

SYAMA PRASAD MOOKERJEE PORT, KOLKATA

HALDIA DOCK COMPLEX

E-Tender No. SDM(P&E)/T/ 03 /2021-2022

Upgradation of 11kV/415V Substations & allied equipment along with 5years manning and comprehensive maintenance at residential areas of Haldia Township under Haldia Dock Complex, SMP, Kolkata

ADDENDUM - I

CORRECTIONS / ADDITIONS / DELETIONS, ETC.

[Total Number of Pages : 6]

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.

Addendum -I

E-Tender No. SDM(P&E)/T/ 03 /2021-2022

Sl. No.	Page No. & Clause No.	As specified in the Bidding Document						To be deleted & read as / Remarks					
1.								SCADA system Details as per Annexure-A.					
2.	146, BOQ Item (Electrical Works) Sl. No. 1.	Sl. No.	Description Of Item	Quantity		Rate	Amount	Sl. No.	Description Of Item	Quantity		Rate	Amount
		1.	11KV VCB Panel:- Supply, Installation, Testing & Commissioning of HT 11kV 630A, 26.3kA for 3Sec. Vacuum Circuit Breaker (VCB) panel, as per TABLE – I of “Technical Specification.”					1.	11KV VCB Panel:- Supply, Installation, Testing & Commissioning of HT 11kV 630A, 26.3kA for 3Sec. Vacuum Circuit Breaker (VCB) panel, as per TABLE – I of “Technical Specification.”				
		a	Supply of Vacuum Circuit Breaker (VCB) panel.					a	Supply of Vacuum Circuit Breaker (VCB) panel.				
			For	Nos	3				For	Nos	3		

Sl. No	Page No. & Clause No.	As specified in the Bidding Document							To be deleted & read as / Remarks						
				Substation-3,2,1,5 & 3rd oil jetty	.	8	28,886,100.00	28,886,100.00			Substation-3,2,1,5 & 3rd oil jetty	.	8	7,60,160.526	28,886,100.00
			b	Installation, Testing & Commissioning of Vacuum Circuit Breaker (VCB) panel.				-		b	Installation, Testing & Commissioning of Vacuum Circuit Breaker (VCB) panel.				-
				For Substation-3,2,1,5 & 3rd oil jetty	Nos .	38	469,361.00	469,361.00			For Substation-3,2,1,5 & 3rd oil jetty	Nos .	38	12,351.605	469,361.00
2.	105, 14	LIST OF APPROVED MAKES							LIST OF PREFERRED MAKES						
3.	105, 14								List of Preferred makes Bidders shall submit makers list for all major items [VCB Panel, Transformer, Package outdoor Sub-station, Cables, Jointing kits, LT Panel, SCADA, FPB, APFC Panel, Battery & Battery charger, ACSR Conductor, GI pipes, structure, 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						

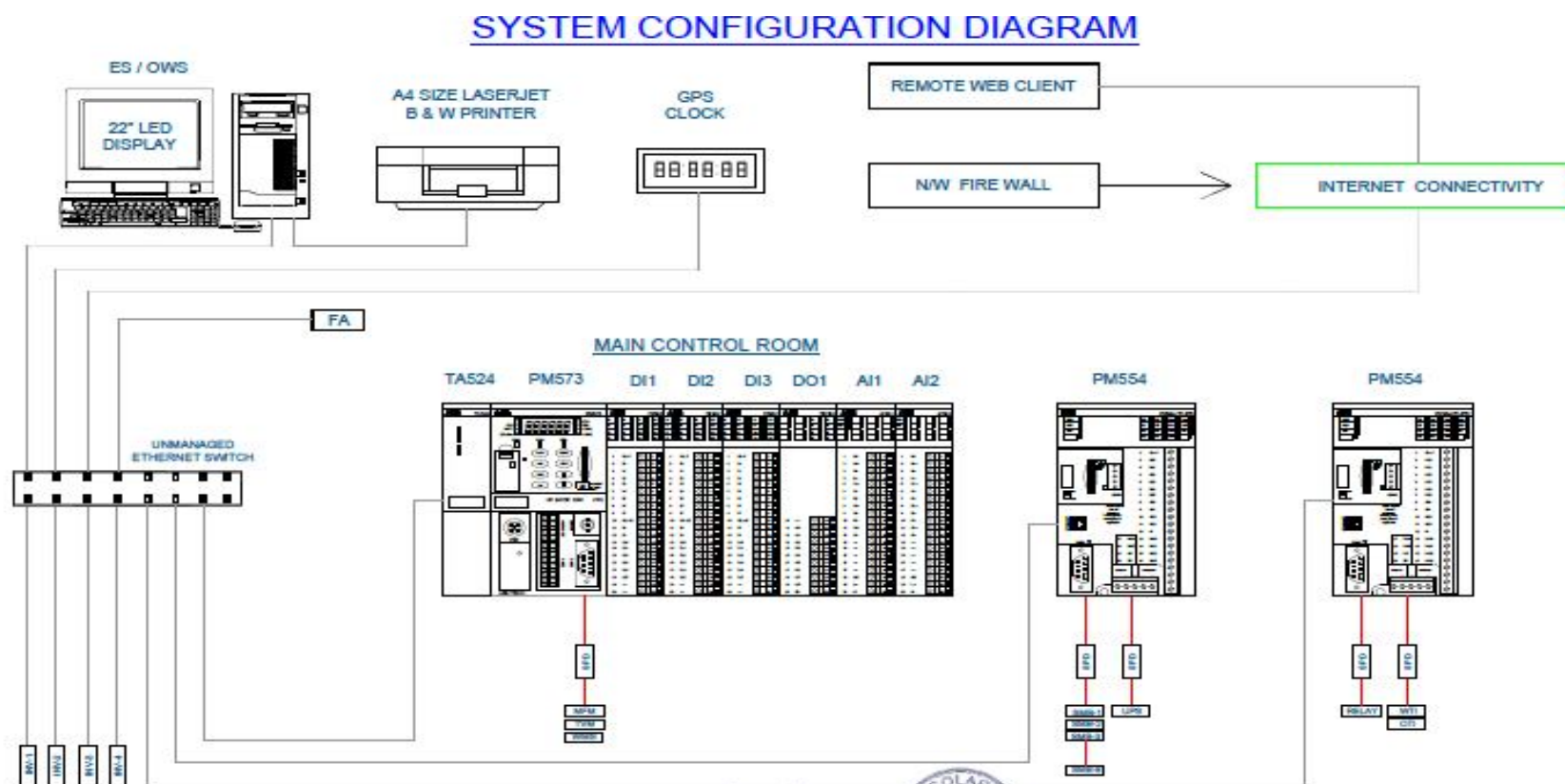
Sl. No.	Page No. & Clause No.	As specified in the Bidding Document	To be deleted & read as / Remarks
			<p>indicated in the tender.</p> <p>After placement of LOA, successful bidder shall be required to comply the following during engineering stage of the project:-</p> <p>Any new make, other than preferred make mentioned in the tender, may be accepted by the engineer, if the same meets the following criteria:-</p> <ul style="list-style-type: none"> a) Shall meet technical specification of the tender. b) Shall be from OEM [original equipment manufacturer]. c) Shall submit at least 3Nos. 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. <p>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.</p>
4.	65, xv)	CT's shall be bar/ window primary type	CT's shall be bar/ window primary type/ Bushing type Cast resin.
5.	43,44	800KVA, 11/0.415KV Distribution Transformer 500KVA,11/0.415KV Distribution transformer Impedance-4.5%(+/- IS tolerance)	800KVA ,11/0.433KV Distribution Transformer Impedance- 4.5% max. Total Losses at 100% Load-6.40KW (Max.) Total Losses at 50% Load-2.28 KW (Max.)

Sl. No.	Page No. & Clause No.	As specified in the Bidding Document	To be deleted & read as / Remarks
			500KVA,11/0.433KV Distribution transformer Impedance 4.5% max. Total Losses at 100% Load-4.3 KW (Max.) Total Losses at 50% Load-1.51 KW (Max.)
6.	7,3.11	ii) Closing date & time of submission of e-Tender at https://kopt.enivida.in 11.08.2021 up to 15:00 Hrs. (IST).	ii) Closing date & time of submission of e-Tender at https://kopt.enivida.in 20.08.2021 up to 15:00 Hrs. (IST).
7.	7,3.11	iii) Date & time of opening of Part-I (Techno-commercial Bid) 11.08.2021 up to 15:30 Hrs. (IST) onwards.	iii) Date & time of opening of Part-I (Techno-commercial Bid) 20.08.2021 up to 15:30 Hrs. (IST) onwards.

Providing SCADA System at sub-station-3 for operation, control and condition monitoring of HT, LT switchgears and Transformer using Modbus Protocol with necessary provision for connecting balance 6nos. Sub-station at HDC township in future.

SCADA system at main sub-station at SS-3 for monitoring and control of sub-station with Ethernet switches, interposing relay, transducers, network switches. [Job includes SCADA Software and associated Hardware(such as HMI, server, GPS with software, antenna, Laser Printer, Cyber security device Networking equipment , FO cables, Patch Cords, LIU's, Cat-5/Cat-6 Cables, LAN Cable, Twisted cable, 5kVA UPS system, Network switches etc. required for system integration etc.[As per IEC 61850 protocol.]

A tentative System Architecture is indicated below:-



SYAMA PRASAD MOOKERJEE PORT, KOLKATA

HALDIA DOCK COMPLEX

QUERIES OF DIFFERENT FIRMS IN CONNECTION WITH THE PRE-BID MEETING HELD ON 27.07.2021

for

"Upgradation of 11kV/415V Substations & allied equipment along with 5years manning and comprehensive maintenance at residential areas of Haldia Township under Haldia Dock Complex, SMP, Kolkata".

E-Tender No. SDM(P&E) / T / 03 / 2021-2022

Sl. No.	Reference	Queries of the firms	HDC, SMP Kolkata Clarifications
1.	VCB Panel, X, Page 63	<p>"Bus bar support insulators of non-hygroscopic material having high impact and dielectric strength with an anti-tracking contour."</p> <p>We are offering type tested design of self-supported busbars. Removal of support insulators from our switchgear design, reduces the chances of internal flashover. Kindly accept.</p>	Design offered shall be fully type tested for full short circuit rating and internal arc resistance test as per IEC.
2.	VCB Panel, XV, Page 65	<p>"CT's shall be bar/ window primary type"</p> <p>Our offered Switchgear is with Bushing type Cast resin CT. This offers easy mounting & replicability of the same. Moreover it has much lesser chances of failure in case of Short Circuit. Same design has been supplied to multiple government utilities. Kindly approve .</p>	<p>Design offered shall be fully type tested for full short circuit rating as per IEC.</p> <p>Please see Addendum.</p>
3.	INDOOR 11kV HT VCB PANEL, Page 70	<p>"Cassette type VCB trolley"</p> <p>We are offering Floor rolling type VCB trolley (Switchgear Model Lean Gear & VCB Model: Vind) . Kindly accept .</p>	Tender condition prevails

Sl. No.	Reference	Queries of the firms	HDC, SMP Kolkata Clarifications
4.	INDOOR 11kV HT VCB PANEL, Page 71	<p>"All relays shall be SCADA enabled with event/data logging features".</p> <p>The main Numerical relay will be SCADA enabled with event/data logging features. However the auxiliary relays (if supplied) will not be having event / data logging features</p>	Agreed.
5.	VCB Panel, Earthing Truck, Page 68	<p>"Earthing truck shall have PT and alarm provision. (Separate trucks shall be provided for feeder and bus earthing through bus PT panel in each switchboard). One no. earthing truck for feeder earthing and one no. for busbar earthing shall be provided for each board".</p> <p>Since the switchgear panels are with integral making type earth switch, requirement of separate earthing truck, looks superfluous. Please confirm the requirement.</p>	Tender condition prevails.
6.	Scope of Work	<p>"SCADA system at SS-3 Sub-station of HDC."</p> <p>The detailed technical specification for SCADA is requested to be supplied .</p>	Please see addendum.
7.	VCB Panel, Constructional Features, Page 69	<p>"Internal arc should be valid also at the rear side of cubicle".</p> <p>Offered switchgear is such designed that all 4 sides of the switchgear are safe for the operators. The offered switchgear is classified as IAC -AFLR. Hope your requirement is the same. Kindly include this as a part of the Technical Specification.</p>	<p>Bidder shall offer panel providing total safety for the operator.</p> <p>Design offered shall be fully type tested for full short circuit rating and internal arc resistance test as per IEC.</p>
8.	VCB Panel, Relays , Page 65	<p>"Relays shall be Microprocessor based numerical and communicable type. Protocol for communication shall be IEC 61850".</p>	Tender condition prevails.

Sl. No.	Reference	Queries of the firms	HDC, SMP Kolkata Clarifications
		As per the latest mandates of IEC 61850, we would be supplying relays with native 61580 with KEMA Certificate Level A for IEC 61850 compliance and Goose communication in compliance with performance class P1 message type 1A "trip". These relays would have KEMA certificate for the same. Kindly include this as a part of your technical specification .	
9.	VCB Panel	<p><u>Suggestions:-</u></p> <p>1.Switchgear should have the capacity to support remote rack-in and rack-out. Remote rack-in / rack-out ensures total safety for the operator in addition to provision of Internal Arc proof design. Suitable for un-manned operation.</p> <p>2.Full encapsulation of VCB poles with Epoxy; no partial encapsulation. Vacuum Interrupters remains safe from Dust and environmental effects. Reduces chances of flash over when bottles are separated by FRP sheets.</p> <p>3.Relay should have optional Fiber Optic arc sensing feature. FO based arc sensing feature ensures quick elimination of fault in case of flash over, hence limiting the damage to switchgear.</p>	Tender condition prevails.
10.	Page No. 4, Cl. No. 2.2.A of Tender Document	<p>Power of Attorney of Bid Signatory: -</p> <p>Please confirm should we submit General Power of Attorney or there have any format of the same. If available, please provide us the same.</p>	General Power of Attorney of any format is acceptable, subjected to fulfilling the requirement as per ITB Clause No.5.4.
11.	List of Approved Makes Page No. 89, Cl. No. 13 of Tender Document	Please consider / accept following similar type of reputed Vendor's / Manufacturer's in addition to your List of Approved Makes	Please see addendum.

Sl. No.	Reference	Queries of the firms	HDC, SMP Kolkata Clarifications
		<p>For Transformer : 1. M/s. Marsons Electrical Industries, AGRA 2. M/s. Toshiba Transmission & Distribution Systems (India) Pvt. Ltd. 3. M/s. Tesla Transformers (India) Limited</p> <p>For VCB Panel & LT Panels: 1. M/s. Pascal Switchcare India (P) Ltd. 2. M/s. C&S Electric Ltd. 3. M/s. Stelmec Ltd.</p> <p>For Outdoor CT & PT: 1. M/s. Modern Electronics</p> <p>For Cable Straight Through Jt Kit / End termination Kit 1. M/s. Cellpack BBC India Pvt. Ltd. 2. M/s. Yamuna Power (DENSON).</p> <p>For Capacitor Bank / Capacitor Panel/ APFC 1. M/s. Shreem Electric Ltd.</p>	
12.	BOQ Item (Electrical Works) Sl.No. 1. 11KV VCB Panel Page No. 146 of Tender Document	We have found that there are some discrepancies in 'Quantity' and 'Rate' against this item. Please rectify at your end.	Please see addendum.
13.	Tender Document Page No. 46, Cl. No. 5.0 Outdoor Package Substation	<p>"The Package Substation Unit shall have outdoor enclosure of hot dip galvanised sheet steel 2.5 mm thick with 4 mm thick base, dust and vermin proof and suitable for outdoor installation and shall be provided with lifting hooks. The partition between the compartments shall be 2.5 mm thick."</p> <p>Our type tested Package substation will have a construction of Galvanised Sheet Steel of thickness 2 mm</p>	Tender condition prevails.

Sl. No.	Reference	Queries of the firms	HDC, SMP Kolkata Clarifications
		for Load bearing member and 1.5 m for Non Load bearing member & partition. The base will be made using 4mm HRCA channel. Kindly accept.	
14.	Tender Document Page No. 47, Cl. No. 5.1. a) HT Panel:	Haldia Dock Complex has asked for TVM at 11KV End. We have considered Bus PT at 11KV End. As Line PT cannot be considered in Secondary Gas Insulated Switchgear (RMU). Please accept.	TVM is primarily for monitoring total energy metering of Package Outdoor Sub-station. Bus PT at 11KV level to considered accordingly.
15.	List of approved makes, Page No. 105,	Approved make of VCB panel is SIEMENS / ABB / SCHNEIDER is mentioned, kindly consider L&T make VCB panels an approved make for subject tender.	Please see addendum.
16.	List of approved makes, Page No. 105	Approved make of LT panels is SIEMENS / L&T / SCHNEIDER / ABB is mentioned. Direct OEM take minimum 8/10-month time for LT panel delivery. This project total time is given 12 months for completion, Therefore Kindly consider CPRI approved LT panel manufacturer as an approved vendor for subject tender.	Please see addendum.
17.	List of approved makes, Page No. 105	Please incorporate Havells make MCB, MCCB, Contractor, Change-Over switch, APFC Panel, MCB DB, RCCB, Time switch, Surge Protector Devices, Insulated Plugs and sockets.	Please see addendum.