

SYAMA PRASAD MOOKERJEE PORT, KOLKATA

HALDIA DOCK COMPLEX



Tender No. : SDM(P&E)/T/73/2020-2021

E-Tender ID.: 2020_KoPT_596862_1

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 - V

CORRECTIONS / ADDITIONS / DELETIONS, ETC.

[Total Number of Pages : 14]

NOTE :

1. This “**Addendum-V**” should be read in conjunction with Bidding Document (including Notice Inviting e-Tender), “Addendum-I”, “Addendum-II”, “Addendum-III”, “Addendum –IV” and clarifications against Pre-bid queries.
2. Consequential changes, arising out of this **Addendum-V**, 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-V**’ along with one set of Tender Document (in full), “Addendum-I”, “Addendum-II”, “Addendum-III”, “Addendum –IV” 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.

Sl. No.	Page No.	Clause No.	Line No.	As specified in the Bidding Document	To be read as / Remarks
1.	3	2.2. B [in part]	<u>OTHER DOCUMENTS :</u>	<u>To Add :</u> viii. Integrity Pact, duly filled up, signed & stamped.
2.	7 & 8	3.5 ii)	...	Earnest Money Deposit (EMD)	<u>To Add :</u> Bidding Form – VIII (BANK GUARANTEE FOR EARNEST MONEY) NOTE :: The EMBG should be kept valid and enforceable till a date, covering at least 3 (three) months beyond the date of expiry of the validity period of the bid. In case a bidder agrees to any extension of the bid validity period, asked by SMP, Kolkata, the validity of the corresponding EMBG shall have to be extended till a date, covering at least 3 (three) months beyond the date of expiry of such extended bid validity period. Scanned copy of such EMBG must be submitted (uploaded) by the bidders, along with the Techno-commercial Bid. The original Bank Guarantee should be sent by the issuing Branch of the Bank, directly to the Employer , at the following address: Senior Deputy Manager (Finance), Haldia Dock Complex (HDC), Jawahar Tower Complex, P.O: HaldiaTownship, Dist.: Purba Medinipur, PIN – 721 607, West Bengal, India. The original Bank Guarantee should reach the above address before the closing date and time of submission of bid.

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					<p>Details of Earnest Money remitted must be entered by the participating bidder in the space provided in the e-Tender, as indicated hereunder:</p> <p>a) Name of the bidder: b) E-Tender ID.: 2020_KoPT_596862_1 c) Amount of EMBG: d) EMBG Bank details: e) Bank Guarantee No.: f) Date of EMBG:</p>
3.	28	11 [in full]		All concealed work and earthing shall be done in the presence of the Engineer or his authorized representative.	All earthing shall be done in the presence of the Engineer or his authorized representative.
4.	30	27 [in full]			Clause to be considered as DELETED .
5.		29 [in full]			Clause to be considered as DELETED .
6.		30 [in full]			Clause to be considered as DELETED .
7.	34	2.3 6) a)		1 No. LT Panel, 1600A (PDB-1)	1 No. LT Panel, 1600A (PCC-1)
8.	37	3.0 ii)	3 rd bullet point	Enclosure shall be conform to the Degree of protection IP-52	Enclosure shall be conform to the Degree of protection IP-4X (for both HV & LV chambers)
9.	37 & 38	3.0 ii)			<p><u>To Add :</u></p> <ul style="list-style-type: none"> HT VCB Panel shall be design verified (totally types tested) assemblies conforming to IEC 62271-200 (switchgear) , IEC 62271-100 (circuit breaker) and IEC 62271-1 (rise in temperature). Successful Bidder to submit Type test reports for approval during detail engineering. HT VCB Panel shall be made of Alu Zinc coated metal sheet. Front door, rear cover will be painted CRCA.

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					<ul style="list-style-type: none"> • There shall be no hinge door at busbar chamber. • Pad Locking Provision shall be given on breaker chamber door only. • Separation of panel shall be as per Type tested report. • Switchgear panel is having Vacuum circuit breaker shall be as per type tested design for interruption of the fault, where as insulating medium shall be Air. All interlocks & padlocking facility for breaker shall be supplied as per manufacturers standard & proven design. Circuit Breaker class of operation shall be as per type tested report. • The main busbars shall be of Copper. At joints the insulation is done using PVC shrouds. Busbar shall be as per manufacturers type tested design. For the purpose of phase identification, coloured PVC stickers shall be pasted at regular intervals on the busbar sleeves. The busbars are supported on integral epoxy spouts. The droppers are supported on epoxy insulators. The rise in temperature over design ambient shall be governed by IEC 62271-1. • HT switchgear panel shall be compatible for Internal Arc at full STC for 1 Sec. • Good quality Busbar Sleeve shall be provided. • The HT panels are fabricated from CRCA / AluZinc sheets. The use of CRCA is limited to doors and covers only. Load-bearing members shall not be less than 2.5 mm thick sheets and non-load bearing members shall not be less than 2.0 mm thick. The paint shade shall preferably be RAL9003. Paint shade shall be with Single coat. Paint thickness shall be 50 to 60 Microns. Painting is for the CRCA members only. AluZinc members do not require any painting.

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10.	38	3.0 ii)	25 th bullet point.	Each cubicle shall have mimic diagram with metal strip.	Mimic diagram shall be as per manufacturers standard & proven design.
11.	38	3.0 iii)	4 th bullet point.	Breaker Position interlocking with LOTO system shall enhance safety practice and prevent unauthorised access during maintenance.	LOTO arrangement on VCB shall be as per manufacturers' standard & proven design.
12.	38	3.0 iii)	24 th bullet point.	Facilities for pad locking in each position shall be provided.	Pad locking provision on VCB shall be as per manufacturers' standard & proven design.
13.	39	3.0 iv)		Erathing switch :	Earthing truck is to be considered instead of Earthing Switch. One no. circuit earthing truck shall be provided for each switchboard.
14.	40	3.0 xi)	4 th bullet point	Design ambient temperature shall be 50 ⁰ C & final operating temperature under continuous operation in enclosure limited to 90 ⁰ C by thermometer method.	Design ambient temperature shall be 50 ⁰ C. Temperature rise will be as per IEC 62271-1.
15.	40	3.0 xi)	9 th bullet point	Bus bars (horizontal as well as vertical) shall be provided with heat shrinkable, non tracking, low absorption type sleeving conforming to international standards for full voltage for 33 kV, 11 kV & 3.3 kV switchboards.	Bus bars (horizontal as well as vertical) shall be provided with heat shrinkable, non tracking, low absorption type sleeving conforming to international standards for full voltage for 3.3 kV switchboards.
16.	41	3 xii)	1 st & 2 nd bullet point. [in full]	Control wiring shall be carried out by 1100V grade PVC insulated; single core multi stranded copper wire of minimum cross section 2.5 sq. mm. Similarly, for CT circuits minimum cross section of 2.5 sq. mm shall be used. Flexible wire of 2.5 sq.mm shall be used from CT chamber to relay chamber and shall have protection against heat and mechanical damage due to flash over. Use	The VCB Trolley will be wired as per manufacturer standard & proven design. For LV Compartment, FRLS type, standard single-core non-screened PVC cable is to be used. Control wiring and ferruling shall be done as per manufacturer standard and practice. Connection for auxiliary supply shall be done in LILO fashion between interconnected panels.

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				of heatproof sleeves and rigid conduit shall be made to run the control wires from back to front.	
17.	42	3.0 xv)b)	9 th bullet point.	ICTs whenever considered necessary shall be included in the scope.	Clause to be considered as DELETED .
18.	43	3.0 xviii)		Protection Relays	To add : Protection Relays The main protection relays shall be non-witdrawable/ non-draw out type. The same shall be multi function type. Protection functions have been considered as per specification. The main protection relays shall be based on communicable protocol of IEC 61850 (RJ 45). Auxiliary protections shall be catered through electromechanical relays. IO List and DI/DO for relays would be finalized during detailed engineering by the contractor All digital numerical relay shall have LED indication. Trip Circuit Supervision function function is inbuilt with Relay. All protection relays shall be supplied as per type tested design.
19.	43	3.0 xvii)	7 th bullet point.		To add : Line PT shall be mounted on VCB truck and it VCB along with PT will be drawout together. MCB shall be provided at LT side of the PT circuit.
20.	44	3.0 xviii)	14 th bullet point		To add: Master Trip Relay Master Trip Relay shall be of electromechanical type.
21.	45	3.0 xx)	18 th bullet point		To add: Transformer Aux. Relay Transformer Aux. Relay shall be electromechanical type .
22.	46	3.0 xviii)	7 th bullet point.	Earthed metallic barriers between compartments and between vertical sections.	Earthed metallic barriers shall be as per manufacturer's standard.

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23.	46	3.0 xviii)	8 th bullet point.	Seal off bushings wherever bus bars pass through metallic partition.	Clause to be considered as DELETED .
24.	48	3.0 xviii)		Cable box suitable for receiving of 3C x 240 Sq. mm HT XLPE cable.	Cable box suitable for receiving HT XLPE cable of particular size.
25.	57	5.0 x)	2 nd sentence.	Short circuits withstand capacity for the bolted fault at the terminals shall not be less than 5 second duration with respect to fault level specified	Short circuits withstand time shall be as per latest relevant standards.
26.	64	6.1 , 6.2 ,6.5 & 6.6		Scope Codes & Standard Panel construction Paint shade Busbar	To Add : Scope : LT Panel shall be supply from OEM who is having the type test certificate of similar rating and above current rating from CPRI/ERDA. LT Panel shall be of OEM Design. The switchgears and other accessories to be fitted as per list of approved makes of the Tender. Successful Bidder to submit Type test reports for approval during detail engineering. Codes & Standard : LT Panel shall be design verified (totally types tested) assemblies conforming to IEC-61439-1-2 & IEC61641. Panel construction : Panel shall be of CRCA with Load bearing member to be 2.0mm while nonload bearing member shall be of 1.6 mm. Paint shade : Paint shade shall be RAL 7035. Painting procedure shall be as per OEM standard. Busbar : Busbar of LT Panel shall be of Aluminium

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27.	65	6.7 d)		Constructional features	To add : Cable entry: For ACB feeders cable alley shall be from rear side.
28.	74	6.18		Internal wiring	To add : Control wiring : Control/Potential wire 1.5 sq. mm & CT wire 2.5 sq. mm. Control AC – Grey wire shall be provided with Red Sleeve for Phase, Black Sleeve for Neutral. Power Cable with Grey Color & R/Y/B colored sleeves.
29.	76	6.21 B) 3.		BUS BAR RATING : 1600A	BUS BAR RATING : As per relevant IEC/IS.
30.	77	6.22 A) iv)	1st bullet point.	Rated continuous current as specified while in enclosure and at specified ambient temperature with maximum temperature of bus bars limited to 90 deg. C.	As per the IEC 61439-6.
31.	77	6.22 C)	2nd bullet point.	Enclosure material: Aluminium/ steel sheet, as specified of minimum thickness 2.0 mm.	The enclosure shall be Duel Housing (1.6mm thick Al + Electro-galvanized stell 1.5mm thick) with epoxy powder coated to colour shade ANS149 Grey.
32.	78	6.22 C)	12th bullet point	Shade of paint : Interior : Black Exterior : Light grey shade 631 of IS-5 (unless otherwise specified)	Paint shall be as per IEC/IS.
33.	79	7.0		Indoor LT APFC Panel	To add : Indoor LT APFC Panel shall be designed with compliance to IEC 61921 and IS 16636-2017.
34.	80	8.0		Technical specification for substation control and monitoring system through SCADA.	Technical specification for substation control and monitoring system.
35.	140	2 & 3	Price schedule (Part-A)	HT 3.3KV, 630 A VCB along with Vacuum contractor Panel.	The same is to be considered as HT 3.3KV, 630 A VCB Panel.
36.	140	4	Price schedule (Part-A)	<u>1MVA Distribution Transformer:-</u> Design, Manufacture, supply, installation, testing and commissioning of following 11/0.433 KV Oil type transformers with off circuit tap changer &	<u>1MVA Distribution Transformer:-</u> Design, Manufacture, supply, installation, testing and commissioning of following 3.3/0.433 KV Oil type transformers with off circuit tap changer & marshalling

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				marshalling box of make as per the Technical Specification.		box of make as per the Technical Specification.	
37.	141	6	Price schedule (Part-A)	<u>800A, LT Panel (PDB- 2A, 2B & 2C):-</u> Design, Manufacture, Supply, installation ,testing and commissioning of 800A, 24 ways, LT distribution panel as per the enclosed SLD & Technical Specifications.		<u>800A, LT Panel (PDB- 2A, 2B & 2C):-</u> Design, Manufacture, Supply, installation ,testing and commissioning of 800A, LT distribution panel as per Table-II of technical Specifications.	
38.	141	11	Price schedule (Part-A)	<u>Laying, testing and commissioning including end termination of HT Cables:</u>		<u>Laying, testing and commissioning including end termination of HT Cables:</u>	
i.				Laying, testing and commissioning including end termination of HT Cables from substation to MH Houses etc. Job includes supply and installation of Hume and GI pipe.		Laying, testing and commissioning including end termination of HT Cables from substation to MH Houses etc. Job includes supply and installation of Hume , GI pipe & FRP cable tray.	
ii.				By existing RCC trench/Hume pipe/GI Pipe.-	2700 Mtrs.	By existing RCC trench/Hume pipe/GI Pipe.	2200 Mtrs.
iii.				By excavating trench.-	800 Mtrs.	By excavating trench.	800 Mtrs.
iv.				By removal of paver blocks, excavating trench and refixing of the same after laying.-	50 mtrs.	By removal of paver blocks, excavating trench and refixing of the same after laying.	50 mtrs.
v.				By 150mm dia. Hume pipe through excavating.-	50 mtrs.	By 150mm dia. Hume pipe through excavating.	50 mtrs.
vi.				By 150NB GI Pipe through excavating-	100 Mtrs.	By 150NB GI Pipe through excavating	100 Mtrs.
vii.				By 150NB GI Pipe through Boring-	100 Mtrs.	By 150NB GI Pipe through Boring	100 Mtrs.
viii.						By FRP Cable tray	500 Mtrs.
39.	142	14	Price schedule (Part-A)	<u>Laying, testing and commissioning including end termination of LT Cables:</u>		<u>Laying, testing and commissioning including end termination of LT Cables:</u>	
i.				Laying, testing, commissioning including end termination of LT Cables from substation to MH Houses, Outgoing feeders etc. Job includes supply and installation of Hume and GI pipe.		Laying, testing, commissioning including end termination of LT Cables from substation to MH Houses, Outgoing feeders etc. Job includes supply and installation of Hume, GI pipe & FRP Cable tray.	
ii.				By existing RCC trench/Hume pipe/GI Pipe.	2500 Mtrs.	By existing RCC trench/Hume pipe/GI Pipe.	2000 Mtrs.
iii.				By excavating trench.	700 Mtrs.	By excavating trench.	700 Mtrs.

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iv.				By removal of paver blocks, excavating trench and refixing of the same after laying.	50 Mtrs.	By removal of paver blocks, excavating trench and refixing of the same after laying.	50 Mtrs.
v.				By 150mm dia. Hume pipe through excavating.	50 Mtrs.	By 150mm dia. Hume pipe through excavating.	50 Mtrs.
vi.				By 150NB GI Pipe through excavating	100 Mtrs.	By 150NB GI Pipe through excavating	100 Mtrs.
vii.				By 150NB GI Pipe through Boring	100 Mtrs.	By 150NB GI Pipe through Boring	100 Mtrs.
viii.						By FRP Cable tray	500 Mtrs.
40.	142	17	Price schedule (Part-A)	<u>Earthing station:-</u> Providing earthing system, using size 600 mm X 600 mm X 3.15 mm Copper flat plate buried in ground in a depth of 2m. from ground level with alternate layer of charcoal & salt, including supply & fixing of 50 mm dia perforated GI pipe funneling for watering purpose and construction of masonry pit with metal cover, as per IS: 3043 as detailed in 'Technical Specification'.		<u>Earthing station:-</u> Providing earthing system with plate earthing in accordance with Technical Specification, latest relevant standards and attached drawing.	
41.	143	23	Price schedule (Part-A)	SCADA System, as per Technical specification.		Substation control and monitoring system, as per Technical specification	
42.	144	1	Price schedule (Part-B)	<u>Civil work:</u> Construction of RCC cable trench with removable top cover size 650mmx650mm as per enclosed drgs. Quantity : 350 Mtrs.		<u>Civil works:</u> Construction of RCC cable trench of size 600 mm (W) X 900 mm (D) with removable top cover as per Technical Specification, latest relevant standards and attached Drawing No.2. Quantity : 500 Mtrs.	
43.	144	2	Price schedule (Part-B)	<u>GI Chequered Plate:-</u> Supply and Installation of Hot Dip Galvanized (100 micron) flats of size 6 mm Plate for covering existing cable trench inside sub-		<u>MS Chequered Plate:-</u> Supply and Installation of MS Chequered Plate (of thickness not less than 6 mm) for covering existing cable trench inside sub-station, all machine houses &	

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				station, all machine houses & impounding pump house as per Technical specification. Job includes cutting fabrication of plate as per site condition.	impounding pump house as per Technical specification. Job includes cutting, fabrication of Chequered plate as per site condition including painting.
			i.	Supply	Supply
			ii.	Installation, testing and commissioning	Installation including painting.
44	144	2	Price schedule (Part-B)	<u>GI Angle & Channel :-</u> Supply and Installation of Hot Dip Galvanized (100 micron) Angle and channels of size 6 mm for repairing existing cable trench supports inside & outside sub-station, all machine houses & impounding pump house etc. as per Technical specification. Job includes cutting fabrication as per site condition.	<u>MS Angle & MS Channel :-</u> Supply and Installation of MS Angle and MS channels for repairing existing cable trench supports / proposed cable trench inside & outside sub-station, all machine houses & impounding pump house etc. as per Technical specification. Job includes cutting fabrication as per site condition including painting.
			i.	Supply	Supply
			ii.	Installation, testing and commissioning	Installation including painting.
45.	90 to 92	15		Inspection & Testing : TPI Agency or the representative of Engineer	The same is to be considered as TPI Agency or Engineer or his authorised representative(s) of HDC.
46.	Tender Document	General		Haldia Dock Complex, Kolkata Port Trust (KoPT)	To be considered as Haldia Dock Complex, SMP, Kolkata.

Note: Quantities mentioned as above are indicative only. Payment shall be made on actual executed quantity duly certified.

BANK GUARANTEE FOR EARNEST MONEY

[To be submitted on Non-judicial Stamp Paper of worth not less than INR 50.00]

Tender No. SDM(P&E)/T/73/2020-2021

Name of work:

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.

**To,
The Board of Trustees,
for the Port of Kolkata.**

BANK GUARANTEE NO. DATE

Name of issuing Bank

Name of Branch

Address

WHEREAS

The Board of Trustees for the Port of Kolkata, a body corporate - duly constituted under the Major Port Trust Act, 1963 (Act 38 of 1963), (hereinafter referred to as "The Trustees") have invited Tender No. **SDM(P&E)/T/73/2020-2021** (hereafter referred to as "The Bid") for the work of **"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"**.

AND WHEREAS

Shri / Messrs a Proprietary / Partnership / Limited / Registered Company, having its Registered Office at (hereinafter referred to as "The Bidder", which expression shall mean and include their successors and assigns) have submitted their offer against the Bid.

AND WHEREAS

One of the terms of the Bid being that the Bidder may submit Earnest Money in the form of an irrevocable and unconditional Bank Guarantee as a security against the event of the Bidder withdrawing their offer on any ground whatsoever during the period of validity of the offer and/or the Bidder fails to enter into Contract despite the Trustees select the Bidder as the successful Tenderer against the Bid,

We, ... Branch, Kolkata .../Haldia, do hereby issue our irrevocable and unconditional Guarantee in favour of The Trustees for a sum of only.

We, ... Branch, Kolkata .../Haldia, do, on the advice of the Bidder, hereby undertake to indemnify and keep indemnified the Trustees to the extent of the said sum of only.

We,Branch, Kolkata .../Haldia, further agree that if a written demand is made by the Trustees through any of its officials for honouring the Bank Guarantee constituted by these presents, We,..... Branch, Kolkata .../Haldia, shall have no right to decline to cash the same for any reason whatsoever and shall cash the same and pay the sum so demanded to the Trustees within a week from the date of such demand by an A/c Payee Banker's Cheque drawn in favour of "Kolkata Port Trust", without any demur. Even if there be any dispute between the Bidder and the Trustees, this would be no ground for us, (Name of Bank), Branch, Kolkata .../Haldia, to decline to honour the Bank Guarantee in the manner aforesaid. The very fact that we,Branch, Kolkata...../Haldia, decline or fail or neglect to honour the Bank Guarantee in the manner aforesaid, shall constitute sufficient reason for the Trustees to enforce the Bank Guarantee unconditionally without any reference, whatsoever, to the Bidder.

2. We, ' Branch, Kolkata/Haldia, further agree that a mere demand by the Trustees at anytime and in the manner aforesaid, is sufficient for us,Branch, Kolkata/Haldia, to pay the amount covered by this Bank Guarantee in full and in the manner aforesaid and within the time aforesaid without reference to the Bidder and no protest by the Bidder, made either directly or indirectly or through Court, can be valid ground for us, Branch, Kolkata/Haldia, to decline or fail or neglect to make payment to the Trustees in the manner and within the time aforesaid.

3. We, Branch, Kolkata/Haldia, further agree that the Bank Guarantee herein contained shall remain in full force and effect, during the entire validity period of the Bid including any extension thereof until the Bidder furnishes the requisite Performance Guarantee for the amount specified in the Tender in the prescribed Form in the event of the Bidder becoming the successful Tenderer and that it shall continue to be enforceable in the Trustees' claim have been satisfied and/or discharged in full and/or till the Trustees certify that the terms and conditions of the said Bid have been fully and properly observed/fulfilled by the Bidder and accordingly, the Trustees have discharged the Bank Guarantee, subject however, that this guarantee shall remain valid upto and inclusive ofday of.....201.....and subject all so that the provision that the Trustees shall have no right to demand payment against this guarantee after the expiry of 6 (six) calendar months from the expiry of the aforesaid validity period upto.....or any extension thereof made by us,Branch, Kolkata...../Haldia, in further extending the said validity period of this Bank Guarantee on Non-Judicial Stamp Paper of appropriate value, as required / determined by the Trustees, only on a written request by the Trustees to the Bidder for such extension of validity of this Bank Guarantee.

4. We,Branch, Kolkata .../Haldia, further agree that, without our consent and without affecting in any manner our obligations hereunder, the Trustees shall have the fullest liberty to vary from time to time any of the terms and conditions of the said Bid or to extend the validity period of the Bid or to postpone for any time or from time to time any of the powers exercisable by the Trustees against the Bidder and to forebear or enforce any of terms and conditions relating to the said Bid and We, ...
.....Branch, Kolkata.../Haldia, shall not be relieved from our liability by reason of any such variation or extension being granted to the Bidder or for any fore-bearance, act or commission on the part of the Trustees or any indulgence by the Trustees to the Bidder or by any such matter or thing of whatsoever nature, which under the law relating to sureties would, but for this provision, have effect of so relieving us,Branch, Kolkata .../Haldia.
5. We,Branch, Kolkata.../Haldia, lastly undertake not to revoke this Bank Guarantee during its currency except with the previous consent of the Trustees in writing.

SIGNATURE
NAME
DESIGNATION
(Duly constituted attorney for and on behalf of)

BANK
BRANCH
KOLKATA/HALDIA

(OFFICIAL SEAL OF THE BANK)

Note:

The Bank Guarantee should be issued from any Nationalized / Scheduled Bank in India. In all cases, any dispute regarding Bank Guarantee will be adjudicated under the jurisdiction of The Calcutta High Court.

SYAMA PRASAD MOOKERJEE PORT, KOLKATA
HALDIA DOCK COMPLEX

QUERIES OF DIFFERENT FIRMS IN CONNECTION WITH THE PRE-BID MEETING HELD ON 23.11.2020 AND CLARIFICATIONS OF HDC, SMP, KOLKATA THEREOF.

Tender No. : SDM(P&E)/T/73/2020-2021

E-Tender ID.: 2020_KoPT_596862_1

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
1	3.5 (ii) / 7	EMD / Bid Security	EMD will not be required for the subject tender and will be replaced by Bid Security Declaration as per Govt. of India notification of "Atmanirbhar Bharat Package 3.00" released on 12.11.2020.	The tender conditions will prevail.
2	3.5 (ii) / 7 & 4.3 / 11	EMD / Tender Fee	<p><u>Examination of EMD & tender Fee</u></p> <p>As per your tender stipulation, MSE's registered with DIC are exempted from depositing Earnest Money & Tender Fees.</p> <p>We are a MSME Organization initially registered with DIC having Entrepreneurs Memorandum No. EM-2:: 19-017-21-01858E(PART-II) which has subsequently been superceded by Udyog Aadhaar Memorandum Nos A WB10A0002133 & WB10D0002132 (for both Manufacturing & Services) containing the erstwhile Entrepreneurs Memorandum No. EM-2:: 19-017-21-01858E(PART-II).</p> <p>We shall be submitting the above mentioned Udyog Aadhaar Memorandum Nos A WB10A0002133 & WB10D0002132 for exemption of EMD & Tender Fees. Kindly confirm your acceptable of the same.</p>	The tender conditions will prevail.

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
			In this regard, kindly note that we have submitted the same Udyog Aadhaar Memorandum documents in an earlier Kolkata Port Trust Tender (Tender No E-Tender No. 2020_KoPT_552403_1, tender ref. No. SDM(P and E)/T/62/2019-2020) and the same was accepted. A copy of the acceptance letter is enclosed herewith for your ready reference & records.	
3		Performance Bank Guarantee(PBG)	As per the recent Central Government notification dated 12.11.2020 Performance Bank Guarantee for all new projects have been fixed at 3% of the total contract price instead of the earlier rate of 10%. Kindly confirm if the same is applicable for this tender.	The tender conditions will prevail.
4	3.5 / 7 & 11.18 / 128	SD	SD 10% (Page 128, clause 11.18) + EMD Page - 7) :- Please may consider MOF, GOI current circular Atma Nirbhar Bharat Package 3.0 guideline on EMD and SD rate reduction.	The Tender conditions will prevail
5		BG Format	Bank Guarantee will be conditional and as per bank approved format.	Bank approved format not acceptable. However, tender conditions will prevail.
6	11.19 / 128	Defect Liability Period (DLP)	Please consider defect liability period 18 months from supply or 12 months from commissioning whichever is earlier.	Tender conditions will prevail.
7	2.1 / 4	Minimum Eligibility Criteria (MEC) :	Please clarify "other reputed organisations".	The MEC is self-explanatory and as per relevant guidelines.
8	2.2.A	Essential Documents	To accept the experience of working as Electrical, Control and Instrumentation turnkey package sub-contractor to the following main EPC's :	Please refer clause 2.2 A b) at page no. 5.

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
9	23 / 143 and 8 / 80	Substation Monitoring (SCADA) and system	<p>Please provide the following details :-</p> <ul style="list-style-type: none"> a) Basic scheme of substation for monitoring b) Each feeder control scheme c) Tag list for SCADAs d) IO list for selecting the control station. e) Basic architecture f) Any field modification is required for implementing the SCADA g) SLD along with panel details to be monitored by the SCADA system h) Approved vendor for SCADA & PLC i) Main Protection relay of HT VCB will be compatible for IEC 61850. But MFM will have MODBUS protocol only. Your SCADA system would be compatible for both protocol. 	<p>Scope includes;</p> <ul style="list-style-type: none"> • All HT/LT Panels, Transformer (all substation equipment) at substation and Lock area consider for control and monitoring schemes through SCADA. • Tentative system architecture for substation control & monitoring enclosed for reference. However, contractor will have to submit the feeder control scheme, tag list, IO list as per the site requirements & conditions considering all parameters for implement SCADA. • The contractor shall submit SCADA design from the panel manufacturer and get necessary approval from HDC. • SCADA shall be designed in such a way that it will be operated both from sub-station and lock office including display units (size: 20")
			<p>From your specification, it was not clear about your requirement of SCADA system.</p> <ul style="list-style-type: none"> (i) Will there be a separate SCADA system for this job, which will be finally integrated to your Central SCADA system? (ii) Or you require RTUs only in your individual substation and Machine House? These RTUs can be integrated to your Central SCADA System? <p>It will be convenient for us to consider the SCADA architecture if you issue us schematic diagram depicting your system architecture for this contract.</p>	<p>Communication media and protocols for substation control & monitoring system shall be in line with clause no. 8.0 (g) of Technical Specification and relevant standards.</p>

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
10	8.0 / 80 to 82 and 23 / 143	SCADA System	<p>SCADA system :-</p> <ul style="list-style-type: none"> Kindly specify requirement/configuration of PC with type. It is understood that laying of optical fiber is contractor scope. Kindly advice laying procedure, requirement of new/existing cable trench etc. ; Also kindly note that Optical fiber cannot be laying in same level with HT or LT cable. So separate cable support/ GI angle and channel is required. Kindly advise qty of the same and pricing. 	<p>Please refer clause no. 8 of Technical Specification of Tender Document and relevant standards.</p> <p>Laying of OFC through protective pipe with RCC existing /proposed cable trench.</p>
11	13 / 80	List of Approved make	<p>Make of HT panel, LT Panel - List of Approved Make :-</p> <p>Requested to approve authorized channel partner of approved OEM</p> <p>Please approve any CPRI approved panel builder or authorized channel partner / dealer of OEM for LT Panels</p> <p>Please consider channel partner / franchise / System House of OEM or any CPRI approved vendor for LT Panels.</p> <p>Type Test Certificate for LT Panels shall have to be as per IS: 8623. So the panel shall be manufactured as per IS: 8623. Please confirm.</p> <p>Approve CGL make in HT VCB Panel</p> <p>Consider "Rajdeep Industrial Syndicate" make as a panel manufacturer</p> <p>Consider HT & LT Panel make of L&T</p>	<ul style="list-style-type: none"> Supply of HT Panel as per list of approved make. Authorized channel partner of approved OEM is not acceptable. For LT Panel supply from OEM who is having the type test certificate of similar rating and above current rating from CPRI/ERDA. LT Panel shall be of OEM Design. The switchgears and other accessories to be fitted as per list of approved makes of the Tender. LT panel shall be considered IEC61439-1-2. HT and LT panel should have provision to connect with SCADA system. APFC, Capacitors, relays & reactors – Siemens / EPCOS make considered in Sl. no. 34 & 35 of the list of approved make.

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
			Approve "Legrand make" LT panels, Multifunction Meters & TVM, Contactors, MCCB, ACB, Capacitor Banks and APFC Relay.	
			Include Siemens make APFC panels, capacitor banks, APFC relays & detuned reactors.	
12	3 / 36	HT VCB Panel	<p><u>Vacuum Contractor panel :</u></p> <p>As per you BoQ item 3, Vacuum Contractor panel shall be used for Motor feeders.</p> <p>Please note that Short Circuit withstand current for Vacuum Contractor panel shall only be available with 6 KA (Siemens)/ 9KA rating (Schneider) both for 1 sec. Manufacturers use, HRC fuses in Power Circuit.</p> <p>In your Specification- details of VCP was not Specified. S.C. rating of VCB was specified as 26.3 KA for 3 sec.</p>	<ul style="list-style-type: none"> • All the 3.3KV HT panels designed by motorised feeders. • System design should be done considering short circuit rating as 25 kA shall be maintained at the substation. • Short circuit rating of all VCB and accessories shall 25KA.
13			<p>We do not find any SLD for 3.3 KV HT Board, LT PCC- I & 6 nos. PDB in your Tender document. These SLDs (particularly for LT part) are absolutely required showing the outgoing feeder details.</p> <p>Metering & indication equipments of incoming and outgoing feeders are to be shown in SLD.</p> <p>Please provide the same.</p> <p>Please provide SLD for HT 3.3 KV 1250 A VCB (BOQ Sl. No. 1), HT 3.3 KV 630 A VCB (BOQ Sl. No. 2) & 800 A LT Panel (BOQ Sl. No. 6).</p>	<ul style="list-style-type: none"> • Tentative SLD is enclosed for reference. However, detailed SLD to be prepared by the contractor and submit for approval.

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
14	1.01 / 62	Installation of HT Panel and Transformers	Whether the HT Panel & Transformer will be installed on existing foundation or new foundation will be required.	<ul style="list-style-type: none"> HT Panels & Transformers will be installed on existing foundations. If any modification required as per site conditions/EIC direction, Part-B civil work shall be executed. All work of MS channel and GI chequered plate is measured under Civil Work (Part-B) and executed as directed by EIC.
15			Installation of VCB Panel- all the VCBs shall be erected by using suitable size of MS channel foundation bolts including grouting of the bolts of each VCB Panel. Please confirm that all work of MS channel and GI chequered plate is measured under Part-B Civil Work.	
16	5 / 140	LT Panel	The type of standard to be followed for LT panel. It is not clearly mentioned anywhere. Since you have asked for design as per Seismic Zone 4 we presume it is TTA type. Please clarify the same.	All equipment shall be supplied and installed as per Seismic Zone.
17			It is not clearly mentioned no. of pole for incomer. Please clarify all the incomer and outgoing ACB / MCCB to be consider with 3 poles only.	ACB / MCCB shall be considered as 4 Poles (100% Neutral)
18	6.0 / 64 & 92		Applicable Standard for LT panel is not mentioned in specification however Standard is mentioned IS8623 for routine test :- Confirm whether LT panels will be confirming to IS8623/IEC60439-1 or Latest Standard IEC61439-1&2 which is applicable presently. Further, please confirm if Internal Arc test and Siesmic test (Type tests) are required for LT panels since these Standard are mentioned in List of Standards but not mentioned in data sheet. Please clarify	LT Panel supply from OEM who is having the type test certificate of similar Rating and above issued by CPRI/ERDA. The switchgears and other accessories to be fitted as per list of approved makes of the Tender. However, the technical specification of the Tender along with relevant IS and other relevant Standards will prevail. LT panels will be confirming to IEC61439-1&2 or Latest Standard.

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
19			As per the latest IEC/IS Standard for LT Panels, the same should be Design Verified (Totally Type Tested) assemblies conforming to IEC/IS-61439-1-2. As per your specification, you have requirement of Partially Type Tested Assemblies. Since it is already mentioned in Clause 6.2 that manufacturer should conform for latest applicable standards. Hence, the LT panels will be offered to you conforming to IEC/IS-61439-1-2 & IEC61641	
20	7 / 79	APFC Panel	<p>APFC panel / PDBs :</p> <p>a) Rating of MCB was specified as 35 KA for 1 sec. will that be microprocessor based or thermo magnetic based release ?</p> <p>b) For other PDBs, can we use 35 KA rated MCCB? Will that be microprocessor based of thermo magnetic based ? Should the outgoing feeder MCCBs of PDB have Earth Fault protection ?</p> <p>c) What should be S. C. withstand level of Busbar of PDB while the transformer rating is 1000 KVA only, 35 KA or 50 KA?</p>	<p>a) MCB shall be Thermo magnetic based release. Short circuit rating for MCCBs 16 A and below to be 10 kA and above 16 A rating will be 35 kA.</p> <p>b) All MCCBs (4 pole) shall be microprocessor-based release having adjustable O/L, S/C & E/F setting with trip-free. Short circuit breaking capacity of MCCB is 50 KA.</p> <p>c) Bus bar rating PDB shall be maintained based the highest breaker designed rating with relevant standard.</p>
			LT APFC Panel 400 KVAR : No. & quantity of capacitor bank is not available.	No. of capacitors bank based on the design shall be provided by the contractor during approval.
			As Requested to consider any CPRI approved manufacturer for LT APFC Panel or channel partner / franchise / System House of OEM.	Tender Conditions prevails. However, for APFC, Capacitors, relays & reactors – Siemens / EPCOS make considered.
21	3 / 39	Earthing System	Generally integrated type earthing system is provided in HT VCB panel. Do you want extra earthing switch at outgoing side of feeder / incomer VCB Panel ?	Earthing system shall provide as per manufacturer standard & proven design.
22	17/143	Earthing Station	In BoQ Electrode is specified as Cu (600 x 600 x	All HT/LT Panels and Transformer shall provide

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
			3.15 mm) but in technical specification it is mentioned as G.I. (600 x 600 x 10 mm).	plate earthing. However, neutral of the Transformer shall provide by copper strip of size 50 X6 mm and same should be offered in Sl. No. 4(ii) of BOQ. Laying of flat as per standard and site conditions as directed by EIC.
23	19/143	GI Earth Flat	No Copper Strip item is available in BoQ whereas in the Technical Specification it is clearly mentioned that the Neutral Earthing must be connected by Copper Strip and specify depth of installation.	
24		Earthing station	<ul style="list-style-type: none"> • Copper flat plate and GI pipe is mentioned. Please check once again as two separate materials may cause of eddy current loss or bimetallic effect. • Anticipating that connection of GI flat for these electrodes are stated in BOQ item no. 19 (GI Flat 50 X 6 mm) • Kindly mention GI pipe length and grade of the pipe. 	<ul style="list-style-type: none"> • Plate earthing shall be provided as per IER with 50x6 mm GI flat (during execution). • Tentative earthing drawing enclosed for reference.
25	3.6 / 8 and 11.16 & 11.17 / 127	Taking and Handing Over of the installation	<p>Since it will be a brown field project, there will be every chances of part Completion and Commissioning at substation and different machine houses.</p> <p>Since the last 10% payment is related with handing over of entire system, payment for commissioned equipment will be delayed if other establishments were not ready due to non-availability of site clearance.</p> <p>Hence, we would request you to consider part commissioning / handing over of the system if completion period is over beyond Contractual period of 9 months due to no faults on contractor side.</p>	Part commissioning of the system will be allowed. However, the work would be handed over by the contractor after completion of the work in totality and release the payment as per tender conditions.

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
26	1 / 144	Civil work -BOQ	Provide drawing of cable trench	Tentative drawing of RCC cable trench is attached for reference only.
			Provide drawing/ design for 650 x 650 mm RCC cable trench	
			Civil Drawing for Massonary trench is not found	
	2 & 3 /144	Civil work - BOQ	Please confirm whether to apply any paint on joint / cutting and bending of G. I. Chequered Plate and G. I. Angle & Channel.	Provide M.S Chequered plate. Painting procedure as per IS (2C P + 1 IM +2C F). Thickness of MS Angles & MS Channels should not be less than 6 mm and as per direction of EIC, as per site requirement. Please see Addendum-V.
27	11 / 141, 12 / 142 & 14 / 142	Laying ,Testing and commissioning of HT/LT cable and end termination.	Laying, testing and commissioning from Substation to MH Houses etc. Job includes supply & installation of Hume Pipe and G.I. Pipe. Size and quantity of HT End termination for each size of cable may please be provided.	HT / LT cable shall be laid through Hume pipe/ GI pipe as directed by EIC for road crossing. Size of the HT / LT end termination based on the cable size mentioned in the BOQ. However, quantity of the straight through joint as per site requirement which is in the scope of the tender and as directed by EIC.
Laying, testing and commissioning including end termination of LT cables. Depth of LT cable laying is not found.			Laying of HT / LT cable as per IS and IER. Both the HT & LT cables will be laid in the existing & proposed cable trench. However, both HT & LT cable will be laid separately on the supporting angles with FRP cable trays. Cable trench drawing is enclosed for reference.	
The item is including end termination of LT cables of different sizes. Size and quantity of different LT cables have not been provided.				
28				

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
29	12 / 88 & 21 & 22 /143	HT/LT Panel	<p>Please provide details of HT & LT panel & HT isolators , Transformer GA drawings with dimension.</p> <p>Also after dismantling, it will be required to handover to HDC. If Yes, what is distance to handover place from dismantling location?</p>	<p>Layout drawing of the existing substation is enclosed for reference.</p> <p>All dismantled items to be handed over to stores or any location in the port area as directed by the EIC.</p>
30	37	Tools and Tackles	There is no item in the BOQ for Earth Tester and Multimeter. Kindly clarify and also confirm required quantity for the same.	Multimeter and earth tester shall supply on BOQ item 20 (iv) and loaded in the rate.
31	11.16 / 128	Payment terms	Payment terms (Page 128, clause 11.16) :- Kindly consider 10% advance payment	No provision for advance payment. The Tender conditions will prevail.
32			<p>We propose 10% advance against submission of Advance Bank Guarantee. 10% against drawing approval. 70% with 100% taxes for running bill after despatch within 30 days from submission of despatch documents (i.e. Invoice copy & Lorry Challan). 10% after instalation of specific equipment or within 90 days of delivery of materials whichever will be earlier Since, due to brown field job the completion of job shall be totally depends on availability of shutdown at site.</p> <p><u>Service Portion:</u></p> <p>Payment for 90% amount with taxes within 30 days of bill submission of each item will be made against installation of the respective item and submission of bills along with Installation</p>	The tender conditions will prevail.

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
			Certificate. Payment for 10 % amount within 15 days will be made against Testing, successful commissioning, taking over the commissioned job by HDC and submission of bills, along with Job Completion Certificate.	
33			Since, due to brown field job the completion of job shall be totally depends on the availability of shutdown at site, we once again request you to indicate the definite time period for releasing of 30% (i.e. 20% + 10%) supply retention payment from the date of supply of equipments so that in case non availability of shutdown at site for long period of time supply retention payment to be released.	Delay from port side for non-availability of shutdown necessary extension will be allowed without L.D.
34	11.3 & 11.16 / 123 & 127	GST	<p>a) You have asked for the documentation for GST before releasing the GST payment along with our billing. Will GST-RI will serve the purpose?</p> <p>b) Please specify as to whether 100% GST shall be released or not along with 70% payment against supply or 90% payment against earlier?</p>	<p>a) The contractor has to submit evidence document regarding GST payment against each invoice.</p> <p>b) As per existing practice, GST will be released on pro data basis.</p>
35	11.19 / 128	SCC	<p>Mandatory Spares or Recommended Spares :-</p> <p>In tender documents nowhere specified the mandatory or recommended spares for smooth operation during DLP period.</p> <p>Please provide list of mandatory or recommended spares for smooth operation during DLP period and also provide the estimated cost against spares.</p>	The bidder shall ensure their responsibility during DLP. However, complete replacement of the defective parts / materials during DLP on free of cost.

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
36	24 / 143	Fibre Optic Cable	a. Whether it is Armoured or Unarmoured ?	Fibre Optic Cable of size 12 Core or as per requirement with armoured and laying through pipe. FO cable specification as per IS and manufacturer's standards.
			b. Whether cable will be laid to pipe or on 2surface ?	
			c. Technical Specification for FO Cables have not been provided.	
37	5.0 / 57 to 64 & 4.0 / 140	Transformer	<ul style="list-style-type: none"> Kindly add some more reputed transformer manufacture in addition your make. Most of them not well responds to quote for the size and type of transformer as stated in tender. otherwise please specify some qualification criteria for eligibility of transformer manufacturer. Tentative Dimension 2.5 Mtrs X 2 Mtrs X 2.5 Mtrs. And weight approx. 5 Ton Per set. Please ensure your suitable space in Transformer Room and foundation load for erection as er CEA guideline. 	<p>Proposed Transformer to be placed on the existing transformer location with necessary modification (civil work) with relevant standard. The tentative size (3 x 3 x 0.5 mm).</p> <p>Please refer clause no. 13.0 for list of make.</p>
			<u>Oil Type Transformers</u>	
			1) Short circuits withstand capacity for the bolted fault at the terminals shall not be less than 5 second duration with respect to fault level specified. Design calculation to be submitted for concurrence :- Short circuits withstand capacity shall be 2 second as per IS-2026	
38	5.0 / 57	Transformer	2) It shall not exceed 1.6 tesla at rated voltage & rated frequency :- Flux density will be 1.73 tesla.	<p>Sub-station short circuit as 25 KA. All transformers, HT /LT Switchgears etc. will design as per specification of the Tender & relevant IS will prevail. Transformer shall supply as per Tech. Specification and relevant standard.</p> <p>The contractor shall submit the data sheet from the manufacturer based on the Tech. Specification and relevant standard.</p>

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
			<p>3) Magnetising current shall be maximum 1% of the rated current:- Magnetising current shall be maximum 2% of the rated current.</p> <p>4) One no. 150 mm dia. dial type magnetic oil level gauge with alarm & trip contacts shall also be provided :- 100 mm dia. dial type MOG with alarm contact provided</p> <p><u>Pressure release device :-</u> j) Adequate number of Pressure release device shall be provided on tank at suitable locations. This shall operate at static pressure less than hydraulic test pressure of tank. This should have one potential free contact for alarm / trip and should be wired to Marshalling box. Discharge of Pressure release device shall be taken through pipes away from transformer and prevented from spraying on tank :- We have considered explosion vent & not pressure relief valve because function of the both are the same.</p>	
			<p>5) Bushing Current Transformers (Where Applicable) :- Please provide complete details of Neutral CT and note that no any Phase CT in our scope of supply.</p>	
			<p>6) Percentage impedance- 6.25% :- Offered impedance is 5% as per IS- 1180</p>	

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
			<p>7) Top Oil (measured by Thermometer)-35⁰ c In winding (measured by Resistance method)- 45⁰ c Hot Spot temp- 55⁰ c :- Offered temperature rise as per IS- 1180 as under Top oil (measured by Thermometer)- 40⁰ c In winding (measured by Resistance method)- 45⁰ c Hot Spot temp- 98⁰ c yearly weighted 32⁰ c</p> <p>8) Withstand time without injury for 3 phase short circuit at terminals- 5 Secs.:- Short circuit withstand time shall be as per IS- 2026</p> <p>Please provide the energy efficiency level of the transformer</p>	
39	28 to 94	<u>Technical Specification</u>	<p>Insulation Level (TS Clause) :- BIL shall be suitable for 3.3 kV HT Switchboard, as per IS/IEC guideline.</p>	Basic insulation level (BIL) will be 28 kV / 75 kV.
			<p>Gasket (TS Clause) :- Gasket material & position will be as per manufacturer's standard.</p>	As per manufacturers standard & proven design.
40			Base Channel of Panel will be ISCG40 in place of ISMC75 as per manufacturer's standard as ISCG channel design give better strength.	As per manufacturers standard & proven design.
41			Busbar for 3.3kV HT Switchgear Panel has been indicated Aluminium and Copper both. Kindly confirm which one to be considered since, there will lot of price difference between this two types of busbars.	Please consider the following : HT Bus - Copper & LT Bus – Aluminium.

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
42			Kindly inform us Remote panel shall be wall mounting type / free standing and also inform us the distance of Remote panel for ON/OFF operation, kindly inform us the maximum distance of the remote panel from the HT Switchboard.	Free standing type inside substation.
43			Kindly inform us Arc flash sensors required in Cable Compartment / Busbar Compartment / Breaker Compartment in each HT Switchgear panel or in each panel three sensors are required.	Provide sensors as per requirement.
44			Routine Test of Switchgear Panel along with VCB will be shown during Customer / TPA inspection. Test report for CT , PT will be shown during customer inspection.	Routine test shall carry out during Panel test by TPI/ HDC official.
45			Any Type Test reports are not considered to perform. Previous type test report portion (without any age limitation of report) will be shown for review only.	Valid type test shall be considered to perform.
46			Breaking capacity of ACBs are not mentioned. Kindly inform us the Breaking Capacity of MCCB.	Please consider the following ACB : 65 KA , MCCB : 50 KA
47			Rated continuous current as specified while in enclosure and at specified ambient temperature with maximum temperature of bus bars limited to 90 deg. C (TS Clause) :-As per the IEC 61439-6	As per IS/IEC.
48			Stores :- We presume necessary lockable covered storage shall be provided by M/s Haldia Dock Complex to keep the supplied equipment safely till the completion of the job.	Please refer clause no. 11.0 a) i) & ii)
49			Gasket shall be XLPE type as per OEM design and quality guideline.	Gasket shall be as per manufacturer's standard.

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
50			CRP/ Marshalling/ Dummy panel shall not be in our scope of supply.	Since new installation, supply of HT and LT panels in such a way that based on the site condition to supply and install without any dummy panel.
51			Operation & Maintenance height max. shall be as per type tested design.	As per manufacturer's standards.
52			Seismic Test is not mandatory test as per IEC. We shall provide Switchgear Panel as per type tested report.	Agreed.
53		CBCT	Kindly confirm the CBCT requirement. Is it required for all panel? Please confirm.	CBCT is not required for all panel except incomers and motor feeders. Please refer Tender document.
54	3 XVIII	Goose performance	GOOSE performance class shall be class P2/P3, within 20ms and message type 1B.	As per manufacturer standard & proven design.
55	2.1		From table it is not clear which are the transformer feeder & which are Motor Feeder? Kindly confirm the same. Also inform us if any Vacuum contactor panels are required?	Please see the tentative SLD for HT Panel. Vacuum contractor panel need not to be considered.
56	2.3		No. of cable run. Is not clear for feeder wise. Kindly furnish the list for No. of cable run schedule per feeder wise.	Feeder wise cable run would be finalized during detailed engineering as per site requirement.
57	3.0 (Xiii) / 41	External Termination :	External Termination : We understand that External Termination Block shall be available inside the instrument chamber of individual panel as multicor terminal block. There will not be any separte panel for external terminal of the switchboard.	As per manufacturer standard & proven design.
58	3.0 Xi / 41	Phase barrier :	Phase barrier : Our panels are tested for Power frequency and impulse voltage test with out any phase barrier in cable chamber. Hence, we shall supply panel in line with TTR.	As per manufacturer standard & proven design.

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
59	3.0 (iV & V) / 39	Surge arrestor	Surge arrestor : Gapless metal oxide type surge arrestors shall be provided for motor / capacitor / dry type transformer feeders only. The same shall be suitable for 2.5 pu. We do not envisage the requirement of any additional RC unit for the same. If any specific requirement, please confirm.	Agreed please.
60	Xviii / 43	Protection Relays	Protection Relays The main protection relays shall be non-w withdrawable/ non-draw out type. The same shall be multi function type. Protection functions have been considered as per specification. The main protection relays shall be based on communicable protocol of IEC 61850 (RJ 45). Auxiliary protections shall be catered through electromechanical relays. DI/DO for relays have been considered as per our experience. Kindly provide if any specific I/O list is available. All digital numerical relay shall have LED indication. Trip Circuit Supervision function function is inbuilt with Relay. Hence, we have not considered any seperate relay for the same. All protection relays shall be supplied as per type tested design.	Agreed. However relay shall be supplied considering the technical specification of the tender.
61	3.0 (ii) / 38	Internal Arc	Internal Arc : We understand that offered HT panel requirement for Internal Arc at STC for 1 Sec.	Agreed please.
62	3.0 (XVi) / 43	CT :	CT : Is it Busbar Differential or Transformer Differential or Motor Differential? Also, specify the feeder	The Tender conditions will prevail.

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
			name for the same. We understood that REF core of CT is required for I/C feeders only. Please confirm. So that we can choose CT accordingly. Please clarify.	
63	50	CBCT & Surge Suppressor	CBCT & Surge Suppressor : CBCT as well as Surge Suppressor both required for Motor feeder in all 630A rating switchgear. Please confirm.	Already mentioned in Tender Document. Confirmed please.
64	3.0 (ii) , XXViii - Page No. 48)	Base frame :	Base frame : The offered panels are free floor standing type. Additional base frames are not applicable for our design.	Base frame shall be provided.
65		Bus PT cum Riser panel	Bus PT cum Riser panel Bus PT cum Riser panel required with relay or without relay? Please confirm.	Bus PT is not required.
66		B/C & Riser Cum PT	B/C & Riser Cum PT We have not received any specification for B/C & Riser Cum PT. Please confirm.	
67	48	Generator Incomer	Generator Incomer We understood that 1no. Generator Incomer to be considered from total 2nos. Of Incomer from 1250A rating switchgear & shall have bottom power cable entry. Please confirm.	One of the spare feeders for HT panel at main sub-station is to be considered as Generator incomer.
68	XXVii / 46	Test Plug	Test Plug Test Plug to be supplied 1no. Per switchboard. Please confirm.	Already mentioned in Tender Document.
69		Cable termination	Cable termination :	Cable termination would be finalized during

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
			<p>The offered switchgear panels are suitable for taking up to 2R x 3C x 630 sq. mm. or 6R x 1C x 630 sq. mm. cables in their normal depth. However, in case more no. of cables need to be terminated, the same can be done by adding a rear extension chamber to the respective feeder cubicle.</p> <p>We have considered Bottom Cable entry at rear side. Cable will be accessible from rear side only.</p> <p>Potential Transformers : PTs shall be epoxy cast dry type. The VA burden for VTs shall be based on the connected load. Detailed calculation in support of the same shall be furnished during detail engineering in the event of an order. Line PT shall be mounted on rear side for 33kV, if any. Line PT shall be mounted on breaker trolley for 11kV, if any. Bus PT shall be applicable as per specification, if any. VA burden shall be considered during detailed engineering.</p>	<p>detailed engineering. Bottom Cable entry at rear side is acceptable.</p> <p>Agreed.</p>
70		Vacuum Level	Vacuum Level in Vacuum Interrupters shall be as per type tested report.	As per manufacturer's standard
71		Instrument Mounting Height/ Operating Height	Instrument mounting/ Operating Height shall be given as per type tested design.	As per manufacturer's standard
72	9.0 / 82 to 84 & 18 / 143	Battery charger with batteries	Please recheck requirement of DCDB for the distribution of Dc load to various panels and other equipment. Please specify the location of installation of battery and charger and available space.	Sub-station, three machinery houses and impounding pump house.
73		Warranty	We shall provide warranty (not guarantee). Warranty period shall be 24 months from date of despatch of specific equipments or 30 months from date of commissioning whichever will be	No warranty. The contractor shall be given 24 months guarantee. Any issue for shutdown, the

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
			earlier. Since, due to brown field job the completion of the job shall be totally depends on availability of shutdown at site.	time will be in the account of HDC.
74			We presume that site unloading, site storing & site insurance, watch & ward, shifting to installation site, construction of sub-station building, any foundation work, structure work, Civil work (excluding BOQ item), site lighting are NOT in scope.	All the supply items shall be installed as per IER and site conditions. BOQ items are limited and complete the work as per IER and CEA standard.
75		Completion Period	Completion Period :- Supply of Equipment will be 5 months from drawing approval. Initial Major Project Drawing (SLD/GA) will be submitted within 2 months from receipt of PO. Site activity will be completed within 4 months from receipt of clear & continue access to site front & material supply which ever will be later.	Tender conditions will prevail.
76		Defect Liability Period	Defect Liability Period :- 30 months from date of despatch or 24 months from commissioning whichever will be earlier. Since, due to brown field job the completion of job shall be totally depends on availability of shutdown at site.	Tender conditions will prevail.
77		Defect after taking over	Defect after taking over : This clause should be removed.	Tender conditions will prevail.
78		Liquidated Damage	Liquidated Damage : Maximum will be 5% in place of 10%, LD will be sole remedy for any delay / penalty. We also propose Liquidated Damage towards delay in delivery for the undelivered portion only instead of whole contract.	Tender conditions will prevail.
79		Commercial	Kindly confirm your acceptance on Overall	Tender conditions will prevail.

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
			Limitation to Liability clause. <u>Overall Limitation to Liability :</u> Schneider Electric Infrastructure Limited (SEIL) shall not be held responsible for any claims or consequential damages, loss of profit, loss of revenue, loss of production, disturbances in the grid and loss of property. Aggregate liabilities of SEIL for direct damages shall be limited to the payment received as on date and shall not exceed PO value in any circumstances.	
80		Commercial	Kindly confirm your acceptance on Consequential Damages clause. <u>Consequential Damages:</u> Schneider Electric Infrastructure Limited (SEIL) shall not be made responsible / liable for any damages, whether direct or indirect, special, incidental or consequential and or losses, such as loss of profit, loss of production, loss of capacity usage etc. or any other kind not defined herein before including any expenses incurred or to be incurred, arising out any defect in or failure of the equipment of services thus supplied/provided.	Tender conditions will prevail.
81		Commercial	Kindly confirm your acceptance on Suspension clause :- <u>Suspension:</u> If the Buyer fails to comply with the provisions of this Contract, the Seller may, after giving not less than 14 days' notice to the Buyer, suspend work or reduce the rate of work. If the Buyer subsequently cures the failure as specified in the notice, the Seller shall resume normal working as soon as is reasonably practicable. If the Seller suffers delay	Tender conditions will prevail.

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
			and/or incurs Cost as a result of suspending work (or reducing the rate of work) in accordance with this Sub-Clause, the Seller shall give notice to the Buyer and shall be entitled to an extension of time for any such delay, if completion is or will be delayed and payment of any such Cost, which shall be included in the Contract Price. If the suspension under this Sub-Clause continues for a continues period of 60 days then the Seller may, upon giving 14 days' notice to the Buyer, terminate the Contract. Upon such termination, Seller shall be entitled to payment of amounts for the works already carried out and all other incidental costs reasonably incurred including costs of material already ordered or under production, cost of demobilizing and liabilities due to vendors and sub-contractors of the vendors.	
82		Commercial	<p>Kindly confirm your acceptance on Termination clause :-</p> <p><u>Termination:</u></p> <p>In case of termination of the Agreement in whole or in part by customer or Schneider Electric Infrastructure Limited, customer shall pay to Schneider Electric Infrastructure Limited. The outstanding balance of the Agreement value of the works which have been duly performed; The costs incurred by Schneider Electric Infrastructure Limited up to the date of termination in performing the works which are not then in a deliverable state; The costs incurred as a result of termination; and, when the Agreement is terminated for a reason other than a material breach of the Agreement by Schneider Electric Infrastructure Limited, a reasonable sum to compensate the loss of profit,</p>	Tender conditions will prevail.

Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
			which in no case whatsoever be less than five (5) per cent of the price of the remaining amount due for the contractual works Termination of the Agreement in whole or in part, however occasioned shall not affect or prejudice the provisions of this clause.	
83		Commercial	<p>Kindly confirm your acceptance on Force Majeure clauses:-</p> <p><u>Force Majeure :</u></p> <p>No delay or failure by either of the Parties in the performance of this Contract shall give rise to any claim by the other Party or shall deemed to be a breach of this Contract if such delay or failure is the result of occurrence and/or continuation of any one or more events or circumstances of the Force Majeure.</p> <p>Force Majeure means any occurrence or event that is beyond the reasonable control of a Party hereto, including, but not limited to,</p> <p>(a) fire, flood, flooded land, rains, snow, lightning, drought, storm, typhoon, earthquake, tsunami, ash clouding, inundated with sea/ river water, tornado, landslide, subsidence, natural disasters, washout or epidemic or unusual inclement weather, unfavorable weather conditions (foreseeable or unforeseeable) or unusual project site or sea conditions any other similar conditions or acts of God; etc.;</p> <p>(b) war, (declared or not) hostilities, explosions, insurrection, rebellion, sabotage, vandalism, invasion, riots, strikes, freight embargos, social commotion; agitations, labour disturbances, turbulence, accident, casualties, civil war, or any</p>	Tender conditions will prevail.

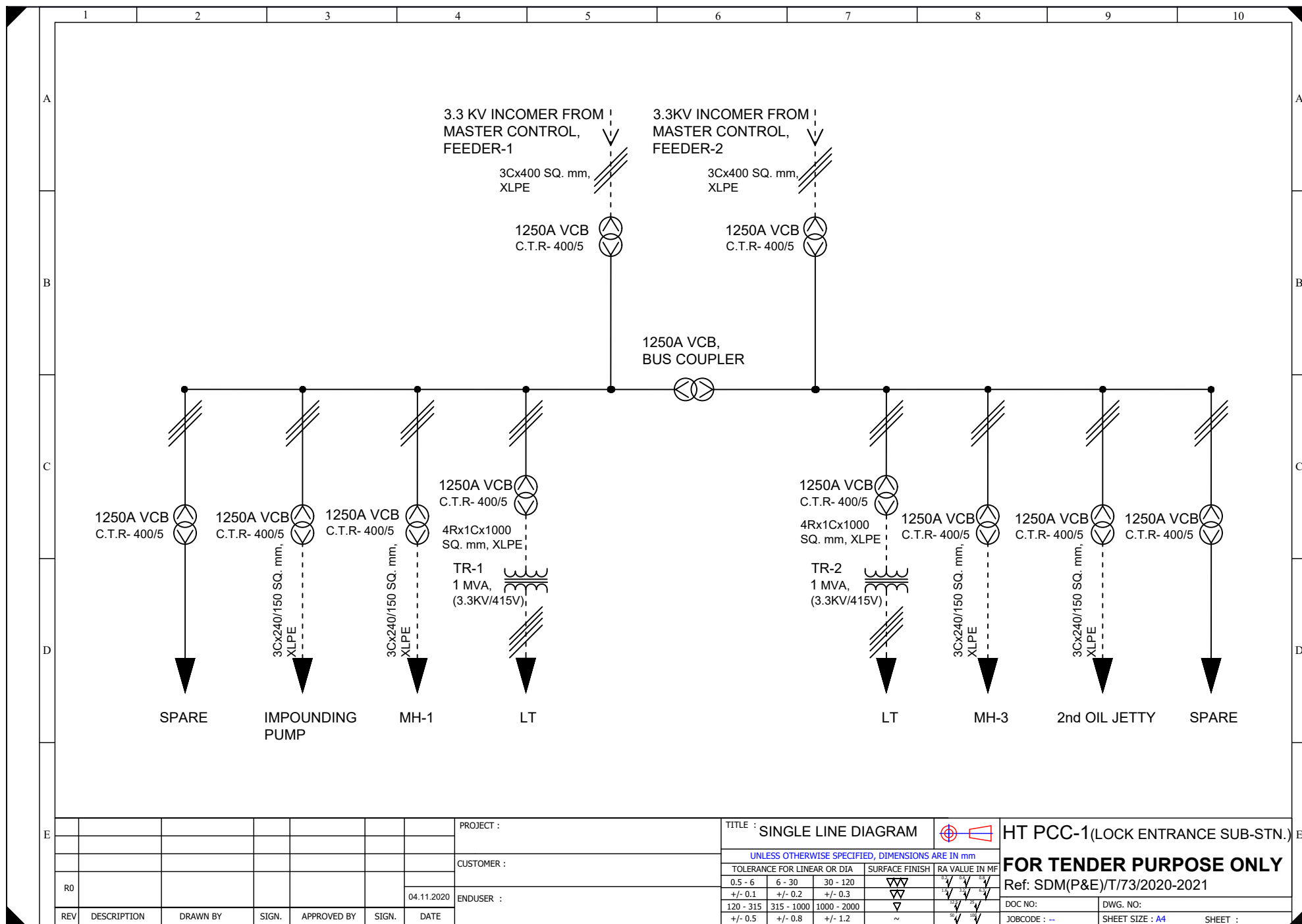
Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
			<p>other act of public enemies, etc.</p> <p>(c) acts or omissions of any court, legislative, judicial or executive body, or other governmental authority (such as a taking by condemnation or power of eminent domain), any expropriation or confiscation of facilities, compliance with any order of any governmental authority, changes of law etc.. Any Party that is affected by an Event of Force Majeure shall given written notice thereof to the other Party no later than 15 (fifteen) days following the date of occurrence of the Event of Force Majeure in question, providing appropriate details thereof. If performance under this Agreement is delayed as a result of continuation of the Event of Force Majeure, the time allowed to comply with such obligation shall be extended for as long as the relevant event of Force Majeure causing such delay or suspension continues. If the Event of Force Majeure continues for a period of (3) three months, then either Party may suspend the Contract by providing notice to the other Party and both the Parties shall mutually discuss and agree for the suitable next steps to be taken up. For such time, the suspension is in force, the Buyer shall provide the equitable extension to the Seller. In case Parties to the Contract decides to terminate the Contract, Parties to the Contract to settle their account with each other without any damages or cost. The Seller shall be entitled for the entire cost of work done. The consequences of termination under this Clause would be similar to termination at convenience of the Buyer.</p>	
84	12.0 / 88 and	Removal /dismantling of HT BOCB etc. + 500	Removal /dismantling of HT BOCB etc. + 500 KVA (2 nos.) transformer :-	Dismantling equipment to be shifted to store or in any location inside dock as decided by EIC.

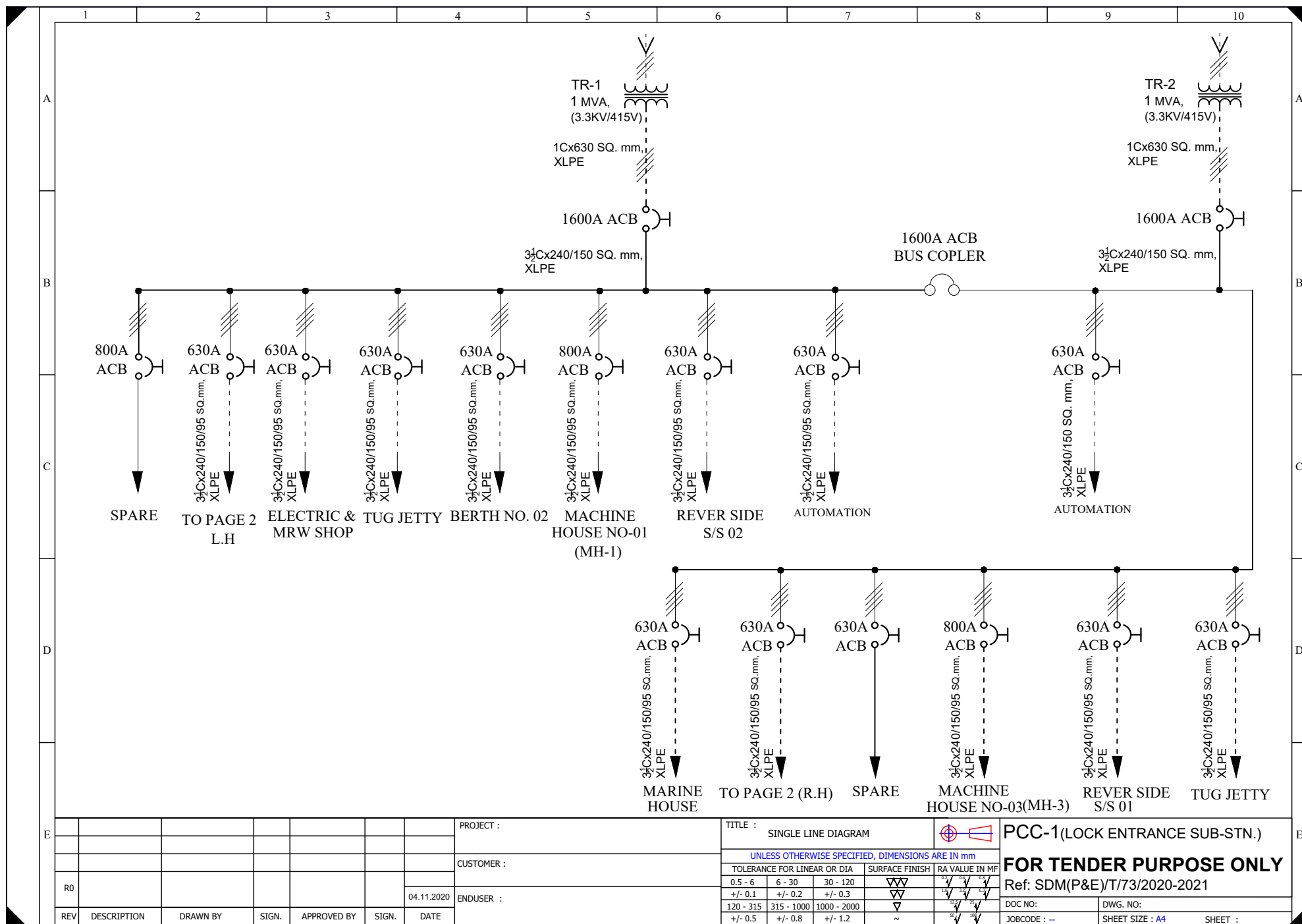
Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
	21 & 22 /143	KVA (2 nos.) transformer	<ul style="list-style-type: none"> Please specify the store location i.e distance from the existing substation. 	
85	1 of Part -B / 144	RCC Cable trench	<p>Construction of RCC cable trench with top cover size 650 mm X 650 mm – 350 mtrs :-</p> <ul style="list-style-type: none"> As per site visit 350 mtrs seems to be not sufficient. Please increase the quantity or include the price variation clause only this item Kindly give the size of RCC cable trench. 	<p>Please refer clause no. 11.27 of SCC (Page no. 129) of Tender Document.</p> <p>Tentative cable trench drawing provided. Also see Addendum-V.</p>
86	2 of Part –B / 144	G.I Chequered plate	<p>GI chequered plate -2500 Kg :-</p> <ul style="list-style-type: none"> Quantity may increase. Please advice 	<p>Please refer clause no. 11.27 of SCC (Page no. 129) of Tender Document. If required, quantity will be considered under variation clause. Also see Addendum-V.</p>
87	3 of Part –B /144	GI angle and channel for cable support	<p>GI angle and channel for cable support- 500 kg :-</p> <ul style="list-style-type: none"> Quantity is very less considering site condition and initial survey during our site visit on 23.11.20. Please increase the quantity or include the price variation clause only this item 	
88		Statutory approval	<p>Kindly confirm the charges for CEA approval. As per tender it is your scope. However, documentation is our scope :-</p> <ul style="list-style-type: none"> Please confirm 	All necessary documents / drawings shall be submitted by the contractor for approval and necessary payment will be made by HDC.
89	11.15 / 126	Electricity	Electricity /construction power can be provided free issue bas	Please refer clause no. 11.15 (page no. 126).
90		Accommodation	<p>Accommodation of site engineer :-</p> <ul style="list-style-type: none"> Kindly provide one standard quarter in your colony for our site engineers. Also kindly consider the assistance for necessary entry gate pass for the erection team during execution of work. 	Accommodation of site engineer shall be under the scope of the contractor. However, HDC provide quarter, if any, on chargeable basis.

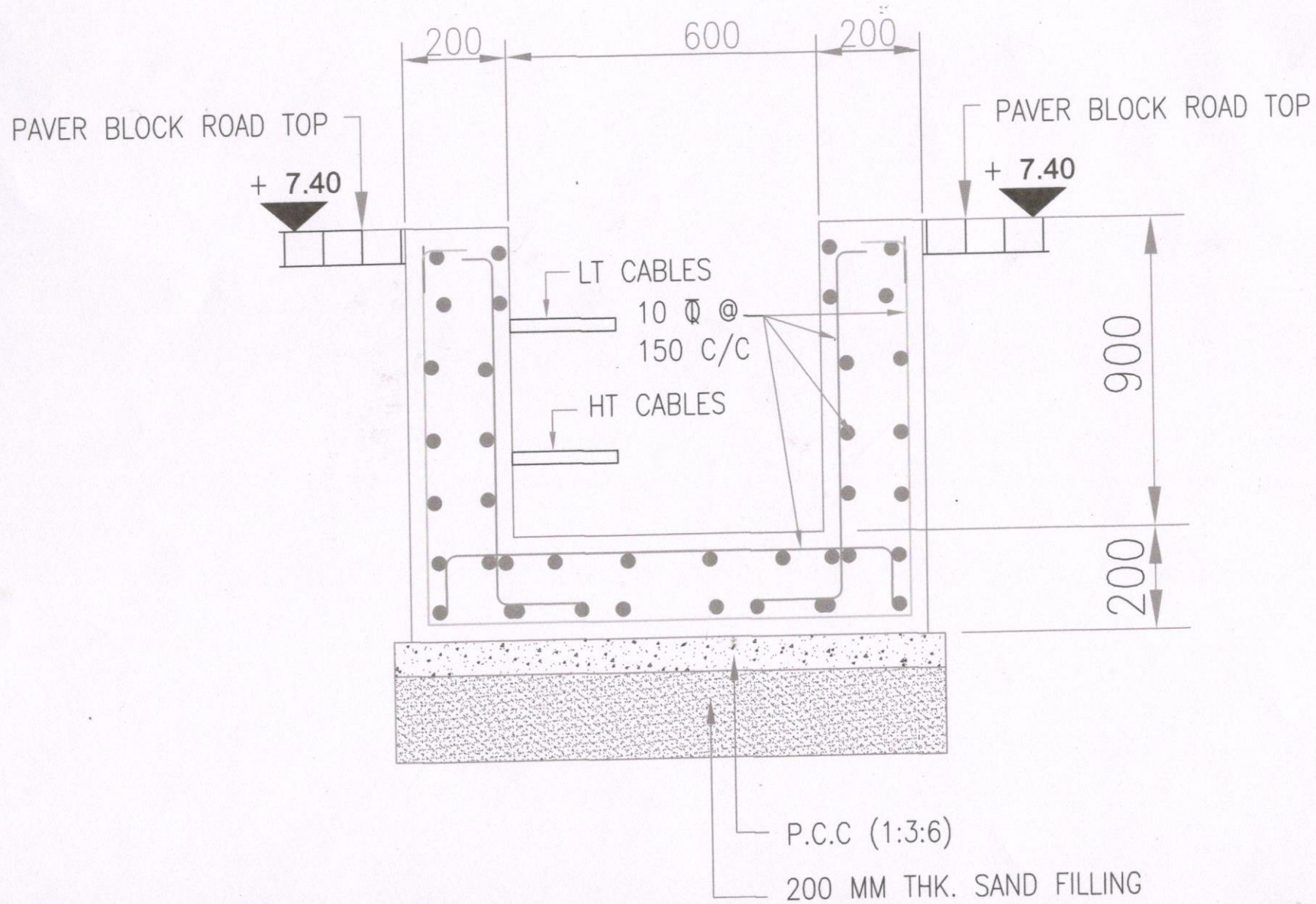
Sl. No.	Clause No/ Page No.	Tender Conditions	Queries of the firms	Clarifications of HDC, SMP, Kolkata
91			Please clarify Consortium Bidding is allowed or not.	Consortium bidding is not allowed.
92		Extension of Bid submission Date	Extension of Bid submission Date :- Kindly grant atleast 15 days' time extension from present Bid submission date as our major suppliers have requested us for the same for their preparation of best possible techno-commercial offer. Kindly consider.	Due date of submission of bid has been extended. Please see Addendum-IV.

Note :

All the tentative drawings / SLDs attached are for reference purpose. The contractor will have to prepare detailed drawings and SLD based upon site conditions with relevant standards of the contract.

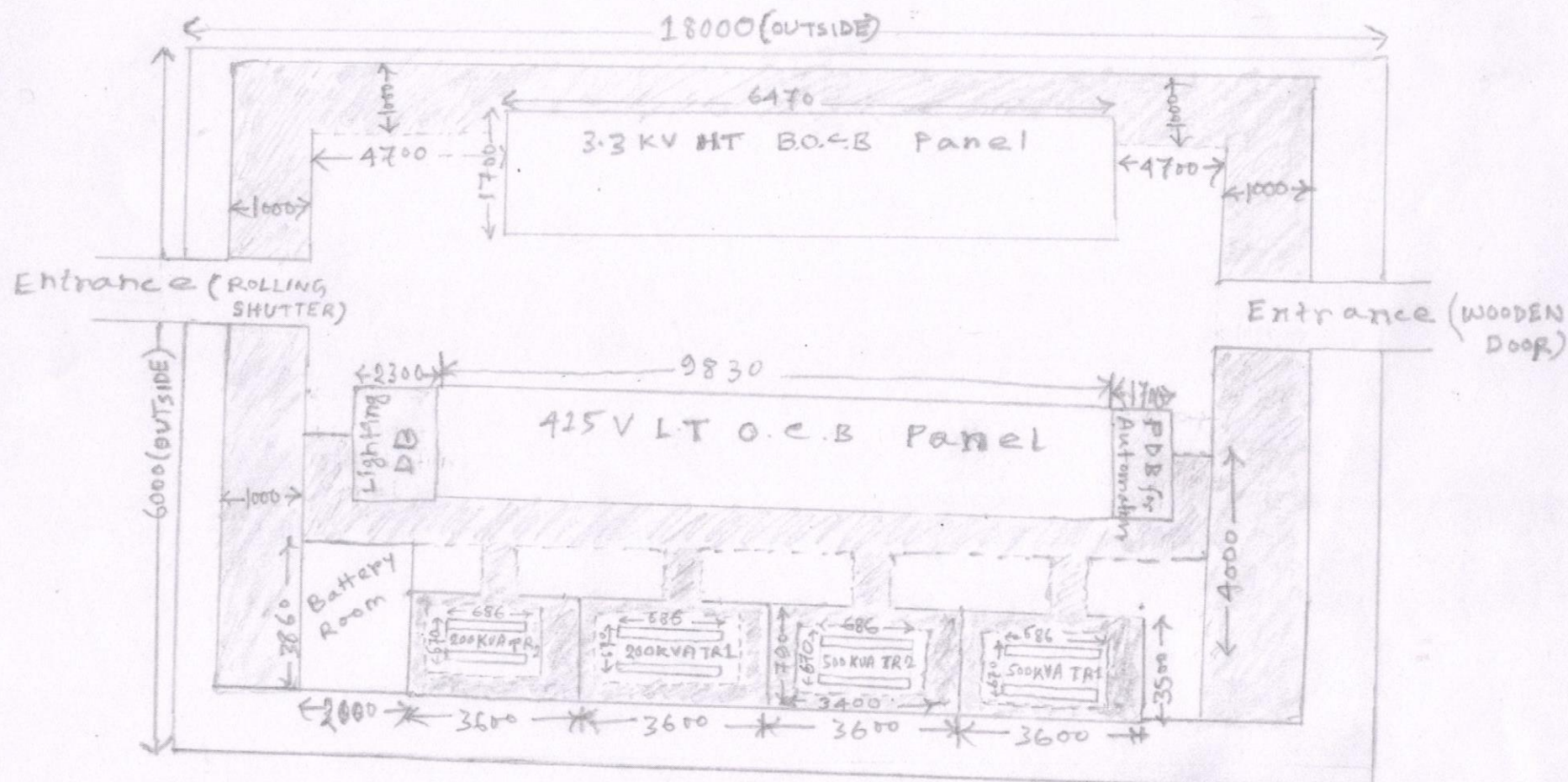







CROSS SEC. OF CABLE TRENCH
(M-25 CONC.)

DRAWING NO - 2
(FOR TENDER PURPOSE ONLY)



LEGEND:-

 EXISTING CABLE TRENCH

FOR TENDER PURPOSE ONLY

REF: SDM (PJE)/T/73/2020-2021

LAYOUT OF EXISTING 3.3 KV/415V SUB-STATION

NOTE → ALL DIMENSION IN MM

Drawing no. 1

Technical

SYSTEM ARCHITECTURE FOR SUBSTATION CONTROL & MONITORING

SCADA AT MSS SS

EQUIPMENT LEGEND

	RTU
	Pxxx IED Protections
	H3xx Switch
	PC/Server
	Gateway
	Switch
	GPS Clock
	Network Printer
	Matrix Printer
	Laptop
	Third Party Device

LINK COLOR	
	Multi Mode FO connectivity (FO Cable / FO Patch Cord)
	RJ45 cable
	RS485 cable
	Coaxial cable

