

Tender Amendment/ Clarification Document

Date: 11th July, 2024

Ref.: GIPCL/Solar/BOS/2024-25

To,
Prospective Bidder(s),

Sub: Amendment/ Clarifications to "Notice Inviting Tender for Balance of System Package for 500 MW Solar PV Project at Great Rann of Kutch, Nr. Vill. Khavda in Gujarat, India."

Ref.:1) Tender Enquiry Document No. GIPCL/Solar/BOS/2024-25, dated 30.04.2024.
2) Amendment-1, dated 11.06.2024

- (1) GIPCL has floated Notice Inviting Tender for Balance of System Package for 500 MW (AC) Solar PV Project at Great Rann of Kutch, Nr. Vill. Khavda in Gujarat, India (GIPCL/Solar/BOS/2024-25).
- (2) GIPCL received queries from various potential Bidders in response to the Tender.
- (3) Based on the deliberations with participants in the Pre-Bid Meeting, amendments/ clarifications to the Tender Enquiry Documents are being issued (The "Amendment Document").
- (4) This Amendment Document shall now be considered as an integral part of the Tender Enquiry Document. All other terms and conditions applicable to the Tender shall now be applicable to this Amendment Document also. Any amendments/clarifications indicated in this Amendment Document shall supersede all relevant terms and conditions/ clauses of the EPC Tender.
- (5) The Bidder shall understand, duly sign and seal each page of this Amendment/Clarification Document and submit as per the method / procedure mentioned in the Tender.

Yours faithfully,
For and on behalf of GIPCL,

Sd/-

General Manager (RE Projects)

Enclosed: 1) Attachment-1 (Amendment-2).
2) Consolidated Response to Bidder's Queries.



Attachment-1 (Amendment-2)

Date: 11.07.2024

IMPORTANT NOTE

Amendment / Addendum / Clarification / Corrigendum issued herein shall form part of Tender Enquiry Document on 30th April 2024. All Bidders to please note that Amendment/Addendum/Clarification/Corrigendum issued will supersede the respective Clause / Sub-Clause of Original Tender Enquiry Document to the extent for the Clause / Sub-Clause or part thereof the amendment is issued. All other terms and conditions of the original Tender Enquiry Document No: GIPCL/Solar/BOS/2024-25 published on 30th April 2024 will remain unchanged.



Amendment to the TED GIPCL/Solar/BOS/2024-25

All the Tender Terms & Conditions will remain unchanged other than the below Amended Term

Sr. No.	Volume/Section	Clause No.	Page No.	Existing Term			Amended Term		
				Sr. No.	Event	Details	Sr. No.	Event	Details
1.	Volume-I Section-1	vi	Sheet 3 of 14	2.0. TABLE A: IMPORTANT DATES			2.0. TABLE A: IMPORTANT DATES		
				vi	Online (e-tendering) Tender/Offer submission last date {This is mandatory}	27.06.2024 Time: 17:00 hours (IST) On n-procure portal for Bid Submission	vi	Online (e-tendering) Tender/Offer submission last date {This is mandatory}	25.07.2024 Time: 17:00 hours (IST) On n-procure portal for Bid Submission
2.	Volume-I Section-1	vii	Sheet 4 of 14	vii	Physical receipt of Bid with all the relevant documents last date (By RPAD or Speed Post or By Personal Messenger) {This is mandatory}	28.06.2024 Venue: GIPCL Corporate Office, PO: Ranoli - 391 350, Dist. Vadodara.	vii	Physical receipt of Bid with all the relevant documents last date (By RPAD or Speed Post or By Personal Messenger) {This is mandatory}	26.07.2024 Venue: GIPCL Corporate Office, PO: Ranoli - 391 350, Dist. Vadodara.
3.	Volume-I Section-4	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.			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. Further, Bidder shall note that in case the Performance Ratio (PR) after 3rd attempt is less than 70% then only Plant shall be rejected.		
4.	VOLUME - II PART - 2 (Schedule - III A)	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 guarantee that losses due to soiling upon usage of the cleaning system shall not exceed 0.8% 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.		



Sr. No.	Volume/Section	Clause No.	Page No.	Existing Term			Amended Term		
5.	VOLUME - II PART - 2 (Schedule - III A)	3.22	Sheet 67 of 87	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.			Suitable extended Canopy shall be used to protect pumps & Motors & tanks. Further, Bidder shall submit appropriate documentary evidence to demonstrate the 25 years life considering various parameters like UV rays, harsh site conditions etc.. for FRP Tanks. Bidder to refer the Corrosion category as specified in technical specification and grade of concrete accordingly.		
6.	VOLUME - II PART - 1 (Schedule - I and 2)	5.0	Sheet 9 of 17	5.0 EXCLUSIONS Supply of following equipment are excluded from the scope of the Bidder: j) 8 Nos. of WTGs planned along the Boundary by GIPCL			5.0 EXCLUSIONS Supply of following equipment are excluded from the scope of the Bidder: j) 5 Nos. of WTGs planned along the Boundary by GIPCL		
7.	VOLUME - II PART - 3 (Schedule - IV to VI)	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. Bidder shall consider above WTG's shadow to meet Targeted generation.			GIPCL is planning to install 05 Nos. of Wind Turbine Generator (WTGs) on periphery of the plot (North Side only) (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. Bidder shall consider above WTG's shadow to meet Targeted generation.		
8.	VOLUME – II/ PART - 3 (Schedule - IV to VI)	SCHEDULE – IV LIST OF APPROVED MANUFACTURERS Sr.No.: 1	Sheet 4 of 35	Inverters	1. ABB (String & Central) 2. Sungrow 3. Ingeteam 4. SMA 5. TMEIC/ TOSHIBA 6. Schneider 7. Huawei (String) 8. Sineng		Inverters	1. ABB (String & Central) 2. Sungrow 3. Ingeteam 4. SMA 5. TMEIC/ TOSHIBA 6. Schneider 7. Huawei (String) 8. Sineng	
9.	VOLUME - II PART - 2 (Schedule - III A)	4.0 (12)	Sheet 4 of 87	Operating Temperature Range	°C	-40°C to +90°C	Operating Temperature Range	°C	-40°C to + 85 °C
10.	VOLUME - II PART - 2 (Schedule - III A)	4.0 (13)	Sheet 5 of 87	Upper Limiting Temperature	°C	115	Upper Limiting Temperature	°C	As per IEC 62852
11.	VOLUME - II PART - 2 (Schedule - III A)	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.			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 300 100 mm.		
12.	VOLUME - II PART - 2 (Schedule - III A)	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.			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 AMC period as mentioned in tender.		



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13.	VOLUME - II PART - 2 (Schedule - III B)	3.9	Sheet 105 of 179	Water swellable tape shall be provided for all cables if laid underground.	Additional specifications if cables are laid underground: a. Water swellable tape above armour (in addition to Semi conducting water swellable tape over insulation) b. Water tree retardant (TR-XLPE) cross linked polyethylene insulation applied by extrusion process.				
14.	VOLUME - II PART - 1 (Schedule - I and 2)	4.1	Sheet 9 of 17	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.	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.				
15.	VOLUME - II PART - 3 (Schedule - IV to VI)	B (1.1)	Sheet 17 of 35	--	Addition <table border="1"> <tr> <td>1.1</td> <td>Inverter Transformers of Each type, Each Rating, Each make complete in all respect</td> <td>Set</td> <td>1</td> </tr> </table>	1.1	Inverter Transformers of Each type, Each Rating, Each make complete in all respect	Set	1
1.1	Inverter Transformers of Each type, Each Rating, Each make complete in all respect	Set	1						
16.	VOLUME - II PART - 3 (Schedule - III C)	5.1	Sheet 21 of 104	If any building is not protected by ESE lightning arresters provided for the solar plant, separate lightning protection shall be considered for the same as illustrated in this section.	If any building is not protected by ESE lightning arresters provided for the solar plant, separate lightning protection shall be considered for the same as illustrated in this section. Conventional type lightning protection system shall be provided for each Buildings in line with applicable standards / rules/ regulations / tender specifications and ESE air terminals / CSE air terminal shall not be acceptable for Lightning protection of any building. This clause supersedes all other clauses mentioned in the tender for building lightning protection system.				
17.	VOLUME - II PART - 3 (Schedule - III C)	4.3	Sheet 14 of 104	The earthing conductor shall be sized for a life of 25 years under the corrosive conditions of site. Conductor shall comply to galvanization requirement mentioned in project information section.	The earthing conductor shall be sized for a life of 25 years under the corrosive conditions of site. Conductor shall comply to galvanization requirement mentioned in project information section. No Negative Tolerances shall be considered for final sizes of all items used for Earthing and Lightning system.				
18.	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.	3. All Power Cables (size above 50 sq. mm) are to be laid with minimum spacing of 2D between the cable's edges (and NOT centre to centre of cables). "D" is diameter to cable.				
19.	VOLUME - II PART - 3 (Schedule - IV to VI)	1.0 Approved Vendor List	Sheet 5 of 35	10. L T Switchgear Panel, Control Panel, ACDB, DCDB, Annunciation Panel	10. L T Switchgear Panel, Control Panel, ACDB, DCDB, Annunciation Panel 1. L&T 2. ABB 3. Siemens 4. Legrand 5. GE 6. Schneider 7. Trisquare 8. Technocraft 9. Sterling 10. Ohm energy management system private limited (Chennai) 11. Battery Charger OEM (for DCDB only)				



Sr. No.	Volume/Section	Clause No.	Page No.	Existing Term		Amended Term	
20.	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 Prevectoron 10. Nimbus 11. Dmsgi	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 Prevectoron 10. Nimbus 11. Dmsgi 12. MANAV Energy PVT. LTD.
21.	VOLUME - II PART -1 (Schedule - I and 2)	1.3 GENERAL REQUIREMENTS	Sheet 5 of 17	1.3.10 Redundant Auxiliary power system to be provided for all the system except ICOG system.		1.3.10 Redundant Auxiliary power system to be provided for all the system except ICOG ICR system.	