

Consolidated Response to Bidder's Queries

Reference:

- 1) TENDER ENQUIRY DOCUMENT FOR BALANCE OF SYSTEM PACKAGE FOR 500 MW (AC) SOLAR PV PROJECT AT GREAT RANN OF KUTCH, NR. VILL. KHAVDA IN GUJARAT, INDIA. (RfP No: GIPCL /Solar/BOS/2024-25 dtd: 30.04.2024)
- 2) Queries received through various email(s).

Sr. No	Vol. No. & Section No.	Clause No.	Page No.	Existing Tender Terms (GIPCL /Solar/BOS/2024-25)	Bidder's Queries	GIPCL reply / clarification to Bidder's Queries
1	Volume - I, Section-4, GENERAL CONDITIONS OF CONTRACT (GCC)	1.0. DEFINITIONS OF THE TERMS AND CONDITIONS OF CONTRACT Clause No. 1.1.15	SHEET 3 of 105	"Change in Law" means the occurrence of any of the following after the Effective Date of this Agreement. a) The enactment of any or issuance of any new Indian law that becomes Applicable Law b) The amendment or repeal, or re-enactment of any existing Applicable law c) A change in the interpretation or application or enforcement of any Applicable Law by Government instrumentality d) The revocation or cancellation of any Applicable Permit unless due to a cause attributable to the Contractor.	As the change in law is not attributable to contractor and may happen anytime, the Bidder request to modify the clause as under: "Change in Law" means the occurrence of any of the following after date seven (7) days prior to the deadline set for Bid submission, a) The enactment of any or issuance of any new Indian law that becomes Applicable Law b) The amendment or repeal, or re-enactment of any existing Applicable law c) A change in the interpretation or application or enforcement of any Applicable Law by Government instrumentality d) The revocation or cancellation	No change in Tender Conditions. Bidder shall comply with Tender Conditions.
2	Volume - I, Section-4, GENERAL CONDITIONS OF CONTRACT (GCC)	2.1	SHEET 14 of 105	Access and Right to use of the Site Necessary access to the site shall be made by the Contractor after handing over of the site to the Contractor by the Owner within one week from the date of receipt of Lol. Access to the site location is from (SH-45), on as is where is basis. It is responsibility of contractor to investigate and assess the requirements in view of EPC package at no cost to GIPCL. Any improvement, modification required is in the scope of contractor at their cost. In the execution of the Works, no persons other than the Contractor or his duly appointed representative, Sub-contractor and workmen, shall be allowed to do Work on the Site, except by the special permission, in Writing of the Owner.	The Bidder understand that site access verification and its strengthening, during construction , for the damages caused by Contractor's equipments or any agency appointment by the contractor is in the scope of the Contractor. Any improvement/modification required due to damages caused by any agency directly appointed by owner & further any dispute related to the site access shall be settled by the Owner at its own cost. Kindly confirm.	No change in Tender Conditions. Bidder shall comply with Tender Conditions.
3	Volume - I, Section-4, GENERAL CONDITIONS OF CONTRACT (GCC)	3.7.3	SHEET 28 of 105	3.7.3 Miscellaneous Liabilities in Co-operation with Other Contractors If the Works of the Contractor is delayed because of any acts of omission of another Contractor, the Contractor shall have no claim against the Owner on this account for any extension of time for completing his Works....	Bidder understands that in case the Contractor is delayed in its performance for the reasons of the other contractor directly appointed by the Owner, in that case the Contractor shall be entitled to time extension as well as cost.	No change in Tender Conditions. Bidder shall comply with Tender Conditions.
4	Volume - I, Section-4, GENERAL CONDITIONS OF CONTRACT (GCC)	9.5	SHEET 70 of 105	Suspension of Supply of Goods/ Work The Owner reserves the right to suspend and reinstate execution of the whole or any part of the work without invalidating the provisions of the Contract. Orders for suspension or reinstatement of the work will be issued by the Owner to the Contractor in writing. The time for completion of the work will be extended for a period equal to duration of the suspension and no financial compensation will be paid for the above suspension. No idle labour payments will be made on any account. The Owner however shall not be responsible for any liabilities if suspension or delay is due to some default on the part of the contractor or his sub-contractor or any agencies outside the control of the Owner.	Bidder understands that suspension due to the reasons not attributable to the Contractor, Financial obligations/ hardships during that period of suspension should be compensable by the Owner.	No change in Tender Conditions. Bidder shall comply with Tender Conditions.
5	Volume - I, Section-4, GENERAL CONDITIONS OF CONTRACT (GCC)	11.3	SHEET 74 of 105	Liquidated Damages for Underperformance: At the time of the Operational Acceptance Test, any shortfall in the Performance Ratio (PR) as determined through the Test Procedure detailed in the Technical Specification Volume- II Schedule – VI will attract imposition of Liquidated Damages after one (1) unsuccessful chance. For any shortfall in PR below 0.75 by the Bidder for the second (2) time, a penalty of 1% of the EPC Contract Price (Plus applicable GST) shall be levied. In case the first the Test is unsuccessful then penalty shall not be charged but the Contractor has to make the necessary corrections to conduct the test again within the stipulated maximum 30 days, so as to demonstrate the PR equal to or more than 0.75. In the second (2) time, a penalty at the rate specified above shall be levied on the Contractor. The penalty shall be deducted from the pending payment and Performance Bank Guarantee. However, if Contractor feels that NEETG may not be achieved and want to carry out further correction, the same will be allowed for the one more time i.e. Third (3) time but PG Test and O&M period shall start from such later date as mentioned in Point no. A (xiv) in NIT; Table A. In case the Contractor is successful in 3rd attempt then 1% of the EPC Contract Price deducted after unsuccessful 2nd attempt shall be returned. However, if the Contractor fails in the 3rd attempt as well then the penalty deducted at the time of 2nd unsuccessful attempt shall not be returned.	Bidder understands in case the underperformance is due to the modules (which will be a free issue item from GIPCL), reasonable time extension & cost will be provided by GIPCL. Kindly confirm.	No change in Tender Conditions. Bidder shall comply with Tender Conditions.
6	Volume - I, Section-4, GENERAL CONDITIONS OF CONTRACT (GCC)	11.4.1(b)	SHEET 74 of 105	Contractor waives any defence to non-performance of its obligation to pay Liquidated Damages pursuant to the Contract including this clause no. 11 on the ground of alleged invalidity or unenforceability of provisions relating to payment of Liquidated Damages based on any theory or law or otherwise.	Bidder request to delete the clause as legal right of the bidder cannot be taken away.	No change in Tender Conditions. Bidder shall comply with Tender Conditions.
7	Volume -I Section-1	Notice inviting tender 2.0. Table A: Important dates	SHEET 3 of 14	vi. Online (e-tendering) Tender/Offer submission last date {This is mandatory}	The Bidder is working on preparing a comprehensive and a competitive bid and considering various exigencies in the bid preparation process, we request that the bid submission deadline be please extended by 4 weeks.	Bidder shall refer Amendment-2
8	VOLUME - II PART - 2 (Schedule - III A)	A3- String Combiner Boxes Clause no. 3.30	SHEET 26 of 87	All Solar cables from SCB to Inverter shall be laid on ballast or above ground cable trestle or above ground cable racks. Positive and Negative cable shall be laid completely separately with separation distance not less than 300mm.	Based on our experience, we understand that 300mm distance is very high to be maintained and is not required. The bidder request to Kindly consider 100mm.	Bidder shall refer Amendment-2
9	VOLUME - II PART - 2 (Schedule - III A)	A4 - INVERTERS Clause No .3.46	SHEET 37 of 87	Overall plant inverter availability shall not be less than 99.5%. Both the availability and up-time requirement shall be guaranteed by the manufacturer for 25 years.	Please note that AMC of Inverter is for 10 years and getting guarantee of 99.5% is possible for 10 years only. Request you to kindly consider the availability and up-time requirement shall be guaranteed by the manufacturer for 10 years.	Bidder shall refer Amendment-2
10	VOLUME - II PART - 2 (Schedule - III B)	3.24 Cable selection & sizing:	SHEET 96 of 179	3. All Power Cables are to be laid with minimum spacing of 2D between the cables edges (and NOT center to center of cables). "D" is diameter to cable.	Bidder request to consider the touching formation for 1.1 kV Aux Power cable laying.	Bidder shall refer Amendment-2

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11	VOLUME - II PART - 2 (Schedule - III B)	B8 - 33KV POWER CABLES Clause 3.5	105 of 179	The cables specifications / design shall be suitably selected as per final laying philosophy/ methodology decided during detail engineering by the Bidder considering the site environmental conditions etc. Bidder shall submit the final specification with methodology for Owner's Approval.	Bidder request to specify clearly if any additional specification is required while laying cable underground.	Bidder shall refer Amendment-2
12	VOLUME - II PART - 2 (Schedule - III A)	SCHDULE – III EPC TECHNICAL SPECIFICATION DC SYSTEM A1 - PV CONNECTORS AND BRANCH CONNECTORS	SHEET 4 of 87	4.0 Technical Parameters 12.Operating Temperature Range deg. C -40°C to +90°C	Bidder request to modify the operating temperature range -40 °C to +85 °C (IEC).	Bidder shall refer Amendment-2
13	VOLUME - II PART - 2 (Schedule - III A)	SCHDULE – III EPC TECHNICAL SPECIFICATION DC SYSTEM A1 - PV CONNECTORS AND BRANCH CONNECTORS	SHEET 5 of 87	4.0 Technical Parameters 13. Upper Limiting Temperature °C 115	Bidder request to modify the Upper Limiting Temperature 105 Deg C As per IEC 62852 std.	Bidder shall refer Amendment-2
14	VOLUME - II PART - 2 (Schedule - III A)	A7 – MODULE CLEANING SYSTEM	SHEET 67 of 87	3.22 Suitable extended Canopy shall be used to protect pumps, Motors & tanks. Bidder to refer the Corrosion category as specified in technical specification and grade of concrete accordingly.	Bidder request to remove the requirement for canopy for Tanks as Tanks are FRP.	Bidder shall refer Amendment-2
15	VOLUME - II PART - 1 (Schedule - I and 2)	Clause No. 1.3.10	SHEET 5 of 17	Redundant Auxiliary power system to be provided for all the system except ICOG system.	Bidder request you to kindly provide the details of ICOG system	Bidder shall refer Amendment-2
16	VOLUME - II PART - 2 (Schedule - III A)	Clause No. 3.53	SHEET 37 of 87	Inverter DC input side shall be provided with Motorized DC Isolator with fuse / MCCB along with Hall sensor (accuracy of 1.0 class or better) for each incoming DC cable from SMB and output side with AC Air circuit breaker.	Bidder understand that SMB mentioned here is SCB as no SMB has been envisaged. Kindly confirm.	Bidder's understanding is correct. Its only String Combiner Box (SCB). No change in Tender conditions.Bidder shall comply with Tender Conditions.
17	VOLUME - II PART - 2 (Schedule - III A)	A7 – MODULE CLEANING SYSTEM Clause 3.1	SHEET 65 of 87	The RE Park developer will provide water from the RE Park storage area. Bidder shall lay the piping system from RE Park water system upto the Module cleaning system.	Please provide the details and location of RE water system and distance from solar plant	The location of RE Park water system shall be near PSS-1. No change in Tender Conditions. Bidder shall comply with Tender Conditions.
18	VOLUME - II PART - 2 (Schedule - III B)	Clause No. 3.8 Clause No. 3.9	28 of 179	3.8. Each 33kV switchboard shall consists of VCB for the Inverter transformer incomers and VCB for the 33kV transmission line to the 400/33-33kV PSS-2 33KV pooling switchgear. The number of incoming feeders shall be decided based on the block configuration adopted for the project. Space provision for future panel (one no) shall be provided with each 33 kV switchboard. 33kV Sub-pooling switchboard shall be provided with RCC cum PEB building. 3.9 For MV/HT ICOG panels, following minimum clear distances shall be provided	Bidder understand that apart from future panel space, this additional space of 300mm is required from proposed ICOG panel. Kindly confirm.	No change in Tender Conditions. Bidder shall comply with Tender Conditions.
19	VOLUME - II PART - 3 (Schedule - IV to VI)	TABLE 2: VARIOUS PARAMETERS TO BE CONSIDERED FOR PVSYST SIMULATION	SHEET 32 of 35	15. Soiling loss- 1.0%	Kindly clarify soiling loss value which is to be considered final	No change in Tender Conditions. Bidder shall comply with Tender Conditions.
20	VOLUME - II PART - 2 (Schedule - III A)	A7 – MODULE CLEANING SYSTEM Clause 5.30	SHEET 70 of 87	Bidder shall guarantee that losses due to soiling upon usage of the cleaning system shall not exceed 0.5% of the module output of the each 100MWac PV plant on daily basis. Bidder shall provide Test reports / On-field data of the operational plants to ensure guaranteed soiling losses.		Bidder shall refer Amendment-2
21	VOLUME - II PART - 2 (Schedule - III A)	A7 – MODULE CLEANING SYSTEM Clause 5.30	SHEET 70 of 87	Bidder shall guarantee that losses due to soiling upon usage of the cleaning system shall not exceed 0.5% of the module output of the each 100MWac PV plant on daily basis. Bidder shall provide Test reports / On-field data of the operational plants to ensure guaranteed soiling losses.	Kindly accept 1.5% of soiling loss	Bidder shall refer Amendment-2
22	VOLUME - II PART - 3 (Schedule - IV to VI)	1.0 Approved Vendor List	SHEET 7 of 35	16. ESE Type Lightning Arrestor : 1. Jeff Techno Solution 2. Storm master 3. OBLUM 4. LAMCO 5. GE 6. CGL 7. ELPRO 8. Sabo System 9. Indelec Prevectron 10. Nimbus 11. Dmsgi	Bidder request to include the MANAV make for ESE LA.	Bidder shall refer Amendment-2

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23	VOLUME - II PART - 3 (Schedule - IV to VI)	1.0 Approved Vendor List	SHEET 6 of 35	15. Battery Charger: 1. Amara Raja 2. Caldine 3. HBL 4. Statcon 5. Dubas 6. Chhabhi 7. Vertiv (previously known as Emerson) 8. Chloride / Exide 9. Hitachi 10. HI-REL 11. Mass-Tech Control 12. Hoppecke Batterien 13. GMBH & CO KG 14. Saft India	Bidder request to include makes for DCDB (additional) as specified for Battery charger for proper integration of system.	Bidder shall refer Amendment-2
24	VOLUME - II PART - 3 (Schedule - IV to VI)	PART B: ANNUAL TARGETED GENERATION TEST PROCEDURE Clause No.- m)	SHEET 31 of 35	GIPCL is planning to install 8 Nos of Wind Turbine Generator (WTGs) on periphery of the plot (as per the following tentative locations). Bidder shall leave the shadow free area while preparation of Overall array layout. The Hub Diameter of WTG shall be considered as 150 Meters and hub height shall be 150 M. The exact Locations of WTGs shall be decided during detail Engineering.	As modules are installed in WTG shadow so any degradation or defects in solar PV Modules due to shadow of WTG is in client scope. Client need to take confirmation from PV module OEM regarding the same and confirm if shadow of blades are allowed on modules	Bidder shall refer Amendment-2
25	VOLUME - II PART - 2 (Schedule - III B)	Clause No. 3.4.18	SHEET 84 of 179	Following annunciation shall be provided as minimum and shall be integrated to the SCADA a) Mains AC failure b) Charger over load c) DC output breaker tripped d) AC input breaker tripped e) Battery fully discharged f) Battery on boost g) DC system earth fault h) DC under voltage i) DC Over voltage j) Charger current limited protection operated k) AVR Defective l) SMPS module failure m) Battery breaker tripped n) Battery on boost In-case all above parameters as part of HMI (with local display) is also acceptable	Bidder informs that , All battery charger signals will be given through RS-485 i.e. Soft signals.	No change in Tender Conditions. Bidder shall comply with Tender Conditions.
26	VOLUME - II PART - 2 (Schedule - III A)	1.0 Weather Monitoring Station	SHEET 77 of 87	1.1 The Weather Monitoring Station shall be provided with all the equipment to monitor relevant parameters for the assessment of the performance of the PV Power Plant. There shall be two (02) primary weather stations for 1x300 and 1x200 MW block and Six numbers of secondary weather stations	Bidder understands that 2Nos of primary WMS and 6Nos of secondary WMS need to be considered for 300MW 2Nos of primary WMS and 6Nos of secondary WMS need to be considered for 200MW	Bidder shall refer clause no.: 4.0 of VOLUME - II PART - 2 (Schedule - III A), SHEET 83 of 87. No change in Tender Conditions. Bidder shall comply with Tender Conditions.
27	VOLUME - II PART - 2 (Schedule - III A)	Clause No. 1.9	SHEET 78 of 87	Supplier to also install minimum Two soiling station in the solar PV field.....	Bidder understands that 2No of soiling station need to be considered for 300MW 2No of soiling station need to be considered for 200MW	Bidder shall refer clause no.: 1.9 of VOLUME - II PART - 2 (Schedule - III A), SHEET 78 of 87. No change in Tender Conditions. Bidder shall comply with Tender Conditions.
28	GENERAL			-	Bidder informs that power supply for PPC Panel at PSS end will be provided by GIPCL.	The Power supply (230 V, 50 Hz, UPS Supply) will be provided by GIPCL. However, required cabling and integration is in the scope of Bidder. No change in Tender Conditions. Bidder shall comply with Tender Conditions.
29	VOLUME - II PART - 3 (Schedule - IV to VI)	PART A: OPERATIONAL ACCEPTANCE TEST (OAT) PROCEDURE Clause No. 3	Page no. 27 of 35	".....In case non-availability of Grid (which is beyond the control of EPC contractor) the period of the same shall be excluded for calculation of the PR...."	The calculation for performance ratio test periods will not consider all the following cases: - Periods when the average radiation in the plane of the array of the Plant is below 50W/m2. - Periods in which plant is not operating at its nominal voltage, nominal frequency etc. due to grid which have impact upon plant performance. - Periods of power curtailment by utility resulting in decrease in guaranteed generation and load shedding. - Principal directed reduction in output or shutdown. - Event of Force Majeure - The inability of the principal to export energy to the Transmission System due to the revocation, annulment, or termination of any relevant Principal's Permit, where such inability arises through no fault of the Contractor. - Operation at a reduced Facility maximum AC generation capacity due to off-taker, Owner or grid operator instruction or Govt Authority - Grid Outage Hours: hours during the Period when a failure in the distribution grid or in the Connection Infrastructure prevented energy from being evacuated from the Facility including Periods of ramping the plant from grid down to full rated power to a maximum of 2 minutes. - Grid Disturbance Hours: hours during the Period when a fluctuation in the utility grid Parameters from rated (e.g., a frequency or voltage variation) disconnected the inverters or Facility from the utility grid and prevented energy from being evacuated from the Facility. - Any Losses on account of a Power Factor other than that considered in PVSYST simulation shall be adjusted for calculation of estimated PR %. - Module underperformance, if the module supply is in Owner's scope due to any manufacturing defects and/or damage during transit, other than any defect arising out of improper storage and handling or installation of the solar modules by the Contractor.	No change in Tender Conditions. Bidder shall comply with Tender Conditions.
30	VOLUME - II PART - 3 (Schedule - IV to VI)	PART A: OPERATIONAL ACCEPTANCE TEST (OAT) PROCEDURE Clause No. 5.1	Page no. 28 of 35	(vi) Tmeas,j = Average module temperature (°C) measured during each metering interval j by the temperature sensors placed on the back side of the modules. Weighted average measurement of the installed module temperature sensors shall be considered.	The bidder requests to clarify on the reference to Weighted average measurement of the installed module temperature sensors, since already it is mentioned as average module temperature measured at each metering interval by temperature sensors placed on the back side of modules.	No change in Tender Conditions. Bidder shall comply with Tender Conditions.

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31	VOLUME - II PART - 3 (Schedule - IV to VI)	PART A: OPERATIONAL ACCEPTANCE TEST (OAT) PROCEDURE Clause No. 5.1	Page no. 28 of 35	(viii) j = Interval for PR test (i.e., sunrise to sunset duration of a day).	Periods of PR measurement shall not consider periods of irradiance when plane of array insolation cease to exist below 50 W/m2 . The bidder requests to consider the same.	No change in Tender Conditions. Bidder shall comply with Tender Conditions.
32	VOLUME - II PART - 3 (Schedule - IV to VI)	PART B: ANNUAL TARGETED GENERATION TEST PROCEDURE Clause No. 4	Page no. 29 of 35	Following factors may be noted for computing the PR and Targeted Generation Test:	the Bidder requests to consider PR as parameter plant performance assessment for the annual O&M periods, with the same formula & methodology as in OAT .	No change in Tender Conditions. Bidder shall comply with Tender Conditions.
33	VOLUME - II PART - 3 (Schedule - IV to VI)	PART B: ANNUAL TARGETED GENERATION TEST PROCEDURE Clause No. 4	Page no. 29 of 35	a) Effect due to variation in annual insolation shall only be considered for computing the PR/Targeted Generation.	the bidder requests to consider effects of parameters viz, temperature, module degradation, albedo in addition to insolation correction	No change in Tender Conditions. Bidder shall comply with Tender Conditions.
34	VOLUME - II PART - 3 (Schedule - IV to VI)	PART B: ANNUAL TARGETED GENERATION TEST PROCEDURE Clause No. 4	Page no. 29 of 35	c) Generation loss due to grid outage (or power evacuation restriction by GIPCL / Grid authority which is beyond the control of Contractor or any other factors beyond the control of contractor for justified reasons accepted by GIPCL): The measured global solar radiation of the period of the outage of the power evacuation system shall be excluded to calculate average global solar radiation for the period of PR and Annual Targeted Generation test.	the bidder requests to consider following periods of exclusion for annual PR/target generation test periods same as for OAT: - Periods when the average radiation in the plane of the array of the Plant is below 50W/m2. - Periods in which plant is not operating at its nominal voltage, nominal frequency etc. due to grid which have impact upon plant performance. - Periods of power curtailment by utility resulting in decrease in guaranteed generation and load shedding. - Principal directed reduction in output or shutdown. - Event of Force Majeure - The inability of the principal to export energy to the Transmission System due to the revocation, annulment, or termination of any relevant Principal's Permit, where such inability arises through no fault of the Contractor. - Operation at a reduced Facility maximum AC generation capacity due to off-taker, Owner or grid operator instruction or Govt Authority - Grid Outage Hours: hours during the Period when a failure in the distribution grid or in the Connection Infrastructure prevented energy from being evacuated from the Facility including Periods of ramping the plant from grid down to full rated power to a maximum of 2 minutes. - Grid Disturbance Hours: hours during the Period when a fluctuation in the utility grid Parameters from rated (e.g., a frequency or voltage variation) disconnected the inverters or Facility from the utility grid and prevented energy from being evacuated from the Facility. - Any Losses on account of a Power Factor other than that considered in PVSYST simulation shall be adjusted for calculation of estimated PR %. - Module underperformance, if the module supply is in Owner's scope due to any manufacturing defects and/or damage during transit, other than any defect arising out of improper storage and handling or installation of the solar modules by the Contractor.	No change in Tender Conditions. Bidder shall comply with Tender Conditions.
35	VOLUME-I SECTION – 5	Annexure – I TERMS AND PROCEDURES OF PAYMENT	SHEET 12 of 12	(ii) Towards O&M Charges Bidders shall quote their O&M charges as minimum 1.5% per year of EPC Contract Price i.e. 4.5 % for three (03) years of their Total quoted price (excluding O&M Charges) and GST. In case O&M Charges are below the minimum percentage of 4.5 % as mentioned, the amount by which it is lower shall be retained from the Supply Contract price while releasing payments and no interest payable on the retained amount. The retained amount shall be paid on upon completion of O&M Period and its certification by the Owner.	The bidder request you to kindly modify the O&M charges as minimum 1.2% per year i.e. 3.6 % for three (03) years which is in line with the other government tenders with same scope of works. This shall enable to have acceptable cashflows for the project.	No change in Tender Conditions. Bidder shall comply with Tender Conditions.
36	VOLUME - II PART - 2 (Schedule - III A)	A7 – MODULE CLEANING SYSTEM Clause No. 3.1	SHEET 65 of 87	The RE Park developer will provide water from the RE Park storage area. Bidder shall lay the piping system from RE Park water system upto the Module cleaning system.	Water from RE Park Storage area shall be supplied on free issue basis or shall be charged to Bidder by RE Park developer. Please provide water supply charges to be consider in- case same is issued on chargeable basis to Bidder. Please confirm.	Bidder shall refer Clause No. 3.11.2.3 of Volume-1, SECTION – 4 SHEET 31 OF 105. No change in Tender Conditions. Bidder shall comply with Tender Conditions.
37	Volume-I Section-1 to 5	SECTION – 4 10.TESTS BEFORE TAKE OVER Clause No. 10.5	SHEET 72 of 105	10.5 Rejection In case the result of Operational Performance Tests, after all the remedial measures and modifications have been carried out by Contractor, are below the levels set forth in the Technical Specification, the Contractor shall at his risk and Cost take all remedial and rectification measures to bring the Solar Plant performance to the Guaranteed performance level failing which the Owner shall have the right in its sole discretion to reject the Solar Plant or to first attempt to rectify the Solar Plant at the risk and cost of the Contractor so as to get the Guaranteed performance and on determining that such attempt is unsuccessful to reject the Solar Plant. Upon rejection of the Solar Plant on account of the failure to meet the Guaranteed performance, the Contractor shall notwithstanding anything to the contrary in the Contract, at its Cost and expense forthwith replace or remedy the Solar Plant so that it attains the Guaranteed Performance or at Owner's option shall pay to Owner all money paid by the Owner with interest and other Costs and also dismantle and dispose the rejected Solar Plant and clear the Site at his Cost and if he fails in this, the Owner will dismantle and dispose the rejected Solar Plant and clear the Site at Contractor's Cost and risk and recover all money paid(with interest) to the Contractor and expenses incurred in dismantling, disposing off the Solar Plant and clearing the Site from the Contractor.	We understand and appreciate the importance of ensuring the Solar Plant meets the guaranteed performance ratio. However, the current rejection clause presents a significant risk to the bidder. It imposes a heavy financial and operational burden in the event of failure to meet the performance ratio despite cur best efforts end remedial measures. Therefore we respectfully request GIPCL to consider accepting the plant/equipment by imposing Liquidated Damages (LD) for any shortfall in Performance Ratio (PR%), taking into account the generation over the plant's lifespan, rather than rejecting the plant	Bidder shall refer Amendment-2

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38	Volume -I Section-1	Notice inviting tender 2.0. TABLE B: IMPORTANT AMOUNTS	SHEET 6-7 OF 14	<p>iii. Security Deposit cum Performance Bank Guarantee (PBG): The Contractor shall furnish Security Deposit (SD) cum Performance Bank Guarantee (PBG) equivalent to 10% (ten percent) of the EPC Contract Price within 01 month after issuance of Lol....</p> <p>iv. O&M Bank Guarantee (O&M BG): 5% of EPC Contract Price, to be submitted upon completion and acceptance of Performance Guarantee Test as per Clause No. xiv of Table A (Important Dates) above for a period of three (3) years, to the 90 days beyond completion of the O&M Period mentioned in Clause No. xv of Table A (Important Dates) above.....</p>	For PBG and O&M BG mentioned as 10% & 5% respectively of total EPC contract value, does contract value also include GST	<p>Bidder's understanding is correct. Total EPC Contract value includes GST.</p> <p>No change in Tender Conditions. Bidder shall comply with Tender Conditions.</p>
39	Volume -I Section-5	Annexure – I TERMS AND PROCEDURES OF PAYMENT	SHEET 8 OF 12	<p>TERMS OF PAYMENT (A) For Supply</p> <p>4. On Completion of installation of equipment for each block of 20 MW (AC): 10% of Supply Price</p>	For payment terms on completion of block of 20MW, could you please define the completion of block	<p>Bidder shall refer Note in the terms of payment.: Sr. no. 2 of Volume-1 Section-5 , Sheet 9 of 12 " 20 MW (AC) Block capacity is indicative; Completion of One block means Completion of Erection & Installation of Complete DC Circuit and AC Circuit up to main Control Room HT panel."</p> <p>No change in Tender Conditions. Bidder shall comply with Tender Conditions.</p>
40	Volume -I Section-5	Annexure – I TERMS AND PROCEDURES OF PAYMENT	SHEET 8 OF 12	<p>TERMS OF PAYMENT (A) For Supply</p> <p>1. Advance Payment on:</p> <p>(ii) Submission of Advance Bank Guarantee of equivalent amount: 15% of Supply Price excluding taxes & duties</p>	Against 15% advance being offered against supply, if bidder opts for 5% can the balance 10% be adjusted against the milestone for dispatch of payment	<p>Yes It can be. The exact modalities shall be discussed with successful bidder after award of Contract.</p> <p>No change in Tender Conditions. Bidder shall comply with Tender Conditions.</p>
41	Volume -I Section-5	Annexure – I TERMS AND PROCEDURES OF PAYMENT	SHEET 8-9 OF 12	Annexure – I TERMS AND PROCEDURES OF PAYMENT	The advance offered against supply and service, is the advance interest bearing?	<p>The advance is interest free.</p> <p>No change in Tender Conditions. Bidder shall comply with Tender Conditions.</p>
42	Volume -I Section-1	3.0	SHEET 8 of 14	3.0. PRE-QUALIFYING REQUIREMENTS	<p>request the inclusion of an alternative route for bidder eligibility in your tender documents. This would enable companies that do not meet the specific Solar work criteria to participate through the following criteria:</p> <p>"</p> <p>a) The Bidder should have executed in the last ten (10) years an industrial project either as a developer or as an EPC Contractor in the area of power/steel/oil and gas/petro-chemical/fertilizer/cement/coal mining including coal handling plant and/or any other process industry, of a value of a minimum Rs. _____ Crores ina single project or single work respectively and the same should be in successful operation for at least one (1)year prior to the last date of submission of bid.</p> <p>AND</p> <p>b) The Bidder should have executed at least one (1)Electrical Sub-station of 33kV or above voltage level, consisting of equipment such as 11/33 kV or above voltage level circuit breakers and Power transformer, either as a developer or as an EPC Contractor which should be in successful operation for at least one (1) year prior to the last date of submission of bid. The works referred above can be in the same or different projects."</p>	No change in Tender Conditions. Bidder shall comply with Tender Conditions.
43	Volume -I Section-1	Notice inviting tender 2.0. TABLE B: IMPORTANT AMOUNTS	SHEET 6 of 14	<p>ii. Earnest Money Deposit (EMD) in the form of Bank Guarantee/DD or Online payment as per Procedure given in Appendix-22: Rs. Five (05) Cr. (With a validity as per Clause No. xii of Table A (Important Dates) above.</p> <p>iii. Security Deposit cum Performance Bank Guarantee (PBG): The Contractor shall furnish Security Deposit (SD) cum Performance Bank Guarantee (PBG) equivalent to 10% (ten percent) of the EPC Contract Price within 01 month after issuance of Lol.</p>	Additionally, I would like to draw your attention to a recent circular issued by the Ministry of Finance thatallows the submission of insurance surety bonds as an alternative to Earnest Money Deposit (EMD) and Performance Bank Guarantee (PBG) in government tenders/contracts. The Ministry of Finance Circular No. F.1/1/2022-PPD dated 2nd February 2022, states that the Bid Security may be accepted in the form of InsuranceSurety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque, or Bank Guarantee.These measures have been introduced to promote ease of doing business and provide flexibility to contractorsin meeting the financial requirements of government contracts.	No change in Tender Conditions. Bidder shall comply with Tender Conditions.
44	ANNEXURE- 4 OVERALL PLANT LAYOUT - PERIPHERAL FENCING				Please clarify that pferifal road is not in bidder scope as per exclusion points. Only fence highlighted in yellow colour in drawing is in bidder scope.	<p>Bidder shall refer clause no. 5.0 of VOLUME - II PART -1 (Schedule - I and 2) sheet 9 of17</p> <p>No change in Tender Conditions. Bidder shall comply with Tender Conditions.</p>
45	ANNEXURE- 6 TYPICAL CABLE TRAY PRECAST SUPPORT				Bidder propose the power cable/Solar Cable laying along with column post of MMS with Channel/Angle support arrangement. Please clarify.	<p>It shall be decided during detailed Engineering based on the type of Structure, cable laying philosphy proposed by the Bidder.</p> <p>No change in Tender Conditions. Bidder shall comply with Tender Conditions.</p>
46	VOLUME - II PART - 3 (Schedule - IV to VI)	PART B: ANNUAL TARGETED GENERATION TEST PROCEDURE Clause No. e)	Sheet 30 of 35	Based on the parameters for PVSyst given in the tender (including solar irradiance, various loses etc.) and final .PAN file of PV module given by the GIPCL the first year Targeted Generation shall be derived by the contractor and the same shall be binding to the Contractor.	Please note that PAN file is not available. Any change in the PAN file/Module rating considered during Prebid, may impact in the Generation at PR guarantee test at later. Please clarify.	<p>Bidder shall refer TABLE 2: VARIOUS PARAMETERS TO BE CONSIDERED FOR PVSYST SIMULATION of VOLUME - II PART - 3 (Schedule - IV to VI) sheet 32 of 35</p> <p>No change in Tender Conditions. Bidder shall comply with Tender Conditions.</p>
47	VOLUME - II PART - 3 (Schedule - IV to VI)	TABLE 2: VARIOUS PARAMETERS TO BE CONSIDERED FOR PVSYST SIMULATION	Sheet 32 of 35	<p>Sr. No. 4: Solar PV module characteristic*:</p> <p>2274 mm x1134 mm</p> <p>34 kg (weight)</p> <p>13.73 A (Isc)</p> <p>28 modules in series</p> <p>The Pig tail cable length(s) shall be 300 to 500 mm. Bidder shall consider daisy chain stringing arrangement only.</p>	Bidder request to provide 1200mm Cable along with Each Module. This will required to connect modules (width 1134mm.)	No change in Tender Conditions. Bidder shall comply with Tender Conditions.

Sr. No	Vol. No. & Section No.	Clause No.	Page No.	Existing Tender Terms (GIPCL /Solar/BOS/2024-25)			Bidder's Queries	GIPCL reply / clarification to Bidder's Queries																									
48	VOLUME - II PART - 1 (Schedule - I and 2)	2.1	SHEET 6 of 17	Tentative 33kV Feeders allocation at 33/400kV PSS-2 (Pooling station-2) for 500MW Solar PV Plant are as below:			Block size considered is 12.5MW with 3.125MW rated inverter. Please confirm.	Bidder shall refer Clause No. 3.2 of VOLUME - II PART - 2 (Schedule - III A), Sheet 32 of 87. No change in Tender Conditions. Bidder shall comply with Tender Conditions.																									
49	VOLUME - II PART - 3 (Schedule - IV to VI)	TABLE 1: REFERENCE GHI DATA AT PROJECT SITE	Sheet 31 of 35	Month Total	GHI (kWh/M2) 2072.6	Albedo 0.27	As per GIS data GHI data is coming 2048 kwh/m2 for this project location . Please clarify which one to follow for actual PR calculation.	No change in Tender Conditions. Bidder shall comply with Tender Conditions.																									
50	VOLUME - II PART - 2 (Schedule - III A)	4.3 Illustration for sizing of Cables:	Sheet 60 of 87	4. Maximum No of Strings connected to SCB: = 18			Bidder request to optimise the nos of string connected to SCB up to 19 or 20 to balance loads in individual MPPT in inverter. Please clarify	Bidder shall refer Clause No. 4.0 Technical Parameters Sr. No. 2 (a) of VOLUME - II PART - 2 (Schedule - III A), Sheet 27 of 87.																									
51	VOLUME - II PART - 1 (Schedule - I and 2)	4.0 TERMINAL POINTS	Sheet 9 of 17	4.1. Electrical - Bidder has to terminate all the 33kV transmission lines from the Solar PV Plant at the 33/400kV PSS-2 (Pooling station-2). All hardware required for 33kV cable termination at 33/400kV switchyard, including support structure/buildings and civil works required for the same, shall be under scope of bidder.			Bidder understand that 33kV MCR building is excluded from scope of bidder. Hence no civil work in bidders scope for Switchgear Building. Please clarify.	Bidder shall refer Sr. No. 7 of Amendment-1 issued on 11.06.2024 and current Amendment-2.																									
52	VOLUME - II PART - 2 (Schedule - III A)	4.0. DESIGN PARAMETERS	Sheet 9 of 87	4.13 Minimum ground clearance to be maintain at module edge with maximum angle shall not be less than 400mm.However, this will be decided based on final document shared by bidder and approved by OWNER			Bidder understand that in case of any change in ground clearance may impact in Civil MMS requirement. Please clarify.	No change in Tender Conditions. Bidder shall comply with Tender Conditions.																									
53	VOLUME - II PART - 2 (Schedule - III A)	3.0 Design Criteria	Sheet 26 of 87	3.30 All Solar cables from SCB to Inverter shall be laid on ballast or above ground cable trestle or above ground cable racks. Positive and Negative cable shall be laid completely separately with separation distance not less than 300mm.			Bidder understand that clearance in case of Solar cable is very high as compare to normal standard practice. This may increase the BOQ of Cable laying significantly. Please clarify accordingly.	Bidder shall refer Amendment-2																									
54	VOLUME - II PART - 2 (Schedule - III B)	3.24 Cable selection & sizing:	Sheet 96 of 179	3. All Power Cables are to be laid with minimum spacing of 2D between the cables edges (and NOT center to center of cables). "D" is diameter to cable. 4. Rating factors of air and ground temperatures, depth of laying, variation			Bidder understand that clearance in case of Power cable is very high as compare to normal standard practice. This may increase the BOQ of Cable laying significantly. Please review and reply. Please clarify accordingly.	Bidder shall refer Amendment-2																									
55	VOLUME - II PART - 2 (Schedule - III A)	3.0 Design Criteria	Sheet 75 of 87	3.7 No shadow shall fall on PV Modules between 09:00 AM to 04:30 PM due to ESE LA structures. Appropriate care shall be taken while designing PV array layout.			Bidder request not to consider shadow impact of LA, In case of tracker MMS, only moving shadow fall in module may have very minor impact. However Robotics quantity can be otimised significantly in this case.	No change in Tender Conditions. Bidder shall comply with Tender Conditions.																									
56	VOLUME - II PART - 2 (Schedule - III A)	3.0 Design Criteria	Sheet 33 of 87	3.6 Following conditions shall be individually as well as collectively complied for sizing, ratings and quantities of Inverters with dynamically varying parameters: 3. Power factor 0.95 lag to 0.95 lead at POI. 4. Voltage 0.95 to 1.05 per unit at POI 5. All above parameters shall be maintained at 100% of active power at POI. 6. Reactive power compensation shall be done through Inverters only.			Bidder understand that complying these condition along with CEA guideline regarding Reactive power compensation. Please clarify reactive power compensation by using inverter function/feature of voltage control mode/Reactive power control mode/Capacitive and Inductive Output mode or providing additional inverter (as per tender condition approx. 25nos of additional nos) for reactive power compensation. Please clarify.	No change in Tender Conditions. Bidder shall comply with Tender Conditions.																									
57	GENERAL						1. Can we receive the corrosion study report so that we can fix the type of paint and coating thickness for the structure. 2. Cl. 6.8, Minimum length of pile cap/collar has proposed 400mm, please spec ify the maximum length for this zone considering the high flood and corrosion 3. Can we use NCEER method and Chinese criteria to assess Liquefaction as IS Code is providing simplistic approach to access it. 5. As the site ground slope is very mild therefore undulation will be more, please specify outfall point or drainage scheme 6. Cl.6.17 The tracker design is based wind tunnel study and pressure coefficient received after the study. "design wind pressure to be considered for design, shall not be taken less than the minimum wind pressure "pd" as mentioned in the Specification". Please clarify.	1. Bidder shall refer Clause No. D. PROJECT LOCATION CLASSIFICATION (CORROSION PROTECTION) of VOLUME - II PART -1 (Schedule - I and 2), SHEET 15 of 17. 2. Bidder shall refer Annexure" Indicative_Report_NIH_GIPCL_Jan 2022" 3. Bidder shall refer Clause No. 6.3 of VOLUME - II PART - 2 (Schedule - III D), Sheet 18 of 47. 5. Bidder shall refer Clause No. D25 – STORM WATER DRAINAGE of VOLUME - II PART - 2 (Schedule - III D), Sheet 39 of 47. 6. Bidder shall refer Clause No. A2 - TRACKER SYSTEM of VOLUME - II PART - 2 (Schedule - III A) Sheet 7 of 87 No change in Tender Conditions. Bidder shall comply with Tender Conditions.																									
58	VOLUME - II PART - 3 (Schedule - IV to VI)	SCHEDULE – V LIST OF SPARES FOR 3 YEAR O&M	Sheet 15,16 of 35	<table><tr><th>SL. No.</th><th>ITEM / EQUIPMENT</th><th>Unit</th><th>Total Quantity</th><th>Descripti on</th></tr><tr><td>6.</td><td>Inverter (For Central Inverter, If applicable)</td><td></td><td></td><td></td></tr><tr><td></td><td>k) Cooling fan</td><td>Nos</td><td>5</td><td></td></tr><tr><td></td><td>l) Inverter Fuses,</td><td>Nos</td><td>48</td><td></td></tr><tr><td></td><td>m) Electronics Modules/ Card/ Display</td><td>Nos</td><td>10</td><td></td></tr></table>			SL. No.	ITEM / EQUIPMENT	Unit	Total Quantity	Descripti on	6.	Inverter (For Central Inverter, If applicable)					k) Cooling fan	Nos	5			l) Inverter Fuses,	Nos	48			m) Electronics Modules/ Card/ Display	Nos	10		Please clarify the quantity mentioned in Total quantity column of Spares for Inverter- cooling fans, Inverter fuses, Electronic Modules/Card/Displays,etc is for each type and each rating.	Bidder's understanding is correct. Bidder shall supply individual quantity for each type and rating. For example in Sr. No. (k) cooling fan, if bidder is supplying two types of cooling fan than for spares Bidder shall consider 5 nos. for each type (5+5) No change in Tender Conditions. Bidder shall comply with Tender Conditions.
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