

SOLAR ENERGY CORPORATION OF INDIA LIMITED, NEW DELHI						
Ref No. SECI/C&P/OP/11/0001/26-27/Clarification-01					Dated: 24-08-2026	
Clarification-01 to Balance of System Tender for Setting up of grid-connected 88 MW Ground mounted Solar PV plant at Chitradurga, Karnataka R/S No. SECI/C&P/OP/11/0001/26-27 dated 08.05.2026						
S. No.	Documents	Clause No.	Existing Clause	Proposed Modifications	Rationale/Remarks	SECI's response
1	Technical Tender Document 88 MW BoS P-1	SECTION - VII SUB- SECTION A SCOPE OF WORKS Projects Particulars Page No.6 to 7	Land Co-ordinates: 14.400556° N, 76.560833° E Substation Co-ordinate: 14.4884°N, 76.2955°E	It has been observed that the land and substation coordinates appear to be interchanged; kindly review and confirm the accuracy of the same.		Land and Substation co-ordinates are correctly specified. However, the interconnection point for the Project shall be an intermediate Switching Substation (not in the scope of the Contractor) in the vicinity of the Davangere 220 kV substation located approx. 32 km from the DRDO project site. Please refer S. No. 21 of Amendment-01.
2	Technical Tender Document 88 MW BoS P-1	SECTION - VII SUB- SECTION A SCOPE OF WORKS Projects Particulars Page No.6 to 7	Land Co-ordinates: 14.400556° N, 76.560833° E Substation Co-ordinate: 14.4884°N, 76.2955°E	Kindly confirm the scope of responsibility for transmission line routing and obtaining all statutory and regulatory clearances for the 34 km transmission corridor passing through highway and DRDO land, including the runway stretch.		Transmission line routing and obtaining all statutory and regulatory clearances for the transmission corridor, including National Highway crossing shall be in the Scope of the Contractor. The point of interconnection shall be an intermediate Switching Substation (not in the scope of the Contractor) in the vicinity of the Davangere 220 kV substation located approx. 32 km from the DRDO project site.
3	Technical Tender Document 88 MW BoS P-1	SECTION - VII SUB- SECTION A SCOPE OF WORKS Projects Particulars Page No.6 to 7	Land Co-ordinates: 14.400556° N, 76.560833° E Substation Co-ordinate: 14.4884°N, 76.2955°E	Kindly share the Transmission Line (TL) route survey map. Further, please clarify the scope responsibility for obtaining National Highway (NH) crossing approvals/permissions, whether under Owner's scope or Bidder's scope		Transmission line routing and obtaining all statutory and regulatory clearances for the transmission corridor, including National Highway crossing shall be in the Scope of the Contractor. The point of interconnection shall be an intermediate Switching Substation (not in the scope of the Contractor) in the vicinity of the Davangere 220 kV substation located approx. 32 km from the DRDO project site
4	Technical Tender Document 88 MW BoS P-3	Page-1	TENTATIVE LAND LAYOUT	Kindly provide the KMZ file along with land boundary details.		Please refer land boundary kmz file at S. No. 45 of Amendment-01.
5	Section VII – SOW	Project Particulars	DC Capacity specified as 123.2 MWp	Kindly confirm whether bidder may optimize DC/AC ratio during detailed engineering stage.	Clarification required for optimal plant design, inverter loading ratio and generation guarantee calculations.	Bidder may optimize DC/AC ratio during detailed engineering stage. However, it may be noted that Supply of PV Modules with total rated capacity of 123.2 MWp is in the Scope of the Owner.
6	Section VII – SOW	Power Evacuation	220 kV bay at Davangere PGCIL Substation	Kindly provide approved transmission line route length and corridor details.	Required for accurate estimation of transmission line cost, ROW assessment and execution timeline.	Transmission line routing and obtaining all statutory and regulatory clearances for the transmission corridor, including National Highway crossing shall be in the Scope of the Contractor. The point of interconnection shall be an intermediate Switching Substation (not in the scope of the Contractor) in the vicinity of the Davangere 220 kV substation located approx. 32 km from the DRDO project site
7	Section VII – SOW	Design Parameters	Basic Wind Speed: 33 m/s	Kindly confirm terrain category and topography factor applicable for MMS design.	Required for wind load analysis, structural optimization and pile design calculations.	Wind Loads with terrain category, topography factor and other parameters shall be as specified under Cl.10 'Design Loads', Applicable for MMS Structures.
8	Section VII – SOW	Functional Guarantee	Generation Guarantee during O&M	Kindly clarify exclusions applicable for generation guarantee calculations.	Required to establish generation guarantee boundaries for grid outages, force majeure and transmission constraints.	The exclusions applicable to generation guarantee/performance assessment shall be as specified in the Tender Documents and O&M Agreement. These include, inter alia, applicable grid/transmission constraints or outages, Force Majeure/Excluded Risk Events, etc. expressly identified under the relevant provisions. Bidders may refer to the applicable clauses of the Tender Documents for the detailed conditions, exclusions and requirements for establishing such events.
9	Section VII – SOW	Procurement & Supply	Unloading and storage of PV modules in EPC scope	Kindly clarify transfer point of module insurance responsibility between Owner and Contractor.	Required for risk allocation and insurance coverage planning.	Supply of PV modules (123.2 MWp) on FOR-Destination (Chitradurga, DRDO site), including freight, insurance is in the scope of the Owner. Unloading of the PV Modules supplied by the Owner shall be the responsibility of Contractor. However, Owner shall depute an authorized representative (of Owner's PV Module Supplier) to the site commencing from the date of delivery of first consignment till the completion of all Supplies for verification of receipt of the consignment in good condition, and to facilitate the handing over of the same to the Contractor. Any physical damages identified during the process shall be jointly documented in a measurement sheet. The Owner shall replace the damaged/defective modules identified as such. Subsequently, storage of the PV Modules shall be in the Scope of the Contractor. This handover of the PV Modules from the Owner's Supplier to the Contractor shall be the point of transfer of module
10	Section VII – SOW	Procurement & Supply	EPC responsible for module damage after takeover	Kindly clarify inspection, acceptance and damage reporting procedure for incoming modules.	Required to avoid ambiguity in module accountability and acceptance criteria.	PV modules shall be jointly inspected by the Employer and the EPC Contractor upon delivery at site. Any transit damage or shortages identified during joint inspection prior to handing over shall be addressed by the Employer under the module supply contract. Upon joint acceptance and handover of the PV modules, responsibility for their safe handling, storage and any subsequent damage shall rest with the EPC Contractor as per the Tender.
11	Section VII – SOW	Procurement & Supply	33 kV Switchgear may be placed on elevated platform	Kindly specify minimum platform/plinth height requirement for 33 kV switchgear installation.	Required for civil estimation and flood/waterlogging protection design.	Please refer Clause 5.1 of the Civil Technical Specifications. The minimum plinth level for all buildings/open installations shall be 450 mm above the Finished Grade Level (FGL).
12	Section VII – SOW	Procurement & Supply	PMU required as per CEA regulations	Kindly confirm PMU quantity requirement and approved OEM list.	Required for accurate system architecture and cost estimation.	As per "Guidelines on Unified Philosophy for Placement of Phasor Measurement Unit (PMU) in Indian Grid" issued by the CEA
13	Section VII – TS Electrical	Transformer	Transformer design as per applicable standards	Kindly confirm acceptable transformer impedance tolerance limits.	Required for fault calculations and parallel operation studies.	Transformer impedance tolerance shall be as per the applicable IEC/IS standards unless otherwise specified in the Tender. The Contractor shall ensure that the offered transformer complies with all technical specifications, performance guarantees, protection coordination requirements, and grid requirements at the Point of Interconnection (POI).
14	Section VII – TS Electrical	Transformer	Fire protection system required	Kindly specify minimum fire separation distance between transformers.	Required for switchyard layout and compliance with fire safety standards.	Shall be as per CEA regulations.
15	Section VII – TS Electrical	Transformer	Main transformer included	Kindly confirm whether spare transformer is in bidder scope.	Required for accurate project costing and spare philosophy definition.	Please refer Sub-Section-D General Annexure B: Mandatory Spares for the list of Spares. Supply of Spare transformer is not in the scope of the Contractor.

16	Section VII – TS Electrical	NIFPS	NIFPS required for transformers above 2000L oil	Kindly provide approved makes/vendor list for NIFPS system.	Required for vendor qualification and cost estimation.	SECI does not maintain any approved vendor list for the NIFPS system. The Contractor may propose any make/vendor meeting the technical specifications and applicable standards stipulated in the Tender. Approval shall be accorded to vendors whose products are found compliant with the Tender requirements during the detailed engineering stage.
17	Section VII – Civil TS	Geotechnical	Geotechnical investigation in bidder scope	Kindly clarify methodology for treatment of hard rock encountered during piling works & during cabling	Required to assess execution risk and civil cost implications.	Assessment of methodology for treatment of Rock/soil (If required) shall be in the scope of the Bidder. Terms and conditions of tender shall prevail.
18	Section VII – Civil TS	Corrosion Protection	Corrosion Class C3 specified	Kindly confirm minimum coating system design life requirement.	Required for selection of galvanization/coating system and lifecycle compliance.	The Project shall be designed considering a corrosion category of C3. However, wherever the Tender specifies painting or corrosion protection requirements more stringent than those corresponding to Corrosion Category C3, the higher requirement specified in the Tender shall prevail.
19	Section VII – Civil TS	Galvanization	Galvanized structures envisaged	Kindly confirm acceptable galvanization thickness tolerance limits.	Required for vendor compliance and QA/QC planning.	Galvanization thickness tolerances shall be as per relevant IS code. However, this shall be finalized during detailed engineering.
20	Section VII – Civil TS	General	Site details not provided	Kindly share KMZ/KML file for complete project site.	Required for route planning, layout optimization and preliminary engineering assessment.	Refer to Specific Annexure A, "Tentative Land Layout," for the site details. The KMZ file is also attached.
21	Section VII – SOW	Transmission Line	220 kV transmission line included	Kindly confirm final approved route length for transmission line.	Required for accurate transmission line costing and execution planning.	The Point of Interconnection shall be the intermediate Switching Substation, which is outside the scope of the Contractor, located in the vicinity of the Davangere 220 kV Substation, approximately 32 km from the Project Site. The Contractor shall establish the final transmission line route alignment and route length during route reconnaissance, detailed route survey and route alignment optimization.
22	Section VII – SOW	Transmission Line	Transmission line in bidder scope	Kindly confirm whether detailed route survey is in bidder scope.	Required for scope demarcation and survey planning.	Yes. The Contractor's scope shall include route reconnaissance, detailed route survey, route alignment optimization, profiling, tower spotting, preparation of route maps and tower schedules, geotechnical investigations, and all associated engineering activities required for design and construction of the transmission line up to the Point of Interconnection.
23	Section VII – SOW	Transmission Line	ROW and approvals in bidder scope	Kindly clarify present ROW availability status.	Required to assess execution feasibility and associated risks.	The Contractor shall be responsible for identification of the transmission corridor and obtaining all statutory and regulatory approvals, Right of Way (RoW), wayleave permissions, National Highway crossing approvals and all other clearances required for construction of the transmission line up to the Point of Interconnection.
24	Section VII – SOW	Transmission Line	Transmission line construction included	Kindly confirm whether any railway crossings exist in proposed route.	Required for crossing approvals, tower design and schedule assessment.	The Contractor shall ascertain all railway crossings during route reconnaissance and detailed route survey and optimize the transmission line alignment accordingly.
25	Section VII – SOW	Transmission Line	Transmission line scope included	Kindly confirm whether any river/nallah crossings exist in line route.	Required for route feasibility and foundation design assessment.	The Contractor shall ascertain all river, nallah and utility crossings during route reconnaissance and detailed route survey and finalize the transmission line alignment and design accordingly.
26	Section VII – SOW	Transmission Line	220 kV line construction included	Kindly confirm whether emergency restoration system/towers are required in bidder scope.	Required for accurate transmission line BOQ estimation.	Emergency Restoration System (ERS) is not envisaged under the scope of this Tender.
27	Section VII – TS Electrical	Plant Pooling Substation	Plant pooling substation included	Kindly confirm future bay extension provision requirements.	Required for switchyard layout planning and space reservation.	Space provisions for Future Bay extensions shall be considered during detailed engineering. Please refer to Amendment-01
28	Section VII – TS Electrical	SCADA	SCADA system included	Kindly confirm whether SCADA gateway redundancy is mandatory.	Required for architecture finalization and server/network sizing.	Terms and conditions of tender shall prevail.
29	Section VII – TS Electrical	Plant Pooling Substation	Substation equipment included	Kindly confirm whether separate marshalling kiosks are required for each bay.	Required for switchyard BOQ and layout finalization.	To be determined during detailed engineering.
30	Section VII – SOW	Statutory Approvals	Approvals in bidder scope	Kindly clarify scope bifurcation between Employer and Contractor for Grid connectivity related approvals.	Required to avoid ambiguity in coordination responsibility with CTU/RLDC/Grid India.	The Employer is already in possession of the Grid Connectivity letter at the 220 kV substation in Davangere vide Bay Sharing aAgreement with Adyant Enersol (Lead Generator) The Contractor shall be responsible for providing all engineering inputs, drawings, documents and technical assistance required in connection with such approvals, and for obtaining all statutory and regulatory clearances associated with CON4 Approvals.
31	Section VII – TS Electrical	Communication System	Communication network required	Kindly confirm redundancy philosophy for communication network.	Required for network design and reliability planning.	The communication network architecture and redundancy philosophy are specified in the respective sections of the Tender. Detailed implementation shall be finalized during detailed engineering in compliance with the Tender requirements.
32	Section VII – Civil Works	Water Supply	Water arrangement in contractor scope	Kindly confirm availability of water source for module cleaning during O&M period.	Required for O&M planning and water infrastructure assessment.	Assesment of water sources is in the scope of the Bidder.
33	Section VII – O&M Agreement	O&M Scope	Comprehensive O&M included	Kindly provide detailed exclusions under comprehensive O&M scope.	Required to clearly define contractual responsibilities and operational risk allocation.	Please refer the Scope of Work and O&M Agreement. The O&M scope is comprehensive for day-to-day operation and maintenance of the Plant Facility, including maintenance of the electrical system and overhead transmission line up to the Point of Interconnection (PoI), as specified in the Tender. No additional exclusions are envisaged.
34	Section VII – O&M Agreement	1 CONTRACT PERIOD	The term of employment under this Agreement shall begin on the date of signing of this O&M Agreement, by and between the Employer and the Contractor (the "Effective Date" or "Commencement Date") and unless terminated earlier as set forth herein, shall continue through and including the tenth (10th) anniversary of the Effective Date.	Kindly clarify whether the 5-year O&M price schedule is only for bid evaluation and confirm that the O&M execution period remains 10 years.	O&M period mentioned as 10 years from Operational Acceptance, while SoR includes pricing for 5 years only.	This is a typographical error. O&M Period is 5 years. Please refer to S. No. 46 of Amendment-01.
35	Tender Documents	4.4.2 JOINT VENTURE & CONSORTIUM CONDITIONS:	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 above.	Request to consider cumulative MAAT & Working Capital of both partners		Tender conditions remain unchanged.

36	Sub-Section-E Specific Annx-C	3.4.iii	Tilt Angle	Since the RfP called with Tilt angle as 10°, bidder shall stick with the same for their design. Kindly confirm.		The tilt angle and other design parameters indicated in the Project-specific Annexure are indicative. The Bidder may propose an alternative configuration during detailed engineering, subject to compliance with the Tender requirements, achieving equal or better performance, and approval by the Employer.
37	Section-VII (TS) Sub Section-C	6.1	Suitable approach road (as applicable) from nearest public road up to plant Main gate	Since the provided plant co-ordinates are not clear, requesting SECI to provide .kmz with clear boundary marking and nearest public road.		Refer to Specific Annexure A, "Tentative Land Layout," for the site details. The KMZ file is also attached. Assessment of approach road is in the scope of bidder.
38	Section-VII (TS) Sub Section-C	3.4	Transmission line drawings and erection plans as per DISCOM / STU / CTU guidelines	Bidder requesting to follow the DISCOM guidelines and specification for 220KV TL. Kindly confirm.		The transmission line shall be designed, engineered and constructed in accordance with the applicable CEA Regulations, relevant IS/IEC Standards, applicable Grid Code requirements, wherever applicable.
39	Section-VII (TS) Sub Section-C	16.2.3	Storage cabin for plant Spare	Bidder requesting to indicative area of Store shed		Contractor shall provide storage cabin having area adequate for storage of plant spares including PV Modules, cables, MMS spares, etc. subject to a min. area of 450 m2.
40	Section-VII (TS) Sub Section-A	1	Site Location and Land Details	Since the given co-ordinates are mismatching, requesting SECI to provide clear co-ordinates of Proposed land, Tapping point of 220KV TL and PGCIL Substation.		The Project Site and Davangere 220 kV Substation coordinates are correctly specified in the Tender. However, the Point of Interconnection (PoI) for the Project shall be an intermediate Switching Substation (not in the scope of the Contractor) in the vicinity of the Davangere 220 kV Substation, located approximately 32 km from the DRDO Project Site. Please refer to S. No. 21 of Amendment-01.
41	SPECIFIC ANNEXURE-B: INDICATIVE SLD		SLD shows 1no of 220KV Outgoing line bay.	As highlighted in Pre-bid meeting, the 220KV evacuation with LILO arrangement, whether Double Circuit 220KV TL needs to be constructed? Also 2 no's of 220KV Line bay to be considered? Kindly confirm		Please refer to Amended SLD as per S. No. 41 Amendment-01. Details shall be finalised during detailed engineering.
42	General			As highlighted in Pre-bid meeting, as the 220KV line with LILO arrangement, how the grid the grid study to be carried out?. Grid study only for 88MW or total 300MW? Need clarity.		The Bidder shall develop the Project model up to the Point of Interconnection (POI). The Grid Interconnection Studies shall be carried out using a composite network model comprising the subject Project and the Adyant Enersol RE Plant connected to the intermediate Switching Substation. The Owner shall facilitate the Adyant Enersol project model and coordinate the external network model beyond the POI. The studies shall consider the energized state of the Adyant Enersol RE Plant, with the study reference point at the 220 kV bay of the PGCIL 220 kV Davangere Substation. The final sizing of reactive power compensation and harmonic mitigation equipment shall be based on the approved Grid Interconnection Studies during detailed engineering.
43	Section-VII (TS) Sub Section-C	13.7	B.Hot-dip Aluminium- Zinc Alloy Coated Steel Strips and Sheets	Bidder requesting to use AZ-150 instead of AZ 200 (IS 15961). Also, requestin SECI to use Galvalume Bracings for MMS Super structure. Kindly confirm		Terms and conditions of tender shall prevail.
44	Section-VII (TS) Sub Section-C	14.3	Cement higher than 43 Grade shall not be used in construction.	Bidder requesting to use OPC-53 grade cement for construction. Kindly Confirm.		please refer to S. No. 34 of Amendment-01.
45	Section-VII (TS) Sub Section-C	5.4	The contractor is responsible for making the site ready and easily approachable by clearing bushes, felling of trees (mandatory permissions/ licenses/ statutory clearances from competent authorities if required for cutting of trees, blasting or mining operations, disposal of waste material etc. shall be obtained by the contractor)	Requesting SECI to take care of obtaining forest clearances to removal of trees / de-forestations		Obtaining all such approvals shall be in the Bidder's scope. The terms and conditions of the tender shall prevail.
46	Section-VII (TS) Sub Section-A	1	Project Particulars Plant End Substation Switching Scheme (220 kV)	Since LILO arrangements informed by SECI during pre-bid meeting, requesting SECI provide revised SLD		Please refer to S. No. 21 of Amendment-01.
47	Technical			As highlighted in Pre-bid meeting, Requesting SECI to provide capacity of SVG and Harmonics filter to quote		The requirement and sizing of Reactive Power Compensation and Harmonic Filtering equipment shall be determined by the Bidder based on the Grid Interconnection Studies to be carried out during detailed engineering, in accordance with the Tender requirements and applicable Grid Code/IEGC. The Bidder shall ensure compliance with all grid performance requirements at the Point of Interconnection (PoI). The proposed solution shall be subject to the approval of the Employer.
48	Section-VII (TS) Sub Section-A	7.6	The Contractor shall comply with 'Report of the Working Group in respect of Data Submission Procedure and Verification of Compliance to CEA Regulations on Technical Standards for Connectivity to the Grid by RE Generators' and amendments thereof.	The given clause is generic. Requesting SECI to provide clear technical specifications for SVG, Harmonic Filters, Power Quality Meters, Phasor Measurement Unit, and if any additional facilities required as per CEA guidelines		Please refer to S. No. 31 of Amendment-01.
49	General			Requesting SECI to provide site visit report with photographs indicating soil strata for pile foundation type considerations.		Assessment of site requirements is in the scope of the Bidder.
50	General			Requesting SECI to provide nearby public / village road details to made a approach road to plant. Details required in the form of .kmz file.		Assesment of Approach road requirements is in the scope of the Bidder.
51	Section-VII (TS) Sub Section-A	1	Project Particulars Cumulative Inverter (PCU) AC Capacity (Solar) XX MVA to deliver 88 MW with PF range -0.95 to +0.95 at 50°C at Point of Interconnection (POI).	Need more clarity in this regard. Whether 40 KM's transmission line losses also to be considered for this clause? Kindly confirm		The Bidder shall consider the losses in the dedicated transmission system within the scope of the Works while sizing the inverter capacity to meet the Tender requirements at the Point of Grid Interconnection (PoI).
52	Section-VII (TS) Sub Section-A	4	Inverter Transformer and Auxiliary Transformer	Bidder proposing the Inverter Transformer winding materials as Electrolytic Aluminium. Kindly confirm.		Technical Specifications do not specify the same. Bidder is free to choose the transformer winding material.
53	SPECIFIC ANNEXURE-B: INDICATIVE SLD			Bidder proposed 3Core cables for 33KV HT cables. Kindly confirm		This is a subject for detailed engineering.
54	SPECIFIC ANNEXURE-B: INDICATIVE SLD			Indicative SLD shows 11 Runs/Phase for 4.4MW inverter seems. Bidder proposing cables sizing as per actual design. Kindly confirm		SLD is indicative in nature. Bidder shall size cables as per technical specifications and project requirements during detailed engineering.
55	SPECIFIC ANNEXURE-B: INDICATIVE SLD			Since 33KV Main HT Switchboard (Located at MCR) having MFM for each feeders, Bidder requesting not to consider MFM, Line PT's at ICOG panel and to use VPIS for Input voltage checking as major PSU following such schemes. Kindly confirm.		Terms and Conditions of the tender shall prevail.

56			Pls provide Soil Test Report			Assessment of Approach road requirements is in the scope of the Bidder.
57			Pls provide Earth Resistivity Test report			The Earth Resistivity Test Report is not available. The Bidder shall carry out the requisite soil resistivity investigations and tests as part of the detailed site investigations and design, in accordance with the scope of the Tender.
58			What is the total length of the transmission line that needs to be constructed, in kilometers?			The Point of Interconnection (PoI) shall be an intermediate Switching Substation in the vicinity of the Davangere 220 kV Substation, located approximately 32 km from the DRDO Project Site. The Contractor shall determine the final transmission line route and length through detailed route survey.
59	Contractual_Tender_document_88_MW_SPV_BoS	4, Pg no.: 79	The Lead partner of the JV/Consortium shall meet individually 100% of Technical Eligibility Conditions given at para above.	Any partner of the JV/Consortium shall meet individually 100% of Technical Eligibility Conditions given at para above.		Tender conditions remain unchanged.
60	Technical_Tender_Document_88_MW_BoS_P-1	5.16; Pg no. 15	Installation, Testing and Commissioning of 220 kV Over Head Transmission Line / Underground Cable from 33/220 kV Plant Pooling Substation to Interconnecting Substation as per CTU drawings /specifications including Right of Way, permits and approvals, CTU supervision and maintenance charges.	Kindly clarify who will be responsible for payment of compensation, if demanded by farmers or landowners for crop loss, land damage, or any other claims during execution of cable laying works.		The Contractor shall be responsible for obtaining the Right of Way (RoW), including payment of compensation towards crop loss, land damage and other claims arising from execution of the Works, in accordance with applicable statutory provisions.
61	Technical_Tender_Document_88_MW_BoS_P-1	4; Pg no. 15	Inverter Transformer & Auxiliary Transformer	Kindly clarify the inverter duty transformer winding shall be aluminium or copper		Technical Specifications do not specify the same. Bidder is free to choose the transformer winding material.
62	Contractual_Tender_document	ITB No.14 (Page 8 of 254) - E REVERSE AUCTION	The EMPLOYER shall conduct e-Reverse Auction (e-RA), as per provisions of Instructions to Bidders (ITB) of Tender documents.	E-reverse shall not permitted	We respectfully request SECI to consider removal of the e-Reverse Auction (e-RA) provision from the tender. 1.Quality and Technical Focus 2.Risk of Unrealistic Pricing & Market Volatility - Ongoing fluctuations in prices of major components, raw materials, logistics, and financing costs because of current Gulf War create uncertainty in accurate price discovery during dynamic auction processes. 3.Encouraging Healthy Competition	Tender conditions remain unchanged.
63	Contractual_Tender_document	ITB No.16 (Page 26 of 254) - E REVERSE AUCTION	EARNEST MONEY DEPOSIT (EMD)		Kindly confirm whether MSME companies are exempted from submission of Earnest Money Deposit (EMD) under this tender.	Please refer to Annexure to Bid Data Sheet (BDS) Qualifying Requirements.
64	Contractual_Tender_document	SCC No.9 (Page 166 of 254) - Contract Performance Security	First Stage (Supply and Services): The value of the Contract Performance Security shall be 10% (Ten percent) of the Contract Value (i.e., total sum of the Supply & Service Contract). This Performance security will be valid for a total period of 81 Months (18 Months Project commissioning period + 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 36 months and the same may be extended after every 36 months till completion of the total 81 months period.	First Stage (Supply and Services): The value of the Contract Performance Security shall be 3% (Three percent) of the Contract Value (i.e., total sum of the Supply & Service Contract). This Performance security will be valid for a total period of 81 Months (18 Months Project commissioning period + 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 36 months and the same may be extended after every 36 months till completion of the total 81 months period.	We request SECI to kindly consider reducing the PBG requirement from 10% to 3% of the annualized contract value. Utility-scale Renewable Energy and BESS projects are highly capital-intensive, and such a high BG requirement significantly increases the financial burden and project financing cost. Current industry practice and prevailing government procurement guidelines for infrastructure and renewable energy projects generally prescribe Performance Bank Guarantee values in the range of 3% to 5% of the contract value. Reduction of PBG to 3% would improve cash flow management, enable competitive tariff discovery, and encourage wider participation from financially and technically capable bidders without compromising project execution security.	Tender conditions remain unchanged.
65	Contractual_Tender_document	SCC No.9 (Page 166 of 254) - Contract Performance Security	The successful bidder can submit Contract Performance Security with initial validity of 36 months and the same may be extended after every 36 months till completion of the total 81 months period.	The successful bidder can submit Contract Performance Security with initial validity of 12 months and the same may be extended after every 12 months till completion of the total 81 months period.	We request SECI to kindly consider the below request based on the following considerations and justifications: 1.Banking and Financial Practicality :- Most banks and financial institutions generally issue Bank Guarantees with shorter validity periods, typically 12 months, with annual renewal mechanisms. Obtaining long-tenure guarantees of 36 months or more significantly limits banking flexibility and increases processing complexity. 2.Reduction in Financial Burden :- Long-duration Bank Guarantees attract higher commission charges, margin requirements, and blocking of working capital limits for extended periods. Annual renewal would optimize financial resources without impacting the security coverage available to SECI.	Tender conditions remain unchanged.
66	Contractual_Tender_document	SCC No.15 (Page 166 of 254)-Schedule of Rates & Payments	A. The payment for the Supply Portion of the First Contract (Supply Contract) shall be made as per the following terms and conditions: i) Interest free initial advance (OPTIONAL) of 10% of the Contract Value (i.e., total sum of all the Supply Contract) shall be released to the contractor upon receipt of unconditional acceptance of CA, detailed Performa invoice of contractor and against submission of unconditional & irrevocable Advance Bank Guarantee (ABG, Format 33) 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.	i) Interest free initial advance (OPTIONAL) of 10% of the Contract Value (i.e., total sum of all the Supply Contract) shall be released to the contractor upon receipt of unconditional acceptance of CA, detailed Performa invoice of contractor and against submission of unconditional & irrevocable Advance Bank Guarantee (ABG, Format 33) /Insurance Surety Bond 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.	We request SECI to consider permitting submission of an Insurance Surety Bond also issued by IRDAI- approved insurers.	Please refer to Amendment-01.

67	Technical_Tender_Document_88_MW_BoS_P-1	5.13 (Page No. 15 of 175) - Installation, Testing and Commissioning	Installation, Testing and Commissioning of 33 kV CMCS Pooling Switchgear.		Power Substation (PSS) Location & Capacity: 1. Confirmation required on the 88MW PSS capacity with 80/100MVA, 220/33KV. 2. Kindly confirm whether the PSS location identified during the survey can be constructed towards the Point of Interconnection (POI), either within the DRDO campus or outside the DRDO campus limits.	1. Substation shall be designed and constructed for evacuation of 100 MVA with the Power Transformer Size as 100 MVA, 220/33 kV. 2. Plant-side Pooling Substation shall be located within the offered land parcels. Location can be finalised during detailed engineering. Pooling substation shall be located approx. 32 km from the project site, the coordinates of which shall be shared by SECI subsequently.
68	Technical_Tender_Document_88_MW_BoS_P-1	5.16 (Page No. 15 of 175) - Installation, Testing and Commissioning	Installation, Testing and Commissioning of 220 kV Over Head Transmission Line / Underground Cable from 33/220 kV Plant Pooling Substation to Interconnecting Substation as per CTU drawings/specifications including Right of Way, permits and approvals, CTU supervision and maintenance charges.		220KV Transmission Line: Details required regarding the type of tower to be used for the POI, along with the tower schedule connecting to the PGCIL 400KV station.	Tower type etc. shall be finalised during detailed engineering. Additionally, please refer to S. No. 21 of Amendment-01.
69	Technical_Tender_Document_88_MW_BoS_P-1	5.16 (Page No. 15 of 175) - Installation, Testing and Commissioning	Installation, Testing and Commissioning of 220 kV Over Head Transmission Line / Underground Cable from 33/220 kV Plant Pooling Substation to Interconnecting Substation as per CTU drawings/specifications including Right of Way, permits and approvals, CTU supervision and maintenance charges.		Existing 220KV Line Details: 1. Please provide the conductor type and 220KV bay details for the PGCIL connection. 2. As stated during pre-bid meeting, clarification is needed on how the existing line accommodates the evacuation of 300MW of power.	1. Conductor type for the transmission line till the point of interconnection shall be sized by the Bidder during detailed Engineering and finalised subject to Employer Approval. Please refer to the Amended SLD in Amendment-01. 2. Please refer to Amendment-01.
70	Technical_Tender_Document_88_MW_BoS_P-3	2.5 (Page No. 15 of 175) - Grid Compliance Study:	The Contractor shall, while rendering the Services, observe and comply with all the Applicable Laws, Good Solar Industry Practices, Ministry of New & Renewable Energy (MNRE), Ministry of Power (MoP), CEA, CERC, GRID India, SLDC/RLDC, Local DISCOM & TRANSCO, CTU guidelines and Performance Standards pursuant to the contract. The Employer shall have the right to, to the extent applicable to Services rendered by the Contractor, conduct monthly audit on Applicable Laws, health, safety and environment and all other relevant compliances. The Contractor shall provide all necessary access and supporting documents during audit which are applicable to the same. However, such audits will be planned well in advance in coordination with the Contractor, without affecting the site operation plan		Grid Compliance Study: SECI confirmed that a Grid Compliance Study is required. Please share all relevant details and data required from the PGCIL/Transmission team to conduct Dynamic, Static Studies, Power Quality, and Protection Co-ordination studies.	Details from PGCIL/Transmission team shall be shared with the successful Bidder post-award.
71		Topographical Survey			Solar PV Plant Land & Surveys: For the 405 Acres of solar PV plant land, please share the Topographical Survey, KMZ file, and any other relevant survey reports.	Refer to Specific Annexure A, "Tentative Land Layout," for the site and Contour details. The KMZ file is also attached.
72	Price Adjustment			Price Adjustment Clause	Considering the current West Asia conflict and the resulting volatility in international logistics, fuel prices, shipping charges, insurance costs, and critical equipment supply chains, we request SECI to include a suitable Price Adjustment Clause in the tender. The present market conditions are beyond the control of bidders and may materially impact project execution costs during the contract period. Inclusion of a PAC would promote wider participation, competitive pricing, and smoother project implementation.	Tender conditions remain unchanged.
73	Contractual_Tender_document_88_MW_SPV_BoS	Qualifying Requirements- Clause No.2	IA. The bidder should have experience in EPC execution of Ground mounted Solar PV Projects on Turnkey basis, Installation and Commissioning of Grid connected Solar PV Power Plant of cumulative Capacity not less than 44 MW (Forty-Four) MW with at least two individual projects of 9MW or higher in last seven years as on last date of bid submission. However, such Grid connected Solar PV Power Plant capacity must have been in satisfactory operation for at least six (06) months prior to the last date of bid submission.	The qualification requirement appears relatively higher compared to the scale of the project. For reference, in NTPC's latest 1200 MW BOS Solar EPC tender (2 × 450 MW + 1 × 300 MW), the technical qualification criteria for the biggest block of 450 MW requires cumulative installed capacity of 40 MWp or higher, with at least one project of 10 MWp or above. It is a kind request from SECI to consider relaxation in the qualification criteria for the 88 MW Solar BOS EPC tender. Also, have attached the NTPC NIT for reference.		Tender conditions remain unchanged.
74	Contractual_Tender_document_88_MW_SPV_BoS	Qualifying Requirements- Clause No.2- Route III	The Bidder should have executed an Industrial project either as developer or as EPC Contractor in the area of Power/ Steel/ Oil and Gas/ Petro-Chemical/Fertilizer/Cement/Coal mining including Coal handling plant / Infrastructure and/ or any other process industry, of a value of INR 117.25 Crores or more in a single project. AND The Bidder should have executed at least one Electrical Sub-station of 33 kV or above voltage level, either as developer or as EPC Contractor which should be in successful operation for at least six months prior to the date of techno-commercial bid submission.	The qualification requirement appears relatively higher compared to the scale of the project. It's a kind request from SECI to consider providing relaxation in the qualification criteria for the 88 MW Solar BOS EPC tender.		Tender conditions remain unchanged.
75	Contractual_Tender_document_88_MW_SPV_BoS	Qualifying Requirements- Clause No.3	a. The MAAT of the bidder in the last three financial years (i.e. FY 2024-25, 2023-24 & 2022-23) should be INR 70.35 Crore. AND b. The net worth for the last financial year should be positive. AND c. The bidder should have a minimum Working Capital (WC) of INR 39.08 Crore as per the last audited annual financial year statement.	The financial qualification requirement also appears relatively stringent considering the scale of the project. For reference, in NTPC's latest 1200 MW BOS Solar EPC tender (2 × 450 MW + 1 × 300 MW), the average annual turnover requirement for the 300 MW block is INR 53 Cr during the preceding three financial years. It is a kind request from SECI to consider relaxation in the financial qualification criteria for the 88 MW Solar BOS EPC tender. Also, attaching the NTPC NIT for reference.		Tender conditions remain unchanged.

76	Technical_Tender_Document_88_MW_BoS_P-3		Land layout and Indicative SLD	It's a kind request from SECI to provide KMZ, geo-technical, topographical reports for our comprehensive working.		Refer to Specific Annexure A, "Tentative Land Layout," for the site and Contour details. The KMZ file is also attached.
77	Contractual_Tender_document_88_MW_SPV_BoS	Clause 4 – JOINT VENTURE & CONSORTIUM CONDITIONS	The Lead partner of the JV/Consortium shall meet individually 100% of Technical Eligibility Conditions given at para above	Any JV partner of the JV/Consortium shall meet individually 100% of Technical Eligibility Conditions given at para above.		Tender conditions remain unchanged.
78	Contractual_Tender_document_88_MW_SPV_BoS	4.1 Clause 4 – JOINT VENTURE & CONSORTIUM CONDITIONS 4.2	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 above. However, all the JV/Consortium partners must meet collectively 100% Financial Eligibility Conditions given at para above. Herein, apart from the Lead partner, a minimum of 25% Financial eligibility should be met individually by all other partners of the JV/Consortium.	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 30% of minimum Financial Eligibility Conditions (MAAT) and 10 % of Working Capital given at para above. However, all the JV/Consortium partners must meet collectively 100% Financial Eligibility Conditions given at para above. Herein, apart from the Lead partner, a minimum of 25% Financial eligibility should be met individually by all other partners of the JV/Consortium.		Tender conditions remain unchanged.
79	Contractual_Tender_document_88_MW_SPV_BoS	Clause 3(a) – Financial QR	Minimum Average Annual Turnover (MAAT): The MAAT of the bidder in the last three financial years (i.e. FY 2024-25, 2023-24 & 2022-23) should be INR 70.35 Crore.	We request SECI to kindly consider reducing the Minimum Average Annual Turnover (MAAT) requirement from INR 70.35 Crores to INR 60 Crores to enable wider participation from experienced EPC bidders and enhance competitive bidding.		Tender conditions remain unchanged.
80	Contractual_Tender_document_88_MW_SPV_BoS	Clause 3(c) – Financial QR	Working Capital: The bidder should have a minimum Working Capital (WC) of INR 39.08 Crore as per the last audited annual financial year statement.	We request SECI to kindly reduce the minimum Working Capital requirement from INR 39.08 Crores to approximately INR 14 Crores to encourage wider participation from capable EPC contractors.		Tender conditions remain unchanged.
81	Contractual_Tender_document_88_MW_SPV_BoS	Clause 4.2 – Joint Venture & Consortium Conditions	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 above. However, all the JV/Consortium partners must meet collectively 100% Financial Eligibility Conditions given at para above. Herein, apart from the Lead partner, a minimum of 25% Financial eligibility should be met individually by all other partners of the JV/Consortium.	We request SECI to kindly allow all JV/Consortium members collectively to fulfill the Financial Eligibility Criteria including Minimum Average Annual Turnover (MAAT) and Working Capital requirements without mandatory minimum contribution criteria for the Lead Member.		Tender conditions remain unchanged.
82	Contractual_Tender_document_88_MW_SPV_BoS	QUALIFYING REQUIREMENTS (QR) 1 General QR in tenders	The Bid Processing Fees and EMD are exempted for eligible bidders who are registered MSEs under NSIC/ DIC/ Udyog Aadhaar Category only. As per Ministry of MSMEs (MoMSME) Gazette notification No. S.O. 4926(E) dated 18.10.2022 bidders will be eligible to avail all non-tax benefits of the category (micro or small or medium) it was in before the re-classification, for a period of three years from date of such upward change. In case the bidder proposes to meet the qualifying requirements based on the credentials of its Parent/Holding/Subsidiary/Affiliate and any of its Parent/Holding/Subsidiary/ Affiliate is not an MSE, the bidder will not be eligible for exemption of Bid Processing Fees and EMD.	The Bid Processing Fees and EMD are exempted for eligible bidders who are registered MSEs andhaving UDYAM Certificate.		Tender conditions remain unchanged.
83				In case the lead partner qualifies under the MSE/MSME category and the other consortium partner does not fall under the MSE/MSME category, kindly clarify whether the exemption from Bid Processing Fee and EMD shall still be applicable to the consortium.		Please refer to Amendment-01.
84				Kindly allow bidders to consider the latest three financial years as FY 2023-24, FY 2024-25, and FY 2025-26 instead of FY 2022-23, FY 2023-24, and FY 2024-25.		Please refer to Amendment-01.
85	SECTION - VII SUB-SECTION A SCOPE OF WORKS	6.3	Conducting wind tunnel studies for the design and analysis of complete MMS from any one of the reputed institutes having suitable wind tunnel facilities (IITs, SERC Chennai or equivalent level institute in India) as per SUB-SECTION C: TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS. It must be vetted by the wind domain expert at any of the IITs or SERC or equivalent level institute in India.	Bidder propose MMS structure is designed as per the relevant Indian standard codes and load combination shall be applied as per the indian standard.		Wind tunnel study is mandatory to evaluate the wind loads on the PV modules for use in the analysis and design of the Module Mounting Structure (MMS). Terms and condition of tender shall prevail.
86	SECTION - VII SUB-SECTION A SCOPE OF WORKS	6.4,6.5	Clearing plant site and transmission line corridor by cutting of trees, bushes and shrubs including disposal of waste material. Earthwork for site grading, cutting, filling, levelling and compaction of land.	Removal of trees, bushes and existing building or structure (if any), filling of Existing wells, pits, trenches, marshy areas, and Rerouting of existing overhead lines and their permission from competent authorities shall be under client scope. Cavities post removal of trees/vegetation shall be backfilled and compacted by client. Bidder considers minor levelling and grading in our scope.		Clearing plant site and transmission line corridor is in the scope of the Bidder. Terms and conditions of tender shall prevail.
87	SECTION - VII SUB-SECTION A SCOPE OF WORKS	6.10	For modules to be provided by the Owner, the Contractor shall provide storage areas in multiple locations within the plant area to receive and store them till installation.	Storage areas shall be provided at one location within plant area at the location of unloading of trucks.		Contractor shall provide storage area as per the suitability having area adequate for storage of plant spares including PV Modules, cables, MMS spares, etc. subject to a min. area of 450 m2.
88	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	3.3	1 no(each). of Trial pit, CBR test, ERT & Ground water samples for laboratory investigations for every 25 acres of area.	As per general industrial practices 1 no. of CBR test is to be done per 50 acre of land.		Terms and conditions of tender shall prevail.

89	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	5.1	The minimum plinth level of all buildings/ open installations shall be 450mm above FGL. Module mounting structure foundation/ Pile cap or any other pedestal shall be min. 200mm above FGL. Top of transformer foundation pedestal shall be min. 500mm above the FGL.	Plinth level shall be decided as per the hydrological report or as per the electrical requirement.		Terms and conditions of tender shall prevail.
90	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	5.3	If any ground undulations at column locations are observed the same shall be filled up with PCC (1:3:6) up to surrounding ground level immediately after pile installation before start of erection of other MMS members. In case of pile, the PCC fill shall extend min. 100mm outside pile cap all around and remaining area may be filled up with local soil properly compacted.	Bidder suggest to leave the major undulated area (If any) for module installation.		As already clarified in Cl. 5.3 of Section - VII Sub-Section C of Tender that If any ground undulations at column locations are observed the same shall be filled up with PCC (1:3:6) up to surrounding ground level immediately after pile installation before start of erection of other MMS members. In case of pile, the PCC fill shall extend min. 100mm outside pile cap all around and remaining area may be filled up with local soil properly compacted. Terms and conditions of tender shall prevail..
91	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	5.4	The contractor is responsible for making the site ready and easily approachable by clearing bushes, felling of trees (mandatory permissions/ licenses/ statutory clearances from competent authorities if required for cutting of trees, blasting or mining operations, disposal of waste material etc. shall be obtained by the contractor), cutting, filling with selected excavated earth or borrowed earth including identifying borrow areas. Except in exceptional cases (with approval of the Engineer), filling shall be made up of cohesive non-swelling material. The filling for levelling/ reclaiming the ground/ area shall be done in layers not more than 150mm of compacted thickness in case of cohesive (clayey) soils and 250mm compacted thickness in case of granular (sandy) soils with compaction up to 95% (of modified proctor density) and 80% (of relative density) respectively.	Removal of trees, bushes and existing building or structure (if any),filling of Existing wells, pits, trenches, marshy areas, and Rerouting of existing overhead lines and their permission from competent authorities shall be under client scope. Cavities post removal of trees/vegetation shall be backfilled and compacted by client. Backfilling to be in the layers of 300mm instead of 150mm. As per Indian standard 95% proctor density is required to be achieved for road construction only.		Making the site ready and easily approachable is in the scope of the Bidder. Bidder may visit the site to assess their requirements. Terms and conditions of tender shall prevail.
92	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	6.2	The top of road (TOR) elevation shall be minimum 200 mm above FGL to avoid flooding of roads during rains.	The risk of erosion of road layer will increase during rainy season, Bidder advise to keep the layer of road to maximum 0.1 meters above NGL.		Terms and conditions of tender shall prevail.
93	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	6.2	The roads shall be designed as per IRC SP-72 corresponding to traffic category T4 (10 HCV per day) and critical field CBR value of the subgrade.	As per general industrial practices road shall be designed as per the relevant indian standard and considering the no. of vrhicle or tafficular movement.		Terms and conditions of tender shall prevail.
94	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	6.3	However, following minimum road section details shall be followed: (i) Topping: Surface dressing with gravel or gravel-soil mixture conforming to Cl. 402 of MORD specifications for rural roads published by IRC (MORD specs). However, for sites with average annual rainfall > 1500mm, either 2 course surface bituminous dressing conforming to Cl. 505 of MORD specs or 20 mm thick open graded pre-mix carpet + Type – B or Type – C seal coat conforming to Cl. 506 of MORD specs. shall be provided. (iii) Base course WBM (CBR>100%) conforming to Cl. 405 of MORD specs: 75mm compacted thick, Grade III (iv) Base course WBM (CBR>100%) conforming to Cl. 405 of MORD specs: 75 mm compacted thick, Grade II (v) Granular/ gravel sub-base course (CBR>20%), conforming to Cl. 401 of MORD specs: 175 mm compacted thick, compacted to 100% of max dry density (vi) Compacted subgrade: 300mm thick below sub-base (non-expansive soil with max. dry density > 1.65 kN/m ³) conforming to Cl 303 of MORD specs, compacted up to 98% of standard proctor density in layers of 150mm thickness. In case of expansive soils like black cotton soil suitable treatment as per Cl. 403 of MORD specs shall be provided before laying sub-base course. (vii) Gravel Shoulders conforming to Cl 407 of MORD specs: 150mm compacted thick, compacted to 100 % of max. dry density	Bidder proposes thickness of different layers of road shall be decided as per the CBR value obtained from geotech report and as per relevant indian standards. However, shoulder shall be compacted shoulder.		Terms and conditions of tender shall prevail.
95	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	6.7	The pipes for road culverts shall be of minimum class NP3 conforming to IS 458 with min. soil cover of 750mm above the pipe. In case of soil cushion less than 750mm the pipe shall be provided with 100 mm thick M20 reinforced concrete encasement with 10 dia. reinforcement rods @ 150mm c/c both ways. However, the water supply pipe for module cleaning and service/ drinking water shall be routed through Medium class GI steel pipe of required dia. conforming to IS: 1161.	Bidder suggest as per industrial practice that NP3 hume pipe will be laying on PCC M15 cradle without reinforcement.		Terms and conditions of tender shall prevail.
96	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	6.9	Maintenance pathways of min. 1.0m width shall be provided between SPV arrays for easy movement of maintenance staff, tools, equipment and machinery, washing of modules etc	Bidder does not consider pathways between SPV arrays as there is already enough space between two consecutive tables for maintenance purposes and washing of modules.		Maintenance pathways of min. 1.0m width shall be provided in transverse direction at intermediate between SPV arrays for easy movement of maintenance staff, tools, equipment and machinery, washing of modules etc. Terms and conditions of tender shall prevail.

97	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	6.10	2.5m wide corridor compacted to a depth of 300mm shall be left along inside of the plant boundary suitably maintained clean of any vegetation and shall be provided with adequate illumination for movement of security personnel.	Bidder recommend 2.5m wide well compacted peripheral road.		Terms and conditions of tender shall prevail.																								
98	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	7.5	The coefficient of run-off for estimation of design discharge shall be considered as per catchment characteristics, however it shall not be less than 0.6.	Runoff coefficient shall be decided as per the hydrology recommendations.		Terms and conditions of tender shall prevail.																								
99	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	7.8	Suitable size plant peripheral drain as per design and requirement (min. 450mm wide x 450mm deep) along inside of plant boundary wall/ fence shall be provided for smooth channelization of outside storm water and to avoid flooding in the plant. The size of all internal and road side drains shall not be less than 300mm (bottom width) x 300mm (depth).	Peripheral Drain shall be provided as per the requirement of hydrology and topography study size of the drain shall be as per design.		Terms and conditions of tender shall prevail.																								
100	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	7.14	The contractor shall provide percolation/recharge pit for harvesting of water in the MCR area.	Bidder considers 1no. Rainwater harvesting pit in the entire plant nearby MCR location.		The number of pits in the entire plant shall be as per the design basis and will be finalized during detailed engineering.																								
101	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	10.2	<table><tr><td>2</td><td>Building floors (GF) & Grade Slab</td><td>10.00 kN/ Sqm</td></tr><tr><td>3</td><td>RCC Floors (General)</td><td>5.00 kN/ Sqm</td></tr><tr><td>4</td><td>Outdoor platforms, Stairs, Landing and Balconies, Walkway, Chequered plate & Grating (except cable trench cover)</td><td>5.00 kN/ Sqm</td></tr><tr><td>5</td><td>Road culverts & allied structures over drain & pipe crossings subjected to vehicular traffic</td><td>Design for Class – 'AA' loading (Wheelload & Tracked both) and check for Class – 'A' loading as per IRC Standard</td></tr><tr><td>6</td><td>Underground structures such as Sump, Pit, Trench, Drain, UG tank etc.</td><td>In addition to Earth pressure and Ground water table at FGL, a surcharge of 20kN/ Sqm (10kN/Sqm for drains) shall also be considered. The structure shall be designed for following criteria – (a) Inside empty with outside fill+ surcharge and water table at GL & (b) Inside water with no fill & water table outside</td></tr><tr><td>7</td><td>Pre-cast and chequered plate cover over cable trench</td><td>4.00 kN/ Sqm</td></tr></table>	2	Building floors (GF) & Grade Slab	10.00 kN/ Sqm	3	RCC Floors (General)	5.00 kN/ Sqm	4	Outdoor platforms, Stairs, Landing and Balconies, Walkway, Chequered plate & Grating (except cable trench cover)	5.00 kN/ Sqm	5	Road culverts & allied structures over drain & pipe crossings subjected to vehicular traffic	Design for Class – 'AA' loading (Wheelload & Tracked both) and check for Class – 'A' loading as per IRC Standard	6	Underground structures such as Sump, Pit, Trench, Drain, UG tank etc.	In addition to Earth pressure and Ground water table at FGL, a surcharge of 20kN/ Sqm (10kN/Sqm for drains) shall also be considered. The structure shall be designed for following criteria – (a) Inside empty with outside fill+ surcharge and water table at GL & (b) Inside water with no fill & water table outside	7	Pre-cast and chequered plate cover over cable trench	4.00 kN/ Sqm	As per General industrial practices and Indian standards Design load are to be considered as follows: 1. Building floors (GF) & Grade Slab = 5KN/Sqm 2. Outdoor platforms, Stairs, Landing and Balconies, Walkway, Chequered plate & Grating (except cable trench cover) =1.5KN/Sqm 3. Road culverts & allied structures over drain & pipe crossings subjected to vehicular traffic = Shall be designed as per the relevant indian standard and considering the no. of vehicle or traffic movement as per IRC-SP-72. 4. Underground structures such as Sump, Pit, Trench, Drain, UG tank etc. = No surcharge is to be considered as there is very low traffic movement inside the plant. 5. Pre-cast and chequered plate cover over cable trench = 1.5KN/Sqm		Terms and conditions of tender shall prevail.						
2	Building floors (GF) & Grade Slab	10.00 kN/ Sqm																												
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102	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	10.10.2	±WLx (member load, transverse to MMS table): Load due to wind action on column, front and back bracing, longitudinal bracing, tie-member or any other members. • ±WLz (member load, along length of MMS table): Load due to wind action on column, rafter, front and back bracing, longitudinal bracing, tie-member or any other members.	Bidder does not consider wind load to be applied on sag angle as these are only the connecting members of adjacent purlins.		The clause is generic. The loading on structural members shall be finalized during detailed engineering.																								
103	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	11.2	No foundation for MMS, buildings, switchyard equipment and structures, sub-stations, Transmission line towers, transformers, etc. shall rest on filled-up ground. However, minor structures like cable trench, cable rack, pipe pedestal, etc. may rest on filled-up soil with max. safe bearing capacity for design considerations not more than 3 T/Sqm.	Construction of minor structures like cable trench, cable rack, pipe pedestal, etc. can be done on filled up soil after ensuring the proper compaction at the location, although ensuring the min. SBC of 3T/Sqm will be difficult.		The terms and conditions of the tender shall prevail. Proper compaction shall be ensured at all filled-up soil locations.																								
104	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	11.3	Min. depth of foundation for all buildings and plinth for open installations shall be 1.5 m below NGL. Min. depth of foundation for steps in brick and concrete masonry shall be min. 450mm below FGL. For all other structures, min. depth of foundation shall be 1.0 m unless specified otherwise.	Bidders considers depth of foundation shall be decided during detail design engineering.		Please refer to S. No. 31 of Amendment-01.																								
105	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	12.2.1	However, the min. dia and depth of the pile shall be 300mm and 1500 mm respectively except when very hard strata/ rock (N>100) is encountered at a higher level, the pile shall be extended in to the hard strata minimum 1.5 times the diameter of the pile with total depth of the pile not less than 1200 mm below cut-off level. A minimum clear cover of 50 mm shall be provided to the steel section or reinforcement in the pile.	Bidders considers depth of foundation shall be decided during detail design engineering. And as per the geotechnical recommendations.		Terms and conditions of tender shall prevail.																								
106	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	12.2.2	As specified above, the MMS support shall project minimum 200mm above FGL (Finished grade level) to avoid any damage to the MMS column/sub support due to direct contact of rain water/ surface run-off	Bidders consider pile cap of 150 mm above NGL.		Terms and conditions of tender shall prevail.																								
107	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	13.7	<table><tr><th colspan="4">A. Hot-rolled/Cold-formed steel sections</th></tr><tr><th>Members</th><th>Reference code</th><th>Min. Yield Strength (N/MPa)</th><th>Min. Thickness (mm)</th></tr><tr><td>Columns/Vertical Bracing/Rafter/Beams/Purlins</td><td>IS 2062</td><td>355</td><td>8</td></tr><tr><td>Steel knees in all members</td><td>IS 1181</td><td>310</td><td>8</td></tr><tr><td>Hollow steel in all members</td><td>IS 4923</td><td>310</td><td>8</td></tr><tr><td>Coupler/Plate/Cleat/Section End Angles</td><td>IS 2062</td><td>355</td><td>8</td></tr></table> NOTES: 1. Hot-dip galvanized coating is as per standard IS 2062 and IS 2063. 2. Hot-dip galvanized coating is as per standard IS 2062 and IS 2063. 3. Hot-dip galvanized coating is as per standard IS 2062 and IS 2063. 4. Hot-dip galvanized coating is as per standard IS 2062 and IS 2063. 5. Hot-dip galvanized coating is as per standard IS 2062 and IS 2063.	A. Hot-rolled/Cold-formed steel sections				Members	Reference code	Min. Yield Strength (N/MPa)	Min. Thickness (mm)	Columns/Vertical Bracing/Rafter/Beams/Purlins	IS 2062	355	8	Steel knees in all members	IS 1181	310	8	Hollow steel in all members	IS 4923	310	8	Coupler/Plate/Cleat/Section End Angles	IS 2062	355	8	Bidder considers average coating of 85 microns over HDG members. And minimum thickness shall be as listed below: Column- 2mm thick Rafter- 1.2mm (Az- 150) Bracing- 1.2mm (Az- 150) Purlin and sag angle- 1 mm (Az- 150)		Refer S. No. 33 of Amendment-01. Terms and conditions of tender shall prevail.
A. Hot-rolled/Cold-formed steel sections																														
Members	Reference code	Min. Yield Strength (N/MPa)	Min. Thickness (mm)																											
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108	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	13.10	In case of fundamental natural frequency (first mode frequency) of MMS structure is less than 5 Hz, the design of the MMS structure shall also be checked against dynamic effects of wind as per provisions of IS – 875 (Part-3) using gust factor method.	As height of MMS is less than 5m. So frequency will not exceed 5Hz, hence there is no requirement of considering dynamic effects of wind.	Terms and conditions of tender shall prevail.
109	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	13.11	The purlins shall be provided with min. following tie/sag rods or angles or channels: • 1 no., in the mid of each span and shall connect all the purlin members	sag angle is to be connected between first two and the other two purlins.	Terms and conditions of tender shall prevail.
110	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	13.28	In case the contractor proposes to extend the column leg to embed it in the pile/pedestal as an alternate fixing arrangement, the column member shall be extended for full depth of the pile (100mm cover at tip of the pile) with an end plate of min. 4mm thickness, projecting min. 50 mm beyond the face, to be welded at the bottom of column leg or an angle section of minimum 2mm thick to be bolted on either face of the column web at bottom end of the column (However, for plants in coastal area or in case of marshy soil) the column post shall be supported only with base secured to foundation through base plate and anchor bolt assembly as per Cl. No. 13.27 and no embedment of column leg in foundation is permitted).	Bidder proposes 2mm HDG cold form column is to be provided upto 700mm depth below the pile and rest shall be 1mm thick black metal coupler maintaing 100mm cover at the bottom of the pile.	Terms and conditions of tender shall prevail.
111	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	13.33	The length of any cold formed section (CFS) generally shall not be more than 5.5 m.	CFS upto 7m can be easily manufactured and transported. Kindly consider CFS section upto 7m.	Specified requirements are suggestive. However, this shall be finalized during detailed engineering.
112	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	13.36	The purlin splice shall meet the structural design considerations and its design shall conform to Annexure-F of BIS:800. There shall be min. four number of bolts on either sides of joints in web zones and one number of bolt on either side of joint in flange zones.	As per general industrial practices two consecutive Purlin is connected by the purlin coupler and 3no. of bolt on each side of the joint on the web of the purlin.	Terms and conditions of tender shall prevail.
113	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	14.7	MS Angles of minimum size 50 x 50 x 6 mm with 8 mm dia - 150mm long MS lugs @ 150mm c / c shall be provided for edge protection around all cutouts / openings in RCC floor slabs / walls, edges of drains supporting grating / pre-cast covers, edges of manhole supporting covers, around periphery of all removable pre-cast covers and any other place where breakage of corners of concrete is expected.	Bidder suggest 30X30X2mm angle to be used for edge protection.	Please refer S. No. 36 of Amendment-01.
114	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	16.1.4	Roof slab shall have projection of 450mm beyond the external walls with 230 THK brick parapet wall of 450 mm clear height all-around which shall form a projected band at roof level.	Bidder suggest roof slab shall have projection of 300mm.	Please refer S. No. 37 of Amendment-01.
115	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	16.2.2	ICR/ LCR with open installation shall be provided with metal canopy for protection of O & M staff from weather. This weather protection canopy shall be an open steel shed structure designed and constructed with columns/ stanchions, rafters and purlins using hot rolled steel sections. The canopy shall be provided with suitable bracing system including roof (plan) and vertical bracings.	As per general industrial practice purlin for ICR is considered to be cold formed C section.	This shall be finalized during detailed engineering as per approval from SECI. Terms and conditions of tender shall prevail.
116	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	16.2.2	The roof shall be provided with suitable slope, not less than 10° to the horizontal for proper drainage of rain water and shall project 300mm beyond the plinth or support platform.	Slope of the roof shall be 5 degree.	Terms and conditions of tender shall prevail.
117	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	16.2.2	150 mm thick gravel layer shall be provided on the finished ground level over the whole foot print of the support framed structure after application of anti-weed treatment on the ground.	Bidder understand 150mm thick gravel layer to be provided around the IDT only.	Cl. 16.2.2 is relevant to LCR/ ICR Room. Terms and conditions of tender shall prevail.
118	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	16.2.3.4	The walls and roof shall be fabricated with double skin insulated sandwiched Al-Zn alloy coated high tensile steel metal panels (BMT- 0.45mm, Al-Zn alloy coating 150 GSM total on both sides). The insulation shall be of PUF with min. density 40 kg/ cum and adequate thickness. Roof shall be provided with suitable slope, not less than 10° to the horizontal (approx. 1V:6H) and shall project 300 mm beyond the walls.	Bidder consider 0.6mm thick PPGI sheets to be provided for roof and wall and tilt angle of roof is to be 5 degree.	Terms and conditions of tender shall prevail.

119	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	16.2.4.3	Security room/ cabin shall be a pre-engineered & pre-fabricated structure. The walls and roof of the building shall be fabricated with double skin insulated sandwiched Al-Zn alloy coated high tensile steel metal panels (BMT- 0.45mm, Al-Zn alloy coating -150 GSM total on both sides). The insulation shall be of PUF with min. density 40 kg/ cum and adequate thickness. Roof shall be provided with suitable slope, not less than 10° to the horizontal (approx. 1V:6H) for proper drainage of rain water and shall project 300mm beyond the walls	Bidder considers 3X3m prefabricated porta cabin shall be provided for security room.		Terms and conditions of tender shall prevail.
120	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	16.2.4.9	The Security Room shall be supported on RCC framed structure with columns supported on foundations. The Finished Floor Level shall be 450mm high above FGL.	Bidder considers security room is to be kept on brick bat.		Terms and conditions of tender shall prevail.
121	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	16.2.5	Minimum height of the watch tower shall be 10m above ground level. Cabin provided at the top of watch tower shall be as per the provisions of Clause 16.2.3.	Bidder considers height of watch tower to be 7.5m above NGI. And clear height of 1.6 meter shed is to be considered over the platform and roof is to be monosloped of 5 degree.		Terms and conditions of tender shall prevail.
122	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	17.1	Min. 40 mm thick floor finish shall be provided for all buildings.	Bidder considers 40mm thick floor finish shall be provided over the roof of the MCR including waterproofing.		"The roof of the MCR Building shall be finished in line with the provisions of Clause 19, ""Roofing,"" of the Civil Technical Specifications. The floor finish shall be applicable to all buildings, including the MCR Building. However, plinths with open installations may be excluded. The terms and conditions of the tender shall prevail. "
123	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	19.2	The water proofing treatment shall be in situ five course water proofing treatment with APP (Atactic Polypropylene) modified Polymeric membrane over roof consisting of first coat of bitumen primer @ 0.40Kg per sqm, 2nd & 4th courses of bonding material @ 1.20 kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd layer of roofing membrane APP modified Polymeric membrane 2.0 mm thick of 3.00 Kg/sqm weight consisting of five layers prefabricated with centre core as 100 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both sides with 20 micron HMHDPE film. The top most layer (5th layer) shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1 cement: 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement: 3 fine sand) and finished neat. The water proofing treatment shall be extended over golla/ fillet and inner face of the parapet up to 450mm height.	Bidder proposes waterproofing specification to be provided; a. apply a self priming coat of asian paints smart care damp proof (diluted with water in 3:1 ratio) b. apply 1 st coat of undiluted damp proof c. when the material is wet insert joint tape at all joints let the material ooze out from the tapes corner d. then apply 2nd coat of un-enluted damp proof e. apply two perpendicular coats of ap smart care damp proof without dilution f. achieve a forced coverage of 10 sq ft / lit / coat. g. allow to dry for 4-6 hours between coats h. after applying the chemical damp proof coats 40 mm thick		Terms and conditions of tender shall prevail.
124	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	20.1	750mm wide plinth protection with min. 75mm thickness of PCC (1:3:6) over 75 mm thick bed of dry brick ballast, 40mm nominal size well rammed and consolidated and grouted with fine sand, shall be provided around all the buildings.	Bidder suggest grouting with fine sand is not required as all the voids are filled by well rammed brick ballast and rest shall be ensured and taken care by PCC.		Terms and conditions of tender shall prevail.
125	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	20.2	A peripheral drain (except for Security room/ cabin) of min. internal size 250mm x 250mm with brick walls in CM 1:6 over 75mm thick PCC (1:3:6) bedding with 12mm thick plaster in CM 1:5 and 25thk PCC (1:3:6) coping at top shall be provided along the periphery of the plinth protection for collection and disposal of rain water from building roof.	Peripheral drain shall be provided all around the MCR building except on the switchyard side to prevent infringement with cable trench from switchyard.		A peripheral drain in all 4 sides of MCR Building of min. internal size 250mm x 250mm with brick walls in CM 1:6 over 75mm thick PCC (1:3:6) bedding with 12mm thick plaster in CM 1:5 and 25thk PCC (1:3:6) coping at top shall be provided along the periphery of the plinth protection for collection and disposal of rain water from building roof. Terms and conditions of tender shall prevail.
126	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	21	Plinth beam, when provided, shall be taken minimum 200mm below FGL. The plinth filling below Ground floor (GF) for all buildings shall be provided with following specifications. (i) Well compacted sub-grade (ii) Well compacted boulder soiling with interstices filled with sand over compacted sub-grade. (iii) 75mm thick PCC 1:3:6 over (ii) (iv) 100mm thick PCC 1:2:4 over (iii) (v) 40mm thick floor finish over (iv)	(i) noted. (ii) well compacted boulder soiling with filled with local soil over compacted subgrade. (iii) and(iv) 100 mm thick PCC 1:2:4 over (ii) (v) 40mm thick floor finish.		Terms and conditions of tender shall prevail.
127	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	33.3	Internal trenches (inside buildings) shall be provided with chequered plate (min. 8mm thick with stiffening angle ISA 50x50x6 @ 750 mm c/c for trench width greater than 800 mm) covers while external trench shall have precast concrete covers.	Bidder proposes internal trench shall be provided with 6mm chequered plate placed on the panel support channels to fulfill the requirement.		Terms and conditions of tender shall prevail.
128	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	34.3	Both, the transformer soak pit including side walls and the burnt oil pit shall be of RCC and shall be provided with sump (min. 500 mm x 500 mm x 400mm deep) and slope of 1:50 in concrete screed of 1:1 – ½:3 to the floor slab towards the sump pit.	Bidder proposes 1% floor slope shall be provided.		Terms and conditions of tender shall prevail.

129	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	34.5.2	All GI posts shall be supported with min. 300 mm dia. and 750 mm deep (below GL) piles in M20 (Nominal Mix 1:1.5:3) grade concrete. The pile shall project 100 mm above GL. The column posts shall be extended into the pile up to 800 mm with 50mm cover at the bottom.	Bidders considers depth of foundation shall be decided during detail design engineering. And cover of 100mm is maintained at the bottom.		Terms and conditions of tender shall prevail.
130	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	34.5.5	The GI chain link mesh fabric (75x75 mm with min. wire gauge 3.15 mm, both ends twisted) and fencing shall conform to IS: 2721. Each fence panel shall be provided with strain wires (Min 4 mm Dia HTSS) at top, mid and bottom.	Fence shall be provided with chain link mesh of size 75X75mm of 10 swg and HTSS wire of 12 swg.		Terms and conditions of tender shall prevail.
131	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	34.5.8	In addition to main gate, a wicket gate of MS pipe (medium class conforming to IS: 1161) frame with 1.0 m width with hard drawn steel wire fabric (50x50x3mm thick conforming to IS: 1566) shall also be provided for man entry for maintenance purpose.	Bidder propose for IDT only a wicket gate of 1.2m is to be provided of same specification as the fence.		Terms and conditions of tender shall prevail.
132	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	36	Underground Liquid Retaining RCC Structures	Bidder considers ground mounted PVC tank of suitable capacity for Module cleaning system		This shall be finalized during detailed engineering as per approval from SECI.
133	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	37.2.2	Switchyard structures shall be designed for the worst combinations of following loads. Structures shall be checked for safe design under Reliability (normal) and Security (short circuit) conditions	Structure and foundation shall be provided as per PGCIL standard.		Terms and conditions of tender shall prevail.
134	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	37.2.12	Common raft foundation shall be provided for each pole of isolator.	The type of foundation shall be as per PGCIL standard.		PGCIL documents shall be accepted, provided they comply with the tender specifications. The same shall be finalized during the detailed engineering stage, subject to SECI's approval. The terms and conditions of the tender shall prevail.
135	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	37.2.13	Diagonal wind condition shall be considered for Lightning Mast. Diagonal wind shall be taken as 1.2 times the wind calculated on longitudinal/transverse side. Lightning mast shall be provided with minimum two nos. of platforms as per requirement and an internal ladder for climbing purpose shall be provided up to the platforms. Top of platform shall have grating, railing and two guard plates. The minimum width of platform shall be 900mm. Live load of 300kg/m2 above platforms shall be considered for design of Lightning Mast. The fabrication and erection of the switchyard works shall be carried out generally in accordance with IS: 802 and IS: 800. All materials shall be completely shop fabricated and galvanized.	Structure and foundation shall be provided as per PGCIL standard.		Terms and conditions of tender shall prevail.
136	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	37.3	Free space of 250mm height above gravel fill shall be provided in the soak pit. This free volume above the gravel free shall not be considered in effective capacity calculations.	Bidder proposes the free volume shall be considered in effective capacity calculation as the floor of soak pit is provided with 1% slope, therefore all the oil and water will flow towards the burnt oil pit and there is no retention in the soak pit.		Terms and conditions of tender shall prevail.
137	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	37.4	Gravel filling shall be provided in the switchyard extension area inside the fence as indicated in the tender drawing with broken stone filling which shall consist of two layers. The first layer shall be 75mm thick base course of 20mm of normal size and second layer shall be 75mm thick surface course of 40mm nominal size. Each layer shall be compacted by using half ton roller with 4-5 passes and suitable water sprinkling.	As per general industrial practice 40mm gravel fill shall be done of 150mm thick and no compaction to be considered. Kindly share the mentioned drawing.		Terms and conditions of tender shall prevail.
138	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	37.5	The trenches located within switchyard shall project at least 250 mm above the finished grade level (FGL) so that no storm water shall enter into the trench. The bottom of trench shall be provided with a longitudinal slope of 1:500.	Trench within switchyard area shall be provided 150mm above FGL to restrict entry of storm water.		Terms and conditions of tender shall prevail.
139	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	37.7	The top of road (TOR) elevation shall be minimum 200 mm above FGL to avoid flooding of roads during rains and shall be provided with alongside drains as per design requirements of drainage system for effective disposal of storm water and to avoid cross flow of storm water over the road.	The risk of erosion of road layer will increase during rainy season, Bidder advise to keep the layer of road to maximum 0.1 meters above NGL.		Terms and conditions of tender shall prevail.
140	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	38.2	SCB/String Inverter shall be mounted on a structural steel supporting frame comprising of ISMC columns at both ends, horizontal framing members and members for cable support. Minimum size for column members shall be ISMC 75.	Bidder proposes SCB to be mounted on a coldform C channel of suitable size as per the design.		Terms and conditions of tender shall prevail.

141	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	38.2	38.2.2 Column post shall be supported with 300 mm (min.) diameter and 850 mm (min.) deep below GL piles in cement concrete (nominal mix 1:1:2). The column post shall be extended into the piles up to 800 mm (below GL) with 50mm cover at the bottom. 38.2.3 The pile shall project 200 mm above GL. 38.2.4 The support structure shall be hot-dip galvanized and of adequate height to ensure min. ground clearance of 800 mm to SCB/String Inverter unit.	Bidders considers depth of foundation shall be decided during detail design engineering and clear cover of 100mm is maintained at the bottom. Pile will project 150mm above GL. Ground clearance shall be as per OEM requirement.		Terms and conditions of tender shall prevail.
142	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	38.3	The support structure shall be hot-dip galvanized. Minimum depth of foundations shall be 1200 mm below GL.	Bidders considers depth of foundation shall be decided during detail design engineering and also as per OEM recommendations.		Terms and conditions of tender shall prevail.
143	SECTION - VII SUB-SECTION C TECHNICAL SPECIFICATIONS (TS)- CIVIL, MECHANICAL & PLUMBING WORKS	39.3 Structure and material specification	Structure and material specification:	All the structural member shall be of yield strength 210 Mpa. And all the roof and wall shall be made up of 0.6mm PPGI sheet.		Terms and conditions of tender shall prevail.
144	SUB-SECTION D General Annexure-G: Tender Drawings	Chain link fence drawing	4MM THK GALVANIZED BARBED WIRE AS PER IS278 75x75 GI CHAIN LINK MESH WITH WIRE GAUGE 3.15MM BOTH ENDS TWISTED CONFIRMING TO IS-2721	Fence shall be provided with chain link mesh of size 75X75mm of 10 swg and HTSS wire of 12 swg.		Terms and conditions of tender shall prevail.
145	General	-	Hydrology report	Kindly share the hydrology report		Hydrology investigation is in the scope of the Bidder.
146	General	-	Geotech report	Kindly share the Geotech report		Geotechnical investigation is in the scope of the Bidder.
147	General	-	Topography report	Kindly share the topography report		Refer to Specific Annexure A, "Tentative Land Layout," for the site and Contour details.
148	General	-	Corrosion Report	Kindly share the corrosion report		Corrosion investigation shall be in the Bidder's scope. However, the prescribed corrosion protection measures specified in the tender shall be provided for the respective components.
149	General	-	General	As supply of modules is in SECI scope, bidder request to provide third party verified PAN file of the PV module		Third party verified PAN file shall be shared with the successful bidder
150	General	-	General	Bidder request to provide Geotechnical reports		The Geotechnical Report is not available. The Bidder shall carry out the requisite geotechnical investigations and tests as part of the detailed site investigations and design, in accordance with the scope of the Tender.
151	General	-	General	Please confirm whether to consider SVG for reactive power compensation and Harmonic filters for the project		Confirmed
152	Auxiliary Supply System	7	Auxiliary supply system	1. Bidder understand 1 x 100% auxiliary transformer required at Main control room same shall be taped from 33 kV HT switchgear. 2. Bidder understand 1 x 100% auxiliary transformer required at inverter control room same shall be taped from LV side of IDT kindly provide your confirmation for the acceptance of the same.		1. and 2. Auxiliary Supply scheme shall be finalised post-Employer's approval dring detailed engineering as per the terms and conditions of the tender.
153	Earthing	11.2.3	The earth electrode shall be made of high tensile low carbon steel rod, molecularly bonded by high conductivity copper on outer surface with coating thickness not less than 250 micron as per relevant standards.	Bidder request to consider the mild steel rod for earthing Kindly confirm your acceptance for the same.		Terms and Conditions of the Tender shall prevail
154	General - MCR Layout Plan	-	General - MCR Layout Plan	MCR layout plan is not available in RFP. Kindly provide the same with minimum requirement to be maintained for the MCR.		Minimum area requirement for the MCR facility has been provided under C1 16.2.1. GA & Architectural drawing shall be finalized during Detailed engineering.
155	General - Short circuit withstand capability for cable.	-	General - Short circuit withstand capability for cable.	Cable short circuit withstand will be sized as per Relay coordination study. Please confirm		Acceptable
156	Solar and DC Cables	2.8.4	Solar cables or group of solar cables combined through branch connector may be laid over ground on GI or FRP cable trays / underground through Double Wall Corrugated (DWC) HDPE conduits from PV String (Series connection of PV Modules) to SMB/String Inverter. The size of the conduit or pipe shall be selected on the basis of 40% fill criteria. Solar cable terminations shall be made with connectors complying IS 16781 / IEC 62852. The connectors shall have degree of protection of IP 68.	The Bidder understands that solar cables may be laid either in cable trays or through underground trenches using DWC HDPE conduits.Please confirm.		The bidder's understanding is confirmed, subject to compliance with the rest of the subject clause and other related parts of the tender
157	General	-	General	Bidder requests to consider Earth Pit for DC System as 1 Nos. per 1.50 MWp.		Earthing design for the DC system shall be as per the bidder's design, in accordance with IS 3043, so as to limit fault current and achieve the specified earth resistance. This is a subject for detailed engineering.
158	General	-	General	IDT hotspot calculation shall be done based on inverter output vs temperature curve. Please confirm		The same shall be done in line with IEC 60076-7
159	General	-	General	Please clarify the following: 1.The Internal Arc Test & report shall be applicable to indoor and outdoor HT panel or not?		Applicable to both Indoor and Outdoor Panels
160		F-17: Format for Joint Venture Agreement		We understand that the tender refers to the Format for Joint Venture Agreement. However, the format appears to refer to a Deed of Undertaking. Therefore, we kindly request SECI to provide the specific prescribed format for the Joint Venture Agreement, if any. In case no separate format is prescribed, kindly confirm that bidders may submit their own Joint Venture Agreement in compliance with the tender requirements.		Tender conditions remain unchanged.

161		F-17A: Format for Power of Attorney for Joint Venture Agreement		We understand that the tender refers to the Power of Attorney for the Joint Venture Agreement. However, the format appears to refer to the Deed of Undertaking of the Joint Venture. Therefore, we kindly request SECI to provide the specific prescribed format for the Power of Attorney relating to the Joint Venture Agreement, if any. In case no separate format is prescribed, kindly confirm that bidders may submit their own Power of Attorney in compliance with the tender requirements.		Tender conditions remain unchanged.
162	Tentative Land Layout-Annexure A		Road observed in Contour file	The bidder has requested clarification regarding the public access road crossing the proposed project land area. Please note that the proposed land area has been marked in the contour file as provided by the concerned authority. The entire marked area is available for project utilization, with 100% land utilization considered during planning. The existing public access road within the proposed land boundary is intended to be blocked or diverted as per the approval and directions of the concerned authority. Bidders are requested to consider the full marked land area for their design and price estimation.		The existing public access road within the proposed land boundary shall remain as it is for public access. The road shall be accessed through a gate provided at the plant fencing location at both ends. The same road may also be utilized for access to the solar plant, if required.
163				The location and coordinates of the proposed PGCIL Substation at Davangere are not visible on publicly available maps and appear to be under construction. The bidder requests confirmation of the actual distance from the proposed project land area. Further, if the substation is under construction, there is a concern that any delay in its completion may impact the project timeline.		Please refer to S. No. 21 of Amendment-01.
164	SLD			2. As per the tender requirement, the power evacuation capacity is 88 MW, which can be easily accommodated through an ACSR Zebra conductor. However, it is presumed that the tender may be seeking transmission infrastructure suitable for the full capacity of the 220 kV bay (~350 MW), and accordingly AL59 Moose conductor has been specifically indicated in the tender SLD. A		Please refer to S. No. 21 of Amendment-01. The Bidder's scope is limited to the 220 kV transmission line up to the Point of Interconnection (POI) at the Interconnecting Substation. The transmission line within the Bidder's scope shall be designed, erected, and commissioned for evacuation of 100 MVA capacity. The design, construction, and commissioning of the Interconnecting Substation and any upstream transmission infrastructure beyond the POI are outside the Bidder's scope.
165	SLD		GSS	The tender has been floated for evacuation of power from the solar project (near DRDO) to the 765/400/220 kV Devanagere (PGCIL) Substation. The terminal substation is under the TBCB implementation process, with an anticipated commissioning schedule of September 2027. However, the schedule appears challenging considering the land acquisition status, with approximately 108 acres to be acquired out of the total 168 acres as reported by May 2026. Query against commercial implication due to this point should be raised during the pre-bid discussion for clarification.		Bidder's scope shall be limited to works mentioned in SoW till the POGI. Any delay in commissioning, availability or readiness of the terminal substation and/or associated evacuation system, which is outside the Bidder's scope and control, shall not be attributable to the Bidder.
166	BDS running header vs. SOW Sec-VII-A, Cl.1 (Project Particulars)		The BDS running header names the project location as 'Radha Nesda, Chitradurga', whereas the Scope of Work and Form F-forms state the site as 'Varavoo Kaval (Taluka: Challakere), Chitradurga'.	Kindly confirm the correct and single project location/village, as the two references differ across the document.		Typographical Error. Project Location as per Scope of Works only.
167	SOW Sec-VII-A, Cl.1 – 'Cumulative Inverter (PCU) AC Capacity'		The cumulative Inverter (PCU) AC capacity is stated as 'XX MVA to deliver 88 MW with PF -0.95 to +0.95 at 50°C at POI'.	Please confirm the required minimum cumulative inverter (PCU) AC rating (MVA), and confirm that supply of PCUs/inverters is within the EPC/BoS Contractor's scope.		Supply of PCUs/Inverters shall be within the scope of the EPC/BoS Contractor. The cumulative AC rating of the PCUs/Inverters shall be determined by the Contractor considering the applicable grid requirements and injection of 88 MW at the 220 kV PGCIL bus at Devanagere, as specified in the Tender Documents.
168	SOW Sec-VII-A, Cl.1 – 88 MW (AC) vs 123.2 MWp (DC)		Project AC capacity is 88 MW; DC capacity is 123.2 MWp (DC/AC ≈ 1.4). Modules are Owner-supplied.	Please confirm that the BoS scope (MMS, DC cabling, SMBs, foundations, layout) is to be designed for the full 123.2 MWp DC, and confirm the module count basis (585 Wp reference = ~2,10,600 modules).		The scope of work shall be as specified in the Tender Documents. The final module count and associated BoS sizing shall be based on the module rating and quantity of modules provided as free issue by the Owner to the successful Bidder. For the purpose of bid engineering, the Bidder may consider 605 Wp modules and design the associated BoS accordingly. Please refer to S. No. 19 of Amendment-01.
169	Annexure to BDS, Cl. IA & IB (Route I)		Route I requires (IA) cumulative ≥44 MW EPC experience AND (IB) at least 2 grid-connected plants of ≥9 MW individual capacity, in last 7 years.	Please confirm whether the two ≥9 MW projects under IB may be the same projects that make up the cumulative 44 MW under IA, or whether they must be additional/separate projects.		It is clarified that the two individual ≥9 MW projects under IB may be the same projects that make up the cumulative 44 MW under IA.
170	Annexure to BDS, Cl. 3(c) – Working Capital		Working Capital of INR 39.08 Cr required; if inadequate, a line-of-credit letter is acceptable only from a bank 'having net worth not less than INR 500 Crore'.	Request that the line-of-credit letter be acceptable from any RBI-regulated Scheduled Commercial Bank, and that the INR 500 Cr bank net-worth condition be waived/relaxed.		Tender conditions remain unchanged.
171	Annexure to BDS, Cl. IA/IIA/IIIB – 'satisfactory operation for 6 months'		Reference plants must have been in satisfactory operation for at least 6 months prior to bid submission, evidenced by Commissioning Certificate, Work Order and Performance/JMR certificate.	Please confirm that a Commissioning Certificate plus a 6-month Performance/JMR certificate from the Owner/Discom is sufficient, and confirm the acceptable evidence for foreign/affiliate projects.		Commissioning Certificate plus a 6-month Performance/JMR certificate from the Owner/Discom is sufficient. For using the technical credentials of the affiliate, the commissioning Commissioning Certificate plus a 6-month Performance/JMR certificate must be in the name of the affiliate. Further, the Bidder must submit the undertaking as per Form F-30 along with PoA and BR for using the technical credential of the affiliate.
172	SCC Cl.3 (Time for Completion) vs SOW Sec-VII-A, Cl.4 (Procurement)	4.1	Commissioning is due at D+18 months (D = signing of CA/NOA). However, the Owner supplies PV Modules at site only between the 11th and 13th month from award.	Please confirm that the Time for Completion will be extended day-for-day (with no LD) for any delay in the Owner's supply of modules beyond the 13th month, and confirm resulting idle/prolongation costs will be compensated.		All such scenarios will be dealt with on case to case basis.
173	SOW Sec-VII-A, Cl.4 – module free-issue		The Owner is to deliver modules between the 11th and 13th month. All other BoS (civil, MMS, DC/AC electrical, evacuation) is in the Contractor's scope.	Please define a distinct interface milestone ('BoS ready for module mounting') and confirm that, until modules are delivered, the Contractor's obligation is limited to achieving BoS readiness, not commissioning.		Bidder's scope shall be limited to works mentioned in SoW. Any delay in delivery and/or mounting of modules, which shall be in the Employer's purview shall not be attributable to the Bidder.

174	SOW Sec-VII-A, Cl.4 – module quantity & handling		Unloading, storage, unpacking, inspection, re-packing and post-takeover damage risk of Owner-supplied modules rest with the Contractor.	Please confirm the Owner will supply adequate module quantity (including a spare/breakage allowance) to achieve the full 123.2 MWp, and confirm cost responsibility if modules are short-supplied or delivered damaged/ DOA before takeover.		Confirmed
175	ITB Cl.32.4 (i) – Contract Price Adjustment (Δ CP)		Contract price is adjusted only for module efficiency via Δ CP(%) = $-1.21 \times (\eta_{\text{offered}} - \eta_{\text{ref}})$; η_{ref} = 21.65% for the 585 Wp reference module.	If the Owner supplies modules of a different wattage/physical dimension (not just efficiency), please confirm that consequent MMS/DC-cabling/layout redesign and rework costs are reimbursed separately, since Δ CP adjusts only for efficiency.		"Module dimensions shall remain the same. If the Owner offers modules with a different wattage rating (e.g., 620Wp instead of 605 Wp), adjustment mechanisms will apply as follows: (i) Efficiency variation adjustment - as the efficiency will differ from the reference 605 Wp module efficiency (ii) DC capacity variation adjustment - as the different wattage will result in different installed MWp at site Both formulas will be applied to determine the final contract price variation, thereby capturing the impact on BOS, design, and engineering costs."
176	SOW Sec-VII-A, Cl.1 & GA-H (OTGT / OTF $\geq$ 1) + O&M Gen. Guarantee		Contractor guarantees OTF $\geq$ 1 at Operational Acceptance and Target Generation (GTN) through the 5-year O&M, with LD for shortfall (OTF<1).	Since PV modules — the primary driver of generation, including their flash-rated output and degradation — are Owner-supplied, please confirm that any generation shortfall attributable to module output/degradation is excluded from the Contractor's OTGT/O&M LD.		In case of any shortfall, Tender requires the contractor to demonstrate whether the generation shortfall is due to non-performance of PV modules. Procedure has been detailed in Specific Annexure: Project Specific Technical Details. However, if the contractor fails to demonstrate module non-performance, shortfall attributable to inadequate O&M practices (including module cleaning), BoS equipment failure, or operational/scheduling deficiencies shall remain within Contractor scope and LD shall apply as per O&M Agreement. Please refer to S. No. 42, 43 and 44 of Amendment-01.
177	GA-H Functional Guarantee Test Procedure – RCF / reference data		OTGT uses a Radiation Correction Factor RCF = measured GHI / reference insolation, and a Reference Target Generation derived from reference insolation.	Please confirm the source and basis of the reference insolation data and the metering standard (sensor class, calibration) used for OTGT, and confirm the reference generation model assumptions.		The source for reference insolation is the SolarGIS TMY file. All assumptions have been detailed in SA – C: Site Specific Technical Parameter. Pyranometer specifications are separately prescribed in the Technical Specifications
178	ITB Cl.12.5; SCC (prices firm); Preamble to SOR		Prices quoted 'shall remain FIRM and Fixed' till complete execution of the entire order — i.e. over an ~18-month construction period plus 5 years of O&M — with no price adjustment other than the module-efficiency Δ CP.	Given the long firm-price period and the BoS commodity exposure (steel/aluminium MMS, copper/aluminium cables, transformers), request inclusion of a price-variation clause for key commodities; OR confirm that Δ CP is the only permitted adjustment so bidders can load contingency accordingly.		Tender conditions remain unchanged.
179	ITB Cl.12.x / SCC – GST & statutory variation		Claims for GST / statutory variation must be raised within 2 months; the contract is structured as First Contract (Supply + Services + Civil) and Second Contract (O&M).	Please confirm: (a) the GST rate assumption bidders should quote against for each portion; (b) that both increase and decrease in GST/duties/levies during execution will be adjusted; and (c) whether the 2-month claim window can be reckoned from Owner's certification.		a. The Bidder shall quote the appropriate GST value as per applicable HSN code. b. Any increase/decrease in GST will be dealt in accordance with the change in law provisions. C. The clause is self explanatory.
180	SCC Payment Terms – final 10% retention (Supply/Services/Civil)		The final 10% of Supply, Services and Civil is released only against an 18-month BG AND after target-generation demonstration on completion of the FIRST YEAR of O&M.	Request that this final 10% be released against a BG at Operational Acceptance, delinked from the O&M year-1 generation test, since O&M performance is already secured separately.		Please refer to Amendment-01.
181	SCC Payment Terms A(ii) – 70% supply payment		70% of supply value is paid pro-rata on receipt & acceptance at site, subject to issue of MDCC (Material Dispatch Clearance Certificate) by the Owner.	Please confirm the maximum timeline within which the Owner will issue MDCC and the material-acceptance certificate after the Contractor's request, to avoid blockage of the 70% payment.		Please refer to Amendment-01.
182	SCC Payment Terms A(i) – interest-free advance / ABG		An optional 10% interest-free advance is available against a 110% Advance Bank Guarantee (ABG) valid up to final commissioning, in addition to the CPS.	Please confirm that the ABG value may be reduced pro-rata as the advance is recovered from running bills, rather than held at 110% of the full advance until final commissioning.		Please refer to Amendment-01.
183	GCC Cl.20 (delay LD) vs GA-H / O&M (generation LD)		Delay LD is 0.5%/week capped at 5% of Contract Price. Generation LD (OTF<1) is separately capped at the Operational Acceptance milestone value.	Please confirm that the delay-LD (5%) and the generation-related LD are separate, independently-capped heads, and confirm the overall aggregate cap on all LDs taken together.		The delay LD and generation LD are separate.
184	SCC – Contract Performance Security (CPS)		CPS is 10% of Contract Price; final-payment BGs are valid 18 months and released after year-1 O&M generation demonstration.	Please confirm the required CPS validity period and whether the CPS can be reduced/stepped-down after Operational Acceptance (e.g. reduced to an O&M-period security), given O&M spans 5 years.		Please refer to Amendment-01.
185	SOW Sec-VII-A, Cl.1 – Water & Power for construction		'Water and Power for Construction' are to be arranged by the Contractor.	Please confirm whether a water source (borewell/supply) and a construction power source are available at/near the site, and confirm the Owner will facilitate borewell/statutory permissions.		Construction water is in the scope of the Bidder
186	SOW Sec-VII-A, Cl.1 – Land (Leased by SECT)		Land is 'Leased by SECT; project ownership is with SECI.	Please confirm that the land will be handed over encumbrance-free, level, fenced at the boundary, with clear access/approach roads and right-of-way, at the zero date, and confirm who bears the cost/time of any land-related delay or encroachment.		The project site is located inside DRDO premises (Please refer the kml file for project site). Land will be handed over encumbrance-free to the Contractor at the time of Award of Contractor.Levelling, Fencing of the land shall be in the scope of the Contractor. Please refer Sec-VII-A Scope of Works.
187	SOW Sec-VII-A, Cl.7 – Statutory Approvals		The scope references statutory approvals including CEIG, grid connectivity/GNA (CERC Reg. 2022) and evacuation.	Please provide a clear split of statutory approvals between Owner and Contractor (esp. CEIG, connectivity/GNA, First-Time-Charging with Grid-India/CTUIL, and the PGCIL 220 kV bay at Davangere), and the Owner's support and timelines for each.		SECI has in-principle approval for Connectivity (for 88 MW) at 220 kV Davangere Substation vide bay sharing arrangement with M/s Adyant Enersol. Contractor's Scope shall be interconnection of the Transmission Line at a 300 MW Switching/Pooling Substation in the vicinity of the Davangere Substation (Construction, testing, commissioning of Switching substation not in the scope of the Contractor)
188	SOW Sec-VII-A, Cl.1 – POI at Davangere PGCIL (220 kV)		POI is a 220 kV bay at the 765/400/220 kV Davangere PGCIL substation (~co-ords 14.4884°N, 76.2955°E), while the plant is at Varavoo Kaval (14.400556°N, 76.560833°E) — a substantial distance apart.	Please confirm the exact scope boundary at the POI, whether the 220 kV transmission line/interconnection between the plant and the Davangere substation is in the Contractor's scope, and the approximate line length/route if so.		Please refer to S. No. 21 of Amendment-01.

189	Technical Tender Document – Section VII (Sub-Section A: Scope of Work), Cl.4 - Procurement & Supply, Cl. - 4.17		220 kV Over Head Transmission Line / Under Ground Cable (suitable for evacuation of 88 MVA) including Towers, Conductors, OPGW cable, Insulators, Cable Termination Kits and associated accessories from 33/220 kV Pooling Substation to Interconnecting Substation as per CTU drawings/specifications including Right of Way, permits and approvals, CTU supervision and maintenance charges.	Considering that the external 220 kV transmission line is approximately 40 km long and involves extensive RoW acquisition, landowner negotiations, statutory approvals and coordination with multiple external agencies, completion of these activities within the stipulated project schedule may be beyond the reasonable control of the EPC contractor. It is requested that the external 220 kV transmission line, including RoW acquisition and statutory approvals, may be excluded from the EPC contractor's scope and executed separately by SECI/PGCIL/CTUIL or through an independent transmission package.		Terms and Conditions of the tender shall prevail. Point of interconnection shall be a 300 MW Switching Substation (not in the Scope of the Contractor) in the vicinity of 220 kV Davangere GSS.
190	Technical Tender Document – Section VII (Sub-Section A: Scope of Work), Cl. 7 – Statutory Approval		The Contractor shall obtain the required statutory approvals for execution of the works.	Kindly clarify whether compensation payable towards tower footing, Right of Way (RoW), crop damage, tree compensation, landowner compensation and other related statutory payments for the transmission line shall be reimbursed by SECI on an actual basis or whether these costs are deemed included in the Contractor's lump-sum EPC price.		Compensation payable towards tower footing, Right of Way (RoW), crop damage, tree compensation, landowner compensation and other related statutory payments for the transmission line shall be borne by the Contractor and these costs are deemed included in the Contractor's lump-sum EPC price.
191	Technical Tender Document – Section VII (Sub-Section A: Scope of Work), Cl. 7 – Statutory Approval		The Contractor is responsible for obtaining statutory approvals required for execution of the works.	Kindly clarify who shall bear the statutory charges, government fees, RoW charges, wayleave charges, compensation payable to statutory authorities and any other statutory expenses associated with obtaining Right of Way for the 220 kV transmission line.		The Contractor is responsible for obtaining statutory approvals required for execution of the works, as described in the Scope of Works and associated Amendments
192	Contractual Tender Document, Cl.4 - JOINT VENTURE & CONSORTIUM CONDITIONS, Cl. 4.1		The Lead partner of the JV/Consortium shall meet individually 100% of Technical Eligibility Conditions given at para above.	It is requested that the Technical Eligibility Criteria may be fulfilled collectively by the consortium members, with the Lead Partner being responsible for contract execution.		Tender conditions remain unchanged.
193	Contractual Tender Document – Section V (Special Conditions of Contract)	Clause 3 – Time Schedule for Completion of Work	The cumulative capacity of 88 MW Ground Mounted Solar PV Power Plant shall be commissioned within 18 (Eighteen) months from the date of signing of the Contract Agreement or as mentioned in the Notification of Award. The milestone schedule also specifies commissioning by D + 18 Months.	Considering the extensive project scope, including detailed engineering, procurement, construction, statutory approvals, and the associated 220 kV transmission line with RoW activities, it is requested to kindly extend the project completion period to provide adequate time for successful execution and commissioning of the project.		Tender conditions remain unchanged.
194	General	-	General	As supply of modules is in SECI scope, bidder request to provide third party verified PAN file of the PV module		SECI shall supply min. 605 Wp PV Modules
195	General	-	General	Bidder request to provide Geotechnical reports		Geotechnical investigation is in the scope of the Bidder.
196	General	-	General	Please confirm whether to consider SVG for reactive power compensation and Harmonic filters for the project		Yes, supply and installation of SVG for reactive power compensation and Harmonic filters as per the output of the Grid Study Report shall be in the scope of the Bidder.
197	Auxiliary Supply System	7	Auxiliary supply system	1. Bidder understand 1 x 100% auxiliary transformer required at Main control room same shall be taped from 33 kV HT switchgear. 2. Bidder understand 1 x 100% auxiliary transformer required at inverter control room same shall be taped from LV side of IDT kindly provide your confirmation for the acceptance of the same.		1. and 2. Auxiliary Supply scheme shall be finalised post-Employer's approval during detailed engineering as per the terms and conditions of the tender.
198	Earthing	11.2.3	The earth electrode shall be made of high tensile low carbon steel rod, molecularly bonded by high conductivity copper on outer surface with coating thickness not less than 250 micron as per relevant standards.	Bidder request to consider the mild steel rod for earthing. Kindly confirm your acceptance for the same.		Terms and Conditions of the Tender shall prevail
199	General - MCR Layout Plan	-	General - MCR Layout Plan	MCR layout plan is not available in RFP. Kindly provide the same with minimum requirement to be maintained for the MCR.		Minimum area requirement for the MCR facility has been provided under Cl 16.2.1. GA & Architectural drawing shall be finalized during Detailed engineering.
200	General - Short circuit withstand capability for cable.	-	General - Short circuit withstand capability for cable.	Cable short circuit withstand will be sized as per Relay coordination study. Please confirm		Acceptable.
201	Solar and DC Cables	2.8.4	Solar cables or group of solar cables combined through branch connector may be laid over ground on GI or FRP cable trays / underground through Double Wall Corrugated (DWC) HDPE conduits from PV String (Series connection of PV Modules) to SMB/String Inverter. The size of the conduit or pipe shall be selected on the basis of 40% fill criteria. Solar cable terminations shall be made with connectors complying IS 16781 / IEC 62852. The connectors shall have degree of protection of IP 68.	The Bidder understands that solar cables may be laid either in cable trays or through underground trenches using DWC HDPE conduits. Please confirm.		Terms and Conditions of the tender shall prevail.
202	General	-	General	Bidder requests to consider Earth Pit for DC System as 1 Nos. per 1.50 MWp.		Earthing system shall be designed as per relevant Clause in the Technical Specifications and on the basis of ERT Report during Detailed Engineering.
203	General	-	General	IDT hotspot calculation shall be done based on inverter output vs temperature curve. Please confirm		The same shall be done in line with IEC 60076-7
204	General	-	General	Please clarify the following: 1. The Internal Arc Test & report shall be applicable to indoor and outdoor HT panel or not?		Applicable to both Indoor and Outdoor Panels