

Amendment - 1

NIT No : SECI/C&P/NIT/2020/SCCL15

Design, Engineering, Supply, Construction, Erection, Testing, Commissioning and O&M of 15 MW (AC) Floating Solar PV Power Plant at different sites at SCCL Telangana State

Sl. No.	Section	Page No.	Clause	Original Version	Amendment
1	SECTION - VII B. TECHNICAL SPECIFICATIONS	9 OF 106	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.	The Employer reserves the right to conduct Pressure Cooker (PC) test/ Highly Accelerated Stress Test (HAST) to confirm the durability of the back sheet in accelerated conditions. Pressure Cooker Test shall be carried out under following conditions: 121 °C /100 %Rh and 2 atm Pressure for 48 hours. The apparatus shall be such that specimen is not dipped in water but exposed to vapour (steam) while maintaining aforementioned conditions. Necessary sensors for measurement of Temperature, Pressure and RH shall be installed for verification. For acceptance: 1. there shall be no delamination or micro cracks observed in the back sheet 2. The back sheet shall retain 30% of the initial value (as per approved GTP) of the Elongation at Break.
2	SECTION - VII B. TECHNICAL SPECIFICATIONS	15 OF 106	3.3.2	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	16 OF 106	3.3.8	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	59 OF 106	15.9.2	Operating System - Operating System and Database shall be of enterprise scale (RedHat Linux or equivalent Linux OS, Oracle/MySQL or equivalent DB), with required AMC for 5 years.	Operating System - Operating System and Database shall be of enterprise scale (RedHat Linux or equivalent Linux OS, Oracle/MySQL or Windows or equivalent DB), with required AMC for 5 years.
5	SECTION - VII B. TECHNICAL SPECIFICATIONS	37 of 106	7.5.2	Auxiliary voltage of the relays shall be 110 VDC and the relays shall be capable of operating continuously between 80 – 120% of auxiliary voltage.	Relays shall operate on suitable DC auxiliary voltage and the relays shall be capable of operating continuously between 80 – 120% of auxiliary voltage.
6	ANNEXURE D MANDATORY SPARES	-	New Clause	-	Refer Annexure 1 to Amendment 1

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7	SECTION - VII B. TECHNICAL SPECIFICATIONS	70 of 106	18.4.1 . (v)	<p>(v) Connectivity and Data transmission:</p> <ul style="list-style-type: none"> ■ Built-in GSM/ GPRS modem for wireless data transmission to SCADA/ cloud server (procurement of GPRS enabled SIM Card and connection subscription to be the responsibility of Contractor). It should be possible to remotely communicate with the device for configuration settings. ■ RS485 MODBUS interface for data collection and storage on SCADA ■ Web interface with provision for user login to enable viewing and downloading of weather data in XLS/ CSV format ■ Communication protocol should support fast data transmission rates, enable operation in different Frequency bands and have an encryption-based data security layer for secure data transmission 	<p>v) Connectivity and Data transmission:</p> <ul style="list-style-type: none"> ■ RS485 MODBUS interface for data collection and storage on SCADA ■ Communication protocol should support fast data transmission rates, enable operation in different Frequency bands and have an encryption-based data security layer for secure data transmission
8	SECTION - VII B. TECHNICAL SPECIFICATIONS	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.
9	SECTION - VII C. SPECIAL TECHNICAL SPECIFICATIONS	-	New Clause	-	All outdoor installations shall be supported on plinth comprising of RCC framed structure with foundations, columns and beams up to plinth level (FFL), with a suitable metal canopy on top.
10	SECTION - VII B. TECHNICAL SPECIFICATIONS	43 of 106	8.5 (ii)	Maximum voltage drop in LT cable (from PCU to Transformer) shall be limited to 0.5% of the rated voltage. For HT cables, 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 PCU to inverter transformer) shall be limited to 0.5% of the rated voltage. For HT cables (from inverter transformer to plant take off point), maximum voltage drop shall be limited to 0.5 % of the rated voltage. The Contactor shall provide voltage drop calculations in excel sheet.
11	ANNEXURE-C PR TEST PROCEDURE	3 of 10	2.1.1	Eout- Cumulative AC energy measured at the injection point (ABT meter) over the duration of reporting period (kWh).....	Eout- Cumulative AC energy measured at the plant end (ABT meter) over the duration of reporting period (kWh).....
12	SECTION - VII B. TECHNICAL SPECIFICATIONS	New Clause	28.4	-	Refer Annexure 2 to Amendment 1
13	SECTION - VII B. TECHNICAL SPECIFICATIONS	96 of 106	25.9	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)	Void
14	SECTION - V SPECIAL CONDITIONS OF CONTRACT	4 of 11	6	Heading of the clause : Add following to the existing clause	Change heading of the clause to : Replace the Existing clause by following
15	SECTION - V SPECIAL CONDITIONS OF CONTRACT	6 of 11	Add additional clause 7.5 to the existing clause under Functional Guarantees (GCC clause 43.1.1)		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.

Clarifications to Queries raised during Pre-Bid Meeting

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S No.	Tender Section	Page No.	Clause No	0	Queries	Category (Finance/Technical/Contractual)	Clarifications
1	II	24	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
2	II	25	13	In case, it is found that Owner is not able to take CENVAT benefit of the taxes due to fault of the Contractor, Owner shall be constrained to deduct the amount from the payments to be made to the Contractor or recover the same in any other manner.	In view of applicability of GST in this tender, what is the relevance of CENVAT in the tender ? Please Clarify	Contractual	It is in relevance with the Input Tax Credit (ITC)
3	IV	107	43.3.6	The start date of the Comprehensive Operation and Maintenance shall be reckoned from the date mentioned in the Operational Acceptance Certificate.	We understand that If the contractor issues the letter to Owner on the day of completion of the PG Test and if the Owner issues the OA certificate to the contractor after 30 days as per clause 43.3.4, then start start date of O&M shall be considered to be the date of issuance of the request letter by the Contractor. Else if the Owner considers his date of issuance of the letter as the start date for O&M then where does the 30 days gap of O&M be accounted for/O&M period then becomes for 61 months which is violation of the tender terms. Kindly clarify.	Contractual	Provisions of the Bidding documents shall prevail
4	IV	109	45.5	However, the Contractor shall replenish the mandatory spares at his cost prior to the completion of the O&M period.	We understood that since there is no list of mandatory spares part list given in the tender, however, the contractor has to supply some mandatory spare parts as part of the contract, then this list shall be made by the Contractor. Kindly confirm.	Technical	List of mandatory spares for each site is provided in Annexure-D. Kindly refer the Anexure-1 to Amendment-1.
5	IV	115	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
6	IV	116	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
7	IV	121	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
8	IV	125	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 fulfilment 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	Provisions of the Bidding documents shall prevail

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9	IV	131	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
10	IV	119	67.1	However, in case re-inspection is necessitated on account of no acceptance 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 endeavour 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
11	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 21 (Twenty-one) days of submission of the bills along with all necessary enclosures and documents, complete in all respects and send the same to the 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. 21 days is considered 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 51 days from the date of submission of bills which is very long.	Contractual	Provisions of the Bidding documents shall prevail
12	IV	130	81.1.4	Employer/ Owner shall make all endeavour to make payments of undisputed amount of the bills submitted based on the joint measurements within 30 (Thirty) days from the date of certification by the Engineer-in-Charge/ Project Manager.	Suggest amend the payment to be made within 15 (fifteen) days from the date of certification.	Contractual	Provisions of the Bidding documents shall prevail
13	IV	139	103.1	In respect of all labour, 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	It is the standard bidding clause of the tender document
14	V	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
15	VII	231	3.3	DC cables (SMU to Inverter) shall be single core, armoured, Flame Retardant Low smoke (FRLS), PVC outer sheath conforming to IS 7098-I.	Generally, Solar DC Cable have flame retardant properties but for XLPE Armoured Cables from SMU to Inverter. Request to remove FRLS requirement for this cable.	Technical	Terms & conditions of the tender document will prevail.
16	VII	231	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.
17	VII	233	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.
18	VII	241	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.
19	VII	244	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. Inverter can be Outdoor/Indoor. Please Refer Clause 3.2.
20	VII	252	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 armoured cables.	Technical	Terms & conditions of the tender document will prevail.
21	VII	263	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 aluminium 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.

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22	VII	264	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.
23	VII	266	14.1.5	All testing of the optic fibber 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.
24	VII	302	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 armour 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.
25	VII	300	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- 500 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.
26	VII	301	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.
27	VII	301	20.4.1	LED luminaires shall meet the following parameters: Luminaire efficacy >90 lumens per watt Colour Temperature 5700 K (cool day light)	Request client to change this parameters as follow. Luminaire efficacy > = 90 lumens per watt Colour Temperature 4000 K (cool day light) Cool day light temperature of LED is around 4000 K to 4500 K. For your information, at 5700 K, it will be bluish light instead of cool day light.	Technical	Terms & conditions of the tender document will prevail.
28	VII	310	25.3	The ROW for the TL/UG cable shall be obtained prior to the construction of the line from the concerned authorities.	Request provide the Transmission line route for the site. There is no indication of the distance of the route as well as the route layout in the tender document. Kindly provide for costing estimation.	Technical	The bidder have to survey for the transmission line route from plant sites to Evacuating substations mentioned.
29	VII	305	8.3	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.	Request Owner/Employer to keep the clearances required for cutting of trees in their scope.	Technical	Terms & conditions of the tender document will prevail.
30	VII	310	C (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) SCCL to respond (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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31	VII	322	8.1	The plant peripheral boundary shall be provided with either Chain link or barbed wire fencing or masonry boundary wall as specified.	Request clarify if there is a requirement of a either a 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	Kindly refer the clause no. 9 and 1.7 of Technical specification and Special technical specification respectively for details.
32	VII	338	16.1.2	Unless otherwise specified elsewhere, all buildings and plinth for open installations except Security room/ cabin shall have RCC framed structure. Masonry partition walls shall be provided for Kitchen, Pantry, Battery room and Toilet units. For other rooms AL Glass partitions shall be provided. The plinth for open installations and equipment area shall be designed with OEM requirements. The security room/ cabin(s) shall be of prefabricated structure.	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	Refer TS clause 28.1.
33	VII	338	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	Refer TS clause 28.
34	VII	319	28.2.1	Portable cabin shall be of size 15 x 10 x 8.6 feet (clear dimensions i.e. available volume) for MCR and Store Room. For other buildings, appropriate sizes as per available space and design may be proposed.	We understood that instead of providing RCC MCR, the contractor can also provide portable cabins as per the specifications given in this clause. Kindly clarify.	Technical	All buildings shall be Pre Engineered Building type or Portable Cabin as per specifications laid down in Tender document.
35	VII	321	28.3	Pre-Engineered Building	We understood that instead of providing RCC MCR, the contractor can also provide PEB as per the specifications given in this clause. Kindly clarify.	Technical	All buildings shall be Pre Engineered Building type or Portable Cabin as per specifications laid down in Tender document.
36	VII	329	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.
37	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.
38	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 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
39	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 Anexure-1 to Amendment-1.
40	VII	230	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
41	VII	232	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.
42	VII	234	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	It shall be determined during detailed engineering
43	VII	236	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

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44	VII	237	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.
45	VII	240	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
46	VII	241	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 and 16.14.1, 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.
47	VII	246	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-1
48	VII	250	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
49	VII	253	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.
50	VII	256	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.
51	VII	262	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 aluminium 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.
52	VII	283	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 extant CEA regulations.
53	VII	305	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 TS Clause no. 19.1.
54	VII	353	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.
55	VII-C	366	7	There shall be no boundary fence to the plant site.	We understood that there is no requirement of building a boundary fence or wall enclosing the plant installation. Kindly confirm.	Technical	Kindly refer the clause no. 9 and 1.7 of Technical specification and Special technical specification respectively for details.

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Clarifications to Queries raised during Pre-Bid Meeting

56	VII-C	225	1.1	Further, PV Modules should have been included in the ALMM list as per MNRE Approved Models and Manufacturers of Solar Photovoltaic Modules (Requirements for Compulsory Registration) Order, 2019.	The ALMM list has not yet been published by MNRE even after 15 months of it coming into existence. What if the list is still not published by the time the tender is awarded ? How will the contractor meet this requirement ? Kindly clarify.	Technical	Contractor should supply PV modules included in ALMM list, if same is published by the MNRE prior to supply.
57	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 and subject to timely receipt of clarifications of the pre-bid queries from SECI.	Contractual	A separate notification will be issued in case of any extension in the Bid submission deadline
58	C Civil Works	298	3	3.1 The Contractor shall be responsible for detailed Topographical Survey of the proposed project site (on-shore). 3.2 The Topographical survey shall be conducted at 20m x 20m grid, or as directed by the Engineer, with the help of digital surveying instruments like Total Station	Due to covid 19 situation site visit is not possible, so pls provide the topo report and photos of the site to us.	Technical	Terms & conditions of the tender document will prevail.
59	C Civil Works	301	5,5.1	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 of the on shore site or near by location for better understanding of Soil Strata.	Technical	Terms & conditions of the tender document will prevail.
60	C Civil Works	306	8.1	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	Due to Covid -19 Restrictions , Site visit or survey cant be done , So pls Share the photos of the vegetation.	Technical	Terms & conditions of the tender document will prevail.
61	C Civil Works	308	9.4	9.4.1 The Main entry gate (2.5m height) shall of rugged design with solid MS steel sections (20x20mm). The spacing of vertical members shall not be more than 125 mm. 9.4.2 The gate shall be complete with MS flat guide track, castor wheel(s), GI fittings & fixtures like hinges, aldrop, locking arrangement, posts etc. 9.4.3 The main gate shall be of 2.5m height. 9.4.4 The gate shall be provided with the Project name plate (2.5mx 1m, 3mm thick MS plate). The gate shall be painted with 2 coats of epoxy paint over 2 coats of suitable primer.	Pls provide the drawing.	Technical	All design and drawings for Main gate shall be submitted for Engineer's approval before execution
62	C Civil Works	308	9.5	Floating fence with floating buoys (with durable UV resistant material suitable to withstand the aqueous environment and be eco-friendly to bio diversity) shall be formed around every floating platform	Pls provide the drawing. And specification for the Floating Bouys.	Technical	Shall be determined during detailed engineering
63	C Civil Works	308	10	Plant Layout:	Pls provide the plant layout cadd file for off shore and on shore.	Technical	Auto CAD drawings will be sent shortly
64	C Civil Works	304	7.1	7.1 Approach Road: 7.1.1 Suitable approach road (as applicable) from nearest public road up to plant Main gate (on-shore).	Pls provide the length of the Approach road and drawing for the same.	Technical	Bidder has to visit the sites to have an idea.
65	C Civil Works	215	6	6.7 Foundation and erection of portable cabin/PEB (Main Control Room) if required. 6.8 Foundation and erection of portable cabin/PEB (storage container) of area sufficient enough for storing spare PV Modules, cable drums etc.	Pls provide required size of the PEB and Storage Container.	Technical	Kindly refer the TS Clause no. 28.2.1.
66	C Civil Works	215	6.9	One security room shall be provided at Main Gate (on-shore switchyard) with a Bio- toilet facility including daily cleaning and maintenance as per manufacturer's recommendations.	Pls provide required size of the Security room..	Technical	Please refer to Amendment no. 1
67	Section-VII	230	1.3.6	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.
68	Section-VII	229	1.3.1	For PV Modules with back sheet, toughened low iron glass with minimum thickness of 3.2 mm for multi or mono-crystalline modules	These clauses are contradictory, Kindly confirm which type is acceptable in the tender	Technical	Only Glass-glass PV Modules with or without frame shall be allowed. Kindly refer TS clause no. 1.3.1.ii and iii for details.
69	Section-VII	328	1.3.1	Only Glass-glass PV Modules with or without frame shall be allowed.		Technical	

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Clarifications to Queries raised during Pre-Bid Meeting

70	Section-VII	274	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.
71	Section-VII	275	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
72	Section-VII	274	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 the HQ server/remote server is the same as Owner designated Server in Clauses 15.1.3, 15.2.7 and 15.2.9
73	Section-VII	274	15.1.3 (xviii)	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.
74	Section-VII	275	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 10 & 5 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	Yes
75	Section-VII	277	15.4.10	Connectivity shall be provided to Owner's Data Monitoring Centre..	Where is this Owner's Data Monitoring Centre located??	Technical	Data from both the projects shall be stored on one server only.
76	Section-VII	279	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	Hyderabad
77	Section-VII	279	15.9.2	Operating System	Plant server will have operating system and database compatible to the SCADA software being proposed for plant, because softwares performances are linked with specific Server PC models, operating system and databases.	Technical	Please refer S. No. 4 of Amendments No. 1
78	Section-VII	374	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.
79	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 may be there as the transmission line has to pass through some private lands.
80	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	Bidder has to visit the sites to have an idea. ROW is the responsibility of EPC contractor.
81	Section-VII				1. Kindly inform if the bidder (EPC contractor) can procure the land for ROW 2. In case Land is procured by contractor, will owner pay to the contractor for usage charges of land after 10 years O&M	Technical	Lands can not be dispensed by private parties. ROW issues have to be settled by negotiation with land owners. SCCL will not pay for ROW. ROW issues must be settled for life time period of the project.
82	Section-VII	205	1	Electrical Interconnection Details 10 MW-132/33 KV TSTRANSCO substation located at Chennur(Kistampet) 5 MW-132/33 KV TSTRANSCO Substation located at Asifabad	Kindly confirm whether bidder has to connect the 10 MW of STPP reservoir to 132/33 KV TSTRANSCO substation located at Chennur(Kistampet) via O/H transmission line at 33 kV Level or 132kV level as there is no specification provided w.r.t power transformer of 132/33kV. Also provide the status of the 10 MW Solar plant at Dorli OC1 OB Dump	Technical	1) Bidder has to evacuate the 10 MW STPP reservoir FSPV plant to 132/33 KV TSTRANSCO substation located at Chennur(Kistampet) via O/H transmission line at 33 kV Level 2) The 5 MW FSPV plant to be connected to the 33 kV transmission line of nearby 10 MW Dorli OC1 OB Solar plant (3 km line). 3)10 MW Solar plant at Dorli OC1 OB Dump is under tender stage.
83	Section-VII				Also furnish the Single line diagram for better understanding	Technical	Bidder has to visit the sites to get an idea about SLD.

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Clarifications to Queries raised during Pre-Bid Meeting

84	Section-VII	228	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.
85	Section-VII	232	1.6.6	Current binning of modules shall be employed to limit current mismatch of modules. Different colour codes shall be provided on the modules as well as pallet for identification of different bins. Maximum three nos. of bins will be allowed for each module rating	BHEL does binning as per each five wattages band by our automated packing machine instead of current binning. The same is followed for all our executed projects. Kindly accept.	Technical	Terms & conditions of the tender document will prevail.
86	Section-VII	General		Soil resistivity	Please provide the soil resistivity to be considered by bidder for tender estimate purpose.	Technical	Soil testing is in the scope of EPC contractor
87	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	SCCL do not have the ground water level data. Taking approval for digging bore well is in the scope of EPC contractor.
88	Section-VII	290	19	No. of Cameras	Kindly inform the no. of the cameras to be installed	Technical	No. of cameras shall be decided during detailed engineering. Kindly refer TS clause 19.1 for locations to be covered under surveillance.
89	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.
90	Section-VII	General		Topography Report & Hydrography Report	Please furnish the topographical survey o& Bathymetry study for both the plant locations	Technical	The Contractor shall be responsible for detailed topographical and hydrographic survey of the proposed project site.
91	Section-VII	296	22.3	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	laying of 33 kV OHT line from 10 MW STPP reservoir to Evacuating substation, there shall be some private lands as well. ROW is in the scope of the EPC contractor only
92		General		General	If delay from scheduled completion is on account of employer, then any statutory variation beyond stipulated Delivery/ Commissioning/Completion schedule shall be to customer's account.	Technical	Grid connectivity approval for STPP 10 MW FSPV is already obtained and hence there is no delay from SCCL side (Attached with Clarifications). For 5 MW FSPV at Dorli OC2, it is under process at TSNPDCL and will be obtained before issue of LOI.
93	Section-V	151	10	Interest bearing adjustable initial advance (OPTIONAL) of 10% of the Contract Value (i.e., total sum of all the Supply Contract) shall be released to successful bidder upon receipt of unconditional acceptance of NOA	We request to give interest free advance. Kindly accept. We request to submit unconditional Bank Guarantee for 100% of advance amount. Kindly accept.	Contractual	Provisions of the Bidding documents shall prevail
94	Section-VII	231	1.4.3	Warranty: The above warranties shall be backed by third party insurance.	We kindly request you to also accept the provision of providing Bank Guarantee also for the solar PV modules warranty as accepted in all other tenders as presently at large Indian insurance companies are not issuing such insurance policy.	Technical	Terms& Conditions of the tender shall prevail.
95	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
96	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 area to the successful bidder not the issue of NOA	Contractual	The provision of the Bidding Documents shall prevail
97	Section-VII	303	5.8	All buildings/ Open installations, Switchyard and Sub-station area shall have levelled ground. No foundation for Buildings, Switch yard equipment & structures, Sub-stations, HT Line Towers, Transformer etc. shall rest on filled up ground. However, minor structures like cable trench, cable rack, pipe pedestal etc. may rest in filled up soil with max. safe bearing capacity for design consideration not more than 3 T/m2.	Foundation over the filled up soil of 95% consolidation may be allowed.	Technical	Terms & conditions of the tender document will prevail.

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Clarifications to Queries raised during Pre-Bid Meeting

98	Sec+D42+C38	305	8.3	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.
99	Section-VII	234	3	Power Conditioning Unit	Kindly confirm whether string inverter/ Containerised PCU is acceptable	Technical	String inverters/ containerised PCU are acceptable.
100	Section-VII	328	1.4.1	PCU-Indoor & Outdoor	Also confirm whether Indoor/Outdoor PCU is acceptable as in Cl. 3.2 both are acceptable & in Cl.1.4.1 of Special Technical Conditions, only outdoor PCU is acceptable. Please confirm	Technical	All works shall be executed as per Technical Specifications given in Section VII-B. Section VII-C lays down Special Technical Specifications with reference to site specific design requirements. However, in case of any conflict in requirements between Section VII-C and Section VII-B, Section VII-C shall have the precedence.
101	Section-VII	313	21.2	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.
102		General		Basic Custom Duty	Also, the contractor will consider the custom duty as applicable during bid submission, however if there is any change in the duty after bid submission then the same will be reimbursable by M/s SCCL	Contractual	Kindly refer the "Change in Law" clause for the same
103		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.
104		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.
105		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.
106		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.	Contractual	Provisions of the Bidding documents shall prevail
107		General		Compliance to Public Procurement (Preference to Make in India), December Order 2018 and its Amendment, if any.	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
108					Purchaser to relax any specifications which restricts Bidders to adhere to this Order.	Contractual	Provisions of the Bidding documents shall prevail
109	Section-V	148	6	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
110	Section-V	149	6.7	Further, any delay beyond 30 (Thirty) days shall attract delay charges @ 1.25% per month on the total Contract Performance Security amount, calculated on pro-rata basis accordingly	We kindly request you to remove this clause	Contractual	Provisions of the Bidding documents shall prevail

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111	Section-V	148	6	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
112	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
113	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
114	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
115	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
116	Section-IV	97	25.3	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 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
117	Section-IV	94	20.0	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
118	Section-IV	130	81.1.4	Owner shall make all endeavour to make payments of undisputed amount of the bills submitted based on the joint measurements within 30 (Thirty) days from the date of certification by the Engineer-in-Charge/Project Manager.	We kindly request to reduce the date of payment from within 30 days to within 15 days from the date of certification as this is short term project and payment to be made as quick as possible for more workers to rope into the project and maintaining delivery schedule.	Contractual	Provisions of the Bidding documents shall prevail
119	Section-IV	130	81.1.4		Also please mentioned if there is penalty clause in case payment is not made within 30 days. Kindly include the clause suggesting if the payment is not made within 30 days then the payment along with the interest will be given by SECI-SCCL to the contractor	Contractual	No
120		General		Vendor Approval for Works	Kindly inform if any vendor approval for works is required	Technical	No except for Geo-technical investigation.
121	Section-VII	10	1.9	Supply of mandatory spares & special tools and tackles	Kindly specify the list of mandatory spares excluding modules to be provided by the bidder.	Technical	List of mandatory spares for each site is provided in Annexure-D. Kindly refer the Anexure-1 to Amendment-1.
122	Section-IV	116	58.4	All the spares, as required for the trouble-free comprehensive O&M of Plant, must be kept under secure storage during O&M period.	Kindly confirm if these are additional spares other than the mandatory spares or same. Also kindly mentioned the list of the these spares if different from mandatory spares	Technical	List of mandatory spares for each site is provided in Annexure-D. Kindly refer the Anexure-1 to Amendment-1.
123	Section-VII	General		Sub-Vendor List	No specific vendor list is being provided in the tender. Kindly inform whether bidder can proceed with their PMD vendors for raw material and bought out items.	Technical	Yes, bidder can proceed with their vendors for raw material and bought out items.
124	Section V	148	6	However, where value of BG is Rs.5 lakhs and above, the BG should be obtained from the bank branches situated at Hyderabad / Kothagudem or operative and payable at bank branches situated at Hyderabad/ Kothagudem.	This may not be possible for the contractor to get the BG issue from Branches of Hyderabad only, we request SCCL to accept BG from banks as mentioned in the tender from any branches.	SCCL	
125		SOR-2		O & M Charges on YoY basis must be in equal or in ascending order only.	O&M Charges my differ on YoY, pls allow bidders to assume O&M value as per their discretion.	Contractual	Provisions of the Bidding documents shall prevail

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Clarifications to Queries raised during Pre-Bid Meeting

126	Section-IV	216	7.1.1	All statutory approvals/permissions and/or No Objection Certificates (NoC) etc. from the DISCOM for obtaining connectivity at the substation as per Project Particulars provided above.	The is contradiction in two clauses, we infer that SCCL will take grid connectivity permission.pls confirm.	Technical	SCCL will take only the grid connectivity approvals, the remaining other approvals are to be obtained by EPC contractor only.
127	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	
128		GENERAL		Revised clarification after site visit	Due to lockdown in the country till 03.05.2020, we are unable to do site visit. we request SECI/SCCL to allow to allow to submit revised clarification after site visit and also extend the pre-bid meeting and bid submission date accordingly	Technical	SCCL to respond
129	Section-IV	84	2.3	Construction Water Supply	We request you to provide water free supply during execution and O&M Period	Contractual	Provisions of the Bidding documents shall prevail
130	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.
131	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 SECI/SCCL as per the IRDA rule	Technical	Terms & conditions of the tender document will prevail.
132		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.
133	Section-VII	306	9	Boundary wall/ Fencing	Please confirm if boundary wall is in the scope of SCCL	Technical	Boundary wall/Fencing as per specifications is in the scope of contractor.
134	Section-V	149	7	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
135	Section-VII	226	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	CUF of 22.8% is to be maintained as per clause no 1 of SOW.
136	Section-IV	131	85	Payment due to the Contractor shall be made by the Owner either by e-Banking or by Account Payee Cheque	We kindly request that "The Employer will establish an irrevocable Letter of Credit (L/C) in favour of the Contractor through the Employer's Bank in Employer's country for payments due for Supply" Kindly confirm	Contractual	Provisions of the Bidding documents shall prevail
137	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
138	Section-VII	206	1	132 kV/33 kV TSTRANSCO substation, Chennur 132 kV/33 kV TSTRANSCO substation, Asifabad	Kindly confirm the Substation details (bay availability, available feeders) in the substation. Also if during the execution of the contract, if SECI or SCCL propose new sub-station for evacuation then this calls for Price & Time implication under unforeseen circumstances/Additional Work and SECI-SCCL will bear the cost implication.	Technical	Bay availability and feeders availability has to be confirmed with TSTRANSCO/TSNPDCL .It is the responsibility of the EPC contractor.
139	Section-VII	316	27	Floating System	The modules shall be mounted facing south at fixed tilt. Please confirm	Technical	Module shall be mounted with fixed tilt. Contractor may select any tilt angle and orientation of PV modules to meet the PR and CUF requirement.
140	Section-VII	374	2.2	CUF Demonstration	Please inform if there is any LD on shortfall during O&M and the tariff at which LD will be computed	Technical	The equivalent amount to shortfall energy (kWh) generated has to be paid to SCCL at the rate of Rs.5.65 per unit.
141	SECTION - V SPECIAL CONDITIONS OF CONTRACT (SCC)	153	10	10.(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.

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142	SECTION - VII A. SCOPE OF WORKS	206	1	Project particulars, CUF : 22.8%	Please clarify that Contractor requires to maintain 22.8% 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	CUF of 22.8% (for 10 years) is to be maintained as per clause no 1 of SOW. 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.
143				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.
144	SECTION - VII B. TECHNICAL SPECIFICATIONS	264	9	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.
145	SECTION - VII B. TECHNICAL SPECIFICATIONS	248	6.3.12	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.
146	SECTION - VII B. TECHNICAL SPECIFICATIONS	267	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.
147	SECTION - VII B. TECHNICAL SPECIFICATIONS	270	12.3.4	SCB equipment/SPD 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 SCB? Please confirm	Technical	Terms & conditions of the tender document will prevail.
148	SECTION - VII B. TECHNICAL SPECIFICATIONS	369	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
149	SECTION - VII B. TECHNICAL SPECIFICATIONS	206	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
150	SECTION - VII B. TECHNICAL SPECIFICATIONS				Any particular spare list for electrical items? Please specify.	Technical	List of mandatory spares for each site is provided in Annexure-D. Kindly refer the Anexure-1 to Amendment-1.
151	SECTION - VII B. TECHNICAL SPECIFICATIONS	233	2.23	Every SCB 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.
152	SECTION - VII B. TECHNICAL SPECIFICATIONS	239	4.6 (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.
153	SECTION - VII B. TECHNICAL SPECIFICATIONS	263	8.5 (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.
154	SECTION - VII B. TECHNICAL SPECIFICATIONS	263	8.5 (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 & conditions of the tender document will prevail.

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155	SECTION - VII B. TECHNICAL SPECIFICATIONS	272	13.2	Protection level for the entire plant shall be Level-I.	The protection level of ESE-LA is Level-1, due to which the number of LA's 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.
156	SECTION - VII B. TECHNICAL SPECIFICATIONS	288	17.5.1	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.
157	SECTION - VII B. TECHNICAL SPECIFICATIONS				There is no specific energy guarantee mentioned. Please clarify	Technical	
158	SECTION - VII B. TECHNICAL SPECIFICATIONS				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.
159	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	Grid connectivity approval for STPP 10 MW FSPV is available (Attached with Clarifications) and for the 5 MW FSPV at Dorli OC-2 is under process. The evacuation voltage is at 33 kV level.
160	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	Getting the estimation from TSTRANSCO/TSNPDCL is the responsibility of the EPC firm
161	SECTION - VII A	3 OF 18	1	Electrical Interconnection Details STPP Storage Reservoir 132/33 KV TSTRANSCO substation located at Chennur(Kistampet) Dorli OC 2 Void (Accumulated water) 132/33 KV TSTRANSCO Substation located at Asifabad	Kindly confirm the details of connecting substation. Also provide grid connection letter for the same	Technical	Grid connectivity approval for STPP 10 MW FSPV is available (Attached with Clarifications) and for the 5 MW FSPV at Dorli OC-2 is under process.
162	SECTION - VII A	5 OF 18	2. 20	Site1: STPP 10 MW: Statutory approvals required for setting up of the project. Grid Connectivity approval is already obtained from TSNPDCL	If grid connectivity approval is obtained from TSNPDCL then please provide same.	Technical	Provided with Clarifications
163	SECTION - VII A	7 OF 18	2. 21	Site 2: DORLI OC2 5 MW: Statutory approvals required for setting up of the project. Grid Connectivity approval from TSNPDCL. SCCL has applied for grid connectivity approval.	can you please provide us timeline for approval of grid connectivity letter	Technical	The connectivity approval is in the scope of SCCL. It will be obtained before issue of LOI.
164	SECTION - VII A	13 OF 18	2. 22	Installation of CCTV cameras on strategic locations	Please mentioned number of CCTV cameras or location	Technical	No. of cameras shall be decided during detailed engineering. Kindly refer TS clause 19.1 for locations to be covered under surveillance.
165	SECTION - VII B	9 OF 106	1.3.1	For PV Modules with back sheet, toughened low iron glass with minimum thickness of 3.2 mm for multi or mono-crystalline modules	Assuming that 3.2 mm glass can be used for 72 cell PV module as well. Also, specify about additional requirement if any	Technical	Glass thickness shall be 3.2mm for 72 cell as well 60 cell module.
166	SECTION - VII B	9 OF 106	1.3.2	The Employer reserves the right to conduct Pressure Cooker (PC) test/ Highly Accelerated Stress Test (HAST) to confirm the durability of the back sheet in accelerated conditions.	There is no international standard for HAST / PCT as of now. Please clarify what will be checked?	Technical	Please refer S. No. 1 of Amendment-1
167	SECTION - VII B	16 Of 106	3.3.8	PCU front panel shall be provided with LCD/ LED to display all the relevant parameters related to PCU operation and fault conditions.	In case of out door inverters (IP54), kindly allow for inverter without LCD / LED display. Instead a Bluetooth enabled data can be provided to check the inverter parameters	Technical	Inverter without LCD display with provision for Data access over Bluetooth shall be acceptable. Refer the S. No.3 of Amendment-1
168	SECTION - VII B	24 OF 106	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.
169	SECTION - VII B	36 OF 106	7.3.10	Panel shall be provided with local bus-bar protection	Please specify the protections required	Technical	Terms & conditions of the tender document will prevail.
170	SECTION - VII B	43 OF 106	8.5 (ii)	Maximum voltage drop in LT cable (from inverter to inverter transformer) shall be limited to 0.5% of the rated voltage.	Kindly allow for 1 % voltage drop in LT Cable (from inverter to inverter transformer incise of string inverters	Technical	Terms & conditions of the tender document will prevail.
171	SECTION - VII B	44 OF 106	9.3	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 singe connection to the complete plant)	Technical	Terms & conditions of the tender document will prevail.
172	SECTION - VII B	52 OF 106	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.

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173	SECTION - VII B	76 OF 106	22.2	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	1) For 10 MW FSPV at STPP the transmission line length is about 20 km. 2)For 5 MW FSPV plant at Dorli OC-2 to connecting point at Dorli OC1 is about 3 km.
174	TS	12 OF 106	1.7.2	It is required to construct a temporary platform (graded) while keeping the modules at least above the highest flood level.	As the Panels are designed to work in open area, and the connectors are of IP65 & above rated, this shall be removed or modified.	Technical	Terms & conditions of the tender document will prevail.
175	TS	13 OF 106	2.2.4	DC switch disconnecter of suitable rating shall be provided at SCB output to disconnect both positive and negative side simultaneously.	SCBs shall be "Remote Operable for ON & OFF"	Technical	
176	TS	18 OF 106	4.2	Both solar and DC cables shall be marine grade cables complying with relevant standards.	As these cables are likely to be laid on "Floaters" and DC Cable from SCB (Off shore) to Invertor (On Shore), these need not be "Marine Grade". They are not designed to be under water.	Technical	
177	TS	69 OF 106	18.2.2	Contractor shall provide Built-in wireless modem placed on the Floating Platform for wireless transmission of Module temperature data to the SCADA	Can we consider below specs: a. Wifi for SCB communication which shall include RTD Analog Input in SCB with necessary Wifi APs on the Periphery using the LA / CCTV / Lamp Posts (Wifi to SCADA room shall be FO) b. FO for CCTV and other C&R c. Comm Cable for UPS / BattCharger / WMS , Anemometer connectivity to SCADA.	Technical	Terms & conditions of the tender document will prevail. Detailed scheme to be finalized during detailed engineering.
178	TS	78 OF 106	2.1	The contractor shall carry out detailed Topographical (on-shore) and Hydrographic survey of the proposed water body for floating solar project site	Any preliminary data of Bathymetry survey by SCCL shall be shared for cost estimation during pretender	Technical	No bathymetry survey was conducted earlier by SCCL.
179	TS	80 OF 106	4.7	The Contractor shall install water level gauges at critical locations (to be established during the survey) for recording daily & seasonal water level variations, low water level (LWL), high water level (HWL). The Contractor shall also collect data for daily water levels for preceding 10-15 years, LWL, HWL, High and Low tide etc. from Central water commission (CWC), state and local authorities. The contractor shall evaluate mean yearly values of MWL & LWL for 25 years return period using proven statistical data analysis software.	Please confirm if the existing "Water Level Gauges" can be used.	Technical	Terms & conditions of the tender document will prevail.
180	TS	98 OF 106	27.14	The Contractor shall get the design of the modular floating platform vetted and the prototype validated by IITs or NIOT, Chennai having Multi Element Wave Maker or other methodology as per the recommendation of the Institute and submit it for Employer's approval during detailed engineering.	Please allow any International labs also as some OEMs will have this testing done by respective labs overseas.	Technical	Labs with valid accreditation may be allowed.
181	TS	98 OF 106	27.6	The floats may be filled with virgin expanded polystyrene foam to increase the strength of the float and to serve as backup floatation system.	This is based on certain technology and all the OEMs may not use FOAM. This clause shall be diluted or removed.	Technical	Foam filling of Floats is not mandatory as per the Clause. It is suggested to provide backup stability to Floats.
182	TS	98 OF 106	27.1	All fasteners used in the floating system shall be made of SS 316.	Fasteners shall be of SS304 or SS316 as per the OEM design	Technical	Terms & conditions of the tender document will prevail.
183	Annexure A	5 OF 11	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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184	SCC	7 OF 11	10	Interest bearing adjustable initial advance (OPTIONAL) of 10% of the Contract Value (i.e., total sum of all the Supply Contract) shall be released to successful bidder upon receipt of unconditional acceptance of NOA, 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	O&M contract will be awarded on absolute value only & the payments will also be done accordingly.
185	SCC	4 OF 11	SCC 6	First Stage (Supply and Services): The value of the Contract Performance Security shall be 10% of the Contract Value (i.e., total sum of the Supply & Service Contract). This Performance security will be valid for a total period of 75 Months (12 Months Project commissioning period) + first half of the prescribed O & M Period, i.e. 60 Months + 03 Months additional) from the date of its issuance. The successful bidder can submit Contract Performance Security with initial validity of one year and the same may be extended every year till completion of the total 75 months period.	First Stage (Supply and Services): The value of the Contract Performance Security shall be 10% of the Contract Value (i.e., total sum of the Supply & Service Contract). This Performance security will be valid for a total period of 27 Months (12 Months Project commissioning period) + first half of the prescribed O & M Period, i.e. 60 12 Months + 03 Months additional) from the date of its issuance. The successful bidder can submit Contract Performance Security with initial validity of one year and the same may be extended every year till completion of the total 75 27 months period.	Contractual	O&M contract will be awarded on absolute value only & the payments will also be done accordingly.
186	SCC	4 OF 11	SCC 6	Second Stage (O&M): The Performance security shall be furnished 30 days prior to the completion of first stage Performance Security & it shall be equivalent to the 5% of the Contract Value (i.e., total sum of the Supply & Service Contract). This Performance security will be valid for a total period of 63 Months (Second half of the prescribed O & M Period, i.e. 60 Months + 03 Months additional) from the date of its issuance. The successful bidder can submit Contract Performance Security with initial validity of one year and the same may be extended every year till completion of the total 63 months period.	Second Stage (O&M): The Performance security shall be furnished 30 days prior to the completion of first stage Performance Security & it shall be equivalent to the 5% of the Contract Value (i.e., total sum of the Supply & Service Contract). This Performance security will be valid for a total period of 27 Months (Second half of the prescribed O & M Period, i.e. 24 Months + 03 Months additional) from the date of its issuance. The successful bidder can submit Contract Performance Security with initial validity of one year and the same may be extended every year till completion of the total 27 months period.	Contractual	O&M contract will be awarded on absolute value only & the payments will also be done accordingly.
187	SECTION VII	98 OF 106	27.6	The floats may be filled with virgin expanded polystyrene foam to increase the strength of the float and to serve as backup floatation system	Vacuum floats will be allowed? . Foam filled will increase the project cost and increase the project completion time frame.	Technical	Foam filling of Floats is not mandatory as per the Clause. It is suggested to provide backup stability to Floats.
188	ANNEXURE-C	Page 3 of 10	2.1.1	Eout Cumulative AC energy measured at the injection point (ABT meter) over the duration of reporting period (kWh)	Injection point means?. Plant end or SS end.	Technical	PR shall be calculated at plant end. Kindly refer S.no. 11 of Amendment-1
189	Scope of Work	4 of 18	1	PR - 80% and CUF - 22.8%	What is the reason in very high CUF and PR from the existing tenders? We request SECI to reduce the PR to 78% and CUF to 19%	Technical	Terms & conditions of the tender document will prevail.
190	Annexure to BDS	5 OF 6	1.4	JOINT VENTURE & CONSORTIUM CONDITIONS: In case the bid is submitted by a Joint venture (JV) or Consortium of two or more companies as partners, they must meet the following requirements: - 1.4.1 There can be a maximum of 03 (Three) partners in a JV/Consortium. The Lead partner of the JV/Consortium shall meet individually not less than 50% of minimum Financial Eligibility Conditions (MAAT & Working Capital) given at para 1.3 above. However, all the JV/Consortium partners must meet collectively 100% Financial Eligibility Conditions given at para 1.3 above. 1.4.2 All the partners of the JV/Consortium must meet collectively 100% of Technical Eligibility Conditions given at para 1.2 above.	Is Consortium between Group Companies allowed?	Financial	The provision of the Bidding Documents shall prevail
191	Annexure to BDS	5 OF 6	1.4.3	The net worth of each Partner of JV/Consortium should be positive.	As both the partners are collectively allowed to meet 100% of Financial Eligibility Criteria; and Lead Partner has to meet minimum 50% of financial criteria. So, we request SECI to waive off / dilute this condition with even 1 partner having positive Net Worth should be allowed.	Financial	The provision of the Bidding Documents shall prevail
192	Annexure to BDS	4 OF 6	1.3	The net worth for the last financial year should be positive. "Net Worth" of the Bidder shall be calculated as per the Companies Act, 2013.	"Net Worth" of the Bidder shall be calculated as per the Companies Act, 2013, and includes Compulsorily Convertible Preference Shares (excluding redeemable Preference Shares) and Compulsory Convertible Debenture (CCD).	Financial	The provision of the Bidding Documents shall prevail

Declaration : The compiled Pre Bid Queries have been reproduced on as it is basis, without any modifications.