

Tender Amendment/ Clarification Document

Date: 13th March, 2023

Ref.: GIPCL/RE Park/PSS-2

To,
Prospective Bidder(s),

Sub: Amendments/ Clarifications to "Tender Enquiry Document for Pooling Substation 400/33 kV, 1200 MW (PSS-2) of Solar / Wind / Hybrid RE Park of 2375 MW Capacity at Great Rann of Kutch Area, Gujarat."

Ref.: Tender Enquiry Document No. GIPCL/RE Park/PSS-2, dated 16th February 2023.

- (1) GIPCL has floated the Tender Enquiry Document for Pooling Substation 400/33 kV, 1200 MW (PSS-2) of Solar / Wind / Hybrid RE Park of 2375 MW Capacity at Great Rann of Kutch Area, Gujarat (GIPCL/RE Park/PSS-2).
- (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 & IT)

Enclosed:

1. Attachment-1 (Amendment-1)
2. Attachment-2 (Consolidated Response to Bidders Queries)



Attachment-1 (Amendment-1)

Date: 13.03.2023

IMPORTANT NOTE

Amendment / Addendum / Clarification / Corrigendum issued herein shall form part of Tender Enquiry Document on 16th February 2023. All Bidders to please note that Amendment / Clarification 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/RE Park/PSS-2 published on 16th February 2023 will remain unchanged.



Amendment to the TED GIPCL/RE Park/PSS-2

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

Sl. No.	Volume/Section	Clause No.	Page No.	Original Term		Amended Term																	
1.	Vol I Sec 1 NIT_PSS_2_R2	TABLE A: IMPORTANT DATES- Sr. No. v	3 of 20	Online (e-tendering) Tender/Offer submission last date {This is mandatory}	16 th March, 2023 Time: 17:00 hours (IST) On n-procure portal for Bid Submission	Online (e-tendering) Tender/Offer submission last date {This is mandatory}	23rd March, 2023 Time: 17:00 hours (IST) On n-procure portal for Bid Submission																
2.	Vol I Sec 1 NIT_PSS_2_R2	TABLE A: IMPORTANT DATES- Sr. No. vi	4 of 20	Physical receipt of Bid with all the relevant documents last date (By RPAD or Speed Post or By Personal Messenger) {This is mandatory}	17 th March, 2023 Time: 17:00 hours (IST) Venue: GIPCL Corporate Office, PO: Ranoli - 391 350, Dist. Vadodara.	Physical receipt of Bid with all the relevant documents last date (By RPAD or Speed Post or By Personal Messenger) {This is mandatory}	24th March, 2023 Time: 17:00 hours (IST) Venue: GIPCL Corporate Office, PO: Ranoli - 391 350, Dist. Vadodara.																
3.	Vol I Sec 6 ECC_PSS_2_R2	3.1	5 of 27	The Contractor shall comply with all the rules and regulations of local authorities during the performance of his field activities. He shall also comply with various applicable labour laws like the Factories Act, the Minimum Wages Act. 1948, Payment of Wages Act and Contractor Labour (Regulation and Abolition Act), ESI Act, the Workman's compensation act, EPF Act, or any other law and the rules made there under in respect of any employee or workman employed or engaged by him or his sub-Contractor and all other statutory requirements as amended from time to time to the entire satisfaction of Central/State Govt. Authorities, shall be the responsibility of the Contractor and he shall have to make good loss, if any, suffered by GIPCL on account of default in this regard by the Contractor. Bidder shall consider BOCW cess only on the Civil & Erection works as per the BOCW Act.		The Contractor shall comply with all the rules and regulations of local authorities during the performance of his field activities. He shall also comply with various applicable labour laws like the Factories Act, the Minimum Wages Act. 1948, Payment of Wages Act and Contractor Labour (Regulation and Abolition Act), ESI Act, the Workman's compensation act, EPF Act, or any other law and the rules made there under in respect of any employee or workman employed or engaged by him or his sub-Contractor and all other statutory requirements as amended from time to time to the entire satisfaction of Central/State Govt. Authorities, shall be the responsibility of the Contractor and he shall have to make good loss, if any, suffered by GIPCL on account of default in this regard by the Contractor. Bidder shall consider BOCW cess only on the Civil & Erection works as per the BOCW Act.																	
4.	Vol II Sec-1-GTS_PSS 2	Annexure – A 2.7.0	19 of 73	South West Corner- 24.05846 N, 69.608969 E North West Corner- 24.060058 N,69.608977 E North East Corner- 24.060053 N, 69.610295 E South East Corner- 24.058455 N,69.610267 E		The indicative Coordinates of PSS-2 are as follows: South West Corner - 24° 6'4.64"N, 69°36'41.39"E North West Corner - 24° 6'10.98"N, 69°36'41.42"E North East Corner - 24° 6'10.96"N, 69°36'46.34"E South East Corner - 24° 6'4.62"N, 69°36'46.31"E																	
5.	Vol II Sec-1-GTS_PSS 2	Annexure - E	-	-		<table border="1"> <thead> <tr> <th>Sr</th> <th>Equipment</th> <th>Category</th> <th>Vendor</th> </tr> </thead> <tbody> <tr> <td>176</td> <td>DCDB, UPSDB</td> <td>B</td> <td>Same as LT Panels and LT Breaker</td> </tr> <tr> <td>177</td> <td>SF6 to Air Bushing</td> <td>A</td> <td>OEM's Makes/PGCIL approved vendors</td> </tr> <tr> <td>178</td> <td>Solid Porcelain</td> <td>B</td> <td>WS Industries (India) Ltd., Modern Insulators Ltd., Aditya Birla Insulators, CJI Porcelain Pvt. Ltd.</td> </tr> </tbody> </table>		Sr	Equipment	Category	Vendor	176	DCDB, UPSDB	B	Same as LT Panels and LT Breaker	177	SF6 to Air Bushing	A	OEM's Makes/PGCIL approved vendors	178	Solid Porcelain	B	WS Industries (India) Ltd., Modern Insulators Ltd., Aditya Birla Insulators, CJI Porcelain Pvt. Ltd.
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6.	Vol II Sec-2-1-DTS_DESIGN ASPECTS_PSS 2	4.1.0	7 of 13	33 kV Solar/Wind Switchgear, each of about 50 MW capacity is distributed in the Hybrid Park and are being provided by respective Solar/Wind Plant Developers. Power from Solar/Wind switchgear is transmitted to 33kV GIPCL Switchgears at Pooling Substation-2 by 33 kV Power Cables (including termination kit) by Solar/Wind Plant Developers. However, required cable trench shall be provided by PSS-2 bidder.	33 kV Solar/Wind Switchgear, each of about 50 MW capacity is distributed in the Hybrid Park and are being provided by respective Solar/Wind Plant Developers. Power from Solar/Wind switchgear is transmitted to 33kV GIPCL Switchgears at Pooling Substation-2 by 33 kV Power Cables (including termination kit) by Solar/Wind Plant Developers. However, required cable trench shall be provided by PSS-2 bidder up to two (02) meters from the PSS-2 boundary.
7.	Vol II Sec-2-2-DTS_STEP UP PT_PSS 2	10.0.0 Sr. No - 29	59 of 63	Lightning Impulse withstand level for winding. HV Side - 1300 kVp	Lightning Impulse withstand level for winding. HV Side - 1425 kVp
8.	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	22.2.0	24 of 28	h) Tests on complete assembled feeder bay 1) Dielectric voltage with stand I. Power frequency voltage test II. Lightening Impulse withstand voltage test III. Switching Impulse withstand voltage test IV. Partial discharge test	h) Tests on complete assembled feeder bay 1) Dielectric voltage with stand I. Power frequency voltage test II. Lightening Impulse withstand voltage test. III. Switching Impulse withstand voltage test. II. Partial discharge test
9.	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	22.1.0	23 of 28	Type Tests 1. Tests to verify the insulation level of the equipment and dielectric tests on auxiliary circuits. 2. Tests to prove the radio interference voltage (RIV) level (if applicable) 3. . . . 15. Corrosion test on earthing connections (if applicable)	Type Tests 1. Tests to verify the insulation level of the equipment and dielectric tests on auxiliary circuits. 2. Tests to prove the radio interference voltage (RIV) level (if applicable) 3. . . . 15. Corrosion test on earthing connections (if applicable) 16. Tests to prove Switching impulse withstand voltage 17. Tests to prove Lightning impulse withstand voltage
10.	Vol II Sec-2-15-DTS_LT SWITCHBOARDS_PSS 2	8.1.0	13 of 15	-	Following additional feeders to be provided, 1) For Rolling shutter(s) 2) Pressurize air system for cleaning of electrical equipment 3) Lighting Mast Loads (if applicable)
11.	Vol II Sec-2-20-Earthing_PSS 2	3.1.7	2 of 8	Earth fault current duration for conductor sizing: 1 sec	Earth fault current duration for conductor sizing: 3 sec
12.	FCE-1721125-EL-DWG-SLD-2100-008	-	-	-	Bidder to provide one each MCCB after output of FC1 and FC2 to respective discharge units (similar to MCCB7 and MCCB8). Interlocking requirement shall be finalised during detail engineering. Bidder shall also remove the short linking between FC1 & FCBC1 and FC2 & FCBC2.



13.	Vol II Sec-2-20-Earthing_PSS 2	3.0.0	1 of 8	-	30% Corrosion factor allowance as per IS 3043 shall be considered for earthing calculation.
14.	Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	2.2.0	1 of 28	The GIS shall have the following: a) One (01) Transmission Line bay: Double Bus-Double breaker scheme. . . f) Space for One (01) Future Bus Reactor Bay: Double Bus-Double breaker scheme. g) Space and arrangement for One (01) Future Switchable Line Reactor Bay for Transmission Line to KPS-II: h) High Speed Fast Acting GIS Bus Earth Switch for Bus-A and Bus-B i) GIS Bus LA to be provided only if required as per system study. j) Suitable GIS Bus adapter/interface modules (if applicable) shall be provided for bus extension. k) Any other GIS equipment/s or system configuration required for complying regulation shall be in bidder's scope.	The GIS shall have the following: a) One (01) Transmission Line bay: Double Bus-Double breaker scheme. . . f) Space for One (01) Future Bus Reactor Bay: Double Bus-Double breaker scheme. g) Space and arrangement for One (01) Future Switchable Line Reactor Bay for Transmission Line to KPS-II: g) High Speed Fast Acting GIS Bus Earth Switch for Bus-A and Bus-B h) GIS Bus LA to be provided only if required as per system study. i) Suitable GIS Bus adapter/interface modules (if applicable) shall be provided for bus extension. j) Any other GIS equipment/s or system configuration required for complying regulation shall be in bidder's scope.
15.	Vol II Sec-2-13-DTS_PEB_PSS 2	2.1	1 of 5	The scope of work shall include the following equipment. 04 nos. PEB for 08 nos. 33kV GIPCL switchgear in Pooling Substation-2	The scope of work shall include the following equipment. o 04 nos. PEB for 08 nos. 33kV GIPCL switchgear in Pooling Substation-2 o Any other PEB Building in the Pooling Substation-2 including but not limited to GIS Building, Security cabin, Roof of Control Room etc.
16.	Vol II Sec-2-26-CIVIL_PSS 2	9.19	20 of 38	Double skin insulated cladding shall be made of (0.6mm base metal thickness) colour pre-coated sheets. Confirm to ASTM 792 M grade 345Bwi minimum yield strength of 345 MPa Cold rolled steel with hot-dip metallic coating of Al- Zn alloy shall be used as substrate.....	Double skin insulated cladding shall be made of (The thickness of the inner-side and outer steel sheet except floor panel sheet shall be minimum 0.6 mm and 0.8 mm respectively. The outer bottom sheet shall be hot dip galvanized steel sheet of minimum 1.0 mm thickness to avoid rusting at bottom.) colour pre-coated sheets. Confirm to ASTM 792 M grade 345Bwi minimum yield strength of 345 MPa Cold rolled steel with hot-dip metallic coating of Al- Zn alloy shall be used as substrate.....
17.	Vol II Sec-2-27-DTS_CCMS INTEGRATION_PSS 2	1.1.0	1 of 73	The CCMS shall be supplied and designed to comply with CERC, CEA regulations (mentioned in clause number 3.9.0 of Vol II Section 2.1) And any other applicable standard/regulations, Connectivity and General Network Access (GNA), MNRE guidelines/OM/Advisory/Clarifications, amendments from time to time for compliance. Following are the minimum points for compliance by the bidder. I. First time charging (FTC) Clearance, fulfilling all technical requirements, required reports, required documents, PPC Generic model data in required format, gird compliance study/CCMS modelling (if required), compliance to queries etc. II. CCMS shall be designed to comply/fulfil response/action time as required by RLDC/SLDC/POSOCO/CTUIL, etc. for remote monitoring, controlling and protection of PSS-2 substation.	The CCMS shall be supplied and designed to comply with CERC, CEA regulations (mentioned in clause number 3.10.0 of Vol II Sec-2-1-DTS_DESIGN ASPECTS_PSS 2) And any other applicable standard/regulations, Connectivity and General Network Access (GNA), MNRE guidelines/OM/Advisory/Clarifications, amendments from time to time for compliance. Following are the minimum points for compliance by the bidder. I. First time charging (FTC) Clearance, fulfilling all technical requirements, required reports, required documents, PPC Generic model data in required format, gird compliance study/CCMS modelling (if required), compliance to queries etc. II. CCMS shall be designed to comply/fulfil response/action time as required by RLDC/SLDC/POSOCO/CTUIL, etc. for remote monitoring, controlling and protection of PSS-2 substation. III. Interfacing of CCMS with CTUIL KPS II communication system as per CTUIL requirement for Tele protection, data and speech in each direction. IV. Site testing for RLDC/POSOCO for grid compliance. V. All equipment, materials and services whether explicitly stated in Technical Specifications or otherwise and that are necessary for the successful commissioning of CCMS of PSS-2 substation as per latest statutory



				<p>III. Interfacing of CCMS with CTUIL KPS II communication system as per CTUIL requirement for Tele protection, data and speech in each direction.</p> <p>IV. Site testing for RLDC/POSOCO for grid compliance.</p> <p>V. All equipment, materials and services whether explicitly stated in Technical Specifications or otherwise and that are necessary for the successful commissioning of CCMS of PSS-2 substation as per latest statutory regulations/procedures issued by bodies like CERC, CEA, RLDC/NLDC, CTU, MNRE, other Ministry etc shall be deemed to be included in the scope of work of the Bidder.</p>	<p>regulations/procedures issued by bodies like CERC, CEA, RLDC/NLDC, CTU, MNRE, other Ministry etc shall be deemed to be included in the scope of work of the Bidder.</p>
18.	Vol II Sec-2-32-DTS_CCTV_PSS 2	5.3.0	9 of 15	<p>Configuration of Operating stations shall be same as specified below with 29" sized LED monitors.....</p>	<p>Configuration of Operating stations shall be same as specified below with 64" sized LED monitors/Video Screen.....</p>