SYAMA PRASAD MOOKERJEE PORT, KOLKATA

HALDIA DOCK COMPLEX

Tender No. : SDM(P&E)/T/4/2021-2022

for

Supply, Installation, Testing and Commissioning of 3.3 kV HT Panel, 415 Volt LT Panels, 3.3 / 0.433 kV Transformers, 3.3 kV grade HT & 1.1 kV grade LT cabling work and other allied works for augmentation of Lock Sub-Station at Lock Entrance of Haldia Dock Complex, SMP, Kolkata.

ADDENDUM - I

CORRECTIONS / ADDITIONS / DELETIONS, ETC.

[Total Number of Pages : 4]

NOTE :

1. This "Addendum-I" should be read in conjunction with Bidding Document (including Notice Inviting e-Tender)..
2. Consequential changes, arising out of this Addendum-I, will be deemed to have been effected, even if the same were not incorporated specifically in the Bidding Document.
3. All other terms and conditions of the Bidding Document (including Notice Inviting e-Tender) will remain unchanged.
4. One set of this '**Addendum-I**' and clarifications against Pre-bid queries should be submitted along with the techno-commercial offer, duly signed and stamped, on each and every page, as token of acceptance.

MILAN MAJI

Digitally signed by MILAN MAJI
Date: 2021.08.06 17:26:03 IST

Addendum -I

Tender No. : SDM(P&E)/T/4/2021-2022

Sl. No	Page No.	Clause No.	As specified in the Bidding Document	To be read as / Remarks
1	**5**	**2.2A**		**<u>To Add</u>** : e) Bid security declaration (as per given format in the tender document).
2	**10**	**4.2.2**	E-tender cannot be accessed after the due date and time mentioned in NIT. The process involves Electronic Bidding for submission of Tender Document Fee and EMD, Techno- Commercial Bid as well as Price Bid.	E-tender cannot be accessed after the due date and time mentioned in NIT. The process involves Electronic Bidding for submission of Tender Document Fee and Bid Security Declaration, Techno- Commercial Bid as well as Price Bid.
3	**22, 23 & 28**	**5.22.3 (2nd line), 5.24.2 (3rd line) & 5.38.2 (4th line)**	Forfeiture of EMD.	Disqualification from bidding for any contract with Syama Prasad Mookerjee Port, Kolkata, for a period of three years from the date of notification.
4	**30**	29	All the HT Panel connected at various locations in the lock gate to be integrated to SCADA	All the HT Panels, Transformers and Incomer & Bus Coupler feeder of LT Panels shall be integrated to SCADA system for operation, control and condition monitoring.
	37	g	All the HT & LT Panels connected at various locations in the lock gate to be integrated to SCADA.	
5	44	Clause No. 3.0 (xvi)	Short time ratings and insulation level of CT's shall be similar to rating of associated breaker.	Short time ratings and insulation level of CT's shall be similar to rating of associated breaker but duration shall be for 1 sec.

6	44	Clause No. 3.0 (xvii)	High voltage side of PTs shall have fuses and MCCB's on low voltage side.	High voltage side of PTs shall have fuses and MCCBs / MCBs on low voltage side.
7	49	Clause No. 3.0 (ix)	Epoxy cast resin CTs with 15VA burden, STR of 26.3 KA for 1 sec., metering accuracy class 0.5 and protection accuracy 5P20/PS and having of CTR 1250-800/5-5-5A.	Epoxy cast resin CTs with 15VA burden, STR of 26.3 KA for 1 sec., metering accuracy class 0.5 and protection accuracy 5P20 and having CTR of 1250- 800/1-1 A. The CTR, mentioned here is indicative for estimate purpose only. However, actual CTR will be finalized during detail engineering based on the load at site.
8	49 & 51	Clause No. 3.0 (x)/ Page No. 49 & Clause No. 3.0 (xxxii)/ Page No. 51	The Trivector meters shall be digital type of approved make and it should display Amps,Volts, KVA, KW, KWHr, KVAR, PF and MD etc. The meter shall provide with external port for remote monitoring.	Clause to be considered as **DELETED**.
9	49	Clause No.3.0 (xv)	Numerical relays consist of IDMTL + Inst 3 O/C + Inst E/F relay + REF VAX – 31 Trip circuit supervision. VAJH – 23 master trip. All relays shall be SCADA enabled with event/data logging features.	Numerical relays consist of IDMTL + Inst 3 O/C + Inst E/F relay VAX – 31 Trip circuit supervision. VAJH – 23 master trip. All relays shall be SCADA enabled with event/data logging features.
10	51	xxxi)	Epoxy cast resin CTs with 15VA burden, STR of 26.3 KA for 1 sec., metering accuracy class 0.5 and protection accuracy 5P20/PS and having of CTR 630-400/5-5-5A.	Epoxy cast resin CTs with 15VA burden, STR of 26.3 KA for 1 sec., metering accuracy class 0.5 and protection accuracy 5P20 and having CTR of 630- 400/1-1 A. The CTR, mentioned here is indicative for estimate purpose only. However, actual CTR will be finalized during detail engineering based on the load at site.
11	51	Outgoing Feeder (without PT)	Epoxy cast resin CTs with 15VA burden, STR of 26.3 KA for 1 sec., metering accuracy class 0.6 and protection accuracy 5P20/PS and having of CTR 630-400/5-5-5A.	Epoxy cast resin CTs with 15VA burden, STR of 26.3 KA for 1 sec., metering accuracy class 0.5 and protection accuracy 5P20 and having CTR of 630-400/1-1A. The CTR, mentioned here is indicative for estimate purpose only. However, actual CTR will be finalized during detail engineering based on the load at site.
12	49 & 50	Incoming feeder	Epoxy cast resin CTs with 15VA burden, STR of 26.3KA for 1 sec., metering accuracy class 0.5 and protection accuracy 5P20/PS and having of CTR 400-	Epoxy cast resin CTs with 15VA burden, STR of 26.3 KA for 1 sec., metering accuracy class 0.5 and protection accuracy 5P20 and having CTR of 400-200/1-1A. The CTR,

		(Generator)	200/5-5-5A.	mentioned here is indicative for estimate purpose only. However, actual CTR will be finalized during detail engineering based on the load at site.
13	52	Outgoing Feeder (Motor)	Epoxy cast resin CTs with 15VA burden, STR of 26.3KA for 1 sec., metering accuracy class 0.5 and protection accuracy 5P20/PS and having of CTR 400-200/5-5-5A.	Epoxy cast resin CTs with 15VA burden, STR of 26.3 KA for 1 sec., metering accuracy class 0.5 and protection accuracy 5P20/PS and having CTR of 400-200/1-1A. The CTR, mentioned here is indicative for estimate purpose only. However, actual CTR will be finalized during detail engineering based on the load at site.
14	65			1000 KVA, 3.3 / 0.433 KV Distribution transformer **<u>To Add</u>** : Sl no. 32 Total Losses at 100% Load - 7.7 KW (Max.) at level 2 Total Losses at 50% Load – 2.59 KW (Max.) at level 2
15	89 to 91	Clause no. 13	LIST OF APPROVED MAKES	LIST OF PREFFERED MAKES **<u>To Add</u>** : Bidders shall submit makers list for all major items [VCB Panel, Transformer, Cables, Jointing kits, LT Panel, SCADA, FPB, APFC Panel, Battery& Battery charger, GI pipes, Cement etc.] during submission of Techno-Commercial bid. In case bidders fails to submit the list, it would be presumed that the bidder would strictly adhere to the preferred makes as indicated in the tender. After placement of LOA, successful bidder shall be required to comply the following during engineering stage of the project:- Any new make, other than preferred make mentioned in the tender, may be accepted by the engineer, if the same meets the following criteria:- a) Shall meet technical specification of the tender. b) Shall be from OEM [original equipment manufacturer].

				c) Shall submit at least 3 Nos. Work order and performance certificate from Central Govt./ State Govt./ PSU/other reputed organisation for offered equipment. d) Shall have valid type test certificates for the offered equipment from CPRI /ERDA /ERTL /Gov. Labs. In case, the new make offered by the bidder does not meets above mentioned criteria, the bidder should be required to adhere to the preferred make list of the tender.
16	127	11.17 (SCC) 3rd line	10 % of the contract value excluding GST	**3 %** of the contract value excluding GST

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Queries of different firms in connection with the pre-bid meeting held on 26.07.2021 and clarifications of HDC, SMP, Kolkata thereof.

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
1	Clause no. 2.2.A / Page no.5	Power of Attorney	Please confirm should we submit General Power of Attorney or there have any format of the same. If available please provide us the same.	Bidders may submit standard Power of Attorney as per their policy in line with clause no. 5.4
2	Clause No. g), Page No. 37		Please, clarify whether all the HT & LT panels are to be integrated with the SCADA server and if monitoring as well ae control options are required for LT panels or not.	Please see Addendum-I.
3	Clause No. 3.0 (ii) / Page No. 38 & Clause No. C (iii)/ Page No. 77	Painting	Any painting inside instrument chamber on Alu Zinc is not possible.	Ali Zinc members do not require any painting.
		The paint shade shall be RAL9003	RAL9003 is a non standard paint, therefore requesting to accept RAL7032	Tender condition will prevail.
4	Clause No. 3.0 (iii) / Page No. 39	HT Switchgear Panel shall be type tested for Internal Arc 26.3 kA / 1 Second.	Please accept internal arc of 25 KA for 1 sec	Tender condition will prevail.
5	Clause No.: 3.0 (xi) / Page No. 41	Design ambient temperature shall be 50^0C.	Please accept design ambient temperature as 45^0C to avoid unwanted derating.	Tender condition will prevail.
6	Clause No. 3.0 (xvii) / Page	High voltage side of PTs shall have fuses and	Please consider MCB on the low voltage side of PT.	Please see Addendum-I.

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
	No. 44	MCCB's on low voltage side.		
7	Clause No. 3.0 (xvi) / Page No. 44, & Clause No. 3.0 (ix) /Page No. 49	Short time ratings and insulation level of CT's shall be similar to rating of associated breaker.	Relay operating time will be in mili second and therefore requesting to consider STC of the CTs should be same as Panel but duration will be 1 sec instead of 3 secs.	Please see Addendum-I
8	Clause No. 3.0 (xxvi) / Page No. 47,	Continuous earth bus of minimum size 50x6 mm of copper or equivalent aluminum/galvanized steel section, designed to carry the peak short circuit and short time fault current as specified.	Please note size of the earth bus will be depending on the type tested design of the manufacturer.	Size of the earth bus as per manufacturer's proven design subject to acceptance by Engineer of the Contract.
9	Clause no. 3.0 (ix) / Page No. 49	CTR 1250- 800/5-5-5A	This is absolutely a non standard CT our proposed CTR will be 1600 – 800/5 – 5 – 5A. Logic of third core is not given though we believe it is for differential protection. Can we consider all CT secondary as 1 Amps instead of 5 Amps.	Please see Addendum-I.
10	Clause no. 3.0 (xv) / Page No. 49	Numerical relays consist of IDMTL + Inst 3 O/C + Inst E/F relay+REF. VAX–31 Trip circuit supervision. VAJH – 23 master trip. All relays shall be SCADA enabled with event/data logging features.	Trip circuit supervision relay is a inbuilt feature of the main protection relay. Please confirm whether separate VAX-32 relay is additionally required.	Please see Addendum-I.

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
11	Clause no. 3.0 x) & xi) / Page No. 49 and Clause no. xxxii & xxxiii) / Page No. 51	Trivector meter and Multifunction Meter.	Please confirm whether both the meters are required	Please see Addendum-I.
12	Clause no. 3.0 / Page No. 49 & Page No. 51	**Outgoing Feeder (without PT) :** CTR 630-400/5-5-5A & Accuracy Class-0.6	This is non standard specification and our proposed CTR will be 800 – 400/5-5A. Logic of third core in CT secondary is not understood. Accuracy class for the metering core CT will be 0.5	Please see Addendum-I.
13	Clause no. xxxi) / Page no. 51	Epoxy cast resin CTs with 15VA burden, STR of 26.3 KA for 1 sec., metering accuracy class 0.5 and protection accuracy 5P20/PS and having of CTR 630-400/5-5-5A.	This is non standard specification and our proposed CTR will be 800 – 400/5-5A. Logic of third core in CT secondary is not understood.	Please see Addendum-I.
14	Clause No 6.4 & 6.5 / Page No. 66	Design ambient temperature shall be 50^0C. Paint shade shall be RAL7035	Please accept design ambient temperature as 45^0C to avoid unwanted derating factor and paint shade as RAL7032	Tender condition will prevail.
15	Clause no. 13 / Page no. 90	List of Approved Makes.	Please consider / accept following similar type of reputed Vendor's / Manufacturer's in addition to your List of Approved Makes For Transformer : 1. M/s. Marsons Electrical Industries, AGRA 2. M/s. Toshiba Transmission & Distribution Systems (India) Pvt. Ltd.	Please see Addendum-I.

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
			3. M/.s. Tesla Transformers (India) Limited For VCB Panel & LT Panels 1. M/s. Pascal Switchcare India (P0 Ltd. 2. M/s. C&S Electric Ltd. 3. M/s. Stelmec Ltd. For Outedoor CT & PT: 1. M/s. Modern Electronics For Cable Straight Through Jt Kit/End Termination Kit 1. M/s. Cellpack BBC India Pvt. Ltd. 2. M/s. Yamuna Power (DENSON) For Capacitor Bank / Capacitor Panel/APFC 1. M/s. Shreem Electric Ltd. Kindly consider L&T make VCB panel as an approved make for subject tender.	
16	Clause no. 13 / Page no.90	List of Approved Makes.	Direct OEM take minimum 8/10 month time for LT panel delivery. This project total time is given 09 months for completion, Therefore kindly consider CPRI approved LT panel manufacturer as an approved vendor for subject tender.	Please see Addendum-I.
17	Clause no. 13 / Page no.89 & 90	Battery charger	Battery charger make is missing, only make list of battery is found. Please provide the same.	Any repute make is acceptable. However, the same has to be approved by the Engineer of the Contract.
18	BOQ (Sl. No. 21) / Page no. 146		No Separate items for supply & laying of Cable are available in scope of work/BOQ for Battery & Battery Charger. Please confirm the size of the	Size of cable shall be 2 C x 2.5 sq. mm. PVC Flexible copper cable 1.1 kv grade ISI marked (conforming to IS- 694).

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
			cable and in where we should consider the cost of the same.	Cost of the same may be considered under BOQ Item Sl. No. 21.
19	Page No. 191 System Architecture	Tentative System Architecture for sub-station control & monitoring.	Please confirm the distance between Non working zone – 3 Locations and PCC – 1 and if line of sight condition is available there. There shouldn't be any large obstacle between the two locations.	Sub-Stations / Switching Stations of Non working zone are not required to be integrated with SCADA System. Hence, wireless unit does not require. Prospective bidders may visit the site to have clear idea regarding location wise existing system before quoting their bid.
		ACB Communication	We understand that, ACB of all 6 location as per SLD shall communicate over Modbus RTU protocol. Kindly confirm the qty. of ACB devices at each location along with Manuals for considering communication Port in RTU	Quantity of ACB devices at each location has already mentioned in the Table-II (Page no. 34) for considering communication Port in RTU. However, actual quantity to be finalized by the contractor during detail engineering.
		MFM Communication	We understand that, MFM of all 6 location as per SLD shall communicate over Modbus RTU protocol. Kindly confirm the qty. of MFM devices at each location along with Manuals for considering communication Port in RTU.	Quantity of MFM devices at each location along with Manuals for considering communication Port in RTU shall be under the scope of the contractor and finalized by the contractor during detail engineering.
		Hardwire requirement	We understand that, Hardwired signals of all 6 location as per SLD shall communicate with RTU. Kindly confirm the qty. of Hardwired signals (no. of DI, DO and AI) of each location for considering Peripheral cards in RTU.	Quantity of Hardwired signals (no. of DI, DO and AI) of each location for considering Peripheral cards in RTU shall be under the scope of the contractor and finalized by the contractor during detail engineering.
		RTU Cum Gateway	We have proposed RTU based Gateway system at all 6 locations. Hardwired signals and MFM	Tender condition will prevail. The system should be flexible for future

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			signals will communicate with RTU as per SAS architecture. RTU of each location will communicate with HMI system located at CT-3 Extension Building over IEC-61850 Protocol. System has offered for local controlling and monitoring of substation signals offered system has not provision for communicate with any upper-level SCADA system.	upgradation i.e. it should be possible to add connectivity to upper SCADA / ECS with license upgradation without adding hardware to the system.
		Relay Communication	We understand that, all numerical relay of existing 11KV and 6.6 KV or other PCC boards shall communicate with SCADA system over IEC-6850 (Relay)	Tender condition will prevail.
		Network of Relay	We understand that, Network switches for connectivity of Numerical relay of existing switchboards are available in respective switchboards. Hence we have not considered Ethernet switch for Numerical relay. Hence we understand that, One set of communication cable shall connect with RTU panel Ethernet switch with switchboard Ethernet switch.	Supply of switchboard shall be under the scope of contractor. Switchboard shall be provided with Ethernet switch for connectivity of Numerical Relay. As such, no separate Ethernet switch shall be required for Numerical Relay.
		Network of MFM	We understand that, all MFM of respective switchboards shall be looped up to RTU panel.	Yes please.
20	Page no. 185 to 190	SLD	SLD for only PCC-1 is available, rest are missing. Please provide the SLD of remaining panel.	Tentative SLD for HT PCC-1, HT PDB-2A, HT PDB-2B, HT PDB-2C, PDB-3 & PCC-1 has already been attached with Tender Document. Those are for reference purpose only. However, the contractor will have to prepare detailed

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
				drawings and SLD based upon site conditions with relevant standards of the contract and submit for approval by Engineer of the Contract.