



# KOLKATA PORT TRUST HALDIA DOCK COMPLEX

AN ISO- 9001: 2008 ORGANISATION



Office of Plant & Equipment Division,  
Operational Administrative Building (1<sup>st</sup> floor),  
Chiranjibpur,  
P. O.- Haldia,  
Dist.- Purba Medinipur,  
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No: SDM(P&E)- IV/ 924/ ENQ/ 11/

Dated: 22.07.2016

To

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Dear Sir,

**Subject: Enquiry for the work of laying & installation of 3.3 KV grade, 3 Core x 95 Sq. mm., XLPE insulated, Armoured, Aluminium Conductor Power Cable, from Master Control Sub-station to the Ring Main Distribution Board, for Coal Ship Loader, at Berth No. 4, inside Dock Zone of Haldia Dock Complex, Kolkata Port Trust, at Haldia.**

**Ref.: This office Enquiry No. SDM(P&E)- IV/ 924/ ENQ/ 11 Dated: 22.07.2016.**

You are requested to submit your sealed offer, as described below, for the subject work, considering enclosed Terms & Conditions (**Annexure – ‘A’**), Scope of Work and Technical Specification (**Annexure- ‘B’**), Declaration of the bidder (**Annexure- ‘C’**), Single/ Multi Numbers HT/ LT Cables in one trench (**Drawing No.- SK- 334**) and Bill of Quantity - Priced (**Annexure – ‘Bill of Quantity - Priced’**), downloading from the website.

The offer is to be submitted in single part and the same should contain :

- i) One set of the **enquiry letter**, along with Terms & Conditions (**Annexure – ‘A’**), Scope of Work and Technical Specification (**Annexure- ‘B’**), Declaration of the bidder (**Annexure- ‘C’**) and Single/ Multi Numbers HT/ LT Cables in one trench (**Drawing No.- SK- 334**), duly signed and stamped, on each and every page, as token of acceptance of the same.
- ii) The Price Bid, as per **Bill of Quantity- Priced** (strictly in the format of **Annexure – ‘Bill of Quantity- Priced’**) of the enquiry. No extraneous condition shall be included in the Priced Bill of Quantity.

The bidder (i.e. registered firm/ company) should fulfill the following requirements for submitting their sealed offer for the subject work :

- 1) Submission of **Earnest Money Deposit**,
- 2) The bidder must have experience in executing similar work. Document(s) showing proof of successful completion of the job(s) must be enclosed along with the offer,
- 3) The bidder must have valid Electrical Contractor's License,
- 4) The bidder must ensure that if order is placed on them, the work will be executed at site under Electrical Supervisor(s) having Certificate of Competency of appropriate statutory authority, for underground cables exceeding 1100 Volts and up to 11000 Volts  
and
- 5) The bidder will have to submit the up to date Professional Tax Payment Challan/ Valid Professional Tax Clearance Certificate as additional document. Documentary evidence of payment challan/ clearance valid up to 31<sup>st</sup> March of the last completed accounting year may be submitted by the bidder. However, it would be the responsibility of the contractor to comply with the requirements of the concerned authority during entire tenure of the contract.

**If Earnest Money Deposit is not found submitted/ attached along with the offer, the offer will not be considered and the same shall be liable for rejection**

The bidder would be given a maximum of 15 (fifteen) days time for submission of any document essential or otherwise not submitted along with their offer and also to submit clarification/ confirmation on commercial and technical deviations and withdraw any extraneous conditions which are not in line with KoPTs terms and conditions in respect of the tender, otherwise their offer would be considered as non responsive.

The sealed offer, **super scribed with Enquiry No. SDM(P&E)- IV/ 924/ ENQ/ 11 Dated: 22.07.2016, Due Date of Opening and contents of the envelope** is to be submitted at the office of Plant & Equipment Division, Haldia Dock Complex (HDC), Kolkata Port Trust (KoPT), at the 1<sup>st</sup> Floor of Operational Administrative Building of HDC, at Chiranjibpur, Haldia **within 14:30 hrs. of 04.08.2016.**

**The offer would be opened on 04.08.2016, 15:00 hrs. onwards,** at the office of Plant & Equipment Division, HDC, KoPT, at the 1<sup>st</sup> Floor of Operational Administrative Building of HDC, at Chiranjibpur, Haldia. **If Earnest Money Deposit is not found submitted/ attached along with the offer, the offer will not be considered and the same shall be liable for rejection.**

In case of unscheduled Holiday/ unavoidable situation on the date of opening of the Bid, the same will be opened on the next working day, 15:00 Hrs. onwards. The bidder will also be allowed to deposit their Bid till 14:30 Hrs. on such extended day of opening of the bid.

**HOWEVER, THE TENDER WILL NOT BE EXTENDED UNDER ANY SITUATION.**

You may depute your authorized representative to be present during opening of the offer(s).

Thank you,

Yours faithfully,

**(K. MUKHOPADHYAY)**  
**Sr. Dy. Manager (P&E)**  
**Haldia Dock Complex**  
**Kolkata Port Trust**  
July 22, 2016  
Encl: As stated above.

**KOLKATA PORT TRUST  
HALDIA DOCK COMPLEX  
PLANT & EQUIPMENT DIVISION**

**Subject: Enquiry for the work of laying & installation of 3.3 KV grade, 3 Core x 95 Sq. mm., XLPE insulated, Armoured, Aluminium Conductor Power Cable, from Master Control Sub-station to the Ring Main Distribution Board, for Coal Ship Loader, at Berth No. 4, inside Dock Zone of Haldia Dock Complex, Kolkata Port Trust, at Haldia.**

**TERMS & CONDITIONS**

**The job will be governed by the following terms & conditions:**

1. **THE TENDER WILL NOT BE EXTENDED UNDER ANY SITUATION.**
2. **Earnest Money:**

The offer shall have to be accompanied with Earnest Money Deposit, amounting to a sum of **Rs 3,200.00 (Rupees Three Thousand Two Hundred) only.**

Earnest Money shall have to be deposited by Demand Draft/ Banker's Cheque/ Pay Order, issued from any Nationalized Bank/ Scheduled Bank of India, drawn in favour of "Kolkata Port Trust, Haldia Dock Complex", payable at Haldia. **The original Demand Draft/ Banker's Cheque/ Pay Order shall be kept attached with the offer in a separate sealed envelope (Cover- I), super scribing the Enquiry Number, Banker's Cheque Number/ Bank Draft Number/ Pay Order Number and Amount.**

The tenderer may also deposit the Earnest Money in Cash at the Cash Office of Finance Division, Haldia Dock Complex (HDC), Kolkata Port Trust (KoPT) at Jawahar Tower, P.O.: Haldia Township, Dist.: Purba Medinipur, West Bengal, Pin- 721607 and shall obtain the Treasury Receipt of the same. The said Treasury Receipt, as a proof of deposition of Earnest Money shall be kept attached with the offer, super scribing the Enquiry Number, Treasury Receipt Number and Amount.

**If Earnest Money Deposit is not found submitted/ attached along with the offer, the offer will not be considered and the same shall be liable for rejection.**

Earnest Money deposited by unsuccessful bidder(s) will be refunded, with out any interest.

Earnest Money deposited by successful bidder (i.e. the contractor) will be refunded with out any interest, after recovery of the amount, towards **security deposit**, from the bill(s) of the contractor.

**Earnest Money** may be liable for forfeiture at the option of the Trustees, if the Tenderer withdraws his offer within the validity period of the offer and/ or alters/ amends any terms and/ or condition and/ or quoted rate(s), within the validity period of the offer (excepting when option to do the same has been specially granted by Kolkata Port Trust in writing) making in unacceptable to KoPT, and/ or **in case of successful tenderer**, fails to carry out the work or to perform/ observe any of the conditions of the contract.

3. The price(s) should be quoted **on FOR Haldia site basis** and should remain firm. All taxes, duties, freight, transit insurance etc. as applicable should be indicated separately.

Haldia Dock Complex (HDC), Kolkata Port Trust (KoPT) do not enjoy any concession regarding Sales Tax/ VAT and do not provide any 'C' or 'D' Form in this regard. Hence, full amount of VAT or C.S.T. or State Sales Tax, if any, will be applicable and to be charged accordingly. Excise Duty and Service Tax, if applicable, would be paid on production of CENVATABLE Document. Kolkata Port Trust (KoPT) is not a Registered Body Corporate as per Service Tax Law.

4. **Payment Terms:** 95 % payment will be made on completion of the job, on submission of clear and unambiguous bill (in triplicate), along with required documents like job completion certificate(s) etc. Payment would be made against actual executed quantity of different item(s). Balance 5 % payment would be made without any interest, after successful execution of the order and completion of the guarantee period.
5. **Completion Time:** The contractor will have to complete the total job, as detailed in the enquiry, in all respects, **within 30 (Thirty) days, from the date of placement of order** of HDC.
6. **Inspection & Testing:** Physical checking of the materials to be supplied, work under execution and executed work will be carried out at site as per scope of work and terms & conditions. The contractor will have to provide all facilities for inspection of the materials and executed work, at their own risk, cost and arrangement. Inspection & testing of the work by the representative/ authorized agency of

Plant & equipment Division, HDC shall not relieve the contractor from his obligation for furnishing the materials and workmanship in accordance with the specifications.

7. **Guarantee:** The materials supplied and work executed by the contractor will have to be guaranteed for 12 (twelve) months, from the date of completion of the work. The inspection will not relieve the contractor from his liability of guaranteeing against defective materials, works etc. and full satisfactory performance up to the stipulated Guarantee Period.
8. **Liquidated Damage Clause:** In the event of failure of the contractor to execute the contract within the stipulated dates or such extension(s) thereof, as may be allowed by appropriate authority of Haldia Dock Complex (HDC), in writing, the contractor will be required to pay as compensation to the Trustees and not as penalty @  $\frac{1}{2}$  % for every week or part thereof of the unexecuted portion of work, provided always the entire amount of compensation to be paid under the provision of this clause shall not exceed 10 % of the total contract value. The Trustees may without prejudice to any other method of recovery, deduct the amount of such damages from any money, which is due or which may become due to the contractor. The payment or deduction of such damages shall not relieve the contractor from his obligation to complete the supply of the materials or from any other of his obligation or liabilities under the contract.
9. **Force Majeure:** In the event of either party being rendered unable by Force Majeure to perform any obligations required to be performed by them under the contract, the relative obligation of the party affected by such Force Majeure shall upon notification to the other party be suspended for the period during which Force Majeure event lasts. The cost and loss sustained by either party shall be borne by respective parties. The terms Force Majeure as employed herein shall mean acts of God, Earthquake, War, Revolt, Riot, Fire, Floods, Sabotage and Hurricanes/Cyclone, Strike excluding that of contractors & suppliers or Sub-contractor's Employees. Upon the occurrence of such case and upon its termination the party alleging that it has been rendered unable as aforesaid, shall notify the other party in writing immediately but not later than 48 (forty-eight) hours of the alleged beginning and ending thereof giving full particulars and satisfactory evidence in support of its claim.
10. **Validity:** The validity of the offer should **not** be **less than 120 (One Hundred Twenty) days from the date of opening of the offer.**
11. **Kolkata Port Trust/ Haldia Dock Complex** reserves the right to accept or reject the offer and do not bind themselves to accept the offer or to assign any reason thereof and no damage claim whatsoever will be payable by **Kolkata Port Trust.**
12. In connection with execution of the order, necessary **Gate Pass** for entering into the **Dock Area**, if required, will be provided **Free of Cost.**
13. The bidder shall have to give a declaration in the enclosed format [**Annexure- 'C'**] regarding banning or delisting by any Government or Quasi- Government Agencies or PSUs. If this declaration is not found enclosed along with their offer, the same may be rejected as non-responsive.
14. **Pricing and Evaluation Criteria:**

Price is to be quoted in Indian Rupees (INR) only for the item as per Bill of Quantity (BOQ). Rate is to be quoted strictly as per Bill of Quantity inclusive of all charges and taxes, duties etc.

During evaluation, the quoted rate against the item including taxes, duties, levies etc. and all other charges, as applicable, should be considered for evaluation.

**Evaluation will be made on the basis of overall lowest offer of the bidder(s) meeting all terms & conditions of the enquiry.**

While evaluating the price bid, the unit rate quoted by the tenderers for the item as mentioned in the price schedule inclusive of all taxes, duties & levies etc. should be taken into account and the same will be multiplied by the respective quantity, against the item and thereafter total summation will be done. The selection of the lowest tenderer will be made on the basis of sum TOTAL AMOUNT. **While evaluating the Price Bid, any extraneous condition will not be considered.**

It is not obligatory on the part of the Trustees to accept the lowest tender. **They reserve the right to accept a tender in full or reject a tender without assigning any reason thereof.**

Price quoted shall remain firm during the validity period of the offer, including any/ all extension thereof, agreed by the bidder.

In case, it is found that the **Total Price** (in **Indian Rupees**) [arrived as per the above procedure] is same for two or more bidders and their offers become the lowest offers, the respective bidders will be

given chance to submit their fresh Price Bid subject to the condition that the fresh price so quoted must be less than the price quoted earlier by the respective bidders.

15. In the event of part order being placed, the rate against the item constituting the order shall be identical to the rate for the corresponding item quoted in the Price Bid. Tender terms & conditions shall also remain unaltered irrespective of whether order is placed in a whole or part of the BoQ. No plea for subsequent withdrawal or amendment of the offer will be entertained.
16. Sr. Dy. Manager (P&E), Haldia Dock Complex, Kolkata Port Trust shall have the power to order the contractor to make any variation of the quantity, quality or form of the works or any part thereof that may, in his opinion, be necessary and the contractor upon receipt of such an order, shall have to accept the same and execute the work in that way.
17. The contractor must also provide to the concerned contract labourers such welfare facilities like first-aid, drinking water, washing, latrines and urinals, rest shelters, canteen etc. as statutorily required.
18. Tools, Tackles, lifting machineries, different vehicular transport etc. required for execution of the whole work will have to be arranged by the contractor, at his own risk, cost & arrangement, which may be considered, while submitting their rates in the Price Bid.
19. **SAFETY & ENVIRONMENT:**

The contractor shall adhere to safe construction practice, guard against hazardous and unsafe working conditions and follow all safety precautions for prevention of injury or accidents and safeguarding life and property. The contractor shall comply with relevant provisions of Dock Workers (Safety, Health and Welfare) Act- 1986 and Dock Workers (Safety, Health and Welfare) Regulation – 1990 and Safety Officer of the Trustees or Safety Inspectors shall be afforded all facilities for inspection of the works, tools, plant, machineries, equipments etc. wherever so required. The contractor shall further comply with any instruction issued by the Engineer, Trustees' Safety Officer, Safety Inspector in regards to safety which may relate to temporary, enabling or permanent works, working of tools, plants, machineries, equipments, means of access or any other aspect.

The contractor shall provide all necessary first aid measures, rescue and life saving equipment to be available in proper condition.

**The contractor shall provide PPEs (Personal Protective Equipments) such as helmet, safety shoe etc. to all workers** and shall also provide job specific PPEs e.g. safety belts for working at heights; protective face and eye shield, goggles, hand gloves for welding/gas cutting works; protective foot wear and gloves for hot works; facemasks, gloves and overalls for painting works, mixing and handling materials etc., as directed by the Engineer.

All safety rules shall be strictly followed while working on live electrical systems or installations as stipulated in the relevant safety codes.

Use of hoisting machines and tackles including their attachments, construction tools, machineries and equipments shall comply with the relevant safety codes.

Before allowing workers in sewers, manholes, any duct or covered channel etc., the manhole covers shall have to be kept open and ventilated at least one hour in advance and necessary safety torches/lamps should be inserted first before allowing entry to the worker. Suitable hand gloves and other safety gear will be provided to the worker during handling/removing of slushes/sludge etc. without any extra cost.

The contractor shall adopt all the above safety measures at his own cost.

Laying & installation of the cable including GI Pipes will have to be done under the railway tracks at railway yard. The workmen should be cautious while executing the work at site regarding movement of wagons, locomotives therein.

The contractor shall also ensure that –

- a) No damage is caused to plants and vegetations unless the same is required for execution of the project proper.
- b) The work shall not pollute any source of water/land/air surrounding the work site so as to affect adversely the quality or appearance thereof or cause injury or death to animal and plant life.
- c) His office & labour hutment etc. shall be maintained in a clean and hygienic condition throughout the period of their use and different effluents of the labour hutment shall have to be disposed off suitably.

**20. CONTRACT LABOUR LAWS:**

The Contractor must comply with the provisions of Contract Labour Regulation & Abolition) Act – 1970 and Contract Labour (Regulation & Abolition) Central Rules – 1971 and the rules framed there under with all modifications/amendments being enforced from time-to-time.

The Contractor shall indicate maximum number of workmen to be engaged on any day for execution of the work. He shall have to obtain a regular/ permanent license as per sec 12 (1) of the Contract Labour Act.

Further, whenever a contract work has commenced or completed, the contractor has to intimate the same to the Assistant Labour Commissioner (Central)/ labour Enforcement Office (Central) in Form IV – A, within 15 days of such commencement or completion.

Also, as per "Building & Other Construction Workers (Regulation of Employment & Conditions of Service) Act – 1996 and Central Rule 1998, contractors engaging ten (10) or more building workers in any building or other construction works has to obtain a certificate of registration without fail under the referred act.

The contractor has to arrange for displaying the name of the Regional Labour Commissioner (Central), Asst. Labour Commissioner (Central) & Labour Enforcement Officer (Central) at his work site(s).

The contractor shall inform the Principal Employer, the date, time & venue of disbursement to be made by him to his workers.

The contractor shall also be required to put up a notice at the site of work mentioning the date, time & venue of disbursement to be made by him to his workers and he or his authorized representative shall have to be present during period of disbursement.

21. **Completeness of Contract:** Any fittings, accessories or apparatus which may not have been specifically mentioned in the Bill of Quantities, Scope of Work etc. but which are necessary for complete execution of the work shall be deemed to be included in the contract and shall be furnished by the contractor.
22. **If terms & conditions of the enquiry have not been accepted by any bidder, offer of the bidder may be liable for rejection.**
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**KOLKATA PORT TRUST  
HALDIA DOCK COMPLEX  
PLANT & EQUIPMENT DIVISION**

**Subject: Enquiry for the work of laying & installation of 3.3 KV grade, 3 Core x 95 Sq. mm., XLPE insulated, Armoured, Aluminium Conductor Power Cable, from Master Control Sub-station to the Ring Main Distribution Board, for Coal Ship Loader, at Berth No. 4, inside Dock Zone of Haldia Dock Complex, Kolkata Port Trust, at Haldia.**

**SCOPE OF WORK AND TECHNICAL SPECIFICATION**

**SCOPE OF WORK**

The Scope of Work of the contractor is laying & installation of about 500 Mtrs. of 3.3 KV grade, 3 Core x 95 Sq. mm., XLPE insulated, Armoured, Aluminium Conductor Power Cable, in total, in 2 (two) runs [i.e. 250 Mtrs. (approx.) in each length/ run], from Master Control Sub-station to the Ring Main Distribution Board, for Coal Ship Loader, at Berth No. 4, inside Dock Zone of Haldia Dock Complex (HDC), Kolkata Port Trust (KoPT), at Haldia, as detailed in the instant enquiry. The contractor would have to collect the HT Cable, G. I. Pipe, Hume Pipe, etc., from the store/ site of HDC, as detailed in the enquiry, as required, for laying & installation at site.

However, 'End Termination' of the said HT Power Cable and subsequent commissioning of the said HT Power Cable, is under scope of HDC, KoPT.

The tentative details of laying of the HT Power Cable in each run is given below :-

Sl. No.	Location	Length of the cable	Remarks
1.	Cable to be laid through the existing cable trench, inside Master Control Sub-station	28 Mtrs.	
2.	Cable to be laid through under ground, from Master Control Sub-station to Transfer Tower, near Master Control Sub-station.	28 Mtrs.	The cable is to be laid underground, in line with the enclosed Drawing No. SK- 334 [Single/ Multi Numbers HT/ LT Cables in one trench].
3.	Cable to be laid at Transfer Tower	04 Mtrs.	The cable is to be laid inside the Transfer Tower, on good quality FRP/ GI/ Aluminium cable tray of adequate length & size. The contractor will have to supply & install the said good quality FRP/ GI/ Aluminium cable tray of adequate length & size. Rate is to be quoted accordingly.
4.	Cable to be laid through the existing cable tray, from Transfer Tower near Master Control Sub-station to HT Ring Main Distribution Board near Electrical Maintenance Office at Berth No. 4.	190 Mtrs.	The scope of work of the contractor includes supply, delivery & installation of good quality FRP/ GI/ Aluminium cable tray of about 40 (forty) Mtrs. length of adequate size, to accommodate 2 (two) runs of the said 3.3 kV grade HT cable. The said FRP/ GI/ Aluminium cable tray would be required to be installed at different locations, on the cable route, as per instruction of the concerned official(s) of HDC, during execution of the work at site. Rate is to be quoted accordingly.

Aluminium Shaddle of adequate thickness & size is to be used for binding of the cables on the cable tray and structures.

**In connection with execution of the work at site, the contractor should note that :**

- 1) 3 Cores X 95 Sq. mm., XLPE insulated, Armoured, Aluminium Conductor Power Cable of 3.3 KV grade, G.I. Pipe (with Sockets) [to be used as rising main] of required length/ quantity would be supplied from the stores/ site of HDC, for execution of the work at site. The contractor would have to arrange to collect the required materials, from the stores/ site of HDC, fulfilling all required formalities, transportation/ shifting of the same at work site, at their own risk, cost & arrangements. After complete execution of the work, balance materials, if any, would have to be returned back at the stores/ site of HDC, at the risk, cost & arrangements of the contractor.
- 2) The scope of work of the contractor includes supply, delivery & installation of good quality FRP/ GI/ Aluminium cable tray of about 45 (forty five) Mtrs. length of adequate size, to accommodate 2 (two) runs of the said 3.3 kV grade HT cable. The said FRP/ GI/ Aluminium cable tray of about 45 (forty five) Mtrs. length would be required to be installed at different locations, on the cable route, as per instruction of the concerned official(s) of HDC, during execution of the work at site. Rate is to be quoted accordingly.
- 3) The scope of work of the contractor also includes supply & delivery of bricks, sand etc., for installation at site.
- 4) The work to be executed would be considered to be completed only after successful execution of the work at site.

Prior to submitting the offer, it is advised to visit the site for assessment of the job and to get acquainted with the site conditions.

The contractor will have to deploy supervisor(s) from his end for supervision of the entire job during execution at site in close co-ordination with concerned officials of HDC, KoPT.

As the aforesaid job is within the operational area of HDC, KoPT, therefore, utmost care must be taken during execution of the work due to existence of other live HT & LT cables including others service lines in and around the said area. If any damage occurs to the property of HDC, KoPT during execution of the work at site, the contractor will have to make good such damage(s), at his own risk, cost and arrangement, if it is found that the damage has occurred due to fault/ negligence of the contractor.

The above Scope of Work is to be read in conjunction with the enclosed Terms & Conditions, Bill of Quantity- Priced etc.

## **TECHNICAL SPECIFICATION**

### **CABLING WORK:**

#### **➤ SPECIFICATION OF DIFFERENT MATERIALS REQUIRED FOR CABLING WORK :**

##### **i) CABLE IDENTIFICATION :**

PVC Cable Tags of suitable sizes will have to be provided.

##### **ii) BRICKS :**

Crushing strength, efflorescence shall conform to class designation 10 (as per IS 1077, 1986) and as per the specification, given below:

- a) The brick shall have clear ringing sound.
- b) The average size of the bricks shall be in the range of 250 mm ( $\pm 4$  mm) x 125 mm ( $\pm 2$  mm) x 75 mm ( $\pm 2$  mm).

#### **➤ CABLE LAYING (General Guideline) :**

Cable Net Work shall include Power Cables, which shall be laid in buried trenches/ cable trays/ through G.I. Pipes & Hume Pipes, rising main etc. whichever is applicable.

Cable routing shall be checked in the field to avoid interference with structures, heat sources, drains, piping etc. as far as possible and minor adjustments shall be done to suit the field conditions, wherever deemed necessary without any extra cost.

The HT cables while laying will be separated from LT Cables by adequate spacing or running through independent pipes, trenches or cable trays, as applicable.

All cable routes shall be carefully measured and cables cut to the required lengths leaving sufficient lengths for the final connections of the cables to the terminal of the equipments. Various cable lengths cut-



off from the cable reels shall be carefully selected to prevent undue wastage of cables. The quantity indicated in the Bill of Quantity is only approximate. The Contractor shall ascertain the exact requirement of cable for a particular feeder by measuring at site and avoiding interference with structure, foundation, pipelines or any other works as far as possible. Before starting Cable Laying, Cable Drum Schedule shall be prepared by contractor and get that approved by Sr. Dy. Manager (P&E) or his authorized representative to minimize/ avoid straight through joints. The actual number of straight through joint(s) required shall be worked out by the contractor. Cable, as far as possible, shall be laid in complete, uncut lengths from one termination to other.

Cable shall be neatly arranged in the trenches/ trays/ pipes in such a manner so that criss-crossing is avoided and final take-off to the equipment/ switch gears is facilitated.

Arrangement of cables within the trenches/ trays/ pipes shall be the responsibility of the contractor.

All cables will be identified close to their termination points by cable nos. Cable numbers will be punched on Aluminium strip/ PVC Strip {2mm. thick (approx.)} securely fastened to the cable and wrapped around it. Alternatively Cable Tags shall be circular in construction to which cable number can be conveniently punched.

Each underground cable shall be provided with Identification Tags (made of PVC) securely fastened at every 30 Mtrs. distance if the continuous length is more than 50 Mtrs. of its underground length. At least one tag at each end before the cable enters the ground will have to be provided. In unpaved areas, Cable Trenches shall be identified (by means of cable markers). These shall be placed at location of changes in the direction of cables and at intervals of not more than 30 Mtrs. and at Cable Joint Locations.

Removal of concrete covers for purposes of cable laying and reinstalling them in their proper positions after the cables are laid shall be done by the contractor at no extra cost.

Cable shall be handled carefully during installation to prevent mechanical injury to the cables. During laying of cables, Cable Drum Lifting Jacks, sufficient numbers of Cable Rollers and other materials etc. as necessary must be used to avoid any mechanical injury to the cables.

Directly buried cable shall be laid underground in Cable Trenches duly excavated by the contractor as shown in the enclosed Drawing No.: SK- 334. The width of the trench shall vary depending upon the number of cables and diameter of each cable.

Width of the Cable Trench should be such that all cables should be correctly spaced and arranged. The cables shall be laid in trenches as shown in the enclosed sketch. Before cables are placed, the bottom of the trench shall be leveled and filled with a layer of silver sand as shown in the Drawing No.: SK- 352. This sand shall be leveled and the cables shall be laid over it. Bricks to be placed at both sides of the cable. Then the cable inside the brick walls to be covered with sand up to the height of walls and sand shall be pressed lightly.

A protective covering of Bricks shall be placed on top of protective Bricks placed at both sides of Cable. The remainder of the trench shall then be back filled with soil rammed and leveled.

After laying of the cables in the trench and before placement of protective covering by brick, every cable shall be given an insulation test in presence of site engineer/ authorized representative of P&E Division. Also after back filling the trench with soil, rammed and leveled, insulation test of the cable shall be carried out in presence of Site Engineer/ Authorized representative of P&E Division.

All wall openings/ Pipe Sleeves shall be effectively sealed after installation of cables to avoid seepage of water inside buildings/ lined trench.

At road/ drain/ pavements crossing, suitable sizes of G.I. Pipes are to be used.

After the cables are installed and all testing is complete, the conduit/ pipe sleeve ends shall be plugged with a suitable weatherproof plastic compound/ PUTTI, for sealing purpose. The cost of the same shall be deemed to have been included in the installation of cable laying through pipe sleeves/ conduits and no separate payment shall be made.

When cables pass through foundation walls, or other underground structures, if necessary, ducts or opening shall have to be provided by the contractor. However, shall it become necessary to cut holes in the existing foundations or structures, the contractor shall determine their locations and obtain approval from Sr. Dy. Manager (P&E) or his authorized representative before cutting is done. Cutting, if necessary and mending good of any cut portion should be done by contractor without any extra cost.

At Road Crossing and other places where cables enter pipe sleeves, adequate bed of sand shall be given so that the cables do not stack and get damaged by pipe ends. Drum number of each cable from which it is taken shall be recorded against the cable number in the cable schedule.

All G.I. Pipes shall be laid as per site requirements. The open ends of the pipes shall be suitably plugged after they are laid in final position.

Laying of the cable will be as per the enclosed Drawing No. SK- 334.

As Built Drawing (in triplicate) of the above cable route/ cables laid will have to be submitted by the contractor, after completion of the work at site.

**MEASUREMENT:** Cable length should be measured jointly prior to giving clearance for earth back filling etc. Distance between Socket of one end and Socket of other end of the laid cable to be considered for payment against both supply & laying of cable.

#### **LAYING OF REINFORCED CONCRETE PIPE AND GALVANIZED MILD STEEL TUBES**

Laying of Reinforced Concrete Pipe and Galvanized Mild Steel Tubes should be done wherever necessary, such as at Road Crossing, Railway Crossing, Drains, Culverts or any similar concrete structure etc. The scope includes cutting of road, Railway Crossing, Excavating of Trenches, etc. including mending good work. The depth of laying of the pipes should have to be matched with the underground cable trench, as far as possible and practicable.

Making jointing between collars and pipes, with cement mortar (1 cement 2 medium sand) and cutting the Reinforced Concrete Pipe to the required length, if necessary, to be done by the contractor at their own cost and arrangement.

Cutting of Galvanized Pipe to required length and threading, bending, jointing by Socket as required, supply and fixing of support clamps/ brackets should be under the scope of contractor.

Re-filling of the trench after laying the reinforced concrete pipes and galvanized mild steel tubes are also to be done by the contractor.

Rates are to be quoted accordingly.

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ENQUIRY NO. SDM(P&amp;E)- IV/ 924/ ENQ/ 11 Dated: 22.07.2016

**KOLKATA PORT TRUST  
HALDIA DOCK COMPLEX****PLANT & EQUIPMENT DIVISION**

**Subject: Enquiry for the work of laying & installation of 3.3 KV grade, 3 Core x 95 Sq. mm., XLPE insulated, Armoured, Aluminium Conductor Power Cable, from Master Control Sub-station to the Ring Main Distribution Board, for Coal Ship Loader, at Berth No. 4, inside Dock Zone of Haldia Dock Complex, Kolkata Port Trust, at Haldia.**

**DECLARATION OF THE BIDDER**

**Sr. Dy. Manager (P&E),  
Haldia Dock Complex**

I/ We have examined carefully, read and understood the above Terms & Conditions, Scope of Work, Technical Specifications and Bill of Quantities. I/ We hereby tender and undertake to execute and complete all the works, required to be performed, in accordance with the Terms & Conditions, Scope of Work, Technical Specifications and Bill of Quantities, as stipulated in the Enquiry and at the rates and prices set out in the annexed Bill of Quantities/ Price Bid, within the completion period, as stipulated in the Enquiry. In the event of our offer being accepted in full or in part, I/ We also hereby agree that the said offer, Terms & Conditions, Scope of Work, Technical Specifications and Bill of Quantities, as stated in the Enquiry together with the acceptance thereof, in writing by or, on behalf of the Trustees shall form the Contract.

I/ We agree that the period for which the Tender shall remain open for acceptance shall not be less than 120 (One Hundred Twenty) days.

- (a) I/ We hereby declare that I/ We have not been banned or de- listed by any Government or Quasi-Government Agency or Public Sector Unit.
- (b) I/ We hereby declare that PRICE BID does not contain anything other than Bill of Quantities and Price.
- (c) I/ We hereby enclose the details of any banned/ de- listing imposed on my/ our agency by any Govt./ Quasi - Govt. Agency or PSU.

**Date:**

**Seal:**

**Place:**

**Full Name in Block Letters:**

**Address:**

**Telephone Number:**

**Fax Number:**

**E Mail ID:**

ENQUIRY NO. SDM(P&amp;E)- IV/ 924/ ENQ/ 11 Dated: 22.07.2016

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BILL OF QUANTITY- PRICE BID

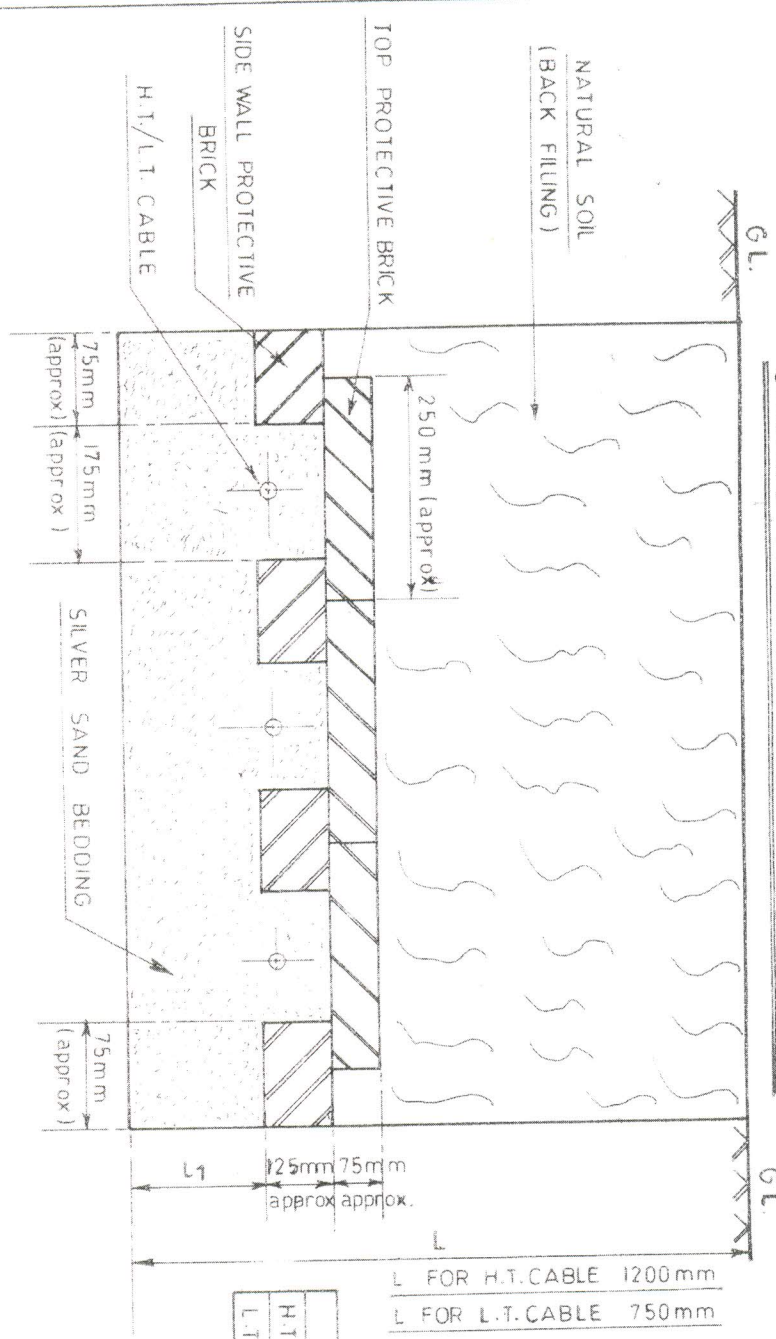
BoQ Item Sl. No.	Item Description	Unit	Quantity	Unit Rate (in Rs)	Amount (in Rs)
1 (a)	<b>3 Cores x 95 sq. mm., XLPE insulated</b> and outer PVC sheathed, Galvanized, armoured, stranded aluminium conductor <b>Power Cable</b> of 3.3 KV grade, conforming to IS: 7098 (Part-II). <b>[NOTE : THE CABLE WOULD BE SUPPLIED BY HDC, KoPT, FOR LAYING &amp; INSTALLATION AT SITE]</b>	Mtr.	500	<b>NOT TO QUOTE</b>	<b>NOT TO QUOTE</b>
1 (b)	Laying & installation of the cable, as detailed against BoQ Item Sl. No. 1 (a) above, in 2 (two) runs [i.e. 250 Mtrs. (approx.) in each length/ run], from Master Control Sub-station to the Ring Main Distribution Board, for Coal Ship Loader, at Berth No. 4, inside Dock Zone of HDC, KoPT, at Haldia, as detailed in the Enquiry.	Mtr.	500		
<b>Total Amount (in Rs)</b>					

Total Amount (in Rs) [in Figure] .....

Total Amount (in Rs) [in Words] .....

SEAL &amp; SIGNATURE OF THE TENDERER

**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.)**



H.T. CABLE	1200 mm	100 mm
L.T. CABLE	750 mm	50 mm

KOLKATA PORT TRUST		NAME	DI
HALDIA DOCK COMPLEX		DGN	
M(P&E)'S DRG OFFICE		DRN	Standard 30.08.10
SINGLE/MULTI NUMBERS H.T./L.T. CABLES IN ONE TRENCH.		ICD	
		CKD	
		APVD	
SCALE	NTS	DRG. NO.	SK-334