ODISHA POWER GENERATION CORPORATION LTD.
(A Government Company of the State of Odisha)
CIN: U40104OR1984SGC001429
Zone – A, 7th Floor, Fortune Towers, Chandrasekharpur, Bhubaneswar- 751023, Odisha, India
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REQUEST FOR PROPOSAL (RFP) FOR "EPC OF 50MW$_{AC}$ SOLAR PV POWER PLANT" AT IBTPS OF OPGC, JHARSUGUDA, ODISHA, NIT NO. OPGC/SOLAR/EPC, DATE: 25TH AUGUST 2025

OPGC CLARIFICATION RESPONSE DATED 17TH OCTOBER 2025 ON BIDDER'S QUERY

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1.	Annexure-III (Technical Specification)	14.3	126 of 465	Live Loads (Contains loading to incorporate the robot, in case dry robotic cleaning is used)	Bidder Requests to clarify whether to go with wet or dry robotic cleaning	Bidder to consider Wet Cleaning System. For detail specification refer Annexure-2
2.	Annexure-III (Technical Specification)	2.2	38 of 465	Module Cleaning systems (wet cleaning)		
3.	Annexure-III (Technical Specification)	1.1	31 of 465	The 50MWAC Solar PV plant shall comprise of 4 blocks of capacity 13.2MWAC each.	Bidder Understands 13.2MWac is the inverter capacity, Please clarify.	Bidder understanding is correct.
4.	Appendix-2 to Annexure-III (Technical Specification)	-	-	Conceptual PV Plant Layout	Quantity of inverters is considered as 16 and it is given that reactive power compensation is through inverters. Bidder understands that no additional inverters are considered for reactive power compensation and can choose additional inverters.	1. Qty of inverter – Bidder understanding is correct. 2. Reactive power compensation shall be as per CEA guidelines to meet the Grid code.
5.	Annexure-III (Technical Specification)	9.2	66 of 465	Reactive power compensation shall be in line with the requirements of local grid authority and as per CEA requirements. Inverters shall be capable of day and night reactive power requirements with inbuilt components (capacitors & inductors). The quantity of inverters with this feature will be decided during detail engineering.		
6.	Annexure-III (Technical Specification)	2.1	37 of 465	Inside the PV Solar Plant, cables shall be routed through cable racks only, wherever cable racks are not possible to install or any road crossings cable trenches shall be allowed.	Bidder understands that Cables should be laid above ground and requests to use trays instead of racks	Bidder to follow Specification requirement.
7.	Annexure-III (Technical Specification)	20.2	155 of 465	The combiner box shall be designed to accommodate a maximum of 12 inputs with a maximum current rating of 45A6 per input.	Bidder requests to consider the no of inputs according cable size calculation which depends on different factors.	Maximum of 12 inputs shall be considered as per specification. Other details shall be finalised during detail engineering.

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8.	Annexure-III (Technical Specification)	1.4.1	33 of 465	Cable size is chosen based on the acceptable/reasonable power loss and voltage drop limit.	Bidder requests to specify max voltage drop criteria for DC Cable losses and understands that 1.5% is the power loss acceptable.	Max voltage drop shall be decided during detail Engineering. ≤ 1.5% Power loss is acceptable.
9.	Annexure-III (Technical Specification)	4.1	41 of 465	Benchmarks for Energy Yield Computation	Bidder requests to consider the soiling loss as 1% to 1.5% range.	Bidder to follow Specification requirement.
10.	Annexure-III (Technical Specification)	4.1	42 of 465	The minimum theoretical performance ratio that shall be adhered by the Bidders shall be 82.86%	Bidder requests to specify the PR calculation procedure and also specify whether temperature correction is allowed.	Pl. Refer Appendix- A for guaranteed PR and for calculation procedure refer Appendix- D.
11.	Appendix-1 to Annexure-III (Technical Specification)	-	-		Bidder requests to provide all the demarcations in kmz file like the substation location, roads etc.	1. Bidder to refer land Boundary provided in Appendices to spec (Appendix-1). 2. Refer Annexure-1 for Existing 220kV Substation Layout and GA and Schematic for RTU Panel. 3. For other locations if any Bidder to arrange the same after site visit.
12.	Annexure-III (Technical Specification)	2.1	37 of 465	Metering Point is at the energy meter located at medium voltage 33kVcable take-off structure of the Solar PV Project.	The Bidder understands that the metering point for the Performance Guarantee is to be considered at the 33 kV cable take-off structure of the solar PV plant, and not at the remote end.	Bidder's understanding is correct.
13.	Appendix-D to Annexure-II (Draft Contract and Appendices)	4.0	4 of 10	"Metering Point" is at the energy meter located at medium voltage (33 kV) terminals of the transformer installed at the Site.		
14.	Appendix-2 to Annexure-III (Technical Specification)	-	-	Conceptual PV Plant Layout	The Bidder has observed that, in the provided layout, a plant boundary offset of 50 m has been considered and a laydown area has been	An offset of 10 meter has already been considered in the layout.

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					allocated. If the 50 m offset from the plant boundary is strictly applied, it would not be possible to achieve the required capacity with 580 Wp modules. However, if the offset is adjusted to align with industry practice, typically around 10 m, the Bidder would be able to comply with the DC capacity requirement. The Bidder therefore requests confirmation regarding the applicable offset from the Plant Boundary & Laydown Area.	Bidder is advised to visit the Site.
15.	Appendix-2 to Annexure-III (Technical Specification)	-	-	Conceptual PV Plant Layout	The Bidder has observed that a 650 Wp module is used in the Provided Conceptual plant layout. However, procurement of 650 Wp modules in accordance with ALMM 2 in India is challenging. Kindly confirm if the Bidder is permitted to select modules of their own choice as per the ALMM 2 List	As per specification Cl. No 8, Bidders is required to prepare and submit the layout in their bid using higher than 580 Wp modules justifying the Contract DC capacity and all the guaranteed parameters utilizing the available land area as per technical specifications. Selection of Modules shall be as per MNRE's approved list of model and manufactures (ALMM)
16.	Appendix-2 to Annexure-III (Technical Specification)	-	-	Conceptual PV Plant Layout	The Bidder understands from the KMZ file that the total available area is approximately 200 acres. The Bidder would like to confirm that they are free to determine the plant layout based on their own considerations, including	For Solar Plant Layout, Bidder to refer the Drg No 23-6294.001.E102 (Conceptual Plant Layout) wherein the Project Area (Fenced Area) is indicated as 130 Acres. The provided KMZ file indicates the

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					parameters such as offset, pitch, and other design factors.	entire area that includes the shown Solar Plant Layout in the referred drawing, which is at an elevation of 208 RL. At this Elevation space for outside periphery road and drain have already been considered apart from 130 acres as shown. Rest of the area shown in the KMZ file is at an Elevation of 205 RL where the laydown and maintenance area can be planned. In view of this and to clear understand the Layout, Bidder is advised to visit the Site.
17.	Annexure-II (Draft Contract)	7.5.4.1	60 of 103	No later than fourteen (14) days after Owner has received the Notice of Final Completion, Owner will either: (a) deliver to Contractor a written notice (the "Final Completion Certificate") stating that Owner agrees that Final Completion has occurred; or (b) notify Contractor in writing that one or more of the Final Completion Conditions has not been met, stating the reasons therefor. If Owner delivers the Final Completion Certificate, the date of Owner's receipt of the Notice of Final Completion shall be deemed the date that Final Completion has been achieved (the "Final Completion Date"). If Owner notifies Contractor that one or more of the Final Completion Conditions has not been met, Contractor shall promptly take such actions as necessary to achieve such Final Completion Conditions and shall then isue to Owner another Notice of Final Completion. Such procedure shall be repeated until Final Completion is achieved.	Bidder request that if the Owner fails to respond within fourteen (14) days of receiving the Notice of Final Completion, the Final Completion shall be deemed to have occurred on the date of such Notice. Kindly confirm on the same.	Bidder to comply the RFP condition. Existing Provision shall prevail.

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18.	Appendix-B2 to Annexure-II (Draft Contract and Appendices)	(B)	1 of 2	**Payment Schedule for Supply of Equipment:** Ten Percent (10%) of supply price component of the Contract Price as an interest free advance payment against submission of Advance Payment Security for an amount equivalent to 110% of the Advance Payment. This Advance Payment Security shall be reduced in proportion in every quarter, which shall be adjusted against equipment delivered to the Site. Delay interest shall be levied @ prevailing annual SBI MCLR rate plus 150 bps, per annum on the unadjusted Advance Payment beyond the scheduled completion dates in the Contract Schedule. ii. Sixty Percent (60%) (or Seventy Percent (70%) in case of advance of above 10% not paid to Contractor) of total supply price component of the Contract Price for each identified equipment on pro-rata basis on production of invoices including material despatch clearance certificate issued by the Owner (as per approved BBU) as per the procedures specified under the Quality Assurance Plan and acceptance by the Owner (upon received the Equipment in good condition and stored at Site). The payment shall be released in accordance with Contract Schedule with proper sequencing of the material dispatch as approved by the Owner. iii. Ten Percent (10%) upon issuance of Mechanical Completion Certificate by Owner. iv. Five Percent (5%) upon issuance of Substantial Completion Certificate by Owner. v. Ten Percent (10%) upon successful completion of Operational Acceptance Test, successful integration with existing grid system and issuance of Final Completion Certificate by Owner. vi. Five Percent (5%) upon issuance of Final Completion Certificate by Owner against submission of equivalent	We propose the following payment terms similar to the other PSU tender. Supply of Plant and Equipment: (i) Fifteen Percent (15%) of the total Ex-Works price component as Initial Advance Payment on: (II) Fifty Five Percent (55%) of Ex-works price component of the Contract price for each identified equipment upon dispatch of equipment from manufacturer's works on pro-rata basis on production of invoices and satisfactory evidence of shipment which shall be original Goods Receipt or receipted GR / Rail Receipt including Material Dispatch Clearance Certificate (MDCC) issued by the Employer's QA & I representative. (III) Fifteen Percent (15%) of Ex-works price component of the Contract Price for each identified equipment on receipt of equipment at site on pro-rata basis and physical verification and certification by the Project Manager for the equipment received and stored at site. (IV) Two Point Five Percent (2.5%) of Ex-works price Component of the contract price on Mechanical Completion Certificate by Owner.	Bidder to comply the RFP condition. Existing Provision shall prevail.

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				amount of an unconditional, irrevocable, on demand Bank Guarantee (BG) by Contractor valid till 60 days after successful completion of first year of O&M Period. The said BG shall be released after successful completion of first year of O&M Period.	(V) Two Point Five Percent (2.5%) of Ex-Works price Component of the contract price on Substantial Completion Certificate by Owner. (VI) Ten Percent (10%) of Ex-works price component of the Contract price on successful completion of Operational Acceptance Test, successful integration with existing grid system and issuance of Final Completion Certificate by Owner.	
19.	Appendix-B2 to Annexure-II (Draft Contract and Appendices)	(C)	1 of 2	**Payment Schedule for INSTALLATION AND OTHER SERVICES** i. Ten Percent (10%) of installation services price component of the Contract Price as an interest free advance payment against submission of Advance Payment Security equivalent to 110% of the Advance Payment. This Advance Payment Security shall be reduced in proportion in every quarter, which shall be adjusted against equipment delivered to the Site. Delay interest shall be levied @ prevailing annual SBI MCLR rate plus 150 bps, per annum on the unadjusted Advance Payment beyond the scheduled completion dates in the Contract Schedule. ii. Sixty Percent (60%) (or Seventy Percent (70%) in case of advance of above 10% not paid to Contractor) of the installation services price component of Contract Price shall be paid on pro-rata basis (as per approved BBU) against progressive installation of the identified Equipment on certification by the Owner for the quantum of Works completed as per the Contract Schedule, during the preceding month.	Services Contract: I. Ten Percent (10%) of installation services price component of the Contract Price as an interest free advance payment against submission of Advance Payment Security equivalent to 110% of the Advance Payment. II. Seventy-Five Percent (75%) of the Services component of contract price shall be paid on pro-rata basis on completion of works and on certification by the Project Manager for the quantum of work completed and by the certification of Project Manager field quality assurance & surveillance representative for the successful completion of quality check points involved in the quantum of work billed. III. Two Point Five Percent (2.5%) of installation services price	Bidder to comply the RFP condition. Existing Provision shall prevail.

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				iii. Ten Percent (10%) upon issuance of Mechanical Completion Certificate by Owner. iv. Five Percent (5%) upon issuance of Substantial Completion Certificate by Owner. v. Ten Percent (10%) upon successful completion of Operational Acceptance Test, successful integration with existing grid system and issuance of Final Completion Certificate by Owner. vi. Five Percent (5%) upon issuance of Final Completion Certificate by Owner against submission of equivalent amount of an unconditional, irrevocable, on demand Bank Guarantee (BG) by Contractor valid till 60 days after successful completion of first year of O&M Period. The said BG shall be released after successful completion of first year of O&M Period.	component of the contract price on Mechanical Completion Certificate by Owner. IV. Two Point Five Percent (2.5%) of installation services price component of the contract price on Substantial Completion Certificate by Owner. V. Ten Percent (10%) of Services component of the Contract price shall be paid on successful completion of Operational Acceptance Test of entire Solar Photo Voltaic Plant, as specified and issue of Operational Acceptance Certificate by the Project Manager.	
20.	Annexure-II (Draft Contract)	11.5	74 of 103	The Contractor shall demonstrate to Owner's satisfaction in accordance with Section 11.9, showing all necessary documents as the Owner may reasonably require to verify the accuracy of the adjustments to the Contract Price as a result of the events described in this Section 11. The adjustment to the Contract Price shall be payable by Owner as follows: (a) by lump sum payment in an amount proposed by Contractor and accepted by Owner (to be payable as the Parties may agree); or (b) if Owner does not accept the lump sum amount proposed by Contractor, by unit prices agreed upon by the Parties (to be payable as the Parties may agree); or (c) if neither of the methods set forth in Section 11.5(a) or (b) above is agreed upon by the Parties after good faith	Bidder request the Owner to review and respond to Contractor's submission of documents for verification of Direct Costs within fifteen (15) days of receipt.	Bidder to comply the RFP condition. Existing Provision shall prevail.

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				negotiation by the Parties, Contractor shall provide Owner with such purchase orders, invoices, Subcontractor quotes and other documents and records as Owner may require to verify, to its satisfaction, Contractor's additional Direct Costs directly associated with effecting such Change (or resulting from the event constituting such Change). Upon verifying Contractor's Direct Costs associated with such Change, Owner will adjust the Contract Price by an amount equal to One Hundred fifteen percent (115%) of such Direct Costs, which fifteen percent (15%) above such Direct Costs represents a mark-up to compensate Contractor for contingency, overhead, risk and profit, provided that Direct Costs with respect to any Taxes for which the Contractor or Owner are entitled to seek Change shall be limited to the actual change in Contract Price on account of such Change of Law, without any such mark-up.		
21.	Annexure-III (Technical Specification)	2.1	37 of 465	Comprehensive warranty of the entire PV plant against all defects through a defects liability period (DLP) of five (5) years for non-civil works as well as civil works, transfer all component warranties to the Owner post completing the DLP period. The defect liability period shall start from the day of acceptance of Operational Acceptance Test (OAT).	The Defect Liability Period shall be eighteen (18) months from the date of Completion of Substantial Facilities (or any part thereof) or twelve (12) months from day of acceptance of Operational Acceptance Test (OAT), whichever first occurs. Kindly accept.	Bidder to comply the RFP condition. Existing Provision shall prevail.
22.	Appendix-J to Annexure-II (Draft Contract and Appendices)	1.0	1 of 3	SPV Module: MNRE's Approved List of Models and Manufacturers (ALMM). The PV module model must have been in successful operation in 01 MW or above grid-connected solar project in a single location for a minimum duration of 1 year or Successfully completed Operational Acceptance Test (OAT) prior to Proposal Submission Date.	Wrt the MNRE OM No. 283/59/2024-GRID SOLAR dated 28th July 25, please provide clarity on the applicability of ALMM list whether both ALMM List I (for Modules) and ALMM List II (for cells) are applicable or only ALMM List I is applicable, since there is	Either of the ALMM list shall be applicable.

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<tr><th>SL</th><th>REFERENCE</th><th>CLAUSE NO.</th><th>PAGE NO.</th><th>EXISTING PROVISION</th><th>BIDDER'S QUERY</th><th>CLARIFICATION RESPONSE</th></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td>huge impact on the cost structure based on the ALMM consideration. We request to specify.</td><td></td></tr>
<tr><td>23.</td><td>Appendix-A to Annexure-II (Draft Contract and Appendices)</td><td>3.0</td><td>2 of 19</td><td>3.0 <u>Liquidated Damages Caps</u>
<table><tr><th>Sl.</th><th>LIQUIDATED DAMAGES</th><th>PERCENTAGE (%) OF CONTRACT PRICE</th></tr><tr><td>1.</td><td>Delay Liquidated Damages Cap</td><td>05.00</td></tr><tr><td>2.</td><td>Performance Ratio Liquidated Damages Cap</td><td>10.00</td></tr><tr><td>3.</td><td>Overall Liquidated Damages Cap for Sl. (1) and (2) above</td><td>15.00</td></tr><tr><td>4.</td><td>Annual Generation Liquidated Damage Cap for the O&M Period</td><td>05.00</td></tr></table></td><td>We request the following relaxation on the LD cap:
The Delay LD cap shall be 5% of the EPC Contract value.
The Annual Generation LD cap for O&M Period should be 10% of the O&M contract price instead of 5% of total contract price.
Kindly accept.</td><td>Bidder to comply the RFP condition.
Existing Provision shall prevail.</td></tr>
<tr><td>24.</td><td>Appendix-A to Annexure-II (Draft Contract and Appendices)</td><td>2.0</td><td>2 of 19</td><td>2.0 Performance Guarantees:
The Performance Ratio Guarantee (PRG) at Operational Acceptance Test: 1. 0.2% of the Contract Price for each 0.001 (or part thereof) by which the As-Tested Performance Ratio is less than the Performance Ratio Guarantee.
2. 10% of Contract price, if the As-Tested Performance Ratio is less than 0.74 (the "Minimum Performance Ratio Guarantee").</td><td>As per the Standard Industry practice Bidder request OPGCL to provide 3 chances for demonstration of Performance Ratio Guarantee (PRG) at Operational Acceptance Test. Post 3rd attempt if the bidder is not able to demonstration of Performance Ratio Guarantee (PRG), LD shall be applicable as per this clause.
Kindly accept.</td><td>Bidder to comply the RFP condition.
Existing Provision shall prevail.</td></tr>
<tr><td>25.</td><td>Appendix-A to Annexure-II (Draft Contract and Appendices)</td><td>2.0</td><td>2 of 19</td><td>2.0 Performance Guarantees:
The Performance Ratio Guarantee (PRG) at Operational Acceptance Test: 1. 0.2% of the Contract Price for each 0.001 (or part thereof) by which the As-Tested Performance Ratio is less than the Performance Ratio Guarantee.
2. 10% of Contract price, if the As-Tested Performance Ratio is less than 0.74 (the "Minimum Performance Ratio Guarantee").</td><td>The LD % is very high wrt the industry standard. Request you to modify as:
"1. 0.1% of the Contract Price for each 0.001 (or part thereof) by which the As-Tested Performance Ratio is less than the Performance Ratio Guarantee.
2. 10% of Contract price, if the As-Tested Performance Ratio is less</td><td>Bidder to comply the RFP condition.
Existing Provision shall prevail.</td></tr>
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					than 0.74 (the "Minimum Performance Ratio Guarantee")."	
26.	Appendix-B2 to Annexure-II (Draft Contract and Appendices)	(D)	2 of 2	**OPERATION & MAINTENANCE (O&M) SERVICES** Payment of O&M Service cost amounting INR 15.00 Crores (excluding applicable GST) shall be made with monthly payment @ INR 22.4 Lakhs for 1st year, INR 23.6 Lakhs for 2nd year, INR 24.9 Lakhs for 3rd year, INR 26.3 Lakhs for 4th year & INR 27.8 Lakhs for 5th year plus applicable GST every month after successful completion of O&M services for the preceding month, during the O&M Period of 5 years.	We request to specify a minimum O&M price instead of than fixing the O&M price. Kindly accept.	Bidder to comply the RFP condition. Existing Provision shall prevail.
27.	Instruction to Bidder (ITB)	6.1	16 of 39	The Bid Security in the form of Insurance Surety Bond/Bank Guarantee/Fixed Deposit Receipt shall be valid for a period of at least 180 days from the Proposal Submission Date as notified by OPGC and shall have additional claim period of one (1) year, beyond the validity period.	Bidder request employer to reduce the claim period from 1 year to 3 months in accordance with the Bid security amount	Noted. Additional claim period shall be 3 months beyond the validity period.
28.	Instruction to Bidder (ITB)	3.0	30 of 39	The Contractor should complete the Project within Fifteen (15) months (14 months and 1 month for OAT) as the Final Completion from date of Notice to proceed (NTP).	Bidder request OPGCL to change the clause as " The Contractor should complete the Project within Fifteen (15) months as the Final Completion from date of Notice to proceed (NTP) excluding the OAT. OAT shall start within 1 month of Final Completion. Kindly accept.	Bidder to comply the RFP condition. Existing Provision shall prevail.
29.	Appendix-A to Annexure-II (Draft Contract and Appendices)	Table 1	1 of 19		Bidder request OPGCL to remove the Milestone Completion Delay Liquidated Damages for different activity like supply of PV modules, Supply & installation of 220kV Power Transformer, readiness of the facility for performance of Start up etc., as bidder is already liable to	Bidder to comply the RFP condition. Existing Provision shall prevail.

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					pay LD for the delay in Guaranteed Completion of Facility.	
30.	Annexure-III (Technical Specification)	14	123 of 365	The Module mounting structures design shall generally follow the existing land profile. In case of topographical variations more than 3°, the Bidder shall carry out detailed study of its effect on array layout, shadow analysis and structural stability of MMS.	Bidder request OPGCL to confirm that space exclusion for shadow due to overhead lighting arrestors shall not be considered while populating the module mounting structures as per general industrial practice while meeting the required CUF Guarantee.	Shall be finalized during detailed Engineering
31.	General	-	-	General	We request OPGCL to provide AutoCAD file for topography of the site.	AS per Specification Cl. No 32 Bidder to carry out topography study.
32.	Annexure-II (Draft Contract)	17	92 of 103	17.2. Total Liability Limit. 17.2.1 Contractor's total liability to Owner arising under this Contract (individually or in the aggregate, and whether arising before or after termination of this Contract), shall be limited to an amount equal to the Contract Price; provided that such total liability limit shall be exclusive of: (a) Contractor's obligation to complete the Works; (b) Contractor's obligation to pay Owner under Section 14; (c) Contractor's Warranty obligations under Section 10; (d) Contractor's indemnification obligations and Contractor's obligation to reimburse Owner's Costs arising under this Contract; (e) Contractor's obligations under Section 19.18; (f) liability arising out of Contractor's fraud, gross negligence or willful misconduct, illegal or unlawful acts; and (g) Liquidated Damages, which shall be subject to the liability caps set out in Section 17.1.	We request OPGCL to modify the clause of Total Liability Limit as "Except in cases of criminal negligence or willful misconduct: 1. Notwithstanding anything to the contrary, no party shall be liable for any indirect, special, punitive, consequential, or exemplary damages—whether foreseeable or not—arising out of or in relation to this contract, including but not limited to loss of goodwill, profits, or business. However, the limitation of liability in this subclause (1) shall not apply to liquidated damages. 2. The Contractor's liability to the Owner for any losses, claims, damages, costs, or expenses arising out of or in connection with this contract shall not exceed the	Bidder to comply the RFP condition. Existing Provision shall prevail.

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					contract value of the work causing such losses, claims, damages, costs, or expenses."	
33.	Annexure-III (Technical Specification)	8	50 of 465	61MWp shall be the total DC capacity of PV modules to be supplied for the Projects. The module rating shall be higher than 580Wp for Bifacial PV modules with half-cut cell design along with latest cell technologies such as Passivated Emitter and Rear Cell (Mono-PERC) P-type or N-type, Tunnel Oxide Passivated Contact (TOPCon) or Heterojunction (HJT) and system voltage shall be 1500V. The PV modules shall be either in application Class A according to IEC 61730 or in safety Class II according to IEC 61140. The PV modules shall have BIS registration (For Indian Projects only).	Bidder request to include Thin film module technology (approved under ALMM List-I and List-II by MNRE) along with Mono Crystalline Silicon/TOP CON - Bifacial. Industry accepted thin film module specification is attached in Annexure-1 for reference. Further, we request to specify that the minimum Module Rating for Thin film technology shall be 532 Wp or higher without any impact the Guaranteed Performance of the plant. Request your acceptance.	Bidder to follow Specification requirement.
34.	Annexure-III (Technical Specification)	2.1	37 of 465	Construction of 33kV double circuit transmission line including route survey. - The Bidder's responsibility shall include approval of all electrical facilities from relevant grid authority such as State Electrical Inspector/OPTCL etc as applicable. - The Bidder shall procure the ABT meters from the OPTCL approved manufacturers.	We request OPGCL to provide KMZ file for the plot demarketing the cable corridor for laying of 33kv underground cable from the plot periphery to the 33/220 kv OPGC substation.	As per Cl. No 28.2.2.2, Route survey is in Bidder's Scope.
35.	Annexure-III (Technical Specification)	28.2.2.2	242 of 465	The Bidder will identify the number of trees and detail of obstructions to be removed for erection of the line and intimate the Owner well in advance in case of any help. Other related works like construction of temporary approach roads, etc. as required, shall be done by the Bidder and the same will lie within the scope of Bidder s work	We request OPGCL to clarify the scope and specification of roads to be constructed by the bidder. Also we request to provide KMZ file demarketing the type of road which is in the scope of the bidder.	As per Cl. No 28.2.2.2, approach road shall be in Bidder's scope.

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36.	Annexure-III (Technical Specification)	28.2.2.2	52 of 465	8.2 General Benchmark 8.2.1 Product Guarantee PV modules shall be guaranteed for workmanship and performance in-line with specifications that are provided by Bidder and shall be industry accepted. The product guarantee shall be for a minimum period of 25 years; Guarantee will not be limited for modules but will also include termination connectors, cables, junction box, frames and all associated accessories. In the event of failure during the guarantee period, the Bidder shall replace module or components free of cost or refund the prevailing market price of modules.	Max. 10 years of Product Warranty (workmanship) is available from the Module manufacturers, however the Power warranty (performance) is available for 25 years. Request to confirm on the Product Warranty (workmanship) and Power warranty (performance) as per the industry standard.	Bidder to follow Specification requirement.
37.	Annexure-II (Draft Contract)	10.4.2	70 of 103	10.4.2. Warranty Period. Contractor warrants that the Warranty for the Facility shall be valid from the Substantial Completion Date and shall continue in full force until expiration of five years O&M Period.		
38.	Annexure-III (Technical Specification)	28.2.2.2	74 of 465	9.8 Warranty Benchmarks 9.8.1 Product Warranty • Bidder shall be legally bound to provide an Inverter availability guarantee ensuring that entire plant will be fully functional with desired output during warranty period. This warranty will not be limited only for inverters but will also include all associated accessories, instrumentation and control.	Bidder understands that the Product Warranty for the inverter shall be 5 years as per GCC Clause 10.4.2. Kindly clarify. Further request you to clarify on the Extended Warranty requirements of the inverter.	Bidder to comply the RFP condition. Existing Provision shall prevail.
39.	Annexure-III (Technical Specification)	28.2.2.2	74 of 465	9.8.2 Extended Warranty • It is essential that the product should give a consistent performance for 25 years life cycle of the project. The Bidder/OEM shall provide adequate training & Certification of Owner's O&M Persons to enable immediate maintenance actions in consultation with the OEM.		
40.	General	-	-	General	We request OPGCL to include the following clause "The EPC	

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					Contractor will be given an incentive @ 50% rate of PPA tariff for excess generation beyond the guaranteed CUF during O&M Period"	Bidder to comply the RFP condition. Existing Provision shall prevail.
41.	Appendix-J to Annexure-II (Draft Contract)	-	-	APPENDIX-J: ACCEPTABLE SUBCONTRACTORS/VENDORS	Kindly confirm whether the Bidder can propose other SUBCONTRACTORS/VENDORS for Owner's approval post award of the project.	
42.	Annexure-III (Technical Specification)	28.2.2.2	242 of 465	Trimming of tree branches or cutting of a few trees en-route during survey is within the scope of survey to be done by the Bidder. Bidder shall arrange for necessary way-leave and compensation in this regard. During erection of the line, compensation for tree cutting, damage caused to crops, actual cutting and falling of the trees including way-leave permission for such route clearance shall be arranged by the Bidder at his cost. The Bidder will identify the number of trees and detail of obstructions to be removed for erection of the line and intimate the Owner well in advance in case of any help. Other related works like construction of temporary approach roads, etc. as required, shall be done by the Bidder and the same will lie within the scope of Bidder s work.	During the site visit, we have observed many tree and bushes in the route of Transmission Line. We request to take the necessary approvals for tree cutting in owner's scope.	Tree cutting approval is required only for those trees whose girth is more than 30cm which shall be arranged by Owner.
43.	Annexure-III (Technical Specification)	1.2	237 of 465	The approximate route length of 33 KV double circuit transmission line is 7 km out of which 5.5 km is overhead line and 1.5 km is through the cable	Bidder Request to provide the KMZ file	1. Bidder to refer land Boundary provided in Appendices to spec (Appendix-1). 2. Refer Annexure-1 for Existing 220kV Substation Layout and GA and Schematic for RTU Panel. 3. For other locations if any

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						Bidder to arrange the same after site visit.
44.	Annexure-III (Technical Specification)	2.1	36 of 465	Scope of Work	The bidder understands that the scope of work is limited to the bay extension work of the existing 220 kV switchyard. Kindly confirm the same.	Bidder to follow Specification requirement. Refer clause no 29.1
45.	Appendix-2 to Annexure-III (Technical Specification)	-	-	6.23.6294.001.AM1.A101(33kV MV Panel) Bid drawings-MV Panel drawing	Bidders wishes to clarify that Runs and size of the cables can be confirmed upon working	To be discussed during detail engineering.
46.	Appendix-2 to Annexure-III (Technical Specification)	-	-	6.23.6294.001.AM1.A101(33kV MV Panel) Bid drawings-MV Panel drawing	Bidder understands that TTB represent Testing terminal and RTB refers to Time delay relay	TTB- Test Terminal Block RTB - Relay Test Block
47.	Instruction to Bidders (ITB)	3.0 (B.)	10 of 39	a. The Solar PV Project consists of installation of solar PV modules, grid-tied inverters, inverter/power transformers, meters, control panel, HT switchgear, **33 kV switchyard** and power evacuation line from Solar plant end to 220 KV Switchyard of IBTPS.	Bidder wishes to clarify that the switchyard works is applicable for 220kv bay extension and not for 33kv switchyard	Bidder to follow Specification requirement. Refer clause no 28
48.	Appendix-A to ITB (Instruction to Bidders)	2.0	28 of 39	a) Project permitting including all permits necessary for the construction and operation of the solar PV plant including 33kV transmission line and Switchyard works at 220KV OPGC substation including connectivity with existing 220 KV system.		
49.	Appendix-2 to Annexure-III (Technical Specification)	-	1 of 1	6.23.6294.EM001.S02(13.2MVA Inverter Station Structural GA) Bid drawings-13.2MVA Inverter Station Structural GA	Bidder request to consider Outdoor platform to place ups BB, ups DB Aux trafo panels	Bidder to follow Specification requirement.
50.	Annexure-III (Technical Specification)	-	213 of 465	Inverter Duty Transformers	Kindly provide the winding material of the Inverter Duty Transformers	Bidder to follow Specification requirement. Refer clause no. 10.4.2.3

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51.	Annexure-III (Technical Specification)	-	-	General	Kindly provide the System fault current rating	Bidder to follow Specification requirement.
52.	Annexure-III (Technical Specification)	1.1	32 of 465	33kV output of two inverter stations can be combined by utilising ring system, thereby limiting each feeder to a maximum of 26.4MWAC. Further, a 50MWAC solar PV plant, there shall be 2 such feeders of 26.4MWAC each. The point of interconnection of the same feeders shall remain at the 33kV bus of the PV Solar Plant.	Kindly clarify the no. of available feeder to terminate 50MW AC capacity	The given specification clause is itself self explanatory.
53.	Annexure-III (Technical Specification)	28.2.2.2	242 of 465	Way-leave permission that may be required by the Bidder shall be arranged at his own cost.	Bidder request to include Way-leave permission and Tree cutting to be on owner's scope	ROW permission is in OPGC scope. Site clearance for laying of transmission line is in bidder's Scope as per clause no 28.2.2.2.
54.	Annexure-III (Technical Specification)	-	229 of 465	Bidder shall unload, store and Install the MV switchgear panels to the construction site	Kindly clarify the scope of 33KV HT Switchgear	Same is in bidder's scope
55.		-	243 of 465	28.4 Terminal Points 1. From the breaker terminals of outgoing uncabled 33kV feeders at MCR of PV Solar Plant. 2. Up to 220kV bay extension and connection to the extended bus-bars at existing 220kV substation of OPGC.		
56.	Annexure-III (Technical Specification)	28.1	237 of 465	1.1. Supply and installation of (i) 33kV Double Circuit ACSR AL59 Conductors with NBLS Towers from laying of 33kV cables from the outgoing feeders of 33kV Switchgear in the MCR of PV Solar Plant to the 33kV cable take-off structure at the PV Solar Plant,	Kindly provide the 1.Size of the Double Circuit ACSR conductor to be used 2.Provide the Pole and tower drawing for the 33KV transmission line	1. ACSR/AL59 Conductor shall be used and size of conductor shall be discussed during detail engineering. 2. Same is in bidder's scope
57.	Annexure-III (Technical Specification)	29.17.2	412 of 465	Cables sizes shall be selected considering the variation in ambient and ground temperature, method of laying, power loss, current carrying capacity, voltage drop,	Kindly specify the 1. Ground temperature to be considered	1. Ground Temp. shall be considered as per max. ambient temp. of 50 ^{o}C. 2. Voltage drop shall be

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				maximum short circuit duty and the period of short circuit to meet the anticipated currents.	2. AC Cable Voltage drop to be considered	considered as per CEA guidelines.
58.	Annexure-III (Technical Specification)	29.15.1 Scope	399 of 465	The scope of work shall include supply, installation, testing & commissioning of Tariff meters and metering Panel for the solar project.	Kindly confirm the location of ABT Meter whether it is at 33kV or 220 kV level.	Bidder to follow Specification requirement. Refer Clause no. 29-15
59.	General	-	-	General - Short circuit withstand capability for cable.	Cable short circuit withstand will be sized as per Relay coordination study. Please confirm	Bidder understanding is correct and shall be as per IS/IEC standard.
60.	General	-	-	General	Kindly confirm the TRT value to be considered for the MV Cable sizing.	Shall be as per IS/IEC standard.
61.	Annexure-III (Technical Specification)	10.4.2.3	81 of 465	Winding conductor should be electrolytic grade Copper, free from scales and burrs. The coils shall be manufactured from electrolytic copper conductor and fully insulated for rated voltage. Insulation shall be of Class A.	Bidder proposes the IDT with aluminum winding material, kindly provide your confirmation on the same.	Bidder to follow Specification requirement.
62.	Annexure-III (Technical Specification)	29.17.2	412 of 465	Cables sizes shall be selected considering the variation in ambient and ground temperature, method of laying, power loss, current carrying capacity, voltage drop, maximum short circuit duty and the period of short circuit to meet the anticipated currents.	Kindly specify the 1. Ground temperature to be considered 2. AC Cable Voltage drop to be considered	Refer Sl. No.13
63.	Annexure-III (Technical Specification)	29.15.1	399 of 465	The scope of work shall include supply, installation, testing & commissioning of Tariff meters and metering Panel for the solar project.	Kindly confirm the location of ABT Meter whether it is at 33kV or 220 kV level.	Refer Sl. No.14
64.	General	-	-	General - Short circuit withstand capability for cable.	Cable short circuit withstand will be sized as per Relay coordination study. Please confirm	Refer Sl. No.15
65.	General	-	-	General	Kindly confirm the TRT value to be considered for the MV Cable sizing.	Refer Sl. No.16
66.	General	-	-	General - Corrosion Category	Kindly confirm the Corrosion Category To be considered for the all the equipments.	Refer Cl.no 9.6 of Technical Specification

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67.	Annexure-III (Technical Specification)	-	-	General	Kindly share the kmz file showing the Location of OPGCIL existing substation and 220KV bay extension location.	1. Bidder to refer land Boundary provided in Appendices to spec (Appendix-1). 2. Refer Annexure-1 for Existing 220kV Substation Layout and GA and Schematic for RTU Panel. 3. For other locations if any Bidder to arrange the same after site visit.
68.	Annexure-III (Technical Specification)	-	-	General	Please provide the due diligence or as built Design drawings for the existing OPGCIL Substation for better understandings of the structures.	To be discussed during detail engineering.
69.	Annexure-III (Technical Specification)	-	-	General	Kindly share the topography survey report in AUTOCAD format for the project site.	Bidder to follow Specification requirement. Refer Cl no. 32
70.	Annexure-III (Technical Specification)	-	-	General	Kindly provide the geotechnical and area hydrology survey report for the PV plant area and existing substation area.	Bidder to follow Specification requirement. Refer Cl no. 31
71.	Annexure-III (Technical Specification)	-	-	General	Kindly confirm the corrosion catogory for the project site.	Bidder to follow Specification requirement. Refer cl no 9.6
72.	Annexure-III (Technical Specification)	-	-	Road	Kindly clarify the scope of Periphery Road, Internal Road also provide the technical specification i.e. type of road (WBM or Bituminous) to be considered for the PV Plant.	Bidder to follow Specification requirement. Refer cl no 29.17.20

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73.	Annexure-III (Technical Specification)	-	-		Kindly share the drawing of road cross - section for the project.	
74.	Annexure-III (Technical Specification)	-	-	Drain	Kindly share the technical specification for drain for the PV plant.	Bidder to follow Specification requirement. Refer cl no 29.17.19
75.	Annexure-III (Technical Specification)	1.6	35 of 465	Basic wind speed: 44m/sec	Bidder proposes to consider Basic wind speed of 39m/s according to IS 875:2015 (Part 3) Wind Zone map of India (Pg No. 19/69). Kindly confirm.	Noted.
76.	Annexure-III (Technical Specification)	14	123 of 456	MMS	Kindly confirm the coping height for the module mounting structure.	Minimum coping height shall be 500mm.
77.	Annexure-III (Technical Specification)	14.1	124 of 465	Irrespective of design requirements, minimum thickness of cold form sheet excluding anti corrosive treatment shall be 2.0 mm for columns and bracings, 1.6mm for rafters and 1.2mm for purlins (1.0mm in case Hat sections are used for purlins).	Bidder proposes Rafter, Purlin and bracings as galvalume section with thickness 1.2mm ,0.9mm, 1.2mm of 550MPA respectively. And remaining structural members as cold formed section of minimum 2mm thickness.	Bidder to follow Specification requirement.
78.	Annexure-III (Technical Specification)	14.1	125 of 465	Cold form members including rafter / purlins / mounting rails (less than 2mm thickness) shall be Galvalume. Column shall have minimum 2mm thickness with hot dipped galvanization coating with minimum thickness as per the corrosion assessment report recommendations for the site.		
79.	Annexure-III (Technical Specification)	14.1	124 of 465	For estimation of design wind loads on purlins (Note 1, Table 14-1 of IS 875- Part 3), WL(downward) and WL(upward) on modules (laid in the profile of mono slope canopy) shall be applied such that the Centre of pressure should be at (0.3 × length of canopy) from windward end (for simplicity, the wind load distribution may be taken as rectangles of different intensities with max. value at windward end).	Bidder proposes for Uniformly distributed load on pulling. Kindly confirm.	Bidder to follow Specification requirement.

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80.	Annexure-III (Technical Specification)	14.1	124 of 465	Reduction in pressure by 20% for purlin is not acceptable.	Bidder proposes 20% reduction in wind speed for structures below 10m height as per IS 875-2015 part 3. Kindly confirm.	Bidder to follow Specification requirement.
81.	Annexure-III (Technical Specification)	2.2	38 of 465	Module Cleaning systems (wet cleaning)	Kindly confirm the type of module cleaning to be adopted for the project.	Bidder to consider Wet Cleaning System. For detailed specification refer Annexure-2.
82.	Annexure-III (Technical Specification)	14.1	127 of 465	The deflection in the mounting rails/purlins shall be within limits to ensure effective movement of robot without any hindrance to the operation.		
83.	Annexure-III (Technical Specification)	30.1	435 of 465	Construction of security systems, structures and their foundations including watch tower, main security room with toilet block.	Kindly confirm the requirement of watch towers for the project location. If yes, kindly share the number and detail technical specification for the watch towers.	Two nos. of watch-towers shall be provided (height 7meter with concrete staircase with a room of 2meter x 2meter). Watch-towers shall be installed at locations identified as blind spots in the plant layout.
84.	Annexure-III (Technical Specification)	30.3	436 of 456	The Bidder shall commence the tree/vegetation cutting only after receiving permission from the concerned authority	Kindly confirm the tree cutting approval from the concerning authorities will be arranged by the owner.	Tree cutting approval is required only for those trees whose girth is more than 30cm which shall be arranged by Owner.
85.	Annexure-III (Technical Specification)	30.4	437 of 465	The Finished Ground Level (FGL) / plinth level of all buildings and other ancillary structures shall be minimum 1m or as specified in hydrology report above the formation level / grade level.	Bidder proposes to provide 500 mm FFL to be considered for the RCC buildings for the project.	Bidder to follow Specification requirement.
86.	Annexure-III (Technical Specification)	30.8	443 of 465	Finish floor level of all building shall be minimum 1200mm above from finish graded level.		
87.	Appendix-2 to Annexure-III (Technical Specification)	-	-	6.23.6294.EM001.S03(MCR Architectural Drawing) Bid Drawings- MCR Architectural drawing		

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88.	Annexure-III (Technical Specification)	30.13	450 of 465	Security cabin - The size and minimum requirements shall be as per the detail GA/Architectural drawings submitted by the Owner.	Kindly confirm the availability of the drawing.	One Security cabin shall be provided at the main entrance. The minimum size of the security cabin shall be 3 meter X 3 meter. Accordingly detail GA/Architectural drawings shall be submitted by the Bidder during detailed Engineering.
89.	Annexure-III (Technical Specification)	30.14	451 of 465	The Store room is a composite structure comprising a reinforced concrete foundation and platform up to plinth level, and a PEB steel frame superstructure covered with light weight concrete block wall for the storage of Mandatory spares.	Kindly provide the minimum area to be considered for the Store room.	Min size of Store room shall be 15M x 10M with clear height of 6M.
90.					Bidder proposes to provide PEB sheet instead of light weight concrete block for walls.	Bidder to follow Specification requirement.
91.	Annexure-III (Technical Specification)	2.2	37 of 465	Module Cleaning systems (wet cleaning)	Bidder requests to provide specification regarding the module cleaning system, including the cleaning cycle and operating pressure.	Bidder to follow Specification requirement. Pl. refer clause no. 8.3.9.
92.	Annexure-III (Technical Specification)	10.8	90 of 465	10.8 Nitrogen Injection Fire Prevention cum Extinguishing System (NIFPES) 10.8.1 Technical Requirements • Each oil filled transformer shall be provided with a dedicated Nitrogen Injection system for prevention against the transformer explosion which shall use nitrogen as quenching medium.	Bidder understands that only NIFPs and portable fire extinguisher protection is required for transformer. Kindly confirm	NIFPS shall be used for transformers and Portable fire extinguisher for other areas.
93.	Annexure-III (Technical Specification)	29.4.5	327 of 465	29.4.5 Nitrogen Injection Fire Prevention cum Extinguishing System (NIFPES) 29.4.5.1 Technical Requirement • Each oil filled transformer shall be provided with a dedicated Nitrogen Injection system for prevention against		

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				the transformer explosion which shall use nitrogen as quenching medium.		
94.	Annexure-III (Technical Specification)	Table 25-1	199 of 465	Applicable standard for FAS	Bidder propose to follow Indian Standards IS 2189 instead of EN 54. Kindly accept.	Bidder to follow Specification requirement.
95.	Annexure-III (Technical Specification)	25.4	205 of 465	Automatic fire detection cum alarm system: This shall be provided in all enclosed inverter stations, main control room and building. Fire detection and alarm system shall be integrated with Remote terminal unit (RTU) Panel. Fire detectors located in inverter station shall be looped and supplied to auxiliary contacts provided in the RTU panel for communication; however, fire detector panel shall be provided in main control room.	Bidder proposes outdoor type inverters and it is placed in a platform with canopy. In such condition the fire detection system (smoke and fire detectors, manual call points, and indoor strobes) is not applicable. Please confirm.	Bidder to follow Specification requirement.
96.	Annexure-III (Technical Specification)	Table 25-2	205 of 465	Fire Protection equipment	The specified 4.5 Kg DCP, 30–35 Kg CO_2 trolley-mounted, and 6 Kg foam hand portable fire extinguishers are not available in the Indian market, bidder suggests considering 4 Kg DCP, 22 Kg CO_2 trolley-mounted, and 6 Ltr foam hand portable extinguishers as alternatives. Kindly confirm.	To be discussed during detail engineering.
97.	Annexure-III (Technical Specification)	30.7	440 of 465	HVAC systems serving critical areas such as Control Rooms shall be provided with duty/standby air handling and mechanical cooling plant to ensure continuity of operation.	Bidder understands that HVAC system has to be provided in Control Room or SCADA room of the Main control room building mentioned as in clause 30.1. It is further understood that split air conditioning units shall be provided, with N+1 redundancy. Kindly confirm.	Bidder to follow Specification requirement. Bidder to refer clause no. 30.7.

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98.	Annexure-III (Technical Specification)	Table 30-2	441 of 465	Max Indoor Temperatures and Relative Humidity for Different HVAC Systems	Bidder understands that the Auxiliary Transformer, Capacitors, Reactors, Compensators, etc., are installed outdoors and are thus exposed to atmospheric conditions. Therefore, bidder requests that the requirement for HVAC systems for these areas be excluded. Kindly confirm.	Auxiliary Transformer, Capacitors, Reactors, Compensators, etc. to be installed indoor as per the specification. For HVAC system shall be installed as per Cl. no. 30.7 of Technical Specification.
99.	Annexure-III (Technical Specification)	32.9	464 of 465	Ground water shall be analysed for physical and chemical properties and that chemical analysis shall also include but not limited to tests for pH, total hardness, total alkalinity, TDS, dissolved inorganic substance like sulphates, chlorides, calcium, magnesium, sodium, potassium, sulphate, iron, carbonate, bi-carbonate, total alkalinity, total hardness, organic substance, presence of clay, silt, silica etc.	Bidder request to provide the water test report for checking the suitability of water for module cleaning.	Bidder to refer Annexure-3 for Raw Water Quality.
100.	Annexure-III (Technical Specification)	26.2.1	210 of 465	A minimum of 5 licenses shall be made available for web remote monitoring.	Bidder understand that: a. Bidder to consider necessary web client licenses for remote monitoring. b. Any hardware and software required at remote location is not part of bidder's scope. c. OPGC to consider necessary internet connectivity at remote location for this monitoring. Kindly confirm that bidder's understanding is correct.	a. Bidder's understanding is correct (Min. 5no. Licenses) b. Any hardware and software required at remote location is in Bidder's scope. c. Necessary internet connectivity at remote location is in Bidder's scope.
101.	Annexure-III (Technical Specification)	20.2	155 of 465	The combiner box accessories shall be assembled within a single enclosure with a transparent hinged door arrangement. The enclosure and door shall be dustproof, non-conductive, impact resistant, UV resistant, and flame	Bidder understand that "SMB Monitoring design and requirements is not in scope of Bidder".	Bidder understanding is not correct.

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				retardant and shall be made from fibre-reinforced polymer or polycarbonate suitable for outdoor applications with an IP65 protection rating.	Kindly confirm that our above understanding is correct.	Bidder to follow specification requirement.
102.	Annexure-III (Technical Specification)	26.2	208 of 465	All the SCBs, Inverters, transformers, MV Switchgears, switchyard equipment and metering shall be integrated with the SCADA system. The central weather monitoring station shall also be integrated with SCADA.		
103.	Annexure-III (Technical Specification)	26.2	209 of 465	The 2 nos. of OMS and EMS servers are to be chosen with Raid 5 Configuration	Bidder understand that 1 no. of EWS CUM OWS CUM DATABASE SERVER and 1 no. of EWS CUM OWS workstation should be considered in the Main control room.	Bidder understanding is correct.
104.	Annexure-III (Technical Specification)	26.2	208 of 465	The local SCADA/monitoring system shall have an interface based on an open protocol (OPC-UA) and be able to connect with the Owner's server for centralized SCADA/monitoring.	Bidder understand that: a. Bidder to consider necessary OPC UA protocol in offered SCADA System for interfacing with Owner's Server of EMPLOYER. b. Existing Owner's Server (in scope of OPGC) is located in remote location. c. Bidder to consider necessary internet connectivity at solar plant end for this interfacing. d. Updation & configuration work in existing Owner's Server for Solar plant related tags shall be carried out by Owner and same is not part of bidder's scope. e. Any hardware and software required at existing Owner's server end is not part of bidder's scope. Kindly confirm that bidder's understanding is correct.	Bidder to consider necessary OPC UA protocol in offered SCADA System for **future** interfacing with Owner's Server of EMPLOYER.

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105.	Annexure-III (Technical Specification)	26.2.2	211 of 465	The data to be stored in the above system shall include alarm and event lists, periodic plant data, and selected logs/reports. The data/information to be stored & frequency of storage and retrieval shall be finalized during detailed engineering. The system shall provide user-friendly operator functions to retrieve the data from historical storage. It shall be possible to retrieve the selected data on OWS or printer in form of a trend/report by specifying the date, time & period. Further suitable index files/directories shall also be provided to facilitate the same. The logs/reports for at least the last seven (7) days shall be available on the disk.	Bidder understands that the historian system to be considered for this requirement is the same system in which the historical data has to be stored. Kindly confirm that bidders understanding is correct.	Bidder understanding is correct. Bidder to consider a separate Historian system as per the technical specification.
106.	General	-	-	-	Bidder understand and proposes to consider the following a. Redundant PLC at CMCS (Main Control room). b. Non- Redundant PLC RIO/RTU at each Inverter Room. c. Hot swappable IO modules for CMCS (Main Control room) d. Non-Hot swappable IO modules at each Inverter room. Kindly provide your acceptance for the same.	Bidder to consider redundant system for Main Control room & Inverter room with hot swappable IO modules.
107.	General	-	-	-	Bidder proposes the cameras to be located in the following locations: 1. Periphery 2. Inverter stations 3. Main control room 4. Main entry and exit gate	To be discussed during detailed engineering.
108.	General	-	-	-	Bidder wishes to know the distance between the plant area and the	Bidder to interface with OPGC existing switchyard for onward communication with SLDC.

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					nearest State Load Dispatch Center (SLDC).	
109.	Annexure-III (Technical Specification)	7	45 of 465	The Owner shall in addition to Bidder's SCADA and monitoring framework, independently include a data monitoring and analysis platform to assess plant performance and suggest suitable mitigatory actions based on the O&M contract.	Bidder requests owner to provide detailed information regarding the existing Substation Automation System (SAS) deployed at the OPGC substations at IB THERMAL POWER STATION BANHARPALLI, JHARSUGUDA ODISHA. Specifically, the bidder seeks the following: *Make and model of the existing SAS system *Architectural details, including system topology, communication protocols, and interfacing methodology *Existing bay controller and IED configuration *Availability of spare terminals, IO cards, and communication ports for integration of the proposed bay extensions *Confirmation on whether any augmentation or expansion of the SAS system is required to accommodate the new BESS bays, in line with CEA and OPGC standards.	1.Existing switchyard bay control and protection system is relay based System. 2. Existing Switchyard Layout is attached for reference.
110.	Annexure-III (Technical Specification)	28	237 of 465	The 33kV double circuit Transmission line is required to transmit power from 50MW Solar PV project to 33 kV three panels with breakers at 220kV OPGC Sub Station.	Bidder requests owner to provide preliminary route length	The details have been provided in specification and Bidder to follow the same.

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111.	Annexure-III (Technical Specification)	28.1	237 of 465	Supply and installation of (i) 33kV Double Circuit ACSR AL59 Conductors with NBLS Towers from laying of 33kV cables from the outgoing feeders of 33kV Switchgear in the MCR of PV Solar Plant to the 33kV cable take-off structure at the PV Solar Plant, (ii) 33kV Switchgear panels for combining the double circuit with Gantry, (iii) 80 MVA 220kV/33kV Power Transformer, (iv) bay extension at 220kV substation and connection thereof.	Bidder requests owner to confirm which type of ACSR/AL59 conductor to be considered.	However the route length as provided in specification is indicative. ACSR/AL59 conductor has already been specified in Tech Specification.
112.	Annexure-III (Technical Specification)	28.1	237 of 465	The approximate route length of 33 KV double circuit transmission line is 7 km out of which 5.5 km is overhead line and 1.5 km is through the cable.	Bidder requests owner to provide preliminary route length	
113.	Annexure-III (Technical Specification)	28.1	237 of 465	It is necessary that the bidder conduct detailed route surveys of the entire 33kV transmission line route to acquaint themselves with terrain conditions and associated underground facilities / over ground obstacles for finalizing the 33kV tower locations and to assess its crossing with canals, pipelines, power lines and communication lines.		
114.	Annexure-III (Technical Specification)	28.1	237 of 465	Preparing Engineering documents for approval such as span length calculation, sag-tension calculation, conductor sizing calculation, 33kV NBLS tower and foundation design calculations.		
115.	Annexure-III (Technical Specification)	28.1	238 of 465	12F Single Mode OPGW Cable for tower line with all required accessories for communication of signals at both the ends.		
116.	Annexure-III (Technical Specification)	28.4	243 of 465	2. Up to 220kV bay extension and connection to the extended bus-bars at existing 220kV substation of OPGC.	Bidder requests Owner to provide the following technical details of the OPGC substations at IB THERMAL POWER STATION BANHARPALLI, JHARSUGUDA ODISHA. *Existing busbar configuration, including scheme type and switching arrangements	Pl. refer SLD for busbar configuration and further twin moose for bus bar conductors. Other details are to be provided during detail engineering.
117.	Annexure-III (Technical Specification)	29	301 of 465	At 220kV OPGC substation there is vacant space available for the bay extension. However, it's important to note that the transformer placement will be at a lower level than the existing switchyard, so levelling up to the existing FGL shall be done		

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					*Busbar conductor specifications, including type, size, material and current-carrying capacity. *Confirmation on whether the existing busbar conductor ampacity is adequate to accommodate the proposed bay extension, and whether any bus modifications or upgrades are required *Existing Erection Key Diagram (EKD) layout and sectional drawings of the substation *Existing equipment jumpering conductor arrangements, including jumpering conductor specifications *Existing DSLP layout arrangement *Confirmation on whether additional lightning/lighting towers are required to be considered for the proposed bay extension.	
118.	Annexure-III (Technical Specification)	29.1	301 of 465	Supply and installation of 80 MVA 220kV/33kV power transformer, gantry, extension of a new bay, SF6 circuit breaker, Isolating & protection devices with all associated equipment at existing 220kV substation and interconnecting at the extended busbars. Bidder is to extend the bay as per the design and configuration as that of existing 220 kV substation. Bidder is to refer the SLD (312-112-10-0100) attached in Annexure-2 (Bid Drawings).	Allow bidder to consider the required MVA rating of the power transformer based on the PV capacity. Transformer ratings shall comply with the CEA Guidelines and Standard Specifications.	Bidder to follow Specification requirement.
119.	Annexure-III (Technical Specification)	29.2	302 of 465	The Bidder shall execute the work for switchyard Bay extension and metering and communication works. Bidder shall review the existing Switchyard and prepare single line diagram, Layouts, bill of material and all applicable requirements etc.	*Bidder request to provide the existing substation Protection SLD. *Bidder request to provide existing substation Layout & sections *Bidder request to provide existing	Pl. refer SLD for busbar configuration and further twin moose for bus bar conductors. Other details are to be provided during detail engineering.

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				Scope of services and engineering activities to be performed by Bidder under this contract shall generally consist of followings, but not limited to following: - • Overall single line diagram with relay and metering protection system. • Switchyard plan and sectional view as per approved switchyard short circuit force calculation. • General arrangement (GA), single line diagram (SLD) and scheme drawing of control relay panel. • Switchyard related engineering calculations such as short circuit force, earthing design, lightning protection (DSLP) calculation, cable and conductor sizing, CT & PT sizing, sag-tension calculation for ACSR for maximum span, cantilever strength calculation of PI, Illumination calculation etc. • Sizing of various electrical equipment and confirmation of the rating of the various equipment. • Switchyard layout drawings (plan, section and clearance diagram). • Complete civil, structure and electrical system related engineering (drawings / documents) for the switchyard.	substation busbar conductor & equipment jumpering details. *Bidder request to provide existing substation Gantry structure GA drawings and equipment structures GA drawings & also please confirm that whether the existing gantry structures are suitable for the proposed new bay extension without any modification in the existing any gantry tower & beam need to be replace. *Bidder request to provide existing substation lighting and lightning layout and design calculation details. *Bidder request to provide the existing substation Protection Schemes. *Bidder request to provide the existing substation Existing earthing layout, equipment earthing & ERT report. *Bidder request to provide the existing cable routing layout, cable trench GA layout with sections, cable schedule with termination charts etc. *Bidder request to provide existing substation Tele protection and communication details along with FOTE & PLCC. *Bidder request to provide existing	
120.	Annexure-III (Technical Specification)	29.2	302 of 465	• Design calculation for switchyard civil foundation / structure. • Lighting system design calculation and layouts for complete switchyard area. • Earthing system design calculation including the measurement of earth resistivity of 220kV switchyard as per IEC Pub 60364 (and Parts) electrical installations in buildings and IEEE 80 for complete switchyard area including control room. • Lightning protection design calculation and DSLP layout as per IEEE 998 for complete switchyard area including control room or other applicable methods. • Various electrical layouts such as electrical equipment's		

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				layouts, lighting layouts, cabling layouts, Earthing layouts, lightning protection layout etc. for complete switchyard area. • Control, metering, protection and signaling scheme of each piece of equipment. • Walk way layout for operation and maintenance of switchyard equipment.	substation SAS details with architecture.	
121.	Annexure-III (Technical Specification)	29.2	302 of 465	• Preparation of bill of material for cabling, lighting, Earthing, lightning protection and miscellaneous items for switchyard area and substation area. • Cable schedule and interconnection and termination drawings. • Protections relay co-ordination for unit and backup protections. • Preparation of all Civil related documentation including design calculation and civil layouts related to this transformer and extension bay package of Switchyard. • Internal roads soak pits, burnt oil pits, fencing etc. along with design calculations. • Overall drainage system layout including storm water drainage and cable trench drainage in switchyard area. • Factory inspection and testing procedure for electrical equipment, which are in scope of Bidder. • Field testing and commissioning procedure for all electrical equipment.		
122.	Annexure-III (Technical Specification)	29.3.5	302 of 465	• Integration of Owner's communication system including various Cable lying and terminations. • Metering and communication works at existing 220kV Switchyard Bay extension design and engineering documents as per OPGC requirement.	Bidder requests Owner to provide details of the existing telemetry infrastructure and communication channel architecture of substations. Specifically, the bidder seeks the following information: *Existing Remote Terminal Unit (RTU) configuration, including	To be finalized during detail engineering.

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					make, model, and mapped data points *Communication protocols currently in use. *Primary and secondary communication channels and media (e.g., Optical Ground Wire [OPGW], MPLS, PLCC) *Network topology and integration with SCADA/EMS systems *Connectivity framework with Renewable Energy Management Centre (REMC) and Regional Load Dispatch Centre (RLDC), including ICCP or other inter-control center protocols *This information is critical for the bidder to assess interoperability and plan the integration of the proposed RTU system with the existing telecommunication infrastructure, ensuring seamless data exchange and full compliance with CEA & OPGC guidelines.	
123.	Annexure-III (Technical Specification)	29.4.4.8	316 of 465	A device to analyse the gas dissolved in transformer oil whenever transformer under abnormal condition (i.e. Overheating, arcing etc.). This device shall able to checks or monitors the gases (H2, C2H2, C2H4, CO) in oil in real time continuously and shall be able to sounds alarm when abnormality found in transformer. •DGA shall be easy to mount on the operating transformer without any operational interruption.	Allow bidder to consider the power transformer thickness of radiator thickness as per CEA Guidelines.	Bidder to follow Specification requirement.

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				•DGA shall equip with suitable port for communication with SCADA system.		
124.	Annexure-III (Technical Specification)	29.4.4.15	316 of 465	• Each radiator bank shall have its own cooling fans, shut off valves at the top and bottom (80mm size), lifting lugs, top and bottom oil filling valves, air release plug at the top, a drain and sampling valve and thermometer pocket fitted with captive screw cap on the inlet and outlet. Radiators shall be designed to avoid pockets in which moisture may collect and shall withstand the pressure tests. The thickness of radiator shall be maintained to minimum 1.2mm.		
125.	Annexure-III (Technical Specification)	29.11	384 of 465	29.11.5 Mimic Diagram • Mimic diagram of electrical connections shall be furnished on the front face of electrical control panels in accordance with the enclosed drawings. • Mimic buses shall be at least 10mm in width, made of suitably treated metal strips or approved equivalent and colour coded to denote different voltages. • The mimic representation, colour and size of diagram are subject to the approval of the OPGC/OPGC. • Mimic diagram will not be applicable in case of control and relay panel with BCU type instead of conventional.	Bidder requests owner to provide the following technical documentation of OPGC substations at IB THERMAL POWER STATION BANHARPALLI, JHARSUGUDA ODISHA, to facilitate accurate integration of the proposed bay extensions: *Existing busbar configuration, including scheme type, sectionalizing arrangements, and associated switching devices *Existing busbar protection and control schemes, including protection philosophy, relay types, CT arrangements, and logic diagrams *Confirmation on whether the existing busbar control and protection panels are adequate to accommodate the proposed BESS bay extensions, specifically	To be finalised during detail engineering.

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					regarding: *Availability of spare terminals, I/O cards, and communication ports *Compatibility with existing Substation Automation System (SAS) architecture and protocols *Whether any retrofitting or augmentation is required, such as additional bay controllers, relay modules, or panel expansion, to ensure seamless integration and compliance with CEA and OPGC standards.	
126.	Annexure-III (Technical Specification)	29.12	392 of 465	Earth mat is already existing in Switchyard area. Main Earth mat to be laid in the balance area under the present scope of work. All the equipment, structures, cable trenches, auxiliary earth mat for isolators etc. shall be earthed by connecting them to the main earth mat by the Bidder	Bidder requests to provide the following details of OPGC substations at IB THERMAL POWER STATION BANHARPALLI, JHARSUGUDA ODISHA: *Existing substation earthing layout drawings *Equipment earthing details, including earthing grid configuration and bonding arrangements. *Latest Earth Resistance Test (ERT) reports, including measured values and test methodology	To be finalised during detail engineering.
127.	Annexure-III (Technical Specification)	29.16	411 of 465	Spare feeder is available for Auxiliary power supply system at 220kV Switchyard Bay extension. However, Bidder to verify and confirm the same.	Bidder requests the owner to provide detailed information regarding the existing Auxiliary AC and DC power supply systems at the IB THERMAL POWER STATION BANHARPALLI, JHARSUGUDA	To be finalised during detail engineering.

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					ODISHA. Specifically, the bidder seeks: *Source details of the existing Auxiliary AC supply system, including voltage level, transformer capacity, ACDB configuration, and backup arrangements (e.g., DG set) *Source details of the existing Auxiliary DC supply system, including battery bank rating, charger specifications, DCDB layout, and voltage level. *Confirmation on the availability of adequate spare capacity and terminals in both AC and DC systems to support the proposed BESS bay extensions *Clarification on whether any retrofitting, augmentation, or modifications are required to accommodate the additional auxiliary loads associated with the bay integration.	
128.	Annexure-III (Technical Specification)	29.17.8	420 of 465	• 220kV bus shall be constructed with aluminium tubular busbar / as per existing bus-bar in the existing 200kV OPGC Switchyard. Primarily existing conductor used for 220kV bus shall be envisaged. • The equipment interconnections in 220kV yard shall be made with existing conductor as per respective sub-station layout/plan drawing. • Three phase stringing of overhead gantries in 220kV yard shall be done with ACSR conductor. • Stringing of 220kV Side of 80/100MVA transformer is to	Bidder requests Owner to provide the following technical details of the OPGC substations at IB THERMAL POWER STATION BANHARPALLI, JHARSUGUDA ODISHA. *Existing busbar configuration, including scheme type and switching arrangements *Busbar conductor specifications, including type, size, material and	Pl. refer SLD for busbar configuration and further twin moose for bus bar conductors. Other details are to be provided during detail engineering.

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				be done by ACSR conductor. • Stringing of overhead conductor between gantry to gantry, dropout and all jumpers for interconnecting switchyard equipment's shall be ACSR conductor except for transformer bays and all main bus isolators including fixing of insulator strings, spacers, clamps etc. • Screening by earth wire including clamps, connectors etc. • The main buses of 220kV shall be strung with ACSR conductors (jointless) including fixing of insulator strings, post insulators, spacers, clamps etc. • All main bus isolators interconnection shall be with ACSR conductor including spacers and clamps etc.	current-carrying capacity. *Confirmation on whether the existing busbar conductor ampacity is adequate to accommodate the proposed bay extension, and whether any bus modifications or upgrades are required *Existing Erection Key Diagram (EKD) layout and sectional drawings of the substation *Existing equipment jumpering conductor arrangements, including jumpering conductor specifications *Existing DSLP layout arrangement *Confirmation on whether additional lightning/lighting towers are required to be considered for the proposed bay extension.	
129.	General	-	General	General	Kindly confirm that bidder will use and terminate the existing CRP for the new Bay.	Bidder to install separate Protection and Relay Panel in existing Switchyard Control Room.
130.	General	-	General	General	Bidder request Owner to kindly confirm whether the existing substation has PLC or SAS. Also please confirm whether the data from the new bay can be integrated in the existing PLC/SAS.	Bidder to NOTE that there is no SAS in existing 220kV Switchyard sub-station. Bidder to integrate the data from new bay with existing RTU Panel for onward transmission of data to SLDC.

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131.	Annexure-III (Technical Specification)	9.5	66 of 465	The inverter manufacturers shall have a production track record for a minimum of 5 years with having executed a single order of the tropical climatic conditions. Offers shall be supported by Owner testimonial for minimum 50MW. However, if the inverter model is upgraded within one year, in such case the previous model should have been satisfactorily worked for one year prior to Bid submission date. Further the **test reports** of the upgraded model along with previous model working experience shall be submitted with the Bid	Please consider Type test/ Routine test certificate - validity period of last 10 years.	Bidder to follow Specification requirement.
132.	Annexure-III (Technical Specification)	9.6	69 of 465	The design shall be totally dust - tight damp-proof and vermin proof offering degree of protection not less than IP-54 for outdoor applications	We consider IP protection for Outdoor installation - IP-55	Bidder to follow minimum requirement of Specification. The IP Protection class to be finalised during detailed engineering stage.
133.	Annexure-III (Technical Specification)	9.6	69 of 465	Inverters should be equipped with appropriately designed EMC filters at either ends and sine wave filters at the AC end.	Please confirm EMC filters to be provided on Both ends of Inverter.	Bidder's understanding is correct.
134.	Annexure-III (Technical Specification)	9.6	70 of 465	Inverters shall be equipped with appropriately sized forced ventilation system	We consider Inverter Ventilation system is self powered.	Shall be finalised during detailed Engineering.
135.	Annexure-III (Technical Specification)	9.11	76 of 465	Reactive compensation document and compliance.	Kindly confirm the PSS Study Scope.	Bidder to refer Cl.No 2.1 of Technical Specification of RFP document
136.	Annexure-III (Technical Specification)	9.13	77 of 465	The Owner reserves the right to reject the complete batch/lot of inverters, in case the availability of inverters during the first year of operation is less than 95%. In such cases the Bidder shall replace all the inverters with new ones.	Kindly consider the Performance & Losses due to Ash handling environment nearby the plant.	Bidder to follow Specification requirement.
137.	Annexure-III (Technical Specification)	9.6	68 of 465	Irrespective of installation be it outdoor or indoor, inverters shall design to operate at ambient temperature of 50°C without any deration.	We consider Design ambient temperature 51DegC.	Bidder to follow Specification requirement.

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138.	Annexure-III (Technical Specification)	10.4.2.2	81 of 465	All the LV terminal box shall be suitable for bus duct entry without any cost implications,	We consider LV terminal Box suitable for Cable termination to be provided.	Shall be finalized during detailed Engineering.
139.	Annexure-III (Technical Specification)	10.4.2.5	82 of 465	Voltage rise time withstand level(du/dt) of the low voltage winding shall be designed for at least 1500V/micro second against ground	We consider BIL & SIL as per IEC/IS Standards.	Shall be finalized during detailed Engineering.
140.	Annexure-III (Technical Specification)	10.4.2.5	82 of 465	The thickness of the radiator shall be provided 1.2mm minimum and shall be hot dip galvanised as per relevant International Standards.	Kindly consider 1mm thick radiator	Shall be finalized during detailed Engineering.
141.	Annexure-III (Technical Specification)	2.2	39 of 465	Module Cleaning systems (wet cleaning)	Kindly confirm the Module Cleaning systems Fully automatic or Semiautomatic . Module mounting Structure shall be as per cleaning system requirement.	Bidder to refer Annexure-2 for Module Cleaning System.
142.	Annexure-III (Technical Specification)	23.2	187 of 465	PV module earthing shall be performed as per module manufacturer guidelines.	We consider serrated nut & Bolt for panel frame earthing to be provided.	Shall be finalized during detailed Engineering.
143.	Annexure-III (Technical Specification)	20.2	155 of 465	The combiner box accessories shall be assembled within a single enclosure with a transparent hinged door arrangement. The enclosure and door shall be dustproof, non-conductive, impact resistant, UV resistant, and flame retardant and shall be made from fibre-reinforced polymer or polycarbonate suitable for outdoor applications with an IP65 protection rating. Minimum 3mm thickness to be provided for the enclosure.	We provide non transparent door arrangement.	Bidder to follow Specification requirement.
144.	Annexure-III (Technical Specification)	15.3	131 of 465	Exposed cables, wherever used shall preferably have UV resistant jacket besides being water resistant and FRLSH	We provide DWC pipes for DC string cabling.	Bidder to follow Specification requirement.
145.	Annexure-III (Technical Specification)	15.7	132 of 465	Cable ends shall be sealed with a non-hygroscopic cap. Allowable tolerance on individual drum length is +5%.	Kindly consider -2% allowable tolerance on individual drum length as well.	Bidder to follow Specification requirement.

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146.	Annexure-III (Technical Specification)	12.2.14	112 of 465	Painting shall be carried out by 10 tank process. After preparation of the under surface the equipment shall be painted with epoxy-based paint by powder coating. The final thickness of paint film on steel shall not be less than 85 microns.	Please consider -7 tank process. Paint thickness as per corrosion category. As per technical specs Painting shall be considering C4 corrosion category.	Bidder to follow Specification requirement.
147.	Annexure-III (Technical Specification)	13.2	117 of 465	All the circuit breakers shall be rated for a nominal voltage of 36kV and shall be designed with minimum short circuit rating of 25 kA for 3 sec. Breakers should draw out type with vacuum as arc quenching medium.	We consider 33kV VCB 25kA for 1sec.	Bidder to follow Specification requirement.
148.	Annexure-III (Technical Specification)	Table 28-1	238 of 465	33kV Double Circuit line from 33kV switchboard at MCR to 33 kV three panels with breakers and protections at 220kV OPGC Sub Station with suitable gantry arrangement, laying of 33kV cables, 220kV extended bay and interconnecting to the extended busbars at existing 220kV substation of OPGC.	Kindly confirm 33kV line termination details @220kV OPGC S/S is whether indoor or outdoor 33kV S/S , (As in Doc. - NIT-ITB_EPC of 50MW Solar Power Plant_25Aug2025, Page - 9- B-a. 33kV switchyard is mentioned.)	33/220kV Transformer and associated equipment are to be installed outdoor which is to be located at 220kV Switchyard in the existing Power Plant end. As such there is no 33kV Switchyard at the Solar Power Project end. For clarity at 33kV take-off tower in the Solar Power Project refer Annexure-4
149.	Annexure-III (Technical Specification)	28.1	237 of 465	The approximate route length of 33 KV double circuit transmission line is 7 km out of which 5.5 km is overhead line and 1.5 km is through the cable.	Kindly confirm 1.5kM Cable connection locations in Transmission line route.	Bidder is advised to visit SITE.
150.	Annexure-III (Technical Specification)	29.1	301 of 465	Supply and installation of 80 MVA 220kV/33kV power transformer, gantry, extension of a new bay, SF6 circuit breaker, Isolating & protection devices with all associated equipment at existing 220kV substation and interconnecting at the extended busbars. Bidder is to extend the bay as per the design and configuration as that of existing 220 kV substation.	Kindly provide Existing substation layout/SLD/ Protection scheme. Site visit required.	Bidder to Refer Existing 220kV Switchyard Layout Annexure-1.
151.	Annexure-III (Technical Specification)	29.1	301 of 465	The scope covers the following material involved in switchyard construction and commissioning; however, the Bidder shall consider all equipment, items, materials,	Kindly consider control room & cable trench for 220kV extended bay equipment.	Bidder to follow Specification requirement.

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				accessories, hardwires etc. to make the switchyard complete in all respect: • 220kV switchyard equipment, 220kV control relay panel, switchyard equipment structure, control cables, Illumination, lightning protection, Earthing, communication etc. • Storm Water Drainage, Road Works, Boundary Fencing.		
152.	Annexure-III (Technical Specification)	29.4.4.15	317 of 465	The thickness of radiator shall be maintained to minimum 1.2mm.	Bidder requested to consider 1mm thick radiator	Shall be finalized during detailed Engineering.
153.	Annexure-III (Technical Specification)	Table 29-12	369 of 465	Single phase, ring core type, dead tank / Live tank oil immersed self	We consider 220kV CT/PT/CB Type as per CEA substation guidelines.	Shall be finalized during detailed Engineering.
154.	Annexure-III (Technical Specification)	18.4	145 of 465	The cable shall FRLSH type and shall withstand all mechanical and thermal stresses under steady state and transient operating conditions.	We Consider 33kV MV cable FR rated.	Bidder to follow Specification requirement.
155.	Annexure-III (Technical Specification)	12.2.9	111 of 465	Switchgear shall be designed for cable entry from the bottom. Sufficient space shall be provided for ease of termination and connection. Minimum height of cable termination points from gland plate of the panel shall be 1000mm.	We consider Minimum height of cable termination point from gland plate of the panel shall as per vendor type tested design.	Bidder to follow Specification requirement.
156.	Annexure-III (Technical Specification)	Table 4-1	41 of 465	For monocrystalline PERC PV modules, the Bidder shall consider LID loss of maximum 2%. The values shall be supported by Bidder's confirmation based on experience and track record on proposed modules.	We consider LID Loss shall be as per Module data sheet	Bidder to follow Specification requirement.
157.	Annexure-III (Technical Specification)	Table 4-1	41 of 465	Although this loss depends on Bidder's capability to connect PV modules of same current/voltage profiles in series, Bidder's confirmation on uniform current/voltage profiles for delivered batch of modules shall be required. Maximum limit for mismatch loss shall be 0.9% owing to the use of central inverters with Bifacial modules and Fixed tilt systems.	We consider, In case of Central inverter 1% & in case of string inverter 0.5%	Bidder to follow Specification requirement.

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158.	Annexure-III (Technical Specification)	Table 4-1	42 of 465	The Bidder shall consider 0.5% towards plant unavailability.	To be discussed.	Bidder to follow Specification requirement.
159.	Annexure-III (Technical Specification)	Table 4-1	42 of 465	Bidder shall consider the energy consumption arising due to the auxiliary equipment such as electrical equipment, security system, monitoring equipment and lighting in the energy yield calculation. These losses should be calculated by accounting for component level consumption and run time of each component annually	We consider, up to 33kV Main HT panel - 0.5%	To be finalized during detailed Engineering.
160.	Annexure-III (Technical Specification)	Table 4-1	41 of 465	The Bidder is advised to evaluate the dust profile on site and define the O&M strategy for maintaining the annual soiling loss to maximum of 1.60% based on manual cleaning.	We consider, Based on the location of the proposed plant, in case of fully automatic robots-0.6% & in case of semi automatic -0.8% soiling losses.	Bidder to follow Specification requirement.
161.	Annexure-III (Technical Specification)	Table 4-1	41 of 465	Modules are sold with a nominal peak power and a given tolerance within which the actual power is guaranteed to lie. Module quality gain of 0% on account of positive tolerance should be considered by the Bidder.	We Consider Module quality loss shall be 0.2%(as a gain).	Bidder to follow Specification requirement.
162.	Annexure-III (Technical Specification)	21.4.3.4	166 of 465	The total loss on the transformer shall not exceed guaranteed value i.e., 1%. The design shall be such that the annual costs of losses are minimum. Out of 1.5%, 0.5% shall be for no load and 1% shall be for load losses.	We consider for Oil Filled Auxiliary Transformer - Iron loss 0.1% , CU loss 0.9%	To be finalized during detailed Engineering.
163.	Annexure-III (Technical Specification)	5.1	43 of 465	PV modules must be warranted for peak output power at Standard Testing Condition, which shall not be less than 90% at the end of ten (10) years and not less than 80% at the end of twenty-five (25) years. The first-year degradation shall not be more than 2% and in subsequent years shall not be more than 0.55% per annum.	We consider as per OEM recommendation.	Bidder to follow Specification requirement.
164.	Annexure-III (Technical Specification)	9.2	67 of 465	Inverter shall be self-powered – no external supply shall be provided for Fan or control circuit. If it is not in-built, inverter Manufacturer has to make arrangement for the same and the unit shall be under inverter warranty as well.	Self powered ventilation system is provided. Inverter warranty 5 years as per solar industry standards.	Bidder to follow Specification requirement.

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165.	Annexure-III (Technical Specification)	Table 28-1	238 of 465	Commissioning spare parts for five (5) years operation & maintenance.	We provide Tools and tackles & List of mandatory spares as per APPENDIX-B3	In addition to Tools and tackles & List of mandatory spares as mentioned in APPENDIX-B3, Bidder to provide Commissioning spare parts for five (5) years & maintenance.
166.	Annexure-III (Technical Specification)	7	45 of 465	The O&M Contract shall cover the complete PV solar power plant and power evacuation system as specified in the contract. The Bidder shall achieve the annual energy generation guarantee as specified in Appendix A. The O&M Contract shall cover the basic obligations of the Bidder.	Kindly clarify GUARANTEE CONDITIONS in (APPENDIX–A- 1.0 Guaranteed Completion Dates: 2.0 Performance Guarantees), irradiance data not clear.	Bidder's Query is not clear. There is no ambiguity in the data provided in Appendix-A.
167.	Annexure-III (Technical Specification)	9.12	77 of 465	The Manufacturer's proposal shall provide special tools and tackles in cases required, with the equipment and systems; this shall also include system software copied on a CD / DVD or a USB drive.	We provide Tools and tackles & List of mandatory spares as per APPENDIX-B3, After erection completion, tools & tackles will be taken back after work completion.	Bidder to supply Tools and tackles & List of mandatory spares as per APPENDIX-B3
168.	Annexure-III (Technical Specification)	2.1	37 of 465	Commissioning of the PV plant with operational acceptance tests, monthly and quarterly performance evaluations and performance tests as required by the Owner during the defect liability period.	kindly confirm the PR test duration.	Bidder to refer Appendix-D.
169.	Annexure-III (Technical Specification)	15.9	133 of 465	The following factory test parameters that are to be carried out as per the Bidder's MQP duly approved by Owner shall be witnessed by Owner. • High voltage test • Partial discharge test • Bending test • Impulse withstand test • UV resistant test • Resistance measurement	Kindly confirm Impulse withstand & UV resistant test shall be part of type test, Not part of QAP	Noted.
170.	Annexure-III (Technical Specification)	29.4.5.7	333 of 465	Short circuit tests certificates (should not be older than 5 years) for test conducted earlier on transformers of similar type and rating shall be furnished for the Owner's review.	Kindly consider 10yrs old short circuit type test report.	Bidder to follow Specification requirement.

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171.	Annexure-III (Technical Specification)	12.3	113 of 465	Internal arc test of 31.50kA for 1 second.	We consider Internal arc test as per IEC standard	Bidder to follow Specification requirement.
172.	Annexure-III (Technical Specification)	21.4.2	162 of 465	Although the products will be warranted for five years and power performance will be committed for 25 years, the lifetime of transformers is expected to be 30 years from commissioning.	We consider Lifetime of transformer is expected to be 25 years from commissioning.	Bidder to follow Specification requirement.
173.	Annexure-III (Technical Specification)	3.1	39 of 465	• Be provided in ".dxf" format for all CAD drawings	Plz clarify for this mentioned format	Bidder to provide the CAD drgs in .dxf format as specified in Contract.
174.	Annexure-III (Technical Specification)	30.2	436 of 465	Site clearance comprises of clearing, grubbing, removing and disposing of all vegetation (bushes, trees, shrubs etc.), and debris. It shall also include removing the existing temporary and permanent structures, obstructions located within the plant limit, rerouting of existing overhead lines, strengthening of existing natural streams & ponds (if any), wherever required as per law and disposal of unwanted material at locations identified by the Owner	EPC request to exclude the scope of removing existing temporary and permanent structures, obstructions located within the plant limit, rerouting of existing overhead lines, strengthening of existing natural streams & pond	Bidder is advised to visit SITE.
175.	Annexure-III (Technical Specification)	30.2	436 of 465	Grading, levelling & dressing over existing grades as necessary for installation of equipment/structure including excavation, backfilling, dewatering, dressing to required profile, sheet piling or shoring/strutting disposal of excess soil, if the backfilling is unavoidable, then it shall be conducted in multiple layers of 200mm thickness with adequate compaction of each layer	Available source of soil for backfilling purpose within plant boundary or outside the plant boundary. Please suggest if any specific type of soil required for backfilling	To be finalised during detailed Engineering.
176.	Annexure-III (Technical Specification)	30.2	436 of 465	Appropriate safety barricade like fence shall be provided around the ponds to avoid any mishap during construction	EPC is assuming this as temporary barricading	Bidder's understanding is correct.
177.	Annexure-III (Technical Specification)	30.4	436 of 465	Grading, levelling & dressing over existing grades as necessary for installation of equipment/structure including excavation, backfilling, dewatering, dressing to required profile, sheet piling or shoring/strutting disposal of excess soil.	EPC request to clarify the availability of drain for dewatering Purpose	Bidder to design the drainage system.

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178.	Annexure-III (Technical Specification)	30.4	436 of 465	Bidder shall prepare and submit the Site investigation reports like geotechnical, hydrological and topographic investigations survey for approval.. The required undulated land areas shall be levelled by appropriate cutting and filling for aligning the module mounting structures and other infrastructure.	EPC request to provide tolerance in land levelling for MMS alignment.	To be finalised during detailed Engineering.
179.	Annexure-III (Technical Specification)	29.17.20	432 of 465	The Bidder is responsible for the design of the switchyard earthworks, including external access, existing roads improvements (if any), switchyard platform, internal roads and all the civil works to realize the complete functionality of the switchyard.	EPC requests that the improvement of the external road up to the plant main gate be kept under the Owner's scope. If not, kindly provide the approximate distance from NH/SH to the main gate	Bidder is advised to visit SITE. All the work mentioned in Specification shall be with Bidder's scope.
180.	Annexure-III (Technical Specification)	29.17.20	432 of 465	The periphery and all internal roads shall be 4 meter wide with 0.5 meter shoulders on either side. The roads shall be WBM with a top layer of three inches of murrom and the thickness shall be as per CBR of the soil and ESAL calculation or minimum 250mm whichever is greater.	Generally, the peripheral road may be considered as an earthen/murrom road. Please allow.	Bidder to follow Specification requirement.
181.	Annexure-III (Technical Specification)	30.1	435 of 465	The scope of work shall include complete design & supply of all civil, structural & architectural works shall be performed conforming to the specification, codes & standards along with the criteria & specifications as stated herein that includes planning, transportation, equipment, labour, loading and unloading, site storage, site clearing, and all civil activities of the complete work. The scope shall include mobilization of all required equipment, onsite manpower and technical supervision required for completing all the civil and structural works activities.	Kindly confirm whether labour accommodation, toilets, drinking water, and other welfare facilities are to be arranged inside the project premises or at an external location. Please specify minimum standards, capacity, and duration of maintenance required, and clarify if furniture, sanitation, and electrification are in bidder's scope.	Labour accommodation and other facilities are in Bidder's Scope.
182.	Annexure-III (Technical Specification)	14.1	124 of 465	The mounting structures should be checked for stability with minimum deflection and sagging. Maximum permissible limit for sagging shall be in compliance to Length/180 for the beams spanning between two or continuous supports, Length/150 for purlin overhang and Height/150 for the columns and / or module	Please accept the maximum vertical deflection of Purlin for cantilever = Span/120	Bidder to follow Specification requirement.

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				manufacturer's installation guideline, suitable bracings shall be provided for strengthening of all structural members.		
183.	Annexure-III (Technical Specification)	14.1	124 of 465	Irrespective of design requirements, minimum thickness of cold form sheet excluding anti corrosive treatment shall be 2.0 mm for columns and bracings, 1.6mm for rafters and 1.2mm for purlins (1.0mm in case Hat sections are used for purlins).	EPC request to consider minimum thickness as 1.2mm for Rafter, Bracing and 0.9mm for hat section purlin (within the serviceability criteria.)	Bidder to follow Specification requirement.
184.	Annexure-III (Technical Specification)	2.1	36 of 465	Preparation and land levelling, providing construction infrastructure like site office, internal roads, stores, storm water drains, **rainwater harvesting** etc., assembly and construction of the entire PV plant, all pre-construction tests, site management and supervision, labour provision, testing and commissioning of all the equipment's in steps up to point of grid interconnection.	Kindly provide the required **size, capacity, and number of rainwater harvesting pits** for the PV plant.	Bidder to ignore the requirement.
185.	General	-	-	-	220kV S/S Bay Space required for Auxiliary supply system including UPS system, battery banks and battery charger in Main Control Room and inverter stations.	Bidder to NOTE that the Auxiliary supply system including UPS system, battery banks and battery charger in Main Control Room and inverter stations are part of Scope of Supply. Bidder to refer Cl.No 2.2.
186.	General	-	-	-	220kV S/S Bay PT requirement for RTCC/OLTC input on 220kV side - Please check.	Bidder to follow Specification requirement.
187.	General	-	-	-	Out of 7kM Transmission line , 1.5kM is cable Hence need the cable route UTM coordinates.	Bidder to carry out route survey and get the UTM co-ordinates.
188.	General	-	-	-	33kV Double Circuit Transmission Line, Kindly confirm Number of Crossings after Route finalisation.	Bidder to carry out route survey and get the UTM co-ordinates.

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189.	General	-	-	-	Operation & maintenance scope shall be clarified	Bidder to refer Cl.No 7 for O&M Scope of Work
190.	General	-	-	-	Approval & Liasoning scope of work shall be clarified	Bidder to refer Cl.No 2.1 for detailed scope of work.
191.	General	-	-	-	IP protection for indoor & outdoor equipments shall be confirmed.	Bidder to follow Specification requirement.
192.	General	-	-	-	CRCA sheet load bearing member & other CRCA sheets shall be clarified	To be finalised during detailed Engineering.
193.	Appendix-I to Annexure-I (Techno-Commercial Proposal & Price Proposal Formats)	**SPV module**	**-**	MNRE's Approved List of Models and Manufacturers (ALMM). The PV module model must have been in successful operation in 01 MW or above grid-connected solar project in a single location for a minimum duration of **1 year** or Successfully completed Operational Acceptance Test (OAT) prior to Proposal Submission Date.	As the new vendors in ALMM List are added every month after due testing and certification. Hence, the requirement of 1 year of succesfully operation may not fullfilled by the recently added manufacturers in ALMM List. We therefore, request you to amend the said clause as below: *MNRE's Approved List of Models and Manufacturers (ALMM). The PV module model must have been in successful operation in 01 MW or above grid-connected solar project in a single location for a minimum duration of* ~~***1 year***~~ ***6 Months*** *or Successfully completed Operational Acceptance Test (OAT) prior to Proposal Submission Date.*	Bidder to comply the RFP condition. Existing Provision shall prevail.
194.	**General**	**-**	**-**	SPV Module	1. Please Confirm whether the SPV Module shall be **DCR** or **Non-DCR.** 2. MNRE OM: F. No. 283/51/2025-GRID SOLAR dt.31.07.2025 - Reg.	Either of the ALMM list shall be applicable.

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					ALMM List -2 (Solar PV Cells); shall be applicable or not for this RfP.	
195.	Annexure-III (Technical Specification)	**1.1**	-	The 50MWAC Solar PV plant shall comprise of 4 blocks of capacity 13.2MWAC each.	Please confirm whether the bidder should follow the 13.2 MWAC block size, or if they may propose block size of 17.6 MWAC (4.4 MWAC × 4).	Bidder to follow Specification requirement.
196.	Annexure-III (Technical Specification)	**Table 1-1**	-	Maximum Pnom Ratio (DC to AC) 1:22	As per the tender document, it is mentioned that the DC/AC ratio is 1.22. We kindly request OPGCL to confirm whether this specified ratio is a minimum or maximum requirement.	Pnom mentioned in Specification is Maximum.
197.	Annexure-III (Technical Specification)	**Table 1-1**	-	Tilt Angle (°) 15 degree	Kindly confirm whether the bidder should follow a 22° tilt angle for the MMS.	To be finalised during detailed Engineering.
198.	Annexure-III (Technical Specification)	**Table 1-1**	-	Minimum Nominal AC Output (kW) at 50°C ≥3300KW	bidder may propose the inverter rating based on availability or cost optimization.	To be finalised during detailed Engineering.
199.	Annexure-III (Technical Specification)	**1.6**	-	Corrosion Level: The Project site is located within severe corrosion zone2.	Please confirm the corrosion level	Bidder to refer Cl.No 9.6
200.	Annexure-III (Technical Specification)	**2.1**	-	The point of interconnection will be at 220kV bay in 220 kV OPGC Substation which is approximately 7 kms from solar PV. The relevant power system studies that include load flow, short circuit, reactive power, relay coordination etc. shall be conducted by the Bidder.	kindly request you to provide the 220 kV OPGC substation SLD. Also, please confirm the reactive power requirement. Can the bidder consider reactive power compensation through inverters?	Bidder to refer 220kV Switchyard SLD provided in Bid drawings.
201.	Annexure-III (Technical Specification)	**4**	-	The annual energy yield of a PV plant is dependent on the solar resource of the site. Bidder is required to follow the weather data (SolarGIS monthly average) provided in Attachment-1 of Appendix A.	Bidder requested to provide the project SolarGIS CSV file for PVsyst simulation	Bidder to arrange the same.

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202.	Annexure-III (Technical Specification)	Table 4-1	-	Near shading loss due to inter-row shading shall be limited to 1.10%.	Kindly confirm the shadow time	PV Plant optimisation is under Bidder's scope.
203.	Annexure-III (Technical Specification)	Table 4-1	-	The Bidder is advised to evaluate the dust profile on site and define the O&M strategy for maintaining the annual soiling loss to maximum of 1.60% based on manual cleaning.	Bidder may propose soiling loss of up to 2% (based on a manual cleaning cycle of 15 days).	Bidder to follow Specification requirement.
204.	Annexure-III (Technical Specification)	Table 4-1	-	The Bidder shall consider 0.5% towards plant unavailability.	It may vary during the DDE or depending on the last two years of data from the 220 kV OPGC substation.	Solar Plant availability shall be 99.5% as per RFP document. 220 kV OPGC substation non-availability does not include in the above 99.5%.
205.	Annexure-III (Technical Specification)	Table 4-1	-	The minimum theoretical performance ratio that shall be adhered by the Bidders shall be 82.86%	Kindly confirm whether the bidder should follow the specified PR requirement, or if the bidder can consider the PR based on a DC capacity of 61 MWp.	The refer table 4.1 is benchmark for loss assumption. Bidder to follow appendix-A for Performance Guarantees.
206.	Annexure-III (Technical Specification)	Table 4-1	-	The minimum first CUFAC predicted by the Bidder shall be at 22.99%	Kindly confirm whether the bidder should follow the specified CUF requirement, or if the bidder can consider the CUF based on a DC capacity of 61 MWp.	
207.	Annexure-III (Technical Specification)	Table 4-1	-	The P50 generation should be minimum 1,00,687.57MWh	Kindly confirm whether the bidder should follow the specified generation requirement, or if the bidder can consider the Generation based on a DC capacity of 61 MWp.	
208.	Annexure-III (Technical Specification)	**7**	-	The Bidder shall be responsible for supply of all spare parts as required from time to time for scheduled and preventive maintenance,	Kindly provide the mandatory spare list	Bidder to refer Appendix-B3
209.	Annexure-III (Technical Specification)	**10**	-	Winding conductor should be electrolytic grade Copper, free from scales and burrs.	Bidder can propose the aluminium winding	Bidder to follow Specification requirement.

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210.	Annexure-III (Technical Specification)	**14**	-	The Bidder should design the structure height considering highest flood level at the site and the finished grade level. The minimum ground clearance shall be the higher of (i) Highest flood level + 100mm and (ii) 500mm, as applicable or as recommended in the Hydrology Study report.	Kindly provide the HFL data for the 25th and 50th year.	Bidder to carry out Hydrology Study. Refer Cl.No-31 of Technical Specification.
211.	Annexure-III (Technical Specification)	**Table 22-2**	-	1Cx95mm² Copper cable or equivalent GI strip connected to minimum 50x6mm GI strip for ESE LA of PV Solar Plant.	As per NFC-17-102, the cross-sectional area of the cable should be 70 sq.mm. Kindly clarify the requirement.	Bidder to follow Specification requirement.
212.	Annexure-III (Technical Specification)	**29**	-	At 220kV OPGC substation there is vacant space available for the bay extension. However, it's important to note that the transformer placement will be at a lower level than the existing switchyard, so levelling up to the existing FGL shall be done.	Bidder understand that generation guarantee will be upto the 220kV OPGC substation. Kindly confirm the same	Refer Cl.No 2.1 of Technical Specification and Appendix-D of RFP document which stared that "Metering Point is at the energy meter located at medium voltage 33kV cable take-off structure of the Solar PV Project".
213.	Appendix-2 to Annexure-III (Technical Specification)	**-**	-	**33kV MV Panel Drawing**	kindly confirm bidder should follow the same design in the given MV Panel drawing or Can bidder consider reactive power compensation through Inverters.	To be finalised during detailed Engineering.
214.	Appendix-2 to Annexure-III (Technical Specification)	**-**	-	**33kV MV Panel Drawing**	Generation of System study report at this stage is very difficult so it is requested to OPGCL to either provide SVG rating or System study report	Power System Study and Reactive power compensation are under Bidder scope complying CEA guidelines and Grid Code.
215.	Instruction to bidders	-	-	**Appendix 1 - Land Boundary**	Kindly provide the cable/ transmission line (TL) route from the PV plant area to the existing 220kV OPGC substation (7 km), As per the KMZ file, there is railway lines and the Hirakud Reservoir.	Bidder to carry out the Route Survey.

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216.	Instruction to Bidders (ITB)	5.5	15	MSMEs are eligible to get the benefit of exemption from payment of Bid Security & Bid Processing Fee, provided the participating Bidders are registered as MSME under the classification of "Electric power generation using solar energy". In order to avail the exemption in Bid Security & Bid Processing Fee in case of consortium, all the consortium members should be registered as MSME Vendors under NSIC/ Udyog Aadhaar Category/DIC.	Kindly confirm whether bidders possessing an Udyam Registration Certificate are eligible for exemption from the payment of Bid Security and Bid Processing Fee.	**Noted.**
217.	Annexure-III (Technical Specification)	2.1	36	The point of interconnection will be at 220kV bay in 220 kV OPGC Substation which is approximately 7 kms from solar PV. The relevant power system studies that include load flow, short circuit, reactive power, relay coordination etc. shall be conducted by the Bidder.	Please Confirm if Line length increase bidder get compensation or not.	Scope change shall be treated as per the contract provision
218.	Annexure-III (Technical Specification)	2.1	37	Comprehensive warranty of the entire PV plant against all defects through a defects liability period (DLP) of five (5) years for non-civil works as well as civil works, transfer all component warranties to the Owner post completing the DLP period. The defect liability period shall start from the day of acceptance of Operational Acceptance Test (OAT)	As per OEM Recommendation	Bidder to Follow specification requirement.
219.	Annexure-III (Technical Specification)	4.1	41	Inverter transformer loss shall not be more than 1%	Kindly confirm the loss Considered for IDT is for AL winding or with CU winding?	As per the specification cl. No. 10.4.2.3 Winding conductor should be electrolytic grade Copper, free from scales and burrs.
220.	Annexure-III (Technical Specification)	1.1	30	Further Bidders to consider fixed tilt MMS and TOPCon/ Monocrystalline Passivated Emitter Rear Cell (PERC) Bifacial PV modules with PNOM ratio (DC/AC) of 1.22 as the primary design	Please Confirm Bidder Can Optimize The Tilt Pitch Along With Ratio.	Bidder shall optimize the design parameters to achieve the required performance Guarantee as specified in Annexure-A.
221.	Annexure-III (Technical Specification)	1.6	34	Bidders shall visit the site and should acquaint themselves with the conditions prevailing at the site.	Please share the complete site address & detail of contact per during site visit.	Site details is available in the ITB document itself.

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222.	Annexure-III (Technical Specification)	1.4	32	The Total installed DC power capacity in the solar PV plant shall be designed by choosing DC:AC PNOM ratio. This PNOM will be maintained at inverter level up to possible extent. Since all the inverters are equally overloaded with DC power, this helps to maintain PV plant overall load flow in balance condition.	Bidder Understand Over all DC:AC Ratio Should be Maintained in Each MPPT Minor Variation is Allowed.	Allowed. However, bidder shall ensure the mismatch losses shall be minimized.
223.	Annexure-III (Technical Specification)	1.2	31	Approximately 130acres of land is available for developing a 50MWAC Solar PV Plant. Bidders are advised to optimize plant design for available land area	Bidder Will only Develop Land Required For Solar area only.	Bidder's understanding is correct
224.	Annexure-III (Technical Specification)	2.1	36	Comprehensive warranty of the entire PV plant against all defects through a defects liability period (DLP) of five (5) years for non-civil works as well as civil works, transfer all component warranties to the Owner post completing the DLP period. The defect liability period shall start from the day of acceptance of Operational Acceptance Test (OAT).	DLP is as given as per OEM recommendation.	Bidder to Follow specification requirement.
225.	Annexure-III (Technical Specification)	2.1	36	Construction of 33kV double circuit transmission line including route survey.	ROW taken care by OPGC OR Bidder.	ROW permission is in OPGC scope. As per clause no 28.2.2.2 site clearance for laying of transmission line is in bidder's Scope.
226.	Annexure-III (Technical Specification)	4.1	40	First year degradation with LID : For monocrystalline PERC PV modules, the Bidder shall consider LID loss of maximum 2%.	LID loss is as per module manufacturer provided according to module test report.	Noted
227.	Annexure-III (Technical Specification)	2.1	35	The point of interconnection will be at 220kV bay in 220 kV OPGC Substation which is approximately 7 kms from solar PV. The relevant power system studies that include load flow, short circuit, reactive power, relay coordination etc. shall be conducted by the Bidder.	Please Confirm Power System Related study like psCad is in Bidder[s Scope.	Bidder's understanding is correct
228.	Annexure-III (Technical Specification)	2.2	36	Preparation and land levelling, providing construction infrastructure like site office, internal roads, stores, storm water drains, rainwater harvesting etc., assembly and construction of the	Land Levelling Upto 150 MM To be considered please confirm.	Bidder to carry out the land leveling to achieve the required performance guarantees and ease of O&M.

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229.	Annexure-III (Technical Specification)	4.1	40	Electrical resistance in the cable between the modules and the input terminals of the inverter give rise to ohmic losses (I^2R). The maximum benchmark for this assumption shall be 1.5% at STC.	Bidder Understand Average 1.5 % DC Loss For Entire plant.	As per the specification the maximum benchmark for DC cable loss shall be 1.5% at STC.
230.	Annexure-III (Technical Specification)	9.8.2	73	Extended Warranty : It is essential that the product should give a consistent performance for 25 years life cycle of the project. The Bidder/OEM shall provide adequate training & Certification of Owner's O&M Persons to enable immediate maintenance actions in consultation with the OEM.	Extended Warranty for major items (i.e. Inverter Duty transformer, Cables, HT Panel & SCADA System) as per OEM recommendation.	1.Noted. 2.As a minimum the DLP for the entire project as per Cl. No 2.1 is 5 years. However for the equipment referred other than Bidder's query the extended warranty shall be as per Technical Specification referred elsewhere in the document.
231.	Annexure-III (Technical Specification)	9	68	The inverter shall be compatible for bust duct or cable.	For The Bidding We have Considered Cable Only no bus duct Arrangement Considered.	Bidder's understanding is correct.
232.	Annexure-III (Technical Specification)	9	68	Inverters shall be equipped with a key switch for start and stop operations. For viewing various data related to inverter, provision of HMI display shall be made within the inverter. Inverter shall also display all major error codes in case of any abnormality during the operation. Display should be simple and self-explanatory. Display language shall be English.	This is subject to OEM Design.	To be discussed during detail engineering.
233.	Annexure-III (Technical Specification)	10	79	Transformer shall be capable of overloading for 110% continuously and 120% for two hours daily for all tap positions.	Bidder understand Name plate rating Will be 13.2. not (13.2 X 1.1 = 14.52)	The bidder's understanding is not correct. Nameplate rating is the maximum continuous rating of the transformer as per Specification requirement.
234.	Annexure-III (Technical Specification)	16.2	134	Cable sizes shall be selected considering the power loss, current carrying capacity, voltage drop, maximum short circuit duty and the period of a short circuit to meet the anticipated currents. Only single core cables with aluminium flat strip armour shall be used for the project.	DC main cable calculation, the bidder consider temperature @70°C.	Bidder to follow specification requirement.

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235.	Annexure-III (Technical Specification)	26	207	The local SCADA/monitoring system shall have an interface based on an open protocol (OPC-UA) and be able to connect with the Owner's server for centralized SCADA/monitoring.	Please Confirm number of licence to be considered.	Please refer cl. No 26.2.1
236.	Annexure-III (Technical Specification)	20.2	154	STRING COMBINER BOX	Please confirm for string combiner box it is monitoring OR without monitoring.	Please refer cl. No 26.2
237.	Annexure-III (Technical Specification)	21.4	162	21.4 Oil type Transformer.	in clause number 21.4 it is mentioned oil type transformer in Clause number 21.5 it is mentioned oil type please confirm we have to considered oil type aux trafo or dry type.	Bidder to Follow specification requirement.
238.	Annexure-III (Technical Specification)	-	212	Weather Monitoring System	In table 26.2 Equipments for Weather Monitoring Station there is a table mentioned please confirm we have to considered that numbers only or Sets will be considered as per IEC Standard.	Bidder to Follow specification requirement.
239.	Annexure-III (Technical Specification)	16.2	135	Power from Central Inverters to Inverter duty transformer transfer through single core 1.9/ 3.3kV Aluminium cables. These cables shall be aluminium wire armoured with cross-linked polyethylene insulated and temperature resistant.	For LT cable the Withstand time is 0.2 Second and HT cable be 0.5 Second, Please confirm the value of Fault current for cables.	To be discussed during detail engineering.
240.	Annexure-III (Technical Specification)	9.6	68	At a power factor between 0.8 capacitive and 0.8 inductive with a step accuracy of ± 0.01. The inverter shall be capable to produce capacitive or inductive reactive power of maximum 60% of the inverter apparent power	As per SLD SVG feeder is considered so please clarification required	For Inverter rating pl. refer technical specification. However for grid requirement SVG feeder is to be considered. Please Refer SLD.
241.	Annexure-III (Technical Specification)	28.2.2.2	241	Trimming of tree branches or cutting of a few trees en-route during survey is within the scope of survey to be done by the Bidder. Bidder shall arrange for necessary way-leave and compensation in this regard. During erection of the line, compensation for tree cutting, damage caused to	Approval of forest department for tree cutting who will taken care Bidder OR OPGC.	Tree cutting approval is required only for those trees whose girth is more than 30cm which shall be arranged by Owner.

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				crops, actual cutting and falling of the trees including way-leave permission for such route clearance shall be arranged by the Bidder at his cost. The Bidder will identify the number of trees and detail of obstructions to be removed for erection of the line and intimate the Owner well in advance in case of any help.		
242.	Annexure-III (Technical Specification)	28.5.2.1	243	Statutory Clearance: Permission of the competent authorities shall be obtained before taking up any work.	Statutory Clearance: Please share the lists of statutory clearance & scope matrix.	Connectivity with GRID has already been obtained by OPGC. However all permits and approvals from Statutory authority are under Bidder scope.
243.	Annexure-III (Technical Specification)	30.12.4	449	Cable racks shall be as per approved electrical layout. Bored cast-in-situ pile foundation shall be provided for cable tray support. The diameter, depth, grade of concrete, and other details shall be approved structural drawings and relevant Indian standards.	Rcc cable racks will be used in MCR and for other projects we will use the conventional cable racks kindly confirm	Bidder's query is not clear.
244.	Annexure-III (Technical Specification)	30.13	449	The size and minimum requirements shall be as per the detail GA/Architectural drawings submitted by the Owner.	pls specify the size and height of watch tower and specify about the number of watch towers	Two nos. of watch-towers shall be provided (height 7 meter with concrete staircase with a room of 2meter x 2meter). Watch-towers shall be installed at locations identified as blind spots in the plant layout.
245.	Annexure-III (Technical Specification)	30.14	450	The Store room is a composite structure comprising a reinforced concrete foundation and platform up to plinth level, and a PEB steel frame superstructure covered with light weight concrete block wall for the storage of Mandatory spares.	pls specify the size of store room	Min size of Store room shall be 15M x 10M with clear height of 6M.
246.	Annexure-III (Technical Specification)	2.2	36	General	Please clarify type of module cleaning. whether it will be full automatic or semi automatic robots.	Bidder to consider Wet Cleaning System. For detailed specification refer Annexure-2.

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247.	Annexure-III (Technical Specification)	32.8	461	General	pls specify the size of switch yard	The extension bay shall be adjacent to existing switchyard. Bidder is requested to visit site to ascertain the same. The land is in possession of OPGC.
248.	Annexure-III (Technical Specification)	29.17.19	430	Drain channels may be designed as trapezoidal PCC lining of 75 mm thick.	are we use urban drains instead of trapezoidal	Bidder to Follow specification requirement.
249.	Annexure-III (Technical Specification)	29.17.20	431	Road from the entrance gate to inside the Sub-Station shall be provided by the Bidder; this road shall be 3.5m wide bituminous road as per relevant standards, with 1m shoulders on either sides or this road shall be 4m wide concrete road as per relevant standards, with 0.5m shoulders on either sides.	can we use moorum road for the periphery road instead of WBM	Bidder to Follow specification requirement.
250.	Annexure-III (Technical Specification)	30.13	449	The size and minimum requirements shall be as per the detail GA/Architectural drawings submitted by the Owner.	pls specify the number of security cabins and size of security cabins	One Security cabin shall be provided at the main entrance. The minimum size of the security cabin shall be 3 meter X 3 meter. Accordingly detail GA/Architectural drawings shall be submitted by the Bidder during detailed Engineering.
251.	GEO-TECHNICAL INVESTIGATION OF THE CAPPED ASH POND-B FOR SETTING UP A SOLAR POWER PLANT 80MW.	CONCLUSION & RECOMMENDATION FOR FOUNDATION	15	Based on considering all the engineering properties of the sub soil strata, various field & Laboratory testing report within the depth inside the bore hole. It may suitable for Isolated Column Footing/Raft Footing within the Shallow Foundation or Short Pile foundation (up to 4.00mtr) may be made at suitable depth for the design of the foundation of the proposed structure	can you please confirm the depth of pilling	The depth of the piles shall be as per the design required for the short piling foundation and to be designed by Bidder.

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252.	GEO-TECHNICAL INVESTIGATION OF THE CAPPED ASH POND-B FOR SETTING UP A SOLAR POWER PLANT 80MW.	Site Clearance	435	General	for the calculation can we consider leveling 300mm from NGL please confirm	Bidder to carry out the land leveling to achieve the required performance guarantees and ease of O&M.
253.	Annexure-III (Technical Specification)	MMS	123	Irrespective of design requirements, minimum thickness of cold form sheet excluding anti corrosive treatment shall be 2.0 mm for columns and bracings, 1.6mm for rafters and 1.2mm for purlins (1.0mm in case Hat sections are used for purlins). • All fasteners for module mounting shall be of stainless steel SS304 or as per module manufacturer guidelines. The bolt shall be high Strength stainless steel fasteners of min. 8 mm dia with 1 SS rectangular plate washer at bottom + 1 SS spring washer + 1 plain washer	can we please design MMS according to optimization which will follow the IS standards & stand for next 25 years.	Bidder to Follow specification requirement.
254.	General	-	-	-	The area required for setting up solar plant of minimum capacity of 61 MW will be around 160 acres. However, its given as 135 acres of land. Kindly clarify the same.	For Solar Plant Layout, Bidder to refer the Drg No 23-6294.001.E102 (Conceptual Plant Layout) wherein the Project Area (Fenced Area) is indicated as 130 Acres. The provided KMZ file indicates the entire area that includes the shown Solar Plant Layout in the referred drawing, which is at an elevation of 208 RL. At this Elevation space for outside periphery road and drain have already been considered apart from 130 acres as shown. Rest

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						of the area shown in the KMZ file is at an Elevation of 205 RL where the laydown and maintenance area can be planned. In view of this and to clear understand the Layout, Bidder is advised to visit the Site.
255.	General	-	-	-	Request you to share soil investigation reports of proposed solar plant site for requisite MMS analysis and study.	Bidder to refer the preliminary Soil Investigation Report provided in the RFP. However Bidder to carry out detailed Soil Investigation as mentioned in the Specification.
256.	General	-	-	-	The power transmission line mentioned in the tender document is 33 KV double circuit. However to have higher reliability, cover current carrying capacity of conductor and reduced electricity losses, we propose 132 KV transmission line. Kindly clarify.	Bidder to follow Technical Specification.
257.	General	-	-	-	Whether DCR or Non DCR solar panels are to be used? Kindly clarify.	Either of the ALMM list shall be applicable.
258.	General	-	-	-	Kindly share payment schedule for the project.	Bidder to refer the Appendix-B2 of the Contract
259.	Instruction to Bidders	4.1.(a)	9	Technical Qualification Requirement (TQR)	For the three/ two/ one project options (INR 43 Cr/ 53 Cr/ 86 Cr), is the cost based on EPC value i.r.t the LOA copy of the particular	Inclusive of all applicable taxes
260.				a. The Bidder should have successfully completed similar works during last 7 (seven) years prior to the Proposal Submission Date as follows:		

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261.				i. Three (3) similar completed works each costing not less than the amount equal to INR 43.0 Crores; OR	execution including GST or Excluding GST please clarify	
262.				ii. Two (2) similar completed works each costing not less than the amount equal to INR 53.0 Crores; OR		
263.				iii. One (1) similar completed work costing not less than the amount equal to INR 86.0 Crores.		
264.	General	-	-	From Site Survey observation.	1.Given the site's proximity to the ash pond, how are seasonal fly ash soiling losses (20–30% in summer, 10–15% in monsoon) factored into the 96.50 MkWh Year 1 guarantee and PRG ≥0.79? 2.Can OPGC share site-specific ash data 3. clarify O&M cleaning protocols to mitigate PR impact and LD risk?	1. Bidder to follow Specification requirement. 2. Requirement of ash data is not clear. 3. Bidder to follow Specification requirement.
265.	General	1	8	In addition to the above, OPGC is planning to install a 50 MWAC grid connected solar photovoltaic (PV) project and proposes to utilize the land parcel available on filled up Ash Pond-B which is around 130 usable acres for this project in Banharpalli village near to IBTPS.	Out of the 205 acres available, only 130 acres are marked as usable for the 50 MW AC / 61 MWp solar plant. Please re-verify if this area is sufficient to meet the 96.50 MkWh Year 1 guarantee, and clarify if there is a possibility to allocate additional land if required for layout or performance optimization.	Bidder to follow Specification requirement.
266.	General	-	-	Clearly not specified in documents and in pre-bid meeting about the PV Modules Category.	Please clarify the requirements regarding PV module supply: Are DCR (Domestic Content Requirement) or non-DCR modules permitted, and is ALMM (Approved List of Models and Manufacturers) compliance mandatory under ALMM-I or ALMM-II guidelines?	Either of the ALMM list shall be applicable.

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267.	Appendix – A to Annexure-II	-	2	1st year IAT Generation Guarantee, Million kWh - 96.5	As per technical specification sheet, page no, 42, The P50 generation should be minimum 1,00,687.57MWh. Kindly clarify the guaranteed generation number.	For Guarantee Parameters Bidder to refer Appendix-A of RFP document.
268.	Appendix – A to Annexure-II	-	2	1st year IAT Generation Guarantee, Million kWh - 96.5	Kindly clarify the delivery point at which guaranteed generation number is required.	Refer Cl.No 2.1 of Technical Specification and Appendix-D of RFP document which stated that "Metering Point is at the energy meter located at medium voltage 33kV cable take-off structure of the Solar PV Project".
269.	Annexure-III (Technical Specification)	Technical specification sheet - RESOURCE ASSESSMENT AND ENERGY YIELDS	42	AC losses shall occur in four areas, LV AC cabling, LV/MV transformers, MV AC cabling, up to interconnection point. The Bidder is expected to provide detailed losses segregating said areas with appropriate justifications. The maximum benchmark for AC loss shall be 0.80%.	As per the calculation. AC loss till 220kv Bay is coming around 3.52 % , including 33kv TL loss (7km) and excluding IDT and PT loss. For the Pvsyst, we will consider 3.52 % as AC loss.	Refer Cl.No 2.1 of Technical Specification and Appendix-D of RFP document which stared that "Metering Point is at the energy meter located at medium voltage 33kV cable take-off structure of the Solar PV Project". Accordingly, for Pvsyst AC loss shall be as per Specification.(Table-4.1)
270.	Annexure-I (Bidding formats)	-	50	SCADA and PPC make	To avoid unavailability of the product, kindly approve the use of the same make for PPC and SCADA.	Noted.
271.	Annexure-III (Technical Specification)	Table 1-1	32	Installed Capacity (MVA) - 52.8	Kindly confirm, whether this capacity includes reactive power or only active power. Also kindly specify the point of connection up to which we have to maintain the 50MW, whether at 33kV PSS or 220kV GIS.	1. Active Power:50MW 2. MVA Capacity includes active power and reactive power. Equipment shall be design to meet the Grid requirement. 2. For Metering- Refer Cl.No 2.1

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						of Technical Specification and Appendix-D of RFP document .
272.	General	-	-	Scope of Grid study	Kindly confirm the scope of grid study.	Refer Cl.No 2.1 of Technical Specification of RFP document
273.	General	-	-	Reactive power	Kindly clarify whether we should add an extra inverter, consider an SVG, or use a combination of both to compensate for the reactive power.	Bidder to follow Specification requirement and refer SLD provided in Bid Drawings.
274.	General	-	-	Reactive power	Kindly clarify the point of connection up to which reactive power compensation needs to be considered—whether at the 33 kV PSS or the 220 kV GIS.	Bidder to refer Cl.No 9.2 of Tech Spec and refer SLD provided in Bid Drawings.
275.	General	-	-	Harmonic Filter	Kindly share the scope of harmonic filter, also kindly allow a feeder in HT panel for harmonic feeder.	Bidder to refer Cl.No 9.2 of Tech Spec.
276.	General	-	-	GSS Location	Kindly share the GSS location and 220kv TL length marked in the KMZ.	1. Substation Layout enclosed herewith for reference. (Annexure-1) 2. For other locations if any Bidder to arrange the same after site visit.
277.	Annexure-III (Technical Specification)	-	-	Shadow of LA	Bidder will consider the MMS table under the ESE LA shadow.	To be finalised during detailed engineering.
278.	Annexure-III (Technical Specification)	-	210	A minimum of 5 licenses shall be made available for web remote monitoring.	Kindly consider minimum 2 licenses	Bidder to follow Specification requirement.
279.	General	-	-	AWS Quantity	Kindly confirm, whether we need to consider the additional 1 set of AWS (Automatic weather station) as per	Bidder to follow relevant updated standard and Code requirements.

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					CEA guideline Notification No-CEA/PLG/RPNT/15/11/2024/21-25	
280.	General	-	-	Metallic Insulation - Copper tape	The metallic screen of each core shall consist of copper tape with minimum overlap of 20%. Kindly confirm	Bidder to follow Specification requirement.
281.	General	-	-	Resistance temperature - For AC & DC cable sizing	Bidder proposes, resistance at 70 degree for AC cable and 90 degree for DC cable sizing.	Bidder to follow Specification requirement.
282.	General	-	-	Bifacial Gain	We are considering a 5% bi-faciality gain only for DC cable sizing, not for loss calculation. Please confirm.	Bidder to follow Specification requirement.
283.	General	-	-	Brick Work - Cable laying	Brick work shall be done for the AC part only not for the DC part of the plant installation.	Bidder to follow Specification requirement.
284.	General	-	-	Cable laying	Bidder proposes, 75mm sand bedding for DC and HT cable laying.	Bidder to follow Specification requirement.
285.	Annexure-III (Technical Specification)	-	81	Winding conductor should be electrolytic grade Copper, free from scales and burrs. The coils shall be manufactured from electrolytic copper conductor and fully insulated for rated voltage.	Bidder proposes aluminum winding for IDT	Bidder to follow Specification requirement.
286.	Annexure-III (Technical Specification)	-	38	Module Cleaning systems (wet cleaning)	Kindly share the specification of wet type module cleaning system.	Bidder to follow Cl.No: 8.3.9 of Technical Specification requirement.
287.	General	-	-	Module Cleaning systems	Kindly allow dry cleaning, as achieving a 1.6% soiling loss is not feasible with wet cleaning due to the site's proximity to the ash pond. The bidder proposes dry cleaning using a combination of semi-automatic and fully automatic	Bidder to refer Annexure-2 for Module Cleaning System

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					robotic systems to meet the 1.6% soiling loss requirement.	
288.	General	-	-	Space for 220kV switchyard equipment	Kindly confirm whether space will be provided for the 220 kV switchyard equipment, or we need to plan for a single control room to accommodate the equipment.	Bidder need to install the Protection and Control Panel inside existing 220kV Switchyard Control Room.
289.	General	MODULE MOUNTING STRUCTURE (MMS)	-	Application of Wind Load on purlins: - For estimation of design wind loads on purlins (Note 1, Table 14-1 of IS 875-Part 3), WL(downward) and WL(upward) on modules (laid in the profile of mono slope canopy) shall be applied such that the Centre of pressure should be at (0.3 × length of canopy) from windward end (for simplicity, the wind load distribution may be taken as rectangles of different intensities with max. value at windward end).	Bidder requests exterior tables , 2 tables on north south and 1 table on east-west as exterior tables designed with 0.3W load intensity. Balance interior tables with 0.5w load intensity. Also refer Appendix 1 Master Document List , MMS General arrangement drawing external and MMS General arrangement drawing internal 2 separate drawings are asked. Hence EPC understands both interior and exterior tables shall be provided. Kindly confirm and keep the MDL in line with RFQ.	Noted.
290.	General	MODULE MOUNTING STRUCTURE (MMS)	-	Fasteners for other structural connections shall be of either SS304 or UNS S20430 or HDG of minimum grade 5.6 with minimum 85-micron galvanization coating thickness or as per relevant Indian Standard.	85 micron coating shall lead to torquing and tightening issues in fasteners. Bidder requests 50 microns / 300 to 320 GSM	Noted.
291.	Appendix-II to Annexure-III	-	-	6.23.6294.EM001.S02(RMU&ICOG Platform and Structural GA) Bid Drawings	Bidder shall design ICOG RMU platform in continuation with inverters . Kindly confirm.	Shall be fainalised During Detailed Engineering.
292.	Appendix-II to Annexure-III	-	-	6.23.6294.EM001.S03(MCR Architectural Drawing) Bid Drawings	FFL of +1.5m is shown . However , EPC requests +0.5m height is	Bidder to follow Specification requirement.

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					adequate. Shall be confirmed as per hydrology report. Minimum High flood level.	
293.	Appendix-II to Annexure-III	-	-	6.23.6294.EM001.S03(MCR Architectural Drawing) PARAPET WALL	1m high parapet wall is shown in Drawing. EPC requests 300mm parapet wall +700mm high handrailing is adequate.	Bidder to follow Specification requirement.
294.	Appendix-II to Annexure-III	-	-	6.23.6294.EM001.S02(RMU&ICOG Platform and Structural GA) Bid Drawings	Side sheeting has been furnished in drawing. EPC requests after maintaining the clearances for equipments and extra projection of 300mm roofing sheet projection beyond platform , no separate side sheeting is envisaged.	Bidder to follow Specification requirement.
295.	Appendix-II to Annexure-III	-	-	6.23.6294.E102(Conceptual PV Plant Layout) TRAPEZOIDAL DRAIN	In absence of hydrology report for pre-bid assumptions, 1413 m of drain length is assumed. For PV plant area . Catchment area of plant shall be only considered for plant drainage . Bottom Section width of 500mm , Depth of 750mm , 1: 1 side slope and top width of 2m is considered for pre-bid costing . Any increase or change in section sizes or lengths during Detailed design engineering shall be claimable as per actual . Kindly confirm .	Refer Cl.No-31 of Technical Specification.
296.	Appendix-II to Annexure-III	14.2	126	Rafter – E350	Bidder requests rafter E550 grade, Purlin –E550 grade , Main HDG Column – E350 grade , Black metal column - E250	Bidder to follow Specification requirement.
297.	Appendix-II to Annexure-III	14.2	-	The structure shall be checked for natural frequency as per codal requirements. The natural frequency of the structure	Kindly provide sample calculations for MMS frequency check design.	Bidder to follow Static Analysis for MMS Design.

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				shall be more than 1.0 Hz. In case, if the natural frequency in the first mode is less than 1.0 Hz, dynamic analysis shall be performed.		
298.	Appendix-II to Annexure-III	21.9.6	179	The fabrication of cable trays shall be done with 2.5mm thick sheet.	As per design requirements, bidder requests min 2mm thk cable tray is adequate.	Bidder to follow Specification requirement.
299.	Appendix-II to Annexure-III	22.1.4	182	However, for the single section tube pole, the minimum pole diameter shall be 150mm and the minimum pole wall thickness shall be 5mm or as per the approved design proposed by the Bidder during detailed engineering.	Minimum pole thickness height and dia , thickness shall be as per design requirements and not 150mm	Bidder to follow Specification requirement.
300.	Appendix-II to Annexure-III	29.17.9.11	426	The clear distance of the retaining wall of the pit from the power transformer shall be 20% of the transformer height or 0.8m whichever is more.	Shall be 0.8m or as per design requirements	Bidder to follow Specification requirement.
301.	Appendix-II to Annexure-III	29.17.9.11	426	• The oil collection pit thus formed shall have a void volume equal to 200% volume of total oil in the transformer. The oil soak pit shall be filled with gravel. The soak pit shall be completely filled with gravel and pedestal of power transformer shall be minimum 200mm above the highest level of top of gravel	As per CEA guidelines . 150% if no separate burnt oil pit is provided and 33% of oil shall be retained by soak pit and separate burnt oil pit shall be designed for 100% of highest capacity of transformer connected to it.	Bidder to follow Specification requirement.
302.	Appendix-II to Annexure-III	29.17.14	429	The cable trench walls shall be designed for the dead load of 155 kg/m length of cable support plus 75 Kg on one tier at the end and Triangular earth pressure plus uniform surcharge pressure of 2T/m2.	Uniform surcharge pressure of 0.5 T/m2 if indoor cable trench and 2 T/m2 for only cable trench near to roads and power transformers and heavy equipments and for all other balance cable trenches, 1 T/m2	Bidder to follow Specification requirement.
303.	Appendix-II to Annexure-III	29.17.14	429	Cable trench covers shall be designed for self-weight of top slab, UDL of 2000 Kg/m2 and concentrated load of 200 kg at center of span on each panel.	UDL of 2T/m2 is on extremely higher side for precast concrete cover block.	Bidder to follow Specification requirement.
304.	Appendix-II to Annexure-III	29.17.19	-	Drain channels may be designed as trapezoidal PCC lining of 75 mm thick.	For switchyard drain , Rectangular Brick lined drain of 115mm thk , 500mm bottom width , 500mm depth is considered. Kindly confirm	Bidder to follow Specification requirement.

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					. Which shall be finalised after detailed Hydrology report of PSS area.	
305.	Appendix-II to Annexure-III	29.17.22	433	Chain link mesh shall be of size 50x50 mm and of minimum 4 mm diameter.	Bidder suggest Chain link mesh shall be of size 50x50 mm and of 12 SWG thickness or 75x75mm mesh size , 10 SWG thickness	Bidder to follow Specification requirement.
306.	Appendix-II to Annexure-III	29.17.22	433	All fence posts shall be 75x75x6 MS angles of overall height 2.5m above external ground level including height of MS Y post 0.45m. Post shall be spaced at 2.5 m c/c distance. All corner fence posts will have two stay posts in orthogonal directions and every fifth post will have a stay post in the direction of the fence.	Bidder suggests 50x50x6 angle post spaced at 3m c/c . Stay post in only one direction and at 10th post . Kindly confirm.	Bidder to follow Specification requirement.
307.	Appendix-II to Annexure-III	29.17.22	434	Horizontal member of ISA 50x50x6 shall be provided at top and bottom of chain-link fence in between the vertical post	Bidder proposes 50x50x6 horizontal angle shall increase cost of fence and not required . HTSS wire is adequate.	Bidder to follow Specification requirement.
308.	Appendix-II to Annexure-III	30.8	442	The thickness of external and internal masonry walls shall be of minimum 230mm and 150mm thick respectively.	EPC suggests The thickness of external and internal masonry walls shall be of minimum 230mm and 115mm thick respectively.	Bidder to follow Specification requirement.
309.	Appendix-II to Annexure-III	30.12.3	-	The depth of foundation shall be minimum (-) 1.5m below natural ground level or as per approved structural drawings	Bidder suggests monopile foundation for inverter platforms of 300mm dia and depth as per design requirements and geotechnical capacity instead of isolated foundations.	Bidder to follow Specification requirement.
310.	Appendix-II to Annexure-III	-	-	The depth of the bore log shall be minimum 6m with 10% bore holes of total numbers shall have depth of 10m. S	Kindly confirm boreholes shall be 1 nos in 12.5 acres	Bidder to follow Specification requirement.
311.	Site Overview	1.2	32	Approximately 130acres of land is available for developing a 50MWAC Solar PV Plant. Bidders are advised to optimize plant design for available land area	The tender document states that approximately 130 acres of land is available for the development of	For Solar Plant Layout, Bidder to refer the Drg No 23-6294.001.E102 (Conceptual

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					the 50MWAC Solar PV Plant, and bidders are advised to optimize the plant design accordingly. However, the shared KMZ file indicates a total land area of 205 acres. Kindly confirm the exact land area available for this project.	Plant Layout) wherin the Project Area (Fenced Area) is indicated as 130 Acres. The provided KMZ file indicates the entire area that includes the shown Solar Plant Layout in the referred drawing, which is at an elevation of 208 RL. At this Elevation space for outside periphery road and drain have already been considered apart from 130 acres as shown. Rest of the area shown in the KMZ file is at an Elevation of 205 RL where the laydown and maintenance area can be planned. In view of this and to clear understand the Layout, Bidder is advised to visit the Site.
312.	Climatic Conditions	-	34	Corrosion Level: The Project site is located within severe corrosion zone	Request OPGC to share atmospheric and soil corrosion categorization study for pre-bid activities.	The project site is adjacent to a clear water reservoir. Bidder to evaluate the exact corrosion zone based on the site specific studies.
313.	Appendix-A (Completion performance Guarantee Terms) to Annexure-II	2.1	2	1st year IAT Generation Guarantee, Million kWh - 96.5 The P50 generation should be minimum 1,00,687.57MWh	Considering the use of DCR-compliant modules from Indian manufacturers, we anticipate significant Incidence Angle Modifier (IAM) losses in the range of 1.5% to 2%. These losses, even after applying Global Horizontal Irradiance (GHI) corrections, make	Bidder to refer Appendix-A of Draft Contract & Appendices for guaranteed parameters.

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					it technically unfeasible to achieve the specified generation target. In light of this, we kindly request you to re-evaluate and revise the minimum generation guarantee to reflect the realistic performance expectations under these constraints.	
314.	Roads and Pathways	29	432	Road from the entrance gate to inside the Sub-Station shall be provided by the Bidder; this road shall be 3.5m wide bituminous road as per relevant standards, with 1m shoulders on either sides or this road shall be 4m wide concrete road as per relevant standards, with 0.5m shoulders on either sides. Minimum thickness for bituminous road shall not be less than 250mm in three layers and minimum thickness of gravel sub-base shall be as per design.	Details of internal and peripheral road not specified in the Tender specifications. Request OPGC to share the dimensions and type of roads to be considered for internal and peripheral roads.	The periphery and all internal roads shall be 4 meter wide with 0.5 meter shoulders on either side. The roads shall be WBM with a top layer of three inches of murrom and the thickness shall be as per CBR of the soil and ESAL calculation or minimum 250mm whichever is greater.
315.	Structural Material and Thickness	14.1	124	The Bidder should design the structure height considering highest flood level at the site and the finished grade level. The minimum ground clearance shall be the higher of (i) Highest flood level + 100mm and (ii) 500mm, as applicable or as recommended in the Hydrology Study report.	Request to share the hydrology report to understand the HFL of this area.	Hydrology Study report shall be prepared by Bidder.(Refer Cl. No 31 of Tech Spec). Please note that the area is almost flat and at a height of RL 208 M. HFL of the area is RL 192 M.
316.	General	-	-	Topography Report	Request OPGC to share the Topography report.	Bidder to conduct the topo survey. Further Bidder shall do the site visit and based on that they can bid.
317.	Structural Material and Thickness	14.1	123	Irrespective of design requirements, minimum thickness of cold form sheet excluding anti corrosive treatment shall be 2.0 mm for columns and bracings, 1.6mm for rafters and	Request OPGC to confirm if the proposed thicknesses are acceptable.	Bidder to follow specification requirement.

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				1.2mm for purlins (1.0mm in case Hat sections are used for purlins).	column-2mm Rafter - 1.2mm Bracing - 1.2mm Purlins - 0.9mm (HAT Sections).	
318.	Structural Material	14	-	All structural members shall be as follow: – Column – E350 / E450 – Rafter – E350 – Purlin – E350 / E550 – All other structural members – E350	Request OPGC to confirm if the proposed material grades are acceptable. Column & Brace mounting channel - E350 Rafter - E550 Purlin - E550 All other structural members - E550	Bidder to follow specification requirement.
319.	Active and Reactive Power	26.2.4	215	Each Solar PV plant should be provided with a respective power plant control system capable of responding to the requirements of active and reactive power of the grid. The system shall provide dynamic control of the active and reactive power of the plant referring to parameters at the utility revenue meter within the PV plant premises. The grid parameters will be continuously measured, the required stabilized set response values will be calculated and the required correction values will be sent to the Solar PV inverters.	Request OPGC to confirm if additional inverters/SVG should be considered for reactive power compensation.	Bidder to comply specification requirement. Bidder to refer SLD provided in Bid drawing.
320.	SOLAR PV MODULES	8	50	The module rating shall be higher than 580Wp for Bifacial PV modules with half-cut cell design along with latest cell technologies such as Passivated Emitter and Rear Cell (Mono-PERC) P-type or N-type, Tunnel Oxide Passivated Contact (TOPCon) or Heterojunction (HJT) and system voltage shall be 1500V. The PV modules shall be either in application Class A according to IEC 61730 or in safety Class II according to IEC 61140. The PV modules shall have BIS registration (For Indian Projects only).	As per MNRE notification **F. No. 283/76/2023-GRID SOLAR dated 28th July 2025** after 1st September 2025 it is mandatory to use ALCM/DCR Solar PV modules only. Kindly confirm the type of Solar PV modules to be considered for this project	Either of the ALMM list shall be applicable.

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321.	General	-	-	Ash Dumping near project location	During the site visit, it was observed that the project location is situated near an ash pond. Kindly confirm whether the dumping area has been stabilized and if there will be no further ash disposal in the future	Ash is being disposed in slurry form in the adjacent ash pond. Dust Suppression arrangement has been provided in that area.
322.	Benchmark for Loss Assumptions	4.1	41	Soiling - The Bidder is advised to evaluate the dust profile on site and define the O&M strategy for maintaining the annual soiling loss to maximum of 1.60% based on manual cleaning.	The specification advises maintaining an annual soiling loss of maximum 1.6% based on manual cleaning. However, considering the site's proximity to a thermal power plant, our experience indicates that soiling losses could exceed 5% during dry seasons, despite scheduled cleaning. We request OPGC to review and consider revising the energy yield targets accordingly.	Bidder to follow specification requirement.
323.	Appendix – J (Acceptable Subcontractors/Vendors)	-	1	Central Inverter - Schneider, ABB, Hitachi-Hirel, Sungrow	ABB is sold to FIMER, Schneider supplying only residential inverter, Hitachi-Hirel not currently manufacturing inverter. Please consider TBEA and Sineng as alternate	Bidder's suggestion for TBEA is in-principle accepted. However the same shall be reviewed and approved during detailed Engineering after submission of required credentials of vendors.
324.	General	-	72	Pre-dispatch Quality Inspection and Testing. The Bidder shall give at least 15 days' advance notice of the date when the tests are to be conducted.	Request to consider 7 days	Bidder to follow specification requirement.
325.	Pin Insulator	28	267	Pin insulator shall be either of these makes mentioned below: – Jayshree – Birla NGK – Phoenix.	May consider below supplier also - Aditya Birla, - IEC - Shree Radhe Industries	Bidder's suggestion is in-principle accepted. However, the same shall be reviewed and approved DDE after submission

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				– WS industries. – Raychem – BHEL	- Deccan Enterprises Private limited Please Confirm	of required credentials of vendors.
326.	220/33kV Power Transformer	29.4	332	Following type tests shall be conducted in addition to routine tests on one of each type (rating) of transformer. The tests which are not mentioned below shall be performed by Bidder in accordance with IEC-60076. • Dynamic short circuit withstand test. 29.4.5.9 Special Tests Following Special tests shall be conducted on each transformer. The tests which are not mention below shall be performed by Bidder in accordance with IEC-60076. Short-circuit withstand test	Valid Short circuit tests certificates (not be older than 5 years) for test conducted earlier on transformers of similar type and rating shall be furnished for the Owner's review.	Bidder's understanding is correct.
327.	Specification of 220kV/33kV Control and Relay Panel	29.11.21	-	29.11.21 Pre-dispatch Quality and Testing The following factory test parameters that are to be carried out as per the Bidder's MQP duly approved by Owner shall be witnessed by Owner. • Visual examination • Verification of dimensions • Temperature Cycle Test • **Cantilever strength Test** • **Porosity Test** • Galvanising Test • Galvanizing checks.	FAT including logic and Applicable routine / acceptance test as per relevant standard shall be witnessed. Cantilever, porosity are not applicable for CRP.	Bidder's understanding is correct.
328.	Appendix – J (Acceptable Subcontractors/Vendors)	-	1	String Monitoring Box (SMB) - Trinity Touch, Hensel, Weidmuller, Statcon, Eaton, ABB	ABB & Statcon not manufacturing, Please consider Sertel as alternate	Bidder's suggestion is in-principle accepted. However the same shall be reviewed and approved DDE after submission of required credentials of vendors.
329.	Appendix – J (Acceptable	-	1	Power Transformer - BHEL, ABB, CGL, Siemens, Alstom	Please consider T&R, Atlanta, Indotech (GE) considering rating & delivery as supplier like Siemens	Bidder to consider T&R for Power Transformers.

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	Subcontractors/Vendors)				regret to supply due to current order booking	
330.	Appendix – J (Acceptable Subcontractors/Vendors)	-	1	Inverter Transformer - ABB, Siemens, Alstom, Toshiba, Voltamp	Please consider Danish and Tesla	Bidder's suggestion is in-principle accepted. However the same shall be reviewed and approved DDE after submission of required credentials of vendors.
331.	Appendix – J (Acceptable Subcontractors/Vendors)	-	2	HT Switch Gear (RMU/ ICOG) - Siemens, Schneider, ABB, Alstom, L&T, CGL, C&S Electric,	Please consider ABB system house for HT switchgear	Bidder's suggestion is in-principle accepted. However the same shall be reviewed and approved DDE after submission of required credentials of vendors.
332.	Appendix – J (Acceptable Subcontractors/Vendors)	-	2	DC Cable - Lapp Kabel, KEI Industries, Appar Industries, Helukabel	Please consider siechem	Bidder to consider vendors listed in Appendix-J
333.	Appendix – J (Acceptable Subcontractors/Vendors)	-	2	Cable Glands - Comet Brass Product / Baliga / SMI	Please consider dowells, Pioneer	Bidder to consider vendors listed in Appendix-J
334.	Appendix – J (Acceptable Subcontractors/Vendors)	-	2	CT/PT - Crompton Greaves Limited, ABB, Alstom, Kappa.	Please consider Mehru	Bidder to consider vendors listed in Appendix-J
335.	Appendix – J (Acceptable Subcontractors/Vendors)	-	2	SCADA - Siemens, Schneider, ABB, Yokogawa	Please consider Schneider system house for SCADA	Bidder's suggestion is in-principle accepted. However the same shall be reviewed and approved DDE after submission of required credentials of vendors.

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336.	Appendix – J (Acceptable Subcontractors/Vendors)	-	3	Cable trays - Technofab, Anand Udyog, Jamna Metal, Globe Electrical, Baroda Galvanizers, Nirmal Engg., Parekh Engineers, AV Engineers, Ratan Engineering.	Pls consider Star Power, Ajay Industries	Bidder to consider vendors listed in Appendix-J
337.	Appendix – J (Acceptable Subcontractors/Vendors)	-	3	Uninterruptible Power Supply - Vertiv, DB Power, Hitachi Hi-Rel, Schneider	Please consider Fuji, Prostram	Bidder to consider vendors listed in Appendix-J
338.	Appendix – J (Acceptable Subcontractors/Vendors)	-	3	Fasterners for Module to Str & Str to Str (SS & HDG)	Pls consider Kwality forge, Gujarat Fasternes, Jolly metal, Karishma fastrech	Bidder's suggestion is in-principle accepted. However the same shall be reviewed and approved DDE after submission of required credentials of vendors.
339.	Instruction to Bidders	-	-	-	**Bidder requests the add the definition of Affiliate to Tender Documents:** shall mean a Company that, directly or indirectly, a) controls, or b) is controlled by, or c) is under common control with, the Bidder/s / a Member of Bidding Consortium / the Developer/s and "Control" means ownership, directly or indirectly, of more than 50% (fifty percent) of the voting shares of such company or right to appoint majority Directors;	Bidder to comply the RFP condition. Existing Provision shall prevail.
340.	Instruction to Bidders	-	-	-	Bidder requests to introduce the definition of "Group Business entity" or "Group Company" of a Company as follows:	Bidder to comply the RFP condition. Existing Provision shall prevail.

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					"Group Business entity" or "Group Company" of a Company means: a. a Company which, directly or indirectly, holds 10% (Ten Percent) or more of the share capital of the Bidding Company or; b. a Company in which the Bidding Company, directly or indirectly, holds 10% (Ten Percent) or more of the share capital of such Company or; c. a Company in which the Bidding Company, directly or indirectly, has the power to direct or cause to be directed the management and policies of such Company whether through the ownership of securities or agreement or any other arrangement or otherwise or; d. a Company which, directly or indirectly, has the power to direct or cause to be directed the management and policies of the Bidding Company whether through the ownership of securities or agreement or any other arrangement or otherwise or; e. a Company which is under common control with the Bidding Company, and control means ownership by one Company of at least 10% (Ten Percent) of the share capital of the other	

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					f. a company in which the Bidding Company or its Parent Company holds a majority shareholding (i.e. more than 50%) and exercises management control.	
341.	Instruction to Bidders	4.1	-	4.1. Technical Qualification Requirement (TQR) a. The Bidder should have successfully completed similar works during last 7 (seven) years prior to the Proposal Submission Date as follows: i. Three (3) similar completed works each costing not less than the amount equal to INR 43.0 Crores; OR ii. Two (2) similar completed works each costing not less than the amount equal to INR 53.0 Crores; OR iii. One (1) similar completed work costing not less than the amount equal to INR 86.0 Crores. [Each similar completed work should be executed against a single contract. Bidder to submit the completion certificate with cost of completed work of respective Contract against each completed work.]	Bidder has following requests to add the following: Allow the use of Affiliate and/or "Group Business entity" or "Group Company" to meet the Work Experience criteria	Bidder to comply the RFP condition. Existing Provision shall prevail.
342.	Clause 1	-		The Contractor should complete the Project within Fifteen (15) months (14 months and 1 month for OAT) as the Final Completion from date of Notice to proceed (NTP).	Bidder requests the project duration to be min 24 months as there as are multiple long lead supply items in the project including 33/220 kV Power Transformer.	Bidder to comply the RFP condition. Existing provision prevails.
343.	General	-	-	**Proposal Submission Date (Techno Commercial Proposal & Price Proposal): 15th October 2025 by 18:00 Hrs. (IST)**	**Bidder requests to extend tender submission date till 5th November 2025**	Proposal Submission is extended.
344.	Appendix-II (Draft Contract)	5.1.6 (a)		*Provided that the Contractor shall not be entitled to seek a Change Order for any change in Contractor's Taxes due to a Change of Law which occurs after the relevant Guaranteed Completion Date, in respect of Works which*	Change in law should be allowed during construction Phase.	Bidder to comply the RFP condition. Existing Provision shall prevail.

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				should have been completed on or before the relevant Guaranteed Completion Date as per Appendix-A, except if such delay was solely attributable to the Owner or due to a Force Majeure.		
345.	Appendix-II (Draft Contract)	5.1.6 (a)		*It is further clarified that these adjustments as specified in this Section 5.1.6 (a) & (b) above shall not be applicable on procurement of raw materials, intermediary components and intermediary services etc. by the Contractor.*	Change in law should be allowed during construction Phase.	Bidder to comply the RFP condition. Existing Provision shall prevail.
346.	Appendix-II (Draft Contract)	7.2.3.2 (b)	57	*Amounts reasonable: The Parties hereby acknowledge and agree that the terms, conditions and amounts fixed as liquidated damages pursuant to Section 7.2.3.2(a) for Completion Delay Liquidated Damages are reasonable, considering the loss of revenues and the actual costs that Owner will incur if Contractor fails to achieve completion of activity/system or Final Completion by the Guaranteed Completion Date of the activity/system, or Guaranteed Final Completion Date. The amounts of these liquidated damages are agreed upon and fixed hereunder by the Parties because of the difficulty of ascertaining the exact amount of losses and/or costs that will be actually incurred by Owner in such event, and the Parties hereby agree that such amounts are a reasonable estimate of Owner's probable loss (and are not a penalty) and that such amounts shall be applicable regardless of the amount of such lost revenues and increased costs actually incurred by Owner. The receipt of any such liquidated damages shall not affect Owner's rights to cause a Work Termination pursuant to Section 14 or to receive the Liquidated Damages pursuant to Section 9.2*	Loss Assessment should be on Mutual Agreement.	Bidder to comply the RFP condition. Existing Provision shall prevail.
347.	Appendix-II (Draft Contract)	7.3.2	58	*Punch List Security: Simultaneously with the creation of the Punch List, pursuant to Section 7.3.1 and before notifying Substantial Completion Date, Contractor shall furnish to Owner one bank guarantee payable on demand in*	It should be as per payment clause.	Bidders query is not clear. Bidder to comply the RFP

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				Bhubaneswar from an Acceptable Credit Provider in the form attached hereto as Appendix-FF ("Punch List Security"). The stated amount of the Punch List Security shall be an amount equal to two hundred percent (200%) of the total projected cost of completing the Punch List items, or such amount as determined by Owner in its sole discretion.		condition. Existing Provision shall prevail.
348.	Appendix-II (Draft Contract)	11.3.1.5	73	*The Contractor shall not be entitled to request Change Order as a consequence of an increase in the rate, during the term of this Contract, of any applicable Contractor's Taxes existing on the Cut-off Date, except as provided in Section 5.1.6. It is clarified that where any existing Applicable Laws is replaced with, or subsumed within, a new Applicable Laws, which has the effect of replacing any existing Contractor's Tax with a similar Contractor's Tax, the Contractor shall not be entitled to request for a Change Order on account of any effective increase in the rate of Contractor's Taxes. The Contractor shall also not be entitled to submit any Change Order Request as a consequence of an increase in Taxes that result from any act or omission of Contractor, including its failure to pay any Taxes for which it is liable and/or misinterpretation of the applicability of any Taxes or its failure to complete the Works in accordance with the relevant Guaranteed Completion Date.*	Change in law should be allowed.	Bidder to comply the RFP condition. Existing Provision shall prevail.
349.	Appendix-II (Draft Contract)	14.1.2.1 (b)	81	*(b) draw upon the Securities and/or the Punch List Security in an aggregate amount not to exceed the amount that Owner reasonably believes would be payable to it in respect of all of its remedies hereunder, without prejudice to Contractor's right to recover the amount (if any) drawn by Owner to which Owner is not entitled after (but not before) such amount is drawn; provided that the foregoing*	Does this clause talk of a capping on Punch List Security or any other security?	Bidder to comply the RFP condition. Existing Provision shall prevail.

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				limitation shall not in any way prevent Owner from making any such drawing		
350.	Appendix-II (Draft Contract)	1	-	*In addition to the above, OPGC is planning to install a 50 MWAC grid connected solar photovoltaic (PV) project and proposes to utilize the land parcel available on filled up Ash Pond-B which is around 130 usable acres for this project in Banharpalli village near to IBTPS.*	However, the **KMZ file you provided shows a total land area of 205 acres**. Could you please confirm if it is feasible to accommodate the **50 MW project within 130 acres**, or if the full 205 acres would be available for this purpose?	For Solar Plant Layout, Bidder to refer the Drg No 23-6294.001.E102 (Conceptual Plant Layout) wherein the Project Area (Fenced Area) is indicated as 130 Acres. The provided KMZ file indicates the entire area that includes the shown Solar Plant Layout in the referred drawing, which is at an elevation of 208 RL. At this Elevation space for outside periphery road and drain have already been considered apart from 130 acres as shown. Rest of the area shown in the KMZ file is at an Elevation of 205 RL where the laydown and maintenance area can be planned. In view of this and to clear understand the Layout, Bidder is advised to visit the Site.
351.	Scope of Work	3.0 (A)	-	Scope of Work:	1. Is it mandatory that both consortium members must be responsible for executing the full scope of Operation & Maintenance (O&M) services during the contract period, or is it acceptable that only the Lead Member performs the	1. Both the Consortium members are jointly and severally responsible for carrying out the scope of the work. Bidder to comply the RFP condition. Existing Provision shall prevail.

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					O&M activities on behalf of the Consortium? 2. Is it possible to extend the supply timeline for PV Modules (and their structures), inverters, and the 33 kV transformer beyond the initial 6 months to a period of 9-10 months without affecting the overall completion schedule?" 3. The makes of equipment listed in the Appendix (J) of RFP are not standard in the industry, making it difficult to procure and supply them within the 6-month timeframe. Could you please confirm to select and supply the equivalent make. 4. Please clarify that can we consider the soil test for the costing of Bid, looking to Ash Pond soil, we want to firm on cost prospective.	2. Bidder to comply the RFP condition. Existing Provision shall prevail. 3. Bidder to comply the RFP condition. Existing Provision shall prevail. 4. Bidder to refer clause no. 2.6.2 of the draft contract. Bidder to comply the RFP condition.
352.	Instruction to Bidders	4.0	10 of 38	4.1 Technical Qualification Requirement (TQR) a. The Bidder should have successfully completed similar works during last 7 (seven) years prior to the Proposal Submission Date as follows: i. Three (3) similar completed works each costing not less than the amount equal to INR 43.0 Crores; OR ii. Two (2) similar completed works each costing not less than the amount equal to INR 53.0 Crores; OR	We kindly request to Amend the Following anticipation. a. The Bidder should have successfully completed similar works during last 7 (seven) years prior to the Proposal Submission Date as follows: i. Three (3) similar completed works each costing not less than the amount equal to INR 30.0 Crores;	Bidder to comply the RFP condition. Existing Provision shall prevail.

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				iii. One (1) similar completed work costing not less than the amount equal to INR 86.0 Crores. [Each similar completed work should be executed against a single contract. Bidder to submit the completion certificate with cost of completed work of respective Contract against each completed work.] b. One (1) of the above reference completed works (4.1.a) must have been in successful operation for at least one (1) year prior to the Proposal Submission Date.	OR ii. Two (2) similar completed works each costing not less than the amount equal to INR 40.0 Crores; OR iii. One (1) similar completed work costing not less than the amount equal to INR 60.0 Crores. [Each similar completed work should be executed against a single contract. Bidder to submit the completion certificate with cost of completed work of respective Contract against each completed work.] b. One (1) of the above reference completed works (4.1.a) must have been in successful operation for at least one (1) year prior to the Proposal Submission Date.	
353.	Instruction to Bidders	-	-	Qualification Requirement (QR)	1. EPC Experience Criteria: The tender specifies EPC experience requirements. While we do not have the exact experience as outlined, we have successfully executed similar solar projects, including both rooftop and ground-mounted installations. Since the tender also mentions that similar works include rooftop and ground-mounted solar plants, we would like to confirm whether our past project experience in these categories will	Bidder to follow the QR.

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					be considered eligible under the technical criteria.	
354.	General	-	-	-	The tender mentions that the solar PV power plant is to be installed at the Earth Capped Ash Pond-B at IB Thermal Power Station, Jharsuguda, Odisha. We request your kind clarification on the specific site conditions and installation requirements for this location. Additionally, if possible, we request site photographs and/or videos to better understand the ground conditions for installation and design purposes.	Bidder to visit the site
355.	Instruction to Bidders	4.0	-	QUALIFICATION REQUIREMENT (QR) a. The Bidder should have successfully completed similar works during last 7 (seven) years prior to the Proposal Submission Date as follows: i. Three (3) similar completed works each costing not less than the amount equal to INR 43.0 Crores; OR ii. Two (2) similar completed works each costing not less than the amount equal to INR 53.0 Crores; OR iii. One (1) similar completed work costing not less than the amount equal to INR 86.0 Crores. [Each similar completed work should be executed against a single contract. Bidder to submit the completion certificate with cost of completed work of respective Contract against each completed work.]	a. The Bidder should have successfully completed similar works during last 7 (seven) years prior to the Proposal Submission Date as follows: i. Three (3) similar completed works each costing not less than the amount equal to INR 43.0 Crores; OR ii. Two (2) similar completed works each costing not less than the amount equal to INR 53.0 Crores; OR iii. One (1) similar completed work costing not less than the amount equal to INR 86.0 Crores. [Each similar completed work should be executed against a single	Bidder to follow the QR.

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				b. One (1) of the above reference completed works (4.1.a) must have been in successful operation for at least one (1) year prior to the Proposal Submission Date. Note: A. Similar work, shall be the work related to design, supply, erection, installation, testing & commissioning of Solar Photo Voltaic (SPV) grid connected power plant(s) in India. The SPV plant shall be any or all of the following installations: a.Ground Mounted SPV b.Roof-top SPV c.Floating SPV	contract. Bidder to submit the completion certificate with cost of completed work of respective Contract against each completed work.] b. One (1) of the above reference completed works (4.1.a) must have been in successful operation for at least one (1) year prior to the Proposal Submission Date. Note: A. Similar work, shall be the work related to design, supply, erection, installation, testing & commissioning of Solar Photo Voltaic (SPV) grid connected power plant(s) in India. The SPV plant shall be any or all of the following installations: a.Ground Mounted SPV b.Roof-top SPV c.Floating SPV OR B. (i) The Bidder should have executed in the last Ten (10) years an industrial project either as Developer or as EPC Contractor in the area of power/ steel/ oil and gas/ petro- chemical/ fertilizer/ cement or any other process industry, of minimum financial figure as mentioned under point no.(a) above, in a single project or	

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					single work and the same should be in successful operation for at least One (1) year/ Six (06) Months* prior to the date of techno-commercial bid opening. * Successful operation: At least One (1) Year for industrial projects other than RE sector i.e., Solar/Wind. At least Six (6) Months for projects in RE sector (i.e., Solar/Wind). AND (ii) The Bidder should have executed at least One (1) Electrical Sub-Station of 33kV or above voltage level, consisting of equipment such as 33kV or above voltage level circuit breakers and Power Transformer, either as developer or as EPC Contractor which should be in successful operation for at least One (1) Year / Six (6) Months# prior to the date of techno-commercial bid opening. # Successful Operation: At least One (1) Year for Electrical Sub-station in Projects other than RE sector i.e., Solar/ Wind. At least Six (6) Months for Electrical Sub-station in RE Projects (i.e., Solar/Wind).	

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					The works referred to at Clause No.4, Note: B (i) & (ii) can be either in same or different projects.	
356.	Instruction to Bidders	-	-	QUALIFICATION REQUIREMENT (QR) a. The Bidder should have successfully completed similar works during last 7 (seven) years prior to the Proposal Submission Date as follows: i. Three (3) similar completed works each costing not less than the amount equal to INR 43.0 Crores; OR ii. Two (2) similar completed works each costing not less than the amount equal to INR 53.0 Crores; OR iii. One (1) similar completed work costing not less than the amount equal to INR 86.0 Crores. [Each similar completed work should be executed against a single contract. Bidder to submit the completion certificate with cost of completed work of respective Contract against each completed work.] b. One (1) of the above reference completed works (4.1.a) must have been in successful operation for at least one (1) year prior to the Proposal Submission Date.	Bidder have acquired a 40 MW solar project - details of which are enclosed herewith. The agreement copies are enclosed herewith for your perusal. Request to accept the same so as to enable us to proceed with bid submission accordingly.	Bidder to follow the QR.
357.	Instruction to Bidders	6.1(a)	-	Bid Security	As per Clause 6.1(a), the bond is required to have a tenor of 180 days plus a 1-year claim period. We understand that the 180-day period covers the tender evaluation and award process. We would appreciate confirmation that the additional 1-year claim period is required or not as RFP further explained that the unsuccessful qualified/unqualified bidders' bid	Bidder to ensure the claim period of the Bid Security shall be minimum 90 days from the Bid Security validity Date.

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					bond will be released within 30 days of declaration of the successful bidder. This clarification is requested to ensure our bank issues a bid bond that is fully compliant with all aspects of the tender requirements.	
358.	General	-	-	**Proposal Submission Date (Techno Commercial Proposal & Price Proposal): 15th October 2025 by 18:00 Hrs. (IST)**	**Bidder request a minimum extension of two weeks, with the revised bid submission deadline proposed as 30th November 2025.**	Proposal Submission is extended.
359.	Appendix D	1.0 B (g)	-	"MSTC shall collect non-refundable transaction fees online from all the participating vendors. GST to be paid extra as applicable on the transaction fees by the vendors through e-payment link. The bidders should submit the transaction fee well in advance before the last date of submission of tender as they will be activated for bid submission only after receipt of transaction fee by MSTC."	Bidder seeks clarification on the following: 1. Is the previously paid transaction fee of ₹11,800 applicable for the re-floated tender? 2. If not, do we need to make a fresh payment for the new Event No.: OPGC/Corporate/Contracts/1/25-26/ET/18? 3. If a new payment is required, please confirm the updated transaction fee amount and share the payment link.	Bidder to pay MSTC portal usage charges as applicable.
360.	Instruction to Bidders	5.4	-	"The Bidders, who had deposited the tender fee and collected the RFP documents against the earlier RFP vide BID IDENTIFICATION NO.: OPGC/SOLAR/EPC/05NOV2024 issued on 5th November 2024, will be exempted from paying the said non-refundable tender fee again, if they want to participate under the same Bidder's name (as a single entity)."	Bidder seeks clarification on the following: 1. Is the previously paid tender fee of ₹35,400 applicable for the re-floated tender, Kindly confirm our exemption? 2. If the exemption applies, do we need to attach any specific	The said clause is self-explanatory. Bidder have to submit the proof of documentary evidence. Bidder to comply the RFP condition.

SL	REFERENCE	CLAUSE NO.	PAGE NO.	EXISTING PROVISION	BIDDER'S QUERY	CLARIFICATION RESPONSE
					document or proof (besides the attached receipt) to validate this exemption in our submission? 3. If, contrary to the clause, a new payment is required, please confirm this immediately.	Existing Provision shall prevail.
361.	Instruction to Bidders	Clause 6.1.(b)	-	Bid Security	Upon reviewing the tender documents, we have observed a discrepancy regarding the validity period of the Bid Security: • As per Clause 6.1.b of the NIT-ITB_EPC of 50MW, "The Bid Security in the form of Insurance Surety Bond/Bank Guarantee/Fixed Deposit Receipt shall be valid for a period of at least 180 days from the Proposal Submission Date as notified by OPGC and shall have additional claim period of one (1) year, beyond the validity period". • However, in the ISB format in Annexure-I Bidding formats, the claim period—denoted by "@"—states that "This date shall be ninety (90) days after the last date for which the bid is valid." Bidder seeks clarification on which of the above conditions should be considered final and binding for preparing and submitting the Insurance Surety Bond.	Noted. Bidder to ensure the claim period of the Bid Security shall be minimum 90 days from the Bid Security validity Date.

SL	REFERENCE	CLAUSE NO.	PAGE NO.	EXISTING PROVISION	BIDDER'S QUERY	CLARIFICATION RESPONSE
					To ensure full compliance and avoid any deviation, we request your guidance on the correct validity and claim period to be incorporated in the ISB.	
362.	Instruction to Bidders	6.1.(b)	-	Bid Security	Bidder seeks clarification on followings: 1. Stamping amount applicable for the Insurance Surety Bond as per OPGC. 2. Any additional instructions or procedural requirements for the execution and submission of the Insurance Surety Bond?	As per stamp duty act applicable.
363.	Instruction to Bidders	5.5	14	MSMEs are eligible to get the benefit of exemption from payment of Bid Security & Bid Processing Fee, provided the participating Bidders are registered as MSME under the classification of "Electric power generation using solar energy". In order to avail the exemption in Bid Security & Bid Processing Fee in case of consortium, all the consortium members should be registered as MSME Vendors under NSIC/ Udyog Aadhaar Category/DIC.	If two parties, both registered as MSMEs, come together to form a consortium and combine their experience, will they be eligible for exemption from payment of EMD and Bid Processing Fee or not.	This will be applicable as per clause 5.5 of the RFP. Both parties should be registered as MSME under the classification of "Electric power generation using solar energy" to avail the exemption from payment of Bid Security and Bid Processing Fee

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