause 73.16 contractor has to guarantee workmanship of the plant for 5 years which whereas in clause 73 he has to guarantee the plant workmanship for 12 months. Please clarify.	Contractual	Provisions of the Bidding documents shall prevail
139		53	76.2.3	Upon completion of the construction activities/ O&M activities, the Contractor shall obtain no – objection certificate (NOC) from local/ statutory bodies in respect to the fulfillment of all compliance and submit a copy to the Owner prior to the final settlement	Kindly be specific about the NOC's to be obtained from which all authorities as it seems to be open ended.	Contractual	Same shall be intimated by SCCL / SECI on time to time basis
140		59	84.2	Engineer-in-Charge/Project Manager shall review such claims within a reasonably period of time and cause to discharge these in a manner considered appropriate after due deliberations thereon. However, Contractor shall be obliged to carry on with the Work during the period in which his claims are under consideration by the Owner, irrespective of the outcome of such claims, where additional payments for Works considered extra are justifiable in accordance with the Contract provisions.	Project Manager should review the claim in a specific time period which should be notified here. The Contractor should given be a go-ahead for extra work commencement only after it is accepted by the owner as extra work. This clause is not addressing the Contractor's concern of accepting the work. If after carrying out the work, the Project Manager decides that it is not extra work then it will be unfair to the contractor. This is with regard to only extra works and not the regular contracted work. Kindly amend the clause.	Contractual	Provisions of the Bidding documents shall prevail
141	IV	116	58.4	The Employer/ Owner will insist on the procurement of materials which bear ISI stamp and/ or which are supplied by reputed suppliers.	Kindly specify the reputed make suppliers for each item which the employer may suggest to avoid any ambiguity later on during the execution time. The word "Reputed make" is too broad. Suggest give accepting condition for acceptance of the material. However, please note that such clauses will only delay the project as there are bound to be disagreements between the contractor and the Employer view ambiguous wordings in the Tender.	Contractual	Kindly refer Section VIII of the bidding documents for the same

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Clarifications to Queries raised during Pre-Bid Meeting

142	IV	119	67.10	However, in case re-inspection is necessitated on account of nonacceptance of item(s) due to failure on Factory Acceptance Test(s), the cost of associated travel and accommodation borne by the Employer/Owner shall be on account of the Contractor.	It will be the endeavor of the contractor to complete the acceptance of the tests in one visit at the factory, however, this clause is ambiguous as it does not specify as to what all can be attributed to the contractor for non acceptance of the material. Kindly be specific about the conditions under which the Contractor can be held liable. Also, please give a clear list of equipment which will be inspected at Factory.	Contractual	Provisions of the Bidding documents shall prevail
143	IV	130	81.1.3	Engineer-in-Charge/Project Manager shall pass the bills after carrying out the comprehensive checks in accordance with the terms and conditions of the Contracts, within 10 (Ten) days of submission of the bills, complete in all respects and send the same to the Employer/ Owner to effect payment to the Contractor as per the defined payment terms.	Suggest Engineer-in-charge to forward the bills to employer for payment within 3 days after due verification. 10 days is too long for verification time. If we take Clause 81.1.3 and 81.1.4 together then the max time the employer can take for payment of bill would be 40 days from the date of submission of bills which is heavily biased in favor of the Employer	Contractual	Provisions of the Bidding documents shall prevail
144	IV	130	81.1.4	Employer/ Owner shall make all endeavor 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.	Suggest amend the payment to be made within 15 (fifteen) days from the date of certification.	Contractual	Provisions of the Bidding documents shall prevail
145	IV	134	94.5	The Contractor should arrange for providing insurance coverage to its workmen under Workmen's Compensation Act or similar Rules and Acts as applicable during execution of work for covering risk against any mishap to its workmen.	As per clause 94.10, the contractor is to provide ESIC for all workers which covers all risks/accidents in case of any mishap at site. Insurance coverage as per clause 94.5 shall be provided for Contractor's personnel working on site who are not covered under ESIC. Please confirm.	Contractual	Provisions of the Bidding documents shall prevail
146	IV	139	103.1	In respect of all labor, directly employed in the Work for the performance of Contractor's part of this agreement, the Contractor shall at his own expense arrange for all the safety provisions as per safety codes of C.P.W.D., Indian Standards Institution. The Electricity Act, The Mines Act and such other acts as applicable.	Please clarify the applicability of "The Mines Act" in this work. This is a construction contract and hence applicability of this act is not understood. Please clarify the applicability of this act in context of this tender.	Contractual	Provisions of the Bidding documents shall prevail
147	IV	153	SCC Page 8 of 12 Part-C	Final Ten (10%) of the total price of Civil Works shall be paid after CUF demonstration after first year of O&M of the complete Facility pursuant to completion of all the civil works including finishing and debris removal. However, this Payment may also be released after completion of all the civil works including finishing and debris removal on submission of Bank Guarantee of equivalent amount. The BG shall be valid up to demonstration of CUF for the successful first year of Operation. However, in case of delay, the BG shall be extended suitably.	Request include a separate chapter/section on the documentation required for clearing the contractors bills. It has been our experience that new requirements are projected as there is no clarity on the exact documents required to be submitted along with the bills. This delays contractors bill payments leading to financial crunch and Please clarify specifically what are the "requisite documentation" as mentioned in the clause.	Contractual	Provisions of the Bidding documents shall prevail
148	VIII	223	4.b.(ii)- S.No 78	Routine pile tests - Pull out and Lateral-100% for 0.5% of total no. of working piles for each type of test	Request specify methodology for selection of samples.	Technical	Terms & conditions of the tender document will prevail.
149	VII	279	3.3	DC cables (SMU to Inverter) shall be single core, armored, Flame Retardant Low smoke (FRLS), PVC outer sheath conforming to IS 7098-I.	Generally, Solar DC Cable have flame retardant properties but for XLPE Armored Cables from SMU to Inverter. Request to remove FRLS requirement for this cable.	Technical	Terms & conditions of the tender document will prevail.
150	VII	279	3.5	The average voltage drop in the cables (Modules to Inverter) shall be limited to 1.5 % of the rated voltage.	We understood that the voltage drop will be limited to 1.5% of the rated voltage at nominal condition. Request Confirm.	Technical	Terms & conditions of the tender document will prevail.
151	VII	281	4.2.1	The rated/ name plate AC capacity of the PCU shall be AC power output of the PCU at 50°C.	Inverter supplier gives the rating on its number plate at 25o /40o C which is a standard practice. Request accept rating at 40o C.	Technical	Terms & conditions of the tender document will prevail.
152	VII	289	5.6.1.2	In case the contractor is not able to submit the test reports during detailed engineering, the contractor shall submit the reports of type/special tests either conducted by NABL accredited laboratory or witnessed by Employer.	We understood that SECI will witness the tests if the test reports conducted by NABL is not available for particular items during detailed engineering. Kindly confirm.	Technical	Contractor can submit the reports of type/special tests either conducted by NABL accredited laboratory or witnessed by Employer.

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Clarifications to Queries raised during Pre-Bid Meeting

153	VII	292	6.3.8	Degree of protection shall not be less than IP 5X for auxiliary circuit compartment. However, for remaining compartments it shall not be less than IP 5X.	For Inverter, IP 54 is mentioned on page-221 of 313 & for HT Panel, it is as per this clause. We intend to provide outdoor type Switchgear and Inverter open to the sky. Please clarify if this is acceptable.	Technical	Terms & conditions of the tender document will prevail.
154	VII	300	7.2	All AC cables shall be flame retardant, low smoke (FRLS) type designed to withstand all mechanical, electrical and thermal stresses develop under steady state and transient operating conditions.	Generally, for all AC Cables, there is no requirement of FRLS properties. Request to remove FRLS requirement for XLPE armored cables.	Technical	Terms & conditions of the tender document will prevail.
155	VII	310	12.3.3	Continuous copper earthing wire shall be run to connect a group of modules and both ends of the loop shall be bolted to the DC earth grid using bimetallic lugs and stainless-steel fasteners. The copper earthing wire shall be routed in such a way to avoid physical contact with the module aluminum frame.	If module manufacturer approves that earthing is achieved by continuous MMS, then request to remove separate module to module earthing requirement using Cu wire.	Technical	Terms & conditions of the tender document will prevail.
156	VII	312	13.2	Protection Level for the entire plant shall be level – I.	Generally, protection level is selected based on lighting protection risk analysis & for this site location Level-IV is also sufficient. Request client to confirm that the protection level shall be decided during the detailed Engineering.	Technical	Terms & conditions of the tender document will prevail.
157	VII	312	13.4	Each ESE air terminal shall be provided with following accessories. (iv) Galvanized Iron mast with base plate and guy wire kit	Guy wires unnecessarily occupies a lot of space. Request consider the standalone GI mast to install ESE air terminal.	Technical	The LA mast shall be a self-supporting structure with GI tubular pole of required height. The pole shall confirm to IS: 2713. The pole shall be supported on RCC pedestal and foundation structure through Base plate & Anchor bolt assembly. Refer S. No. 10 of Amendment No 1
158	VII	313	14.1.5	All testing of the optic fiber cable being supplied shall be as per the relevant IEC, EIA and other international standards.	Request waive off requirement of Test certificates for OFC and RS 485 cables as suppliers/dealers are unable to provide type test certificates for small quantities of cables. Also kindly provide specific vendor list for OFC and RS485 cables .	Technical	Terms & conditions of the tender document will prevail.
159	VII	349	20.4.8	Lighting panels shall be earthed by two separate and distinct connections with earthing system. Switch boxes, junction boxes, lighting fixtures, fans, single phase receptacles etc. shall be earthed by means of separate earth continuity conductor. Cable armor shall be connected to earthing system at both the ends. Proper earthing of street light poles shall be ensured.	Street light pole, junction box and lighting fixtures are metallically connected. Therefore separate earthing is not required for each component of the pole. The junction box will be earthed by using PEN method at lighting panel. Request client to clarify and confirm.	Technical	Terms & conditions of the tender document will prevail.
160	VII	348	20.3.2	The lighting system for outdoor and indoor areas of solar power plant shall be designed in such a way that uniform illumination is achieved. Average LUX level to be maintained in different areas shall be as under: Control Room and equipment rooms- 300 LUX Office- 300 LUX Battery & other rooms - 150 LUX	Request propose amendment to LUX level requirements in following rooms as follows based on practical experience : Control Room and equipment rooms- 300 LUX Office- 200 LUX	Technical	Terms & conditions of the tender document will prevail.
161	VII	348	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 mentioned coefficient of utilization maintenance factor (of 0.7 or less) for conventional lights like Halogen, CFL, etc. Generally for LED lights it shall be 0.9 or less. Request Client to change this coefficient of utilization maintenance factor as 0.9 or less by considering above.	Technical	Terms & conditions of the tender document will prevail.

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Clarifications to Queries raised during Pre-Bid Meeting

162	VII	348	20.4.1	LED luminaires shall meet the following parameters: LED chip efficacy >130 lumens per watt Luminaire efficacy >90 lumens per watt Color Temperature 5700o K (cool day light)	Request client to change this parameters as follow. LED chip efficacy > = 130 lumens per watt Luminaire efficacy > = 90 lumens per watt Color Temperature 4000o K (cool day light) Cool day light temperature of LED is around 4000 o K to 4500 o K. For your information, at 5700 o K, it will be bluish light instead of cool day light.	Technical	Terms & conditions of the tender document will prevail.
163	VII	369	7.8	The boundary wall/fence shall be provided along the Solar PV Plant boundary to demarcate the Plant boundary and to keep away the unauthorized access to the Plant. The boundary wall/fence shall be provided with a main entry gate. The length and layout of boundary wall/ fence shall be as decided by the owner during detailed engineering after approval of topography work.	Request clarify if there is a requirement of a either boundary wall or Fencing as the cost for building both of them is very different. If possible provide a reference design for whatever is required/specified.	Technical	Please refer Section VII C: Special Technical Specifications
164	VII	385	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.	In case of outdoor inverter & Switchgear, request client to confirm if use of pre Engineering building/shed for data logger, UPS, battery or other indoor components is allowed.	Technical	For MCR, terms & conditions of the tender document will prevail. Please find S. No. 9 of Amendment No 1
165	VII	385	16.2.1	For O&M of SPV Plant MCR building shall provide following facilities; (i) Inverter/ Switchgear, equipment room(s) as per requirement (ii) Air conditioned area (with provision of split A/C unit of adequate capacity) for SCADA room (min. 12m2) & Conference room (min. area 20m2) (iii) Supervisor cabin and office area (min. area 25m2) (iv) Store cum record room (min. area 20m2) (v) Battery room as per requirement & (vi) One toilet block with gents and ladies wash room facilities (min. area 12m2) (vii) There shall be suitable provision for easy/ smooth passage for O&M personnel, cable trenches etc.	We understood that the minimum area given at this clause is tentative & can be reduced based on practical requirement during detailed engineering. Request client to confirm for the same.	Technical	Terms & conditions of the tender document will prevail.
166	VII	369	7.7	The storm water drainage system shall be a network of open surface drains (with rectangular or trapezoidal cross section) and shall generally be designed to follow the natural flow of water and ground contours.	Request Client to confirm to use FRP underground water tank/ Free fabricated RCC tank to reduce the execution time and project cost.	Technical	Terms & conditions of the tender document will prevail.
167	VII	376	11.3	Min. depth of foundation for all buildings and plinth for open installations shall be 1.5 m below NGL. For all other structures, min. depth of foundation shall be 1.0 m unless specified otherwise.	Request client to confirm the depth of the SMB/SJB foundation depth in case hard rock area is encountered.	Technical	Terms & conditions of the tender document will prevail.
168	VII	376	11.5	All design & drawings shall be submitted to the Engineer for approval before execution.	Request client to confirm the maximum time period of 10 (Ten) days for GFC drawing/document approvals.	Technical	Terms & conditions of the tender document will prevail.

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Clarifications to Queries raised during Pre-Bid Meeting

169	IV	109	45.3	Breakdown / Corrective maintenance: Whenever a fault occurs, the Contractor has to attend to rectify the fault & the fault must be rectified within the 72 hours from the time of occurrence of fault. The Contractor must maintain all the records pertaining to all such faults and necessary measures taken. The date of Comprehensive Operation & Maintenance Contract period shall begin from the date of Operational acceptance. However, operation of the Power Plant means operation of system as per TS and workmanship in order to keep the project trouble free covering the O&M period. The Contractor must demonstrate the committed CUF at the end of every year in accordance with commitment made in line with the Performance guarantees.	Irradiance & temperature variation are a major factors to estimate CUF. So, request client to consider the 72 Hrs downtime as included in CUF calculation as deemed generation.	Technical	Terms & conditions of the tender document will prevail.
170	VII	272	2.7	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.	We understand that first-year degradation of modules will be start from date of plant commissioning, kindly confirm.	Technical	Degradation for first year shall not be considered. Please refer Clause 2.2 of Annexure C
171	VII	272	2.8	Each component offered by the bidder shall be of established reliability. The minimum target reliability of each equipment shall be established by the bidder considering its mean time between failures and mean time to restore, such that the availability of complete system is assured. Bidder's recommendation of the spares shall be on the basis of established reliability.	Request client to give the required spares list for each site location as the perception of both the parties can be vastly different and this part has a financial effect on the Contractor.	Technical	List of mandatory spares for each site is provided in Annexure-D. kindly refer the Amendment-1.
172	VII	278	2.3	Warranty The SMU unit shall be warranted for minimum of 5 (five) years against all material/ manufacturing defects and workmanship.	We understood that, Warranty of the material will start from date of COD. Kindly confirm.	Technical	Yes
173	VII	280	3.8.7	A.C and D.C cables shall be kept in separate trenches. The horizontal and vertical clearances between power and communication cable shall not be less than 300mm.	Rocky surfaces are highlighted in the tender at site and therefore request to allow the min. separation distance between cables as 100 mm.	Technical	Terms & conditions of the tender document will prevail.
174	VII	282	4.3.8	Dedicated communication interface shall be provided to monitor the PCU from SCADA.	We understood that, PCU unit input will be maximum 16 - Tag (Inputs) per inverter will be considered and without ON/OFF command	Technical	Shall be determined during detailed engineering
175	VII	282	4.7	Warranty The complete Power Conditioning Unit shall be warranted for minimum of 5 (five) years against all material/ manufacturing defects and workmanship.	We understood that, warranty of the material start from date of COD. Kindly confirm	Technical	Yes
176	VII	285	5.2	Technical Requirements- Tap Changer OCTC, No. of steps shall be as per system requirement	We understood "OFF LOAD TAP CHANGER" (in lieu of OCTC). Kindly confirm.	Technical	OCTC stands for Off Circuit Tap Changer.
177	VII	288	5.5	Warranty The transformer shall be warranted for minimum of 5 (five) years against all material/ manufacturing defects and workmanship.	We understood that, warranty of the material start from date of COD. Kindly confirm	Technical	Yes
178	VII	289	5.6.1.1	Type Tests (i) Lightning impulse (Full & Chopped Wave) test on windings as per IEC 60076-3 (ii) Temperature Rise test at a tap corresponding to maximum losses as per IEC 60076-2	In case Transformer supplier has conducted type test(s) within last ten years, he may submit the type test reports to the owner for waiver of conductance of such type test(s) again. These reports should be for the tests conducted on the equipment similar to those proposed to be supplied under this contract and test(s) should have been either conducted at an independent laboratory or should have been witnessed by a client. Kindly confirm.	Technical	Kindly refer the Tender clause 5.6.1.2 and 16.14.1.2, In case the contractor is not able to submit the test reports during detailed engineering, the contractor shall submit the reports of type/special tests either conducted by NABL accredited laboratory or witnessed by Employer.

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179	VII	294	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.	Kindly reconsider the really operating voltage limit from 24V-110V DC	Technical	Please refer S. No. 5 of Amendment No 1
180	VII	298	6.11	The HT panel unit shall be warranted for minimum of 5 (five) years against all material/ manufacturing defects and workmanship.	We understood that Warranty of the material will start from date of COD. Kindly confirm	Technical	Yes
181	VII	301	8.3	Auxiliary system shall be provided with two independent sources for reliable auxiliary power supply.	We understood that, two independent source from UPS source and RAW power LT supply. Kindly confirm	Technical	The auxiliary system shall have 2 independent source of power supply to achieve the uninterrupted services. UPS is part of Auxiliary system and hence can not be a source.
182	VII	304	9.3.13	Earth leakage relay with Core balance CTs (CBCT) shall be provided on main incoming feeders having phase CT ratio more than 50/1A. CBCT's shall be circular window type with window size based on the overall diameter of the cables, to be finalized during detailed engineering.	Instead of providing CBCT, we can use overcurrent relay in LT panel. Kindly confirm	Technical	Terms & conditions of the tender document will prevail.
183	VII	310	12.3.2	Each PV Module frame shall be earthed using copper wire of sufficient cross section. The copper wire shall be connected to the earth hole provided in the module frame using suitable arrangement in line with the manufacturer recommendation. The earthing arrangement shall use stainless washers to prevent galvanic corrosion between aluminum frame and copper wire. In order to achieve effective earthing, serrated washers shall be employed to penetrate the anodization layer of the module frame.	The PV module is connected with galvanized MMS structure and same table is connected with grid Earthing .We understood that separate Earthing is not required for PV modules. Kindly confirm.	Technical	Terms & conditions of the tender document will prevail.
184	VII	331	17	Nitrogen Injection Fire Protection System Nitrogen Injection Fire Protection System (NIFPS) shall use nitrogen as fire quenching medium. The protection system shall prevent transformer oil tank explosion and possible fire in case of internal faults. In the event of fire by external causes such as bushing fire, OLTC fire, fire from surrounding equipment etc., it shall act as a fast and effective fire extinguisher without any manual intervention	We understood that NIFP System is required if Transformer capacity is >10MVA transformer. Kindly confirm.	Technical	Requirement of NIFPS shall be as per CEA regulations.
185	VII	352	22.1	CCTV Cameras along with monitoring stations (sufficient numbers) and all other accessories required for its proper operation must be installed to have complete coverage of following areas for 24 hours. (i) Main entry: Covering all the entry/exit (ii) Along the Plant Perimeter: Covering complete perimeter of Plant Area to capture all possible intrusion (iii) Control Rooms: Covering Entry/Exit and Equipment Rooms (iv) Switchyard	We understood that one CCTV camera for each mentioned location except in Perimeter. Kindly confirm	Technical	Number of Cameras shall be decided during detailed engineering to achieve area coverage as per Clause
186	VII	386	16.2.2	Inverter and associated equipment shall be installed on plinth as open installations. They shall generally comprise of data loggers, battery, inverter, electrical panels, etc. as per requirements and as per approved system drawings	We understood that Inverter can be outdoor type and installed over RCC plinth protected with open sheds, Kindly confirm.	Technical	Kindly refer the clause no 1.3.1 of section-VII C. special technical specification.

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Clarifications to Queries raised during Pre-Bid Meeting

187	VII	394	32.1	The Contractor shall design & provide soak pit and RCC Septic tank for treatment of sewage and waste water from MCR building and Security room. The septic shall be designed as liquid retaining structure conforming to IS:3370 for design loads as specified under Cl. No. 35. However, in case of ground water within 1.5m of finished grade level or the soil strata being of low permeability (permeability \leq 10-6 m/s) where septic tank and soak pit arrangement is not effective, suitable packaged sewage treatment plant of reputed make/manufacture shall be provided. The sewage treatment facility shall be of required capacity and of proven design suitable for total of 15 people.	Request consider pre-fabricated RCC septic tank to reduce execution time and ease of installation with long life.	Technical	Pre-fabricated RCC septic tank conforming to all technical specifications including design considerations as per tender document may be permitted.
188	VII	394	33.3	Internal trenches (inside buildings) shall be provided with chequered plate (min. 8mm thick with stiffening angle ISA 50x50x6 @ 750 mm c/c for trench width greater than 800 mm) covers while external trench shall have precast concrete covers.	Kindly change the chequer plate thickness from 8mm into 6mm for safe manual access by O&M individuals.	Technical	Terms & conditions of the tender document will prevail.
189	VII	394	34.3	In case of transformer oil tank capacity more \geq 20000 liters, the soak pit shall be connected to a separate burnt oil pit through discharge pipe (300 mm dia) and shall be suitably sized to accommodate full oil volume (excluding free board above inlet pipe) of the transformer connected to it, without backflow. In this case the capacity of the soak pit may be reduced to min. 1/3rd of the total transformer oil volume. The burnt oil pit shall be further connected to oily water drainage system. The water shall be discharged into the nearest drain by gravity	We understood that transformer oil soak pit will be precast RCC tank. Kindly confirm	Technical	Terms & conditions of the tender document will prevail.
190	VII	397	35.6	The module cleaning system shall include construction of RCC tank or supply and installation of Ground mounted PVC tank (s) of required storage capacity, pumps (including 1 No. standby pump), water supply mains and flexible hose pipes, taps, valves (NRV, Butterfly valve, Ball valve, Gate valve, PRV, scour valve etc.), Water hammer arrester(s), pressure gauge, flow meter etc. as per the planning & design.	We understood that PVC tank can be used to store water for module cleaning system. Kindly confirm.	Technical	Terms & conditions of the tender document will prevail.
191	VII	398	37.1	Galvanized 220 kV and 132 kV Transmission Line towers, Tower extensions & accessories and 11 kV, 22kV, 22kV & 33 kV transmission poles, towers & accessories shall be designed following latest guidelines of respective SEB (State electricity board)/ STU (State transmission utility) and get approved from them before execution. In absence of SEB/ STU guidelines REC (Rural Electrification Corporation) standards may be followed. Support at corner with angle > 100 shall be provided with a 4-pole structure or a lattice tower structure. Use of PCC spun pole and RCC pole is not acceptable.	As per clause 6.1.1 page no. 261, 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 type of Transmission line pole will be provided as per DISCOM approved drg./specifications. Contractor shall be allowed to use RCC pole if DISCOM approves RCC pole for power evacuation. Kindly confirm.	Technical	Terms & conditions of the tender document will prevail.
192	VII	412	1.2	The available land is slightly hilly with some undulation & would require some land development with presence of some shrubs, bushes and small trees which shall be removed during site clearing by the contractor. Removal of Overhead distribution lines is in the scope of work of SCCL.	We understood that, if any trees cutting approval required from state forest department is comes under client scope. And land development means only dozing of top layer of the proposed land. Kindly confirm.	Technical	Cutting of trees, bushes and vegetation from site (including permission from local authorities) and disposal thereof shall be in the scope of contractor. Kindly refer the tender clause 5.1.2 of SOW.
193	INVITATION FOR BIDS (IFB)	Page 2 of 10	Reverse Auction Clause in IFB, Page 2 of 10	Owner reserves the option to reduce any of the above-mentioned site capacity from the overall cumulative capacity before/after award of contract agreement. Accordingly, the total project price will be proportionately reduced & the final project price arrived as such after reduction will be the final project price of the contract agreement.	We request you to kindly delete this clause as the per MW price arrived by you is based on the cumulative capacity of 34 MW and will not be applicable/workable on reduced capacity.	Contractual	Provisions of the Bidding documents shall prevail

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194	General Conditions of the Contract (GCC)	Page 40 of 72	Clause 51.1, Page 40 of 72	<p>If, after the date seven (7) days prior to the date of Bid submission, in the country where the Site is located, any law, regulation, ordinance, order or by-law having the force of law is enacted, promulgated, abrogated or changed (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the costs and expenses of the Contractor and/or the Time for Completion, the Contract Price shall be correspondingly increased or decreased, and/or the Time for Completion shall be reasonably adjusted to the extent that the Contractor has thereby been affected in the Performance of any of its obligations under the Contract. Contractor shall promptly and within 15 days of such enactment coming into force, forward relevant supporting documents to Owner</p> <p>However, these adjustments would be restricted to direct transactions between the Owner and the Contractor. This adjustment shall not be applicable on procurement of raw materials, intermediary components etc. by the Contractor and shall also not be applicable on bought out items dispatched directly from sub-vendor works to site.</p>	<p>We request you to kindly amend this clause as followed by NTPC and other PSU's.</p> <p>If, after the date seven (7) days prior to the date of Bid submission, in the country where the Site is located, any law, regulation, ordinance, order or by-law having the force of law is enacted, promulgated, abrogated or changed (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the costs and expenses of the Contractor and/or the Time for Completion, the Contract Price shall be correspondingly increased or decreased, and/or the Time for Completion shall be reasonably adjusted to the extent that the Contractor has thereby been affected in the performance of any of its obligations under the Contract. However, these adjustments would be restricted to items in respect of direct transactions between the Employer and the Contractor and Bought out items (to be dispatched directly from the sub-vendors' works to Employer's site).</p>	Contractual	Provisions of the Bidding documents shall prevail
195	SPECIAL CONDITIONS OF CONTRACT (SCC)	SCC Page 8 of 12	SCC No. 9 point (iv)	Final Ten percent (10%) payment of Supplies shall be paid after CUF demonstration on completion of first year of O&M of the Facility pursuant to submission of all requisite documentation	<p>Please release the final payment on completion of PR Test as there is no need to hold 10% of contract value for such a long period of 1 year as contractor will submit BG of 10% of EPC + O&M Price, so your concerns against poor performance are safeguarded by PBG. The present clause is unnecessarily leading to cash flow problems to EPC Contractor and consequently bid prices may be higher.</p> <p>Similar change is requested for Services contract as well.</p>	Contractual	Provisions of the Bidding documents shall prevail
196	Annexure – C	ANNEXURE-E Page 9 of 10	2.2	Reference Irradiation =1853 kWh/m2	As RI 1853 KWh/m2 has been considered. Kindly furnish the resource data to be considered for PR computation.	Technical	SECI will not provide any resource data.
197	VII-B	TS Page 12 of 140	2	String monitoring unit	We request for inverter level monitoring & also request you to consider string combiner box instead of string monitoring box.	Technical	Terms & conditions of the tender document will prevail.
198	VII-C	TS Page 12 of 14	2.2.3	Every SMU input shall be provided with fuses on both positive and negative side.	Since PCU is provided with negative grounding kit, at SMU/SCB level negative fuse shall not be required.	Technical	Terms & conditions of the tender document will prevail.
199	VII-C	TS Page 14 of 140	3.1	DC cable (from SMU to PCU) applicable standard- IS 7098-Part-1	IS 7098-Part-1 has been revised to IS 7098-Part-2. So all DC cables (from SMU to PCU) & shall be provided as per IS 7098-Part-2.	Technical	Kindly refer Annexure 3 to Amendment No 1.
200	VII-C	TS Page 14 of 140	3.5	The average voltage drop in the cables (Modules to Inverter) shall be limited to 1.5 % of the rated voltage.	We request to consider average voltage drop up to 3% of rated voltage from module to inverter.	Technical	Terms & conditions of the tender document will prevail.
201	VII-C	STS Page 2 of 8	1.5.1	MMS shall be designed optimally for Seasonal Tilts.	As per our understanding. MMS type given is seasonal tilt. This is given for reference only. Bidder can choose any MMS type(Fixed & Seasonal tilt) with out deviating from tender requirements. Please confirm	Technical	Terms & conditions of the tender document will prevail.
202	Solar Plant layout	-	-	Phase -II and Phase - III areas are highlighted in Kothagudem solar plan.	Kindly clarify either phase-II or phase-III for 23MW solar plant in Kothagudem.	Technical	Area highlighted for Phase III is proposed for the said 23MW SPV power plant at Kothagudem.

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203	6. HT Switchgear	28 of 140	6.4.3	The rated control voltage of the spring charging motor shall be 110 VDC/230 VAC. Closing coil shall operate at all values of voltages between 85% and 110% of rated voltage. Opening coil shall operate correctly under all operating conditions of the circuit breaker up to the rated breaking capacity and at all values of supply voltage between 70% and 110% of rated voltage.	We request a leniency of using DC (battery charger)/ or AC (UPS) supply at inverter room for HT switchgear control supply & SCADA related Equipments. At MCR HT switchgear shall have 110V battery bank supply Kindly confirm .	Technical	Shall be determined during detailed engineering
204	6. HT Switchgear	30 of 140	6.5.13	The numerical relay shall have RS-232/RS-485/RJ-45/USB ports on front side for local communication with PC and on rear side for remote communication to SCADA system.	We propose, the communication of numerical relays in HT switchgears at solar plant side (ie. Inverter room& Main control room) with Modbus protocol (RS 485 port). Please clarify.	Technical	Terms & conditions of the tender document will prevail.
205	6. HT Switchgear	34 of 140	6.12.1	Internal arc test IEC 62271-200	Request you to consider internal arc test reports for indoor HT panels only & not for Outdoor panels.	Technical	Terms and conditions of tender document will prevail.
206	7. AC Cables	35 of 140	7.3	Only terminal cable joints shall be accepted. No cable joint to join two cable ends shall be accepted. However, cable joints may be allowed if the route length is more than maximum available drum length subject to Employer's approval.	We understand, minimum number of straight through joint kits to be used and to be used only if the running length exceeds drum length. Kindly confirm.	Technical	Terms & conditions of the tender document will prevail.
207	7. AC Cables	36 of 140	7.8.2	LT cable (from inverter to inverter transformer) shall laid through RCC cable trench with supports	Kindly accept LT cable (from inverter to inverter transformer) to be laid in open tray horizontal arrangement , single core cables with sufficient number of runs per phase in trefoil formation. Each tray from inverters shall be laid in horizontal formation to respective LV cable boxes of inverter transformers.	Technical	Terms & conditions of the tender document will prevail.
208				General	Kindly specify the evacuation voltage level 33kV or 132kV 1. Chennur 11MW 2. Kothegudam 23MW	Technical	Voltage levels for evacuation 1. Chennur (11MW) - 33kV 2. Kothagudem (23MW) - 132kV As per the TRANSCO guidelines.
209	Section VII B. Technical specifications	26	6.2	Current Transformer: Accuracy class - 0.2 for metering (0.2s for metering at outgoing feeder), 5P20 for protection	We request to consider, 0.2S class for outgoing feeder and 0.5 class for other feeders. Kindly confirm	Technical	Terms & conditions of the tender document will prevail.
210	Section VII B. Technical specifications	32	6.9.2	All feeders except main outgoing feeder shall be provided with digital Multi-Function Meter (MFM). Tri Vector Meter (TVM) shall be provided for the main outgoing feeder (in the HT Panel). Accuracy class of MFM shall be 0.2 and that of TVM shall be 0.2S	We request to consider, accuracy class of 0.2S for TVM and 0.5 for MFM. Kindly confirm	Technical	Terms & conditions of the tender document will prevail.
211	Section VII B. Technical specifications	35	7.5	Cables shall be sized based on the following considerations: (i) Rated current the equipment (ii) 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 cable voltage drop within solar plant boundary shall be considered 0.5 % . Kindly confirm.	Technical	Please refer the S. No. 11 of Amendment No 1
212	SECTION - VII B. TECHNICAL SPECIFICATIO NS	Page 100 of 140	5.3	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.	Earth filling shall be provided and compacted instead of PCC, kindly confirm.	Technical	Terms & conditions of the tender document will prevail.

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213	SECTION - VII B. TECHNICAL SPECIFICATIONS	Page 103 of 140	6.9	The pathway area shall be generally levelled and well compacted manually/ mechanically. Areas of depression, valley zones or wherever there is noticeable change in topography, shall be levelled by laying min. 100mm thick PCC M10 or precast concrete paver blocks (min. 60mm thick, Grade M60) matching the top finished surface with ground topography/ grade to avoid accumulation of water in the region and allowing its free flow to keep the area devoid of mud/ sludge.	We request pathways shall be cleaned and levelled for access without any PCC and Paver blocks. Kindly confirm.	Technical	Terms & conditions of the tender document will prevail.
214	SECTION - VII B. TECHNICAL SPECIFICATIONS	Page 119 of 140	15.1	Unless otherwise specified elsewhere, all structural steel work shall be designed as per provisions of IS: 800 with working stress method of design (WSD).	We request to consider that all structural steel work for Buildings shall be designed as per provisions of IS: 800 with Limit state method of design (LSD).	Technical	Terms & conditions of the tender document will prevail.
215	Area Grading and Land Development	TS Page 100 of 146	5.3	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.	Earth filling shall be provided and compacted instead of PCC, kindly confirm	Technical	Terms & conditions of the tender document will prevail.
216	SECTION - VII B. TECHNICAL SPECIFICATIONS	Page 110 of 146	10.10.2	For estimation of design wind loads on purlins (Table 8 of IS 875-Part 3), WL (downward) and WL (upward) on modules (laid in the profile of mono slope canopy) shall be applied such that the center of pressure should be at (0.3 x length of canopy) from windward end (for simplicity, the wind load distribution may be taken as triangular with max. value at windward end). Solidity ratio (ϕ) shall be taken as 0.5.	Wind load shall be considered as UDL on the Purlin, since the 0.3 W loading is applicable for monoslope canopy roofs of buildings. The solidity ratio shall be 0 as per IS:875 (Part-3)-2015, since there are no obstructions below the module for wind flow. Kindly confirm.	Technical	Terms & conditions of the tender document will prevail.
217	SECTION - VII B. TECHNICAL SPECIFICATIONS	Page 116 of 146	13.1	The module mounting structure design shall generally follow the existing land profile. The top of the table shall be in one plane.	The module mounting structure is a contour following structure the top of structure shall be parallel to the ground profile, hence the top of table shall not be flat. Kindly confirm	Technical	Terms & conditions of the tender document will prevail.
218	Foundations (General)	TS Page 111 of 146	11.3	Min. depth of foundation for all buildings and plinth for open installations shall be 1.5 m below NGL. For all other structures, min. depth of foundation shall be 1.0 m unless specified otherwise.	We request, to decide the foundation depth with respect to the Geo-investigation report. However the minimum depth shall be 1m below FGL. Kindly confirm	Technical	Terms & conditions of the tender document will prevail.
219	Module Mounting Structure (MMS)	TS Page 118 of 146	13.32	The length of one unit (Table) of MMS shall not generally be more than 20m.	We request a maximum structure length of 32m for one table matching the modules in series	Technical	Terms & conditions of the tender document will prevail.
220	Module Mounting Structure (MMS)	TS Page 118 of 146	13.33	The contractor shall submit the foundation and structural design basis for MMS along with the list of reference standards in his Bid duly certified by a Chartered Engineer having adequate successful experience in similar works which shall be finalized with the prospective bidder during pre-award.	We request, will share the details after award of the contract.	Technical	Accepted.
221	Module Mounting Structure (MMS)	TS Page 118 of 146	13.35	The length of any cold formed section (CFS) shall not be more than 5.5 m.	We request you to consider a length of 6.5m for cold form steel sections	Technical	Terms & conditions of the tender document will prevail.

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222	Module Mounting Structure (MMS)	TS Page 109 of 146	10.1	Provisions of IS: 15498 shall also be followed to ensure general safety of the structure.	The provisions of IS: 15498 are for cyclone relief structures, MMS cannot be used as cyclone relief structures, hence the standards cannot be followed. Kindly confirm	Technical	Terms & conditions of the tender document will prevail.
223	SECTION - VII	314	15.1.3	SCADA: (iv) Support for O&M Activities: The interface shall allow integration with Surveillance System(s), Module Cleaning System and various other O&M support systems to provide a Data Analysis and Decision Support System for smooth and efficient Plant Operations.	We wish to inform that, CCTV Surveillance System is an independent system which will have its own hardware and workstation. Hence integration of CCTV with SCADA is not recommended as per standard practices followed in Solar projects. Integration of Module Cleaning System with SCADA is not required as per standard practices followed in Solar projects, As Module cleaning system is a manual activity done at site and as it is not a continuous operating system (like Inverters, Meters etc.), we request you to void this requirement. Kindly provide your acceptance for the same.	Technical	Hyperlinks to Reports for O&M activities like PV Module Cleaning Schedules, Major equipment Periodic Maintenance Schedules in the SCADA HMI shall be acceptable.
224	SECTION - VII	318	15.4.9	The SCADA system shall be extensible to include maintenance of O&M schedules and related activities for plant equipment as per the O&M Manual.	We wish to confirm that, SCADA systems do not come with feature of O&M schedules & related activities. Bidder recommendation is to void this requirement of having O&M functions in SCADA. Kindly provide your acceptance for the same.	Technical	Hyperlinks to Reports for O&M activities like PV Module Cleaning Schedules, Major equipment Periodic Maintenance Schedules in the SCADA HMI shall be acceptable.
225	SECTION - VII	318	15.4.14	Forecasting and Scheduling: SCADA shall provide day ahead and week ahead forecasting and scheduling for power generation at the plant as per SLDC/Utility stipulations.	We understand that appointing and service charges for Forecasting and Scheduling agency is not part of bidder's scope and same shall be taken cared by owner. Bidder scope is to interface plant SCADA with Forecasting and Scheduling agency's system over standard protocol like FTP. Please confirm.	Technical	Appointing and service charges for Forecasting and Scheduling agency is not in the Scope of EPC Contractor.
226	SECTION - VII	320	15.9.2	Plant Server - 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	We request that, it is recommended to consider Windows Server Operating System for Plant server as Windows Operating system is compatible for all standard SCADA software's. As per the Operator Workstation specifications, it is mentioned to consider Windows operating system, hence for integration of Plant Server and Operator Workstation, Bidder recommends to consider Windows based operating system for both Plant server and Operator Workstation. Kindly provide your acceptance for the same.	Technical	Please refer S. No. 4 of Amendment No 1
227	SECTION - VII	351	21.4.1	Data logger and Data Acquisition System: Provision for analog, digital and counter type inputs for interfacing with various type of sensors (i) Analog Input: Adequate nos. for all analog sensors with redundancy	Our understanding on this clause is " Sufficient Analog inputs shall be provided in the Datalogger for interfacing with Analog sensors and spare Analog inputs shall be made available for future use" Kindly provide your acceptance for the same.	Technical	Sufficient Analog inputs shall be provided in the Datalogger for interfacing with Analog sensors and spare Analog inputs shall be made available for future use

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228	SECTION - VII	351	21.4.1	Data logger and Data Acquisition System: (v) Connectivity and Data transmission: 1. 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. 2. Web interface with provision for user login to enable viewing and downloading of weather data in XLS/ CSV format	We request you to accept the below proposal. 1. As Weather station is installed inside the Solar plant, instead of Wireless communication, Wired medium (RS 485 cable) shall be considered for communication of Weather station with SCADA 2. To have data security, it is recommended that, Weather station shall communicate only with SCADA and Plant SCADA shall transfer all its data to remote server installed at Owner's Hyderabad office. 3. To avoid any device downtime / fault, device configuration settings shall be done locally at site by service engineers. As device configuration is a one time activity during commissioning, remote configuration of weather station is not generally required. 4. To have data security, it is recommended that, data shall be downloaded from Datalogger locally at site by service engineers and the same can be archived for records. Kindly provide your acceptance for the same.	Technical	Please refer S. No. 8 of Amendment No 1
229	C - Civil, Mechanical and Plumbing Works	368	-	6.7 Drain, cable or any other crossing shall..... However, the water supply pipe for module cleaning and service/ drinking water shall be routed through Medium class GI steel pipe of required dia. conforming to IS: 1161.	Kindly confirm the pipe material for module cleaning system. (In page no. 368 it is specified as MCS system shall be routed using GI Pipe but in clause no 35.8 (page 397) it is specified as option as (GI / UPVC / HDPE). Bidder propose to consider HDPE pipe for routing pipe along PV area and tap off shall be made of GI pipe. Kindly confirm	Technical	Terms & conditions of the tender document will prevail.
230	Potable Water Supply & PV Module Cleaning System	397	35	35.8 The water supply mains could be either of GI, uPVC or HDPE, however, the vertical pipe connecting supply main to the discharge point shall be of GI.		Technical	Terms & conditions of the tender document will prevail.
231	Technical Specification, SECI/C&P/NIT/2020/SCCL34	254/436	Section-VII (A) Technical Specification CI-1, Project Particulars under Scope of works	i) Design and Engineering ii) Electrical Interconnection Details	As per referred clause, the solar plant will be located at 2 different area having a capacity of 11 & 23 MW respectively. In this regard we understand that bidder is free to choose the transformer MVA rating based on the individual capacity of the plant. Please confirm.	Technical	Contractor can design the plant with any rating of Inverter duty transformers. However, the cumulative AC capacity of individual plant shall be as per the Tender requirement.
232	Technical Specification, SECI/C&P/NIT/2020/SCCL34	254/436	Section-VII (A) Technical Specification CI-1, Project Particulars under Scope of works	i) Design and Engineering ii) Electrical Interconnection Details	As per referred clause, the solar plant will be located at 2 different area having a capacity of 11 & 23 MW respectively. In this regard we understand that Voltage of Power Evacuation shall be follows: 1) 11MW- 33kV 2) 23MW- 132kV. Please confirm.	Technical	Voltage levels for evacuation 1. Chennur (11MW) - 33kV 2. Kothagudem (23MW) - 132kV As per the TRANSCO guidelines.

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233	Technical Specification, SECI/C&P/NIT/2020/SCCL34	254/436	Section-VII (A) Technical Specification CI-4.1.12, Project Particulars under Scope of works	Tariff Metering	Refer mentioned clause it is stated as "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 as per CEA Metering Regulation 2006 as amended time to time and state metering code". However we are not envisaging any Software & Hardware requirement to integrate ABT Meter Data with the existing Meter Data Management System / AMI System at SLDC. Please confirm.	Technical	All Software & Hardware requirement to integrate ABT Meter Data with the existing Meter Data Management System / AMI System at SLDC shall be in the scope of the Contractor.
234	Technical Specification, SECI/C&P/NIT/2020/SCCL34	254/436	Section-VII (A) Technical Specification CI-4.1.13, Project Particulars under Scope of works	Data communication from Pooling station to SLDC	Refer CI-4.1.13, it is mentioned as "Providing necessary communication and Data Acquisition System to transfer real time data to SLDC, Vidyut soudha, TSTRANSCO, Hyderabad as per the specifications of SLDC wing and as per grid connectivity approving authority". However, as the TRANSCO is not allows any bidder to modify any software and hardware at their SLDC, we understand that any software and hardware modifications at TRANSCO-SLDC are excluded from our scope. Please confirm	Technical	Terms & conditions of the tender document will prevail.
235	Annexure to BDS, Qualifying Requirements	Page 4	1.3	The Minimum Average Annual Turnover (MAAT) of the bidder in the last three financial years (i.e. FY 2016-2017, 2017-18 and 2018-19) should be INR 61,74,40,000/- (Indian Rupees Sixty-one crores, seventy-four lacs & forty thousand only). MAAT shall mean Revenue from Operations as incorporated in the profit & loss account excluding other income, e.g. sale of fixed assets. This must be the individual Company's turnover and not that of any group of Companies.	We seek to meet eligibility conditions through Developer route (Route II) We hold multiple operations solar plants as developer under separate SPV companies. Our annual turnover includes the turnover from our SPV companies and from our services business. We understand we can use the same to meet the financial eligibility criterion. Please confirm.	Contractual	No
236	SECTION - V SPECIAL CONDITIONS OF CONTRACT (SCC)	154	9	9.(C) C. For the Second Contract (related to Operation & Maintenance Part)	Please clarify that the Billing of O&M value will be on Final quoted value (including GST) in SOR II or on the value of which we get after applying NPV factor. Kindly Confirm.	Contractual	O&M contract will be awarded on absolute value only & the payments will also be done accordingly.
237	SECTION - VII A. SCOPE OF WORKS	254	1	Project particulars, CUF : 20%	Please clarify that Contractor requires to maintain 20% CUF till the end of O&M Period (10 years) or for First Year. As per our understanding, we can consider 0.7% of degradation from the second year onwards. Kindly Confirm.	Technical	Module degradation factor will not be considered for first year CUF calculation. It is the Contactor's responsibility to envisage and install extra DC capacity to accommodate any degradation during first year. 0.7% per year will be considered from second year of operation. Please Refer Clause 2.2 in Annexure C
238	SECTION - VII A. SCOPE OF WORKS	254	1	Kothagudem 23 MW, Garimellapadu (4 Parcels)	Land offered is in different parcels/parts (4) we request you to please provide the distance between from each land parcel to another for better estimation of length transmission line Also, its not clear which land parcels are to be consider for 23 MW site. Either from SOLAR POWER PLANT IN PHASE - II or SOLAR POWER PLANT IN PHASE - III Please clarify	Technical	Area highlighted for Phase III is proposed for the said 23MW SPV power plant at Kothagudem. Kindly refer the coordinate files and plot diagram in Annexure E for distance between different land plots.

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Clarifications to Queries raised during Pre-Bid Meeting

239				Metering point and CUF calculation	We assume that CUF shall be calculated at substation end and so the metering point is also at substation end Please clarify	Technical	CUF shall be calculated at plant end. Kindly refer the clause 2.2 of Annexure C.
240	SECTION - VII B. TECHNICAL SPECIFICATIO NS	301	8.3	Auxiliary system shall be provided with two independent sources for reliable auxiliary power supply.	Two independent power sources are required with single or redundant auxiliary transformer? Kindly confirm	Technical	The auxiliary system shall have 2 independent source of power supply to achieve the uninterrupted services. UPS is part of Auxiliary system and hence can not be a source.
241	SECTION - VII B. TECHNICAL SPECIFICATIO NS	304	9.3.12	Each switchgear panel shall be provided with thermostatically controlled space heaters to prevent condensation within the enclosure.	ACDB and DCDB having exhaust fan for air circulation hence space heater are not required to avoid condensation. Kindly confirm	Technical	Only main LT distribution panel shall be provided with thermostatically controlled space heaters to prevent condensation within the enclosure.
242	SECTION - VII B. TECHNICAL SPECIFICATIO NS	307	11.2	2 type of charger are mentioned. 1- One No. Float charger. And 2. One No. Float cum Boost charger	Bidder assumes Float cum boost charger can serve the purpose. Kindly confirm	Technical	Float cum Boost Charger shall be acceptable.
243	SECTION - VII B. TECHNICAL SPECIFICATIO NS	310	12.3.2	In order to achieve effective earthing, serrated washers shall be employed to penetrate the anodization layer of the module frame.	Use of serrated washer can eliminate copper cable required between module to module for earthing. Please clarify	Technical	Terms & conditions of the tender document will prevail.
244	SECTION - VII B. TECHNICAL SPECIFICATIO NS	311	12.3.6	SMU equipment earthing point shall be connected to the DC earth grid using flexible copper cable of sufficient cross section as recommended by the manufacturer.	GI strip of suitable size can be used for earthing of SMU? Please confirm	Technical	Terms & conditions of the tender document will prevail.
245	SECTION - VII B. TECHNICAL SPECIFICATIO NS	386	16.2.2	The plinth supporting the ICR/LCR equipment shall have RCC framed structure with foundations, columns and beams up to plinth level (FFL).	Bidder understands Prefabricated structure can be used for LCR/ICR room cum conference room. Kindly confirm	Technical	Terms & conditions of the tender document will prevail.
246	SECTION - VII B. TECHNICAL SPECIFICATIO NS	245	2.1.2	The Functional Guarantee shall comprise of a set of visual/mechanical/Electrical checks followed by a Performance Ratio (PR) test of the Plant Facilities. The PR test shall be carried out for a period of 30 consecutive days at site by the Contractor in presence of the Employer/ Employer's Representative/ Owner's Engineer.	"The Functional Guarantee condition for the purpose of Provisional Acceptance of the Plant Facilities shall be considered to have been met if the guaranteed Performance Ratio (PR) is achieved on a daily basis for 30 consecutive days* as per Clause 2.1.5 of this document." - After 30 days, only guarantee generation shall be considered irrespective of PR? Kindly confirm	Technical	Yes
247	SECTION - VII B. TECHNICAL SPECIFICATIO NS	254	1	Project particulars, PR and CUF	In case, the PR and CUF are not met by the assigned DC capacity, is the DC capacity be increased? Kindly Confirm	Technical	Yes
248	SECTION - VII B. TECHNICAL SPECIFICATIO NS				Any particular spare list for electrical items? Please specify.	Technical	Please refer Amendment No 1 for Mandatory spare list.
249	SECTION - VII B. TECHNICAL SPECIFICATIO NS	278	2.23	Every SMU input shall be provided with fuses on both positive and negative side. The rating of the fuses shall be selected such that it protects the modules from reverse current overload. The fuses shall be 'gPV' type conforming to IEC 60269-6.	Can fuses be used only at the positive side of the SMB? Please confirm	Technical	Terms & conditions of the tender document will prevail.

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Clarifications to Queries raised during Pre-Bid Meeting

250	SECTION - VII B. TECHNICAL SPECIFICATIO NS	279	3.5 (ii)	The average voltage drop in the cables (Modules to Inverter) shall be limited to 1.5 % of the rated voltage. The Contractor shall provide voltage drop calculations in excel sheet.	Normally, the voltage drop in the DC sides 2%. However, in the tender, it is mentioned as 1.5%, can it be increased to 2%? Kindly confirm	Technical	Terms & conditions of the tender document will prevail.
251	SECTION - VII B. TECHNICAL SPECIFICATIO NS	300	7.5 (ii)	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.	Normally, the voltage drop in the AC sides 3%. However, in the tender, it is mentioned as 1%, can it be increased to 3%? Kindly confirm.	Technical	Terms & conditions of the tender document will prevail.
252	SECTION - VII B. TECHNICAL SPECIFICATIO NS	300	7.5 (ii)	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.	AC HT cables shall be Earth cable or Uneath cable? Kindly confirm	Technical	Terms and conditions of tender document will prevail.
253	SECTION - VII B. TECHNICAL SPECIFICATIO NS	312	13.2, 13.4	Protection level for the entire plant shall be Level-I. Early Streamer Emission (ESE) air terminal.	The protection level of ESE-LA is Level-1, due to which the number of Las will increase and this will lead to moreland usage. Can we go with Level-3? Kindly clarify	Technical	Terms & conditions of the tender document will prevail.
254	SECTION - VII B. TECHNICAL SPECIFICATIO NS	349	20.5.1	LED luminaire/lamps shall have minimum 3-star BEE rating.	Can we proceed with BEE standard for Lighting? Kindly confirm	Technical	Terms & conditions of the tender document will prevail.
255	SECTION - VII B. TECHNICAL SPECIFICATIO NS				There is no specific energy guarantee mentioned. Please clarify	Technical	Please Refer Section VI A: Scope of Works for min CUF Guarantee
256	SECTION - VII B. TECHNICAL SPECIFICATIO NS	20 & 56			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. Options can be given and allowed for using indoor or outdoor specifications for Inverters and HT panels.	Technical	Terms & conditions of the tender document will prevail.

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