

REPLIES TO PRE BID QUERIES LOT 3 DATED 12.08.2022
NIT NO : PNMM/PC 183/E 4017/NCB Dated 20.06.2022
SUB-GRID CONNECTIVITY TO TFL TO SUPPLY 90 MW POWER AND CONSTRUCTION OF 220 KV LILO GIS AT TALCHER FERTILIZERS LTD

REFERENCE OF TENDER DOCUMENT						Bidders Query	PMC Reply							
Sl.No	SECTION NO.	PAGE NO	CLAUSE NO	SUBJECT	Description as in Tender Specification									
1	Section II	14 of 1622	Clause No. 1 (A.3)	BID EVALUATION CRITERIA (BEC)	The bidder must submit a MOU (Memorandum of Understanding) with one or more of approved GIS OEM's as listed above.	1. As per Section II, Bid Evaluation Criteria, A.3, a Non OEM bidder must submit a MOU along with legally enforceable undertaking with approved GIS Manufacturer. However in the tender document, we did not find any format for this MOU. Request you to kindly share the same.	The MOU is an agreement based on the mutual understanding between the Bidder and the OEM. Further during bid evaluation period, the said MOU will be evaluated by PDIL, PTC & TFL for conformance to the RFP.							
2	Section I : IFB	9 of 1622	Clause No. 2 (K)	BID SUBMISSION / CLOSING DATE	Bid Submission Date: 20.07.2022 at 15:00 Hrs (IST) Bid Closing Date: 03.08.2022 at 15:00 Hrs. (IST) With reference to Amendment-II, Dated 25/07/2022; Bid submission date 08/08/2022 at 15:00 Hrs. Bid closing date 22/08/2022 at 15:00 Hrs.	We have already initiated preparation work & are doing the site visit, however due to festival season we would need additional time for receiving quotations from vendors. In lieu of this, we request you to kindly extend the due date by 3 weeks ie. 12th Sept.	Shall be as NIT							
3	Section-II	19 of 1622	F	(F) Authentication of documents submitted against BEC	All documents in support of "Technical Criteria" of Bid Evaluation Criteria (BEC) furnished by the bidders shall be verified and certified by any one of the following independent third party inspection agency (as per prescribed format). Further, TPIA will provide in addition a certificate toward verification and certification of documents pertaining to Technical Bid Evaluation Criteria (BEC) as per prescribed proforma and the same will be submitted by bidder in their bid.	If any bidder submitted BEC documents with authentication from one of these Third Party inspection agency for recent TFL Tender and became successful bidder and received the order for similar type of tender and he wish to produce same BEC documents for this tender, Then we understand that there is no need to do Re-authentication of documents from one of these Third Party agency. Further, we understand that Bidder can submit old authenticated documents for BEC. Please confirm our understanding.	Refer Replies to Pre Bid Query Lot-2 (Sl. No -39)							
4	Section VI	402 of 1622	1.4	TECHNICAL SPECIFICATION FOR 220kV SF6 GAS INSULATEDMETAL ENCLOSED SWITCHGEAR	Ambient temperature 50°C	At 50 Deg C., the rated current shall be derated to below values. 1. busbar : 2500A & 2. switchgear : 2500 A.	Provision of Tender Document shall prevail							
5	Section VI	404 of 1622	4.3	GENERAL DESIGN AND SAFETY REQUIREMENT	The switchgear, which shall be of modular design, shall have complete phase segregation.	Busbar is of three phase encapsulated design and the switchgear is of single phase encapsulated design. Request you to kindly accept the same.	Bidder's request in this regard may be accepted.							
6	Section VI	404 of 1622	4.4	GENERAL DESIGN AND SAFETY REQUIREMENT	whenever the pressure of the adjacent gas compartment is reduced during maintenance, this compartment shall be designed so that it shall remain in service to perform its intended duty.	The same facility is not possible to provide. Thus request you to kindly accept the same.	Provision of Tender Document shall prevail							
7	Section VI	404 of 1622	4.4	GENERAL DESIGN AND SAFETY REQUIREMENT	The bus enclosure should be sectionalized in a manner that maintenance work on any bus disconnector (when bus and bus disconnector are enclosed in a single/three enclosure) can be carried out by isolating and evacuating the small effected section and not the entire bus.	We confirm that busbar and bus disconnector shall be in different compartments. However, we shall offer passive busbar without any gas segregation in busbar. It shall be a continuous busbar as a single compartment without any switching device in it. request you to kindly accept the same.	Provision of Tender Document shall prevail							
8	Section VI	405 of 1622	4.5	GENERAL DESIGN AND SAFETY REQUIREMENT	The material and thickness of the enclosures shall be such as to withstand an internal flash over without burn through for a period of 300ms at rated short time withstand current.	We shall provide the burn through time in line with IEC 62271-203. Table enclosed for reference. <table border="1" style="display: inline-table; margin-left: auto; margin-right: auto;"> <tr> <td rowspan="2">240 kV r.m.s.</td> <td>1</td> <td>0.1 s</td> <td>No arstrial effect other than the operation of suitable pressure relief devices</td> </tr> <tr> <td>2</td> <td><0.3 s</td> <td>No fragmentation (burn-through is acceptable)</td> </tr> </table>	240 kV r.m.s.	1	0.1 s	No arstrial effect other than the operation of suitable pressure relief devices	2	<0.3 s	No fragmentation (burn-through is acceptable)	Provision of Tender Document shall prevail
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9	Section VI	406 of 1622	4.9	GENERAL DESIGN AND SAFETY REQUIREMENT	In case the leakage under the specified conditions is found to be greater than 0.5% after one year of commissioning, the manufacturer will have to additional warrantee for FIVE years.	we request to kindly not relate the warranty with the leakage rate. If leakage is found greater than the expected value then the additional gas required for filling shall be supplied. Request your kind acceptance.	The clause may be read as, "In case the leakage under the specified conditions is found to be greater than 0.5% after one year of commissioning, the manufacturer will have to supply free of cost, the total gas requirement for subsequent ten (10) years, based on actual leakage observed during the first year of operation after commissioning."							
10	Section VI	407 of 1622	4.24	GENERAL DESIGN AND SAFETY REQUIREMENT	The ladders and walkways shall be provided wherever necessary for access to the equipment.	One qty. A type ladder shall be supplied. That should suffice the requirement of the height.	Provision of Tender Document shall prevail.							
11	Section VI	407 of 1622	4.27 ii)	Gas Insulating System	Any other alarm necessary to indicate deterioration of the gas insulating system.	The same facility is not possible to provide. Thus request you to kindly accept the same.	Provision of Tender Document shall prevail							
12	Section VI	408 of 1622	4.34	Grounding:	Grounding:	Excluded from GIS OEM scope of supply.	Provision of Tender Document shall prevail							
13	Section VI	409 of 1622	4.35	Gas Insulated Bus (GIB) layout:	Gas Insulated Bus (GIB) layout:	The GIS layout shall be as per manufacturer's standard design and norma practise used for all the previous supplies. Request you to kindly accept the same.	Provision of Tender Document shall prevail							
14	Section VI	410 of 1622	4.36	Extension of GIS:	Extension of GIS:	We request you to kindly clairy on which side the future extension is envisaged. Secodnly, we do not envisage useage of isolating link or future extension module for the same. For future extension one busbar and the adjacent bay shall be kept in service without usgae of any manual isolating link module. Thus request you to kindly confirm the same.	The side of Future Extension shall be decided during Detailed Design Engineering and finalization of the Layout. Further, for the second query, the provision of Tender Document shall prevail							
15	Section VI	413 of 1622	5.6.4		The breaker should be able to withstand all dielectric stresses imposed on it in open condition at lockout pressure continuously	The breaker is tested for 15 minutes for this test. Request your kind acceptance.	Provision of Tender Document shall prevail							
16	Section VI	413 of 1622	5.7 a)	Operating mechanism	The mechanism shall be housed in a dust proof cubicle and shall have IP: 45 degree of protection.	The degree of protection shall be IP 43 for indoor installation of GIS. We have supplied the same in all our previous supplies. Request you to kindly accept the same.	Bidder's request in this regard may be accepted.							
17	Section VI	416 of 1622	17	TECHNICAL PARAMETERS FOR CIRCUIT BREAKER	Full wave impulse withstand (1.2 /50 µs) between terminals with circuit breaker open : 1050+206 kVp One minute power frequency withstand voltage between terminals with circuit breaker open : 460+145kV rms At rated breaking capacity 21	The Bil of the breaker shall be as per the values specified in IEC 62271-100.	Bidders are requested to follow as per IEC 62271-203, Table 102							
18	Section VI	417 of 1622	19	TECHNICAL PARAMETERS FOR CIRCUIT BREAKER	At rated breaking capacity 21	The maximum number of operation at rated breaking capacity are 9 for the 50 KA 245 kV CB. Request you to kindly accept the same.	Provision of Tender Document shall prevail.							
19	Section VI	417 of 1622	6.2.2	Construction & Design	Disconnectors shall be suitable to switch the bus charging currents during their opening and closing and shall confirm to viz TD1 and TD3 as per Annexure F of IEC: 62271-103	The bus charging sequence is not applicable for disconnectors below 300 kV. Thus the same test shall not be provided.	Bidders are requested to follow as per IEC 62271-102, Annexure-F							
20	Section VI	418 of 1622	6.2.12	Construction & Design	The Disconnectors and safety grounding switches shall have a mechanical and electrical interlocks to prevent closing of the grounding switches when isolator switches are in the closed position	There shall be only electrical interlock between the two. Thus, the same shall be provided. For mechanical interlocking we shall provide padlocking facility.	Provision of Tender Document shall prevail.							
21	Section VI	419 of 1622	7.2	SAFETY GROUNDING SWITCHES	Safety grounding switch shall also be mechanically key interlocked with its associated Disconnectors.	There shall be only electrical interlock between the two. Thus, the same shall be provided. For mechanical interlocking we shall provide padlocking facility.	Provision of Tender Document shall prevail.							
22	Section VI	424 of 1622	II	220 kV CURRENT TRANSFORMER FOR TRANSFORMER BAY	2 TRAFO- Ct parameters 240-120-60/1 A	Kindly note that because of design limitations, we cannot provide the CT parameters below 100/1. Thus, we shall be able to provide the CT ratio of 240-120/1. Request your kind acceptance.	Provision of Tender Document shall prevail.							
23	Section VI	427 of 1622	10	SURGE ARRESTORS	SURGE ARRESTORS	Not applicable for the said tender	GIS type SAs are not envisaged							
24	Section VI	431 of 1622	12	SF6 GIS TO XLPE CABLE TERMINATION	SF6 GIS TO XLPE CABLE TERMINATION:	Not applicable for the said tender	220kV XLPE Cable Termination to SF6 GIS is in Bidder's Scope at 220/33kV MRSS end. Provision of Tender Document shall prevail.							
25	Section VI	432 of 1622	13.2.1	Constructional features	Local Control cubicle shall be free standing, floor mounting type	we propose bay mounted LCC which is equally suitable to use and is also a space saving option. Kindly confirm if we can consider the same.	Provision of Tender Document shall prevail.							
26	Section VI	433 of 1622	13.2.10	Constructional features	Electrical bolt interlocks shall be energized only when the operating handle of the mechanism is brought to the working position	electrical bolt interlock is not applicable for the 220 kV GIS level. We shall provide padlocking facility for the drives. Request your kind acceptance.	Provision of Tender Document shall prevail.							
27	Section VI	434 of 1622	14	ELECTRIC OVERHEAD TRAVELLING CRANE :	ELECTRIC OVERHEAD TRAVELLING CRANE :	Excluded from GIS OEM scope of supply.	Provisions of Tender Document in this regard are amply clear and same shall prevail.							
28	Section VI	436 of 1622	16.7 f)	Insulation Coordination studies	Insulation Coordination studies including studies to recommend for additional surge arrester.	Excluded from GIS OEM scope of supply.	Provisions of Tender Document in this regard are amply clear and same shall prevail.							
29	Section VI	437 of 1622	17	TYPE TESTS	The type test report shall not be older than 7 years from the date of bid opening.	The type test reports of GIS are valid for 15 years as per the latest CEA guidelines. And we shall comply to the same. We shall provide the already carried out type tests for your review. Request your kind acceptance.	Bidders are requested to refer Amendment No. IV Dt. 08.08.2022 in this regard							
30	Section VI	438 of 1622	19	TRANSPORT OF EQUIPMENT TO SITE	All transport packages containing critical units viz, Circuit breakers and Voltage transformers shall be provided with sufficient number of electronic impact recorders	Shock indicators shall be provided only for VT and Surge arrester. For other equipments, requirement of shock indicators is not envisaged as per manufacturer's design. The same philosophy is adapted and proven in previously executed projects.	Provisions of Tender Document in this regard are amply clear and same shall prevail.							

31	Section VI	442 of 1622	23	TESTING & MAINTENANCE EQUIPMENT	TESTING & MAINTENANCE EQUIPMENT: SF6 Gas leakage detector. Gas filling and evacuating plant : SF6 gas analyser: Portable Partial Discharge (PD) monitoring system:	Excluded from GIS OEM scope of supply.	Provisions of Tender Document in this regard are amply clear and same shall prevail.
32	Section VI	444 of 1622	24.1	Training at Manufacturer's works	The travelling, lodging, boarding & visa arrangement including all expenses shall be made by the successful Agency for the above training.	The travelling, lodging, boarding & visa arrangement including all expenses shall be excluded from GIS OEM scope of supply.	Provisions of Tender Document in this regard are amply clear and same shall prevail.
33	Section VI	1616 of 1622	SLD	SLD	VT with disconnector	Bus bar measuring VT shall be provided with inbuilt manual isolating link. The same is sufficient to use during the isolation. Request your kind acceptance.	Provisions of Tender Document in this regard are amply clear and same shall prevail.
34	Section VI	1587 of 1622	2.01	BOQ	2.01high speed fault making motorised grounding switch	HSES is asked for in the BOQ in transformer bay. However the same is not shown in the SLD. We do not envisage the need of HSES in trafo bay, Thus we shall provide the regular Maintenance earth switch, request you to kindly confirm the same.	Bidders are requested to refer the Single Line Diagram and Protection SLD issued along with the Tender Document in this regard
35	Section VI	1587 of 1622	2.05	BOQ	245kV, 3150A, 50kA, 3 sec, single phase, SF6 gas Insulated Bus Duct outside GIS Hall	i. we understand that the bus duct qty. is a single phase qty. ii. Secondly, the bus duct outside the hall are asked for. However, for inside the hall we shall include the same in the bay prices. Request you to kindly confirm.	i. Bidder's understanding in this regard is correct. ii. Bidder's understanding in this regard is correct.
36	Section VI	1588 of 1622	2.07	BOQ	Portable Partial Discharge(PD) monitoring system: 245kV system shall have Portable Partial Discharge(PD) monitoring system & shall be capable for measuring PD in charged GIS environment ,bandwidth in order of 100 MHz-2GHz & provision to select a wide range of intermediate bandwidths and the principle of operation shall be based on UHF principle of detection. The Detection and measurement of PD and bouncing particles having in built large coloured LCD for displaying and storing facility in the instrument for further analysis to locate actual source of PD such as free conducting particles, floating components, voids in spacers, particle on spacer surfaces etc.	partial discharge sensors shall be provided with the bay. The monitoring kit shall be excluded from GIS OEM scope.	Provisions of Tender Document in this regard are amply clear and same shall prevail.