SYAMA PRASAD MOOKERJEE PORT,KOLKATA

Formerly KOLKATA PORT TRUST

HALDIA DOCK COMPLEX

Tender No. SDM(P&E)/T/ 74 /2020-2021

E-Tender No. 2020_KoPT_600112_1

FOR

Design, Supply, Installation, Testing and Commissioning of 25 Nos. 30 Mtrs. high Hot Dip Galvanized High Mast Tower with LED fitting and replacement of LED luminaires on 40 Nos. existing 30 Mtrs. High Mast along with Comprehensive Maintenance Contract of 5 years at Haldia Dock Complex, SMP, Kolkata (Phase-II).

ADDENDUM - I

CORRECTIONS / ADDITIONS / DELETIONS, ETC.

[Total Number of Pages : 7]

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

Tender No. SDM(P&E)/T/ 74 /2020-2021

E-Tender No. 2020_KoPT_600112_1

Sl. No.	Page No.	Clause No.	As specified in the Bidding Document	To be deleted & read as / Remarks
1.	68	10.6 Data Sheet for New 30M HM tower.	For 1.5KW (2.0 HP) motor, operating speed 1400RPM	For 1.5KW (2.0 HP) motor, operating speed - 900RPM
2.	**74**	12.0	Plate Earthing shall be adopted.	Plate Earthing shall be adopted as per Earthing pit drawings attached as **Annexure-A**
3.	**74**	12.0	Earthing Strip shall be of hot dip GI of size 50mmx6mm for Body & of Copper 50mmx6mm for Neutral protected against corrosion and readily accessible. The strip shall be connected to earthing terminals with Stainless Steel nut – bolts. Separate Earthing for Body and Neutral shall be provided.	Earthing Strip shall be of hot dip GI of size 50mmx6mm for Body & Neutral for protection against corrosion and shall be readily accessible. The strip shall be connected to earthing terminals with Stainless Steel nut – bolts. Separate Earthing for Body and Neutral shall be provided.
4.	**41**	**INDOOR HT VCB PANEL**	b)Incoming cable entry box shall be provided for the required cable entry.	b) Cable box suitable for receiving two length of 2Rx 3C x 400 Sq. mm HT XLPE aluminium, armoured UG cable.
5.	**41**	**INDOOR HT VCB PANEL**	v) Cable box suitable for receiving single length of 4Rx 1C x 1000 Sq. mm HT XLPE cable.	Stands deleted.

Sl. No.	Page No.	Clause No.	As specified in the Bidding Document	To be deleted & read as / Remarks
6.	**84**	Non-Comprehensive / Comprehensive Maintenance Contract, Scope of work	xiii. Job includes installation of additional luminaries, control gear, junction box, wire rope etc. on High Mast type Lighting tower. All materials will be supplied by HDC, SMP, Kolkata. xiv. Job also includes re-wiring of luminaries, Control gear, junction box, etc. on High Mast type Lighting tower. All materials will be supplied by HDC, SMP, Kolkata.	xiii. Job includes installation of additional luminaries, control gear, junction box, wire rope etc. on High Mast type Lighting tower. All materials will be supplied by contractor. xiv. Job also includes re-wiring of luminaries, Control gear, junction box, etc. on High Mast type Lighting tower. All materials will be supplied by contractor.
7.	**58**	5.5 Laying of cables	**…..as shown in Drawing No.:SK-334**	**…..as shown in Drawing No.:SK-334 (attached as-Annexure-B)**
8.	**45**	4.1 HT Panel	a)11 kV, 630A SF6 encapsulated VCB with self-tripping mechanism having external dc source with numerical relay with IDMT, over current, earth fault and Instantaneous protection including TVM.	a)11 kV, 630A SF6 encapsulated VCB with self-tripping mechanism with numerical relay with IDMT, over current, earth fault and Instantaneous protection including TVM. Self-Powered Relay, Ashida-make is also acceptable for use in RMU for O/C & E/F protection having Modbus Communication over RS 485 port.
9.	**47**	4.2 Transformer	The input to the Transformer for specified kV shall be by means of XLPE cable and output of the Transformer for specified kV and output of the Transformer to the LT panel shall be by XLPE cable. A common underbase on which the above HT cubicle, Transformer and LT panel are assembled and inter connection made as mentioned above.	The input to the Transformer for specified kV shall be by means of **Three Core 1 run of 95Sq.mm Copper, unarmoured, rubber cable) with** end terminations (heat shrinkable) and output of the Transformer for specified kV to the LT panel shall be by **4 Nos. 800A Silver Plated Copper bus bar (P+N)**. A common underbase on which the above HT cubicle, Transformer and LT panel are assembled and inter connection made as mentioned above.
10.	**48**	4.2 Transformer	The lifting lugs and rollers shall be provided	Stands deleted.

Sl. No.	Page No.	Clause No.	As specified in the Bidding Document	To be deleted & read as / Remarks
11.	**49**	4.2 Transformer	The transformer shall be so designed it should have minimum losses and it shall be submitted by the Bidder	The transformer shall be so designed it should have losses as per IS and type test reports shall be submitted by the contractor.
12.	**50**	150kVAR APFC Capacitor Panel.	The panel shall be a cubical type metal clad board equipped with Microprocessor based intelligence version APFC relay with 3 phase CT sensing, Switch Fuse Units with HRC fuses (feeder Control), Heavy duty contactors and metering equipment and controlling banks of capacitor mounted in ventilated compartments with IP:54 protection with bottom lowers. The switch units, contactors, etc. shall be selected to suit Capacitor ratings.	Single Phase CT sensing APFC relay as per approved make list of tender.
13.	**50**	150kVAR APFC Capacitor Panel.	The capacitor offered shall be non self-heating type, super heavy duty long life MPP type conforming to IS 2834 and IS 13585.	Capacitors shall be Self Healing MPP Heavy Duty type confirming to IEC 60831.
14.	**51**	150kVAR APFC Capacitor Panel.	Capacitors are also to be provided 0.2% series Reactor to limit the fault current or inrush current during switching operations along with ON delay timer on individual feeder.	To be deleted.
15.	**54**	4.11 Internal Wiring	Wiring inside the switchgear/panel shall be carried out with 1.1 kV grade, zero halogen FR stranded conductor wires. Minimum size of conductor for power circuits is 4 sq mm copper. Control circuits shall be wired with copper conductor of at least 2.5 sq. mm for CT circuits /other control circuits.	Control ckt for LV shall be 2.5 mm sq for CT Ckt , 2.5 mm sq for control ckt & 4 mm for earthing .
16.	**55**	14.2	**500 kVA, 11/3.3 kV / 0.433 kV, 3 Phase, 50 Hz Package outdoor Sub-station** : a) **Routine Tests** and **Temperature Rise Test** (as per IS:2026) will be witnessed by **the TPI Agency or**	**500 kVA, 11/3.3 kV / 0.433 kV, 3 Phase, 50 Hz Package outdoor Sub-station** : a) **Routine Tests** will be witnessed by **the TPI Agency or** the representative of

Sl. No.	Page No.	Clause No.	As specified in the Bidding Document	To be deleted & read as / Remarks
			the representative of Engineer at Manufacturer's works before despatch Manufacturer's Certificate for **Type Test**, should be made available to **the TPI Agency or** the representative of Engineer during the above inspection.	Engineer at Manufacturer's works before despatch. Manufacturer's Certificate for **Type Test**, should be made available to **the TPI Agency or** the representative of Engineer during the above inspection.
17.	**79**	Note		4. Stainless steel wires -7/19, 6mm on existing HM Towers to replaced with 2Nos. (62Mtrs. each), 8mm dia. Stainless steel wires as per specification of new High Mast towers**.**
18.	**163**	Part E	Cost of energy based on design offered for 10years operation:- Factor (F)=446.76 [Year@10=3650days,Operation per day=12Hrs. Cost of energy=Rs.10per unit **Loss@2%=1.02** Watt to kilowatt conversion=1/1000 F=3650X12X10X1.02/1000=446.76]	Cost of energy based on design offered for 10years operation:- Factor (F)=29,039.40 [Year@10=3650days,Operation per day=12Hrs. Cost of energy=Rs.10per unit, High Mast=65Nos. Loss@2%=1.02 Watt to kilowatt conversion=1/1000 F=65x3650X12X10X1.02/1000=29,039.40] Factor (F)= = 29,039.40
19.	**6**	3.11	**i) Starting date & time of submission of e-Tender** at https://eprocure.gov.in/eprocure/app **01.01.2021 from 11:00 Hrs. (IST).**	**i) Starting date & time of submission of e-Tender** at https://eprocure.gov.in/eprocure/app **15.01.2021 from 11:00 Hrs. (IST).**
20.	**7**	3.11	**ii) Closing date & time of submission of e-Tender** at https://eprocure.gov.in/eprocure/app **11.01.2021 up to 15:00 Hrs. (IST).**	**ii) Closing date & time of submission of e-Tender** at https://eprocure.gov.in/eprocure/app **27.01.2021 up to 15:00 Hrs. (IST).**
21.	**7**	3.11	**iii) Date & time of opening of Part-I (Techno-commercial Bid)** **12.01.2021 up to 15:30 Hrs. (IST) onwards.**	**iii) Date & time of opening of Part-I (Techno-commercial Bid)** **28.01.2021 up to 15:30 Hrs. (IST) onwards.**

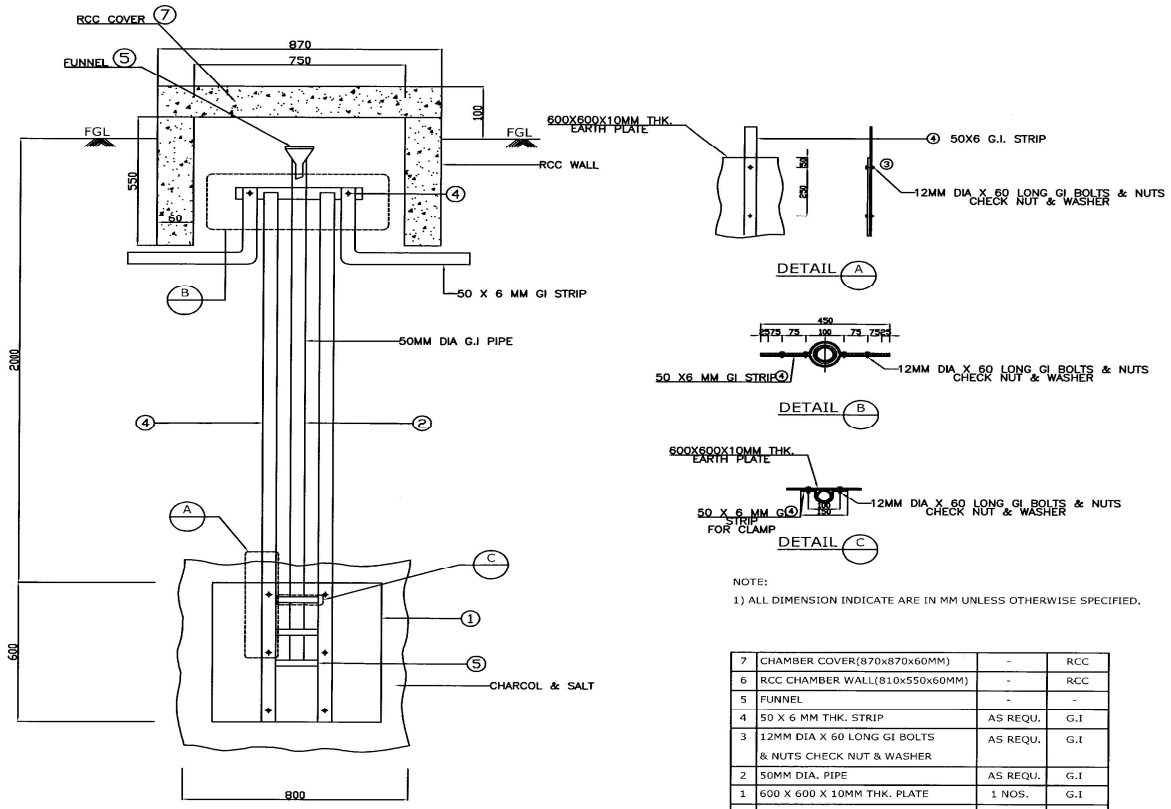

PLATE EARTING PIT
EP2

NOTE:
1) ALL DIMENSION INDICATE ARE IN MM UNLESS OTHERWISE SPECIFIED.

NO.	DESCRIPTION	QUANTITY	REMARK
7	CHAMBER COVER(870x870x60MM)	-	RCC
6	RCC CHAMBER WALL(810x550x60MM)	-	RCC
5	FUNNEL	-	-
4	50 X 6 MM THK. STRIP	AS REQU.	G.I
3	12MM DIA X 60 LONG GI BOLTS & NUTS CHECK NUT & WASHER	AS REQU.	G.I
2	50MM DIA. PIPE	AS REQU.	G.I
1	600 X 600 X 10MM THK. PLATE	1 NOS.	G.I

REVISION	DESCRIPTION	DATE
0	DRAWINGS FOR APPROVAL	16/01/20
1		
2		
3		

CUSTOMER: HALDIA PORT TRUST, KoPT

PROJECT: Design, Supply, Installation, Testing and Commissioning of 30 M high Hot Dip Galvanized High Mast Tower with LED Fitting at CG, Berth & Back Up Area at HDC, KoPT

P.O NO. :-

DRAWN BY: VSP | CHECKED BY: JTS

ALL DIMENSIONS ARE IN MM. | SCALE: NTS

TITLE :- EARTING PIT DETAILS (PLATE ELECTRODE)

DRG.NO : REPL/KPT

REV. 00 | SHEET NO. | NO. OF SHEETS 01

SINGLE/MULTI NUMBERS H.T./L.T. CABLES IN ONE TRENCH.
(WIDTH OF THE TRENCH OF THE CABLE WILL DEPEND ON THE NO. OF CABLES AND DIAMETER OF CABLES.)
G.L.
G.L.
NATURAL SOIL (BACK FILLING)
TOP PROTECTIVE BRICK
SIDE WALL PROTECTIVE BRICK
H.T./L.T. CABLE
250 mm (approx)
75mm (approx)
175mm (approx)
SILVER SAND BEDDING
75mm (approx)
L1
225mm approx
75mm approx.
L
L FOR H.T.CABLE
L FOR L.T.CABLE
L
L1
H.T. CABLE As per Spec.
100 mm
L.T.CABLE As per Spec.
50 mm
KOLKATA PORT TRUST
HALDIA DOCK COMPLEX
M(P&E)'S DRG.OFFICE
SINGLE/MULTI NUMBERS H.T./L.T.
CABLES IN ONE TRENCH.
SCALE :- NTS
DRG. NO. SK-334
NAME
DT
DGN.
DRN.
TCD.
CKD.
APVD.