



Kolkata Port Trust

Mechanical Engineering Department
8, Garden Reach Road, Kolkata- 700043



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No : Mech/SE-I/ 25/ 218/1806

Date : 11.07.2018

Dear Sir,

Sub : Supply, Installation & Commissioning of Reefer Pillar Box along with
allied electrical installation work.

Quotation in duplicate is sought for the subject work in a sealed cover, super scribing the work as per enclosed specification and bill of quantities. Quoted price should be exclusive of GST.

Documentary evidence for PAN No, GST, Trade license, Electrical contractor's license, ESI/Affidavit, PF Certificate are to be submitted along with the quotation.

The firms are requested to deposit a sum of Rs.14,000/- towards Earnest Money in DD/Banker's Cheque/Pay Order on any Kolkata Branch of a nationalized/schedule commercial bank of India, drawn in favour of Kolkata Port Trust along with their offer. The firms are also requested to accept KoPT's all terms and conditions as incorporated in the tender documents. KoPT will provide the 16 nos. Reefer Socket to be installed on the Pillar Box and make necessary arrangement of raised Platform for installation of Pillar Boxes & o necessary cable trench for laying of cable.

Site inspection followed by pre bid meeting will be held on 13.07.2018 at 11.00 hrs. Sealed offer in duplicate in **single parts**, containing earnest money, and techno commercial part of the tender bearing signature of appropriate authority on each page and price bid without any addition & alternation with respect to tender should reach this office on or before 11.00 hrs. on 19.07.2018 which will be opened at 11.30 hrs on the same date in presence of the representatives of the quotationer.

Thanking you

Yours faithfully

Encl:- As above

Sd/-

(S. K. Das)
Sr. Executive Engineer (Elect-I)
for -chief Mechanical Engineer

CONDITIONS OF TENDER

1. It is not obligatory on the part of the Trustee to accept the lowest tender. They reserve the right to accept a tender in full or in part and/or reject a tender without assigning any reason.
2. The tenders must be submitted in duplicate along with descriptive literature of the equipment offered. The form of Tender and Bill of Quantities annexed thereto, duly filled in must be returned along with the tender. All entries on the Form of Tender and the Bill of Quantities must be made in ink, which shall be faultless in figures and entirely free from erasers. Corrections, if any, shall be made only by scoring out and initialing them. All expenses in connection with submission of tender shall be borne by the tenderer.
3. All the pages of the Tender Document duly signed by the tenderer including price bid are to be submitted by the Tenderer. Also, copy of the 'Minutes of Pre-Bid meeting' issued, if any, pursuant to the Pre-bid meeting shall be duly signed and attached.
4. Certified copy of valid Electrical Contractor's Licence, GST Registration No., Trade Licence and PAN.
5. Certified copy of 'Employees' State Insurance (ESI) Registration certificate' **OR** an affidavit before a first class judicial magistrate as per the format given in **Annexure-A** (in case the Tenderer is not covered under ESI Act or exempted from it).

The tenderers, if not covered under ESI Act, shall, additionally, indemnify KoPT against all damages and accidents to his labourer in a non-judicial stamp paper as per the format given in **Annexure-B**.

6. **Completion time:** 45 days from the date of placement of order letter.
7. **Validity:** The period of validity of tender must be clearly stated which shall not be less than 4 (four) months from the date of opening of techno-commercial offer.
8. **Taxes & duties:** The quoted price should be exclusive of GST. GST will be extra on applicable items at prevailing rate.
9. **Security Deposit :** 10% of the quoted value will be deducted from the bill of the successful quotationer towards security deposit which will be refunded without interest after successful completion of the guarantee period of one year.
10. **Liquidated damage :** In case the work is not completed within the stipulated completion period, liquidated damage @ ½ % per week subject to a maximum of 10% of the ordered value will be deducted from the bill.
11. **Guarantee:** The contractor shall make good at his own expenses of all defects, due to faulty design, materials and workmanship, which may develop under proper use during a period of 12 months from the date of installation and successful commissioning of the work. Should any difference of opinion arise on any of the provisions of this clause, the decision of the Engineer shall be final and binding. In default, the Trustees will be at liberty to get the repairs done and reimbursed themselves so far as costs therefore are concerned out of the amount lying with them as security deposit so far as that is practicable. If the costs of such repairs exceeding the amount of security deposit, the Contractor shall pay the balance to the Trustees forthwith on demand. Where the Contractor has submitted bank guarantee in lieu of cash security money, the cost of such repairs will be payable to the Trustees forthwith on demand.
12. **Safety:** The Contractor shall take adequate safety precautions for prevention of accidents at site. The Contractor shall ensure that his employees observe the statutory safety rules and regulations

13. Identification mark: For identification of various equipment letter/figure writing of sizes varying from 12 mm. to 75 mm. with enamel paint of approved shade /standard ferules are to be carried out as per directive of Engineer

14. The bidders shall not rely merely on the descriptions given on the bill of quantities. The quantities shown on the bill of quantities are approximate only and the actual quantities may vary at the time of execution of the work depending on site condition. If when preparing the tender documents, the tenderer considers that any essential item has been omitted from the bill of quantities the prices of which cannot be conveniently included under any other item, the tenderer shall request the Engineer in charge to insert a suitable item during pre bid meeting only. Should the tenderer omit to mention the price of any item in the bill of quantities, the tender may be treated as cancelled.

14. EVALUATION CRITERIA

(i) A fully priced bill of quantities duly totaled shall be submitted with the tender. A price shall be inserted against each item of the bill of quantities and these prices shall include all manner of labour, material plant tools and all other matters necessary for the execution of the contract in accordance with the general conditions, specifications, drawing, if any, and bill of quantities.

(ii) If it is found on examination of a tender that there is a discrepancy between the total amount inserted in the bill of quantities and the amount arrived at by valuing the quantities set out there in and the rates and prices set against them, by the tenderer, calculation for the total amount will be made on the basis of Unit Rates multiplied by quantities. Evaluation of the tender will be done on the basis of **total amount of Bill of Quantities** thus arrived excluding GST.

15. The rates quoted in the tenders shall hold good and shall be binding on the tenderer not withstanding any increase in the prices of materials and labour or in the freights of levy or other charges whatsoever and the tenders shall not be entitled to claim any increase over the rates quoted by him.

16. The Trustees reserve the right to disqualify a tender, in case they are satisfied that any bribe, commission, gift or advantage has been given promised or offered by or on behalf of the tenderers to any officer, employees or representative of the Trustees or to any person on his or their behalf in relation of the acceptance of the tender.

17. Drawings: On completion of all work, the Contractor shall furnish the "DIAZO" and three copies of all "As made" drawings including cable route diagram to the Engineer without any cost.

18. The tenderers shall submit the manufacturers Test certificates for all the brought out items provided in the equipment.

19. The tenderer shall afford all facilities to the Engineer at their own arrangement for inspection and demonstration of the equipment, quoted for, by the Engineer.

20. The equipment shall be supplied and delivered at the site as specified.

21. For erection, if applicable, of the stores/ plant/ equipment/ machineries/ item, all connected work including grouting bolts, Base frame and Bed plate etc. shall be provided by tenderer. During erection all tools and tackles are to be provided by Tenderer. Tenderer should guard all equipments, etc. at site by his own men at his own cost. However, only space for making temporary god-owns can be provided. Any purchase for supply items from other sources, not specified will not be allowed for payment purpose.

22. All payments like refund of Earnest Money, Security Deposit and all bills of contractors' will be paid through ECS. For this purpose, following details are to be furnished by the tenderer:-
- i. Name of the bank with Code No. :-
 - ii. Name of the Centre :-
 - iii. Name of the Branch with Code No. :-
 - iv. Bank account no. :-
 - v. Type of account : - Saving/Current/Cash Credit
(Strike out whichever is not applicable)

The account shall have to be with a bank within the ECS zone prescribed by the RBI.

TERMS OF PAYMENT

1. For supply items: -

- a. 60% payment against supply and delivery of materials / equipment / machineries / items at site together with required Test Certificates etc. from appropriate authorities including inspection certificate of KoPT's representative, as applicable and on submission of Custodian Certificate.
- b. 30% payment against installation and commissioning.
- c. 10% payment on commissioning, testing and handing over of the entire work after satisfactory completion certificate.

2. Installation and commissioning: -

- a. 90% payment against installation and commissioning.
- b. 10% payment against commissioning, testing and handing over of entire work. after satisfactory completion certificate.

Any defect and / or deficiency in the equipment supplied shall have to be made good by the contractor before any bill is passed for payment

Payment will be made on the basis of actual measurement.

SCOPE OF WORK

The Scope of Work under Specification covers the following:-

1. Supply, delivery, installation & commissioning of Reefer Pillar box as per specification.
2. Supply, delivery, laying, termination & commissioning of LT cables.
3. Supply, delivery and fixing of cable end box to the Feeder Pillar boxes as per specification., if any.
4. End Termination of the cable.
5. Earthing.

Including all appurtenant works as described and set forth in, Bill of Quantities, Special Conditions of contract, Technical Specification of works, Specification of materials & Workmanship with all additional or varied works which may thereafter be required.

Unless otherwise specified, the work to be provided for by the contractor shall include but not be limited to the following:-

- a) Provide all materials, supervision, services, scaffolding and temporary lighting as required for work purposes etc.
- b) Prepare and submit for review and assessment to the Engineer working drawings showing how the work is actually going to be done as may be required by him.
- c) The contractor shall carry out the work in phased manner as per availability of the site so that normal day to day activities are not affected for which no such extra payment will be entertained.

Any work, considered required by the contractor and not mentioned hereunder, for successful completion of the project, is to be included in the item of bill of Quantity suitably, which should be finalized in the pre bid meeting.

The work shall be carried out as per Indian Electricity Act, 2003, Indian Electricity Rules, 1956 with latest amendments and latest revised IS Code of Practice.

KoPT will provide the 16 nos. Reefer Socket to be installed on the Pillar Box and make necessary arrangement of raised Platform for installation of Pillar Boxes & necessary cable trench for laying of cable.

TECHNICAL SPECIFICATION:
Technical Specification of 3.5 Core, 240 sq. mm., 1.1 KV grade, Cross Linked Polyethylene (XLPE) Cable :

The cables should be generally compliance with **IS 7098 (Part-1)** / 1988 or latest amendment if any with following specifications :

Conductor : Stranded Aluminium comply to IS : 8130-1984 or latest amendment if any,
 Colour coded,
 Voltage Grade : 1.1KV,
 Insulation : XLPE ,
 Inner Sheathed : Extruded PVC,
 Armour : Galvanized Steel Strips,
 Outer Sheathed : Extruded PVC,

Before laying of Power Cables, Cable Routes should be checked properly to avoid interference with the existing cables, structures, drains, pipings, etc. as far as possible and minor adjustments to be done to suit the field conditions, wherever deemed necessary, without any extra cost. Cables are to be laid in the existing cable trench arranged by KoPT.

Technical Specifications of Feeder Pillar Boxes

The Feeder Pillar Box shall comprise of following accessories –

- (i) 02 nos. 400A, 4 Pole MCCB SDFU as incoming / outgoing,
- (ii) 04 nos. 32A TP MCB as outgoing unit,
- (iii) Suitable opening arrangement for installation of 04 nos. 32A, 415V, 4P(TP+E) panel mounted Industrial Plug,
- (iv) 04 nos. Aluminium bar as Phase & Neutral bus bars and 1 no. Aluminium bar as earth bus bar with suitable size,

Feeder Pillar Boxes will be made of MS with opening on both sides and double door arrangement on front opening side having IP-66 protection fabricated from 3.15mm thick sheet steel and of size approved by Engineer. The box shall be painted with epoxy painting on outside surface and two coats of synthetic enamel paint of approved colour over one coat of red lead paint on inside surface (in accordance with IS 13032, IS 8623) of the MS box complete with railway type locking arrangement. Gland plate should be punched for entry of 02 nos. 3.5C x 240 sq. mm., 1.1KV Grade XLPE cable.

The Feeder Pillar boxes shall be installed on existing masonry trench by suitable nuts & bolts after grouting the bolts in the masonry trench foundation. The Panels shall be checked for correct vertical position using pendulum weight and spirit level. All the wiring connections should also be checked with drawings and tightened. All openings should be sealed to avoid ingress of any foreign particles inside the panels. All the wiring, Bus Bars, other live parts, Incoming & Outgoing Cables should be meggered with 500 Volt Megger. Supply of all materials including hardware materials, as required, is under the scope of the Contractor. The boxes shall be double earthed through earthing system

Laying of Power Cables and the termination are to be done under continuous supervision of the **Contractor's Engineer / Supervisor**, holding certificate of competency.

Earthing, :- Details is given in BOQ items

SPECIFIED MAKE:		
Sl. No.	Item	Specified Make
1.	CABLE (1.1 KV, 3.5 x240 sq.mm]	Gloster / Polycab / Havells
2.	PVC CU WIRE for Internal Wiring	KDK / Supercab / Finolex / Havell's / Anchor
3.	MCCB/MCB/MCBDB/ Contactor/ Time Switch	L&T / SIEMENS / HAVELLS/ Legrand (India) Pvt. Ltd./ Schnider or any other reputed make.
4.	Cable Termination Kits	RAYCHEM /3M

FORMAT OF AFFIDAVIT
On the Rupees Ten Non – Judicial Stamp Paper

BEFOR THE 1ST CLASS JUDICIAL MAGISTRATE AT-----

AFFIDAVIT

I ----- son of ----- aged about -----
 Years , by faith ----- , by occupation -----, residing at-----

do hereby solemnly affirm and declare as follows:-

That I am the proprietor/Partner of ----- having office at -----
 and carrying on business on the said name and style.

(In case the above Deponent is an enlisted Contractor at Kolkata Port Trust, the same should be mentioned in affidavit.)

THAT my aforesaid Firm is exempted from E.S.I. Act and the said Firm has no valid E.S.I Registration.

THAT the present affidavit is to be files before the Kolkata Port Trust as per the clause no -----
 ----- of Tender no-----issued by Kolkata Port Trust in respect of the
 work (the name of the work is to be mentioned)

That the statements made above are all true to be the best of my knowledge and belief.

DEPONENT

Identified by me

(FORMA OF INDEMNITY BOND)
On the Rupees Fifty Non – Judicial Stamp Paper

INDEMNITY BOND

By THIS BOND I, Shri/Smt-----, son of Shri/Smt-----

Residing at ----- by occupation -----the Partner/Proprietor/Director
 -----having office at ----- am a tenderer under Mechanical Engineering
 Department, Kolkata Port Trust(A statutory body under MPT Act, 1963)

2 WHEREAS , the said Kolkata Port Trust asked the every tenderer, who is not covered under
 E.S.I Act or exempted to furnish an Indemnity Bond in favour of Mechanical Engineering
 Department, Kolkata Port Trust against all damages and accident to the Labourer
 Tenderer/contractor.

3 NOW THIS BOND OF INDEMNITY WITHNESSTH THAT the Tenderer/contractor named
 herin above shall indemnify the Kolkata Port Trust AGAINST ALL DAMAGES AND
 ACCIDENT OCCURRING TO THE Labourers of the Tenderer/contractor as demanded by
 the Kolkata Port Trust and which shall be legal and /or claimed by the Kolkata Port Trust
 during the execution of the work stated in the NIT No----- of -----

4 AND the contractor hereunder agree to indemnity and at all timeskeep indemnified the
 Kolkata Port Trust and its administrator and representative
 And also all such possible claim or demand for damages and accidents.

In WITNESS WHEREOF I-----, the Partner/Proprietor/Director-----
 Hereto set and seal this the----- Day of-----
 In the year----- at-----

Sureties

Signature of the Indemnifier

1 Signature
 Name:-
 Address

2 Signature
 Name:-
 Address

3 Witness

Signature
 Name:-
 Address

BILL OF QUANTITY

Item No.	Description	Qty.	Unit	Unit Rate (Rs.)	Amount (Rs.)
1.	Supply and delivery of 3.5C x 240 sq. mm. Cable with following specification, Conductor : Stranded Aluminium comply to IS : 8130 - 1984 or latest amendment if any, Colour coded, Voltage Grade : 1.1KV, Insulation : XLPE , Inner Sheathed : Extruded PVC, Armour : Galvanized Steel Strips, Outer Sheathed : Extruded PVC, Conforming to IS: 7098 (Part - 1) / 1988 or latest amendment if any.	300	Mtr.		
1a.	Laying of above cable through existing pre- laid RCC/Hume/HDPE Pipe /trench.	300	Mtr.		
2.	Supplying and fixing compression type gland complete with brass gland, brass ring & rubber ring for dust & moisture proof entry of XLPE armoured cable, size of 3.5C x 240 sq. mm., 1.1KV Grade.	10	Nos.		
2a.	Finishing the end of above mentioned LT cable by crimping method inclusive supplying and fixing solder less socket (Dowels make), tapes, anticorrosive paste & jointing materials.	10	Nos.		
3.	Supply and delivery at site of MS Feeder Pillar Box with double door arrangement of approved design with earthing attachment and epoxy painting on outside surface & 2 coats of synthetic enamel paint over 1 coat of red lead priming on inside surface, fabricated by 3.15 mm thick MS Sheet with fixing following accessories : (i) 400A 4P MCCB - 02 Nos. (ii) 3 Phase & Neutral Busbars and Earth Bus Bar with suitable size. (iii) 32A TP MCB : 04 Nos. (iv) Opening for Industrial Plug socket for 3P + 1E : 04 Nos. Gland plate should be punched for entry of 02 Nos. 3.5C x 240 sq. mm., 1.1KV Grade XLPE cable. Necessary protection to be provided as outside installation (IP 66).	04	Nos.		
3a.	Installation of above mentioned Feeder Pillar Box on existing structure with the help of nuts & bolts as required including earthing arrangement by 50 mm x 6 mm galvanized (Hot Dip) steel strip with suitable length and commissioning.	04	Nos.		

Item No.	Description	Qty.	Unit	Unit Rate (Rs.)	Amount (Rs.)
4.	Earthing with 50 mm. Dia GI Pipe (TATA - Medium) x 3.0 Mtrs. Long and 1 no. 50 mm. X 6 mm. Galvanized (Hot Dip) steel strip (4 Mtrs. Long), 20 mm dia x 125 mm long galvanized bolt, double nuts, double washers including finishing both ends by making holes etc. and S & F 65 mm dia GI Pipe (ISI - Medium) protection (3 Mts. Long) to be filled with bitumen under the ground level. Providing masonry enclosure on the top of the earth electrode of overall size 86.36 cm x 86.36 cm x 46 cm deep (below ground level) complete with cemented brick work (1 : 6) of 25 cm width duly plastered with cement mortar (inside). CI hinged inspection cover of size 36.56 cm x 36.56 cm with locking arrangement, GI reducer including drilling of 46 nos. 12 mm dia holes on the GI pipe. With treatment of soil by using salt & charcoal or coke for pipe electrode. Earthing work is to be carried out as per relevant IS.	03	Nos.		
5.	Connecting the equipments body to earth bus bar inclusive S&F 50 mm. X 6 mm. Galvanized (Hot Dip) MS flat under the ground level / on wall/floor with GI saddle as required and connection to equipments with inclusive drilling holes, bolts, nuts, washers etc. and mending good the damages as required.	220	Mtr.		
	Total Amount (in Rs.)				

Total in words (Rupees _____)

Note: The quantity above may increase or decrease as per requirement, for which payment will be made as per quoted rate at actual. The above price is exclusive of GST, which shall be paid extra on actual.

(Office Rubber Stamp of the
Tenderer Firm)

Signature of the Tenderer

Dated, the _____

Signature of the Witness