

कोलकाता पत्तन न्यास/ KOLKATA PORT TRUST
यांत्रिक व विद्युत अभियंत्रण विभाग /Mechanical & Electrical Engineering Department
8, गार्डन रीच रोड, कोलकाता-700043/ 8, Garden Reach Road, Kolkata-700043

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पत्रांक: मेक/एस. ई.-II/25/226/343

दिनांक: 06.02.2019

Letter no. Mech/SE -II / 25/226/ 343

Date: 06.02.2019

Dear Sirs,

Sub: Enquiry for Quotation for the work “**Electrification of Tidal Observatory Station at Roychak**”

Quotation is sought for the subject work in sealed cover superscribing the subject work and Enquiry Letter No. as per enclosed terms & conditions and Bill of Quantities (BOQ). Documentary evidences for PAN No., GST No., Trade license, Electrical contractor's license are to be submitted along with the quotation.

Site inspection will be held at 09.30 hrs on 12.02.2019.

Sealed offers, should reach this office on or before 14.30 hrs. on 15.02.2019. Quotations will be opened at 15.00 hrs. on the same date in presence of the representatives of the quotationer.

Encl.: Terms & Conditions and Bill of Quantities

Thanking you,

Yours faithfully,

(R. Kumar)
Superintending Engineer (Elect.)-II
For Chief Mechanical Engineer

TERMS & CONDITIONS

1. **Price:** The quoted price should be exclusive of GST. GST, if applicable, will be paid extra as applicable on actual.
2. **Taxes & Duties:** GST or any other taxes and duties, if leviable, shall be clearly mentioned in the quotation. If not mentioned otherwise, the quotation will be considered to be inclusive of all taxes and duties.
3. **Payment Terms:** 100% payment against installation, commissioning, testing and handing over of the entire work after satisfactory completion subject to Security Deposit clause.
4. **Validity:** The quotation must be valid for 30 days from the date of opening of the quotation.
5. **Completion time:** The work is to be completed within 4 weeks from the date of receipt of order letter.
6. **Liquidated Damage:** In case the work is not completed within the stipulated completion period, liquidated damage @ ½ % per week or part thereof subject to a maximum of 10% of the ordered value will be deducted from the bill.
7. **Earnest Money:** The quotationer shall submit Earnest Money of Rs. 6,910.00 either in cash or through Banker's Cheque/Pay Order/Demand Draft along with their offer/quotation. Banker's Cheque/Pay Order/Demand Draft should be drawn in favour of "Kolkata Port Trust" on any Nationalized/Scheduled Bank having branch in Kolkata.
8. **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.
9. You shall enclose certified copies of **Trade Licence, GST Certificate, PAN Certificate, and Electrical Contractor's Licence**. The certificates in original shall have to be submitted when so demanded for inspection.
10. **Pre-qualification criteria of the Bidders:** The intending Tenderers shall satisfy the following conditions with supporting documents:
 - i) The firm must have average annual financial turnover during the last three years ending 31st March, of the previous financial year of at least 30% of the estimated cost (Rs. 3, 45,385.00).
 - ii) The firms must have either of the following as experience of having successfully completed similar works during last seven years, ending on last day of month, previous to the one in which applications are invited:
 - a) Three similar completed works costing not less than value of Rs. 1, 38,154.00
 - b) Two similar completed works costing not less than value of Rs. 1, 72,693.00
 - c) One similar completed works costing not less than value of Rs. 2, 76,308.00.

Here "similar works" means "**Internal house wiring, circuit wiring through metallic / PVC conduit/ casing capping**". Work Experience as a subcontractor or supply contractor shall not be considered as requisite qualification.

The tenderer shall have to submit documents (certified copy), viz. order letter and proof of execution to establish his credentials.
11. **Guarantee:** The contractor shall make good at his own expenses 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 by other agencies and reimbursed themselves so far as costs therefore are concerned out of the amounts lying with them as Security Deposit so far as that is practicable. If the costs of such

repairs exceed the amount of Security Deposit, the Contractor shall pay the balance to the Trustees forthwith on demand.

12. **Quotation:** The quotation is to be submitted in a sealed cover super scribing the name of the work and enquiry letter no. and to be submitted by 14.30 hrs of 15.02.2019. Quotations will be opened on 15.00 hrs on 15.02.2019. Price is to be inserted against the columns, 'Rate' and 'Amount' of the Bill of Quantities. Price shall include all manner of labour, material, plant /tools and all other matters necessary for the execution of the work.
13. The price quoted in the quotation shall hold good and shall be binding on the quotation notwithstanding any increase in the prices of materials and labour or in the freights or levy or other charges whatsoever, the quotationer shall not be entitled to claim any increase over the rates quoted by them.
14. Evaluation will be made on the basis of total Value of quotation.
15. Acceptance or otherwise of all terms & conditions, herein stated above should be clearly mentioned on this page itself and is to be enclosed with the quotation.
16. The Trustees are not bound to accept the lowest or any tender without assigning any reason thereof.

17. Scope of work:

a) Scope of Work:

- Supply, Delivery, Installation, Testing and Commissioning of MCCB Enclosure with MCCB.
- Supply, Delivery, Installation, Testing and Commissioning of MCBDB.
- Circuit Wiring through PVC Rigid Conduit/Casing-Capping.
- Supply, Delivery, Installation, Testing and Commissioning of 6A/16A Socket Outlet with piano key type switches.
- Supply, Delivery, Installation, Testing and Commissioning of Ceiling Fans along with electronic regulators.
- Supply, Delivery, Installation, Testing and Commissioning of Cabin fan/exhaust fans complete with all accessories.
- Supply, Delivery, Installation, Testing and Commissioning of LED Luminaries.
- Supply, Delivery, Installation, Testing and Commissioning of Outdoor type Search Light.
- Supply, Delivery, Installation, Testing and Commissioning of 15 Ltr electric geyser with hot & cold PVC connector pipe.
- Arrangement of Earth Pits, Earth Bus Bar connected with Earth Pits, Earthing all electrical equipment with Earth Pits.
- Mending good of all damages including restoration to original condition without any extra cost to KoPT.
- Any other item required for completion of the work in all respect but not included above.

- (b) Unless otherwise specified, the work to be executed by the contractor shall include but not be limited, all materials, supervision, services, scaffolding and temporary lighting as required for work purposes etc.
- (c) The work shall be carried out as per Indian Electricity Act, 2003, Central Electricity Authority (Measures relating to safety & electricity supply) Regulations, 2010 with latest revised IS code of Practice and relevant portion of National Building Code particularly with respect to safety requirements as per IS 16103 (Part I) : 2012 and also code of practice for fire safety of buildings (General): Electrical Installations, IS:1646:1997.

18. Technical Specification:

(a) Light Fittings

Item details: Details are given in **BOQ items**.

Installation: The LED Luminaries with all other accessories shall be installed on the wall/ false - ceiling as per site requirement. Cost of round block/down rod should be included in the installation wherever required. Outdoor type Search Light with all other accessories shall be installed on the roof/ as per site condition .

(b) Ceiling Fans

Item details: Details are given in **BOQ items**.

Installation: The ceiling fans complete with blades, canopy, fork, rubber and electronic step regulator are to be installed in the ceiling hook. Down rods are to be provided wherever necessary. Cost of ceiling rose/down rod should be included in the installation wherever required.

(c) Exhaust Fans / Cabin Fans

Item details: Details are given in **BOQ items**.

Installation: The Heavy duty exhaust fan / Cabin fans complete with all accessories is to be installed in wall.

(d) **Distribution Wiring, Point wiring:** Details are given in **BOQ items**.

(e) Other Items specifically not mentioned in the T.S. shall be as per BOQ. Any other item required for Installation but specifically not mentioned either in the BOQ or the T.S. like requisite length of MS Pipes, clamps and accessories shall be deemed to be included in the rates for installation of the items for which these items are intended. Tenderers are advised to build up the installation prices accordingly. Any claim in this regard on the plea that the item is not specifically mentioned shall not be entertained.

(f) On completion of works, the contractor shall reinstate and make good at his own expense any property or land which might have been disturbed and/or damaged by his works. Contractor should also clean the site as required during execution and fully clear the site after completion of all the works. Any holes/drillings/openings/damages made on the wall/roof for drawing of wires/installation of equipments shall be made good by the contractor at his own cost.

(g) **List of Approved Makes:**

Item	Make
LED Luminaires/ Search Light	Philips/ Bajaj/ Crompton/ Wipro/GE / Sigma/any other reputed make
PVC FRLS Copper wire	KDK-Evershine/Finolex/Havells/National Polycab /any other reputed make
Switches/ Socket/Ceiling Rose	Havells/ Anchor/Ellora/Precision/Rider/ Pritam/Sleek/any other reputed make.
Ceiling Fan /Exhaust Fan/ Cabin Fan	Havells/Usha/Orient/Crompton / Bajaj/Polar
Geyser	Bajaj/ Havells/ Usha / any other reputed make.

Any other reputed make will only be considered if none of the approved makes as mentioned in the above list is not available for some reason or the other which is to be acceptable to CME.

(h) **Inspection and Testing:**

Inspection and testing will be carried out by KoPT Engineer. Inspection will be carried out as applicable as per relevant Standard/ Technical Specification/ Approved Drawing etc.

Insulation Resistance, Earth Continuity and Earth Resistance tests etc. as applicable prior to commissioning are to be carried out for electrical installation including LT cable (if any). All pre commissioning tests shall be carried out by the authorized representative of the firm having valid Supervisor's Certificate of Competency.

Date:

Signature of the Quotationer with
Rubber stamp.

Bill of Quantities (BOQ)

Name of work: **Electrification of Tidal Observatory Station at Roychak**

Item No.	Description	Qty.	Unit	Rate	Amount
1.	Supply and delivery of one MCCB Enclosure consisting one no. 4 Pole, 63A, 10KA, 415V Fixed Thermal & Fixed Magnetic Setting MCCB.	01	Set		
1(a).	Installation of above mentioned MCCB Enclosure (Item No. 1) on the wall with suitable arrangement as required including earthing arrangement by 8 SWG galvanized wire with suitable length and commissioning.	01	No.		
2	Supply & Delivery of Three Phase MCBDB for Lighting & Power Circuit having one no. 63A FP MCB as incomer, two nos. 32A SP MCB and two nos. 16A SP MCB per phase as outgoing.	01	No.		
2(a)	Installation, Testing and Commissioning of above mentioned [Item No. 2] MCBDB on the wall with suitable arrangement as required including earthing arrangement by 8 SWG galvanized wire with suitable length and commissioning.	01	No.		
3	Supply & Delivery of Single Phase MCBDB (2+ 12 way) for Lighting Circuit having one no. 32A DP MCB as incomer and 12 nos. 6A SP MCB as outgoing.	02	Nos.		
3(a)	Installation, Testing and Commissioning of above mentioned [Item No. 3] MCBDB on the wall with suitable arrangement as required including earthing arrangement by 8 SWG galvanized wire with suitable length and commissioning.	02	Nos.		
4	Supply & Delivery of Single Phase MCBDB (2+ 6 way) for Power Circuit having one no. 32A DP MCB as incomer and 6 nos. 16A SP MCB as outgoing.	02	Nos.		
4(a)	Installation, Testing and Commissioning of above mentioned [Item No. 4] MCBDB on the wall with suitable arrangement as required including earthing arrangement by 8 SWG galvanized wire with suitable length and commissioning.	02	Nos.		
5	Distribution wiring in 1.1 KV single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) of 6 x 84/0.3 (6 sq. mm.) + 2 x 56/ 0.3 (4 sq. mm.) in PVC casing-capping (Precision make) of suitable size incl. necy. PVC clips, fittings etc. as required.	20	Mtr.		
6	Wiring in 1.1 KV grade single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) of 2 x 84/0.3 (6 sq. mm.) + 1 x 56/ 0.3 (4 sq. mm.) in 25mm PVC casing-capping (Precision make) incl. necy. PVC clips, fittings etc. as required.	40	Mtr.		
7	Wiring in 1.1 KV grade single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) of 2 x 56/0.3 (4 sq. mm.) + 1 x 36/ 0.3 (2.5 sq. mm.) in 25mm PVC casing-capping (Precision make) incl. necy. PVC clips, fittings etc. as required.	260	Mtr.		
8	Wiring in 1.1 KV grade single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) of 2 x 36/0.3 (2.5 sq. mm.) + 1 x 22/ 0.3 (1.5 sq. mm.) in 25mm PVC casing-capping (Precision make) incl. necy. PVC clips, fittings etc. as required.	400	Mtr.		
9	Wiring in 1.1KV grade single core stranded 'FR' PVC insulated & unsheathed copper wire (approved make) of 2 x 36/0.3 (2.5 sq. mm.) + 1 x 22/ 0.3 (1.5 sq. mm.) sizes in 20 mm size PVC rigid conduit 'FR' (Precision make) inclusive necessary fittings etc. as required.	30	Mtr.		
10	Wiring in 1.1KV grade single core stranded 'FR' PVC insulated & unsheathed copper wire (approved make) of 2 x 22/0.3 (1.5 sq. mm.) + 1 x 22/ 0.3 (1.5 sq. mm.) sizes in 20 mm size PVC rigid conduit 'FR' (Precision make) inclusive necessary fittings etc. as required.	60	Mtr.		

Item No.	Description	Qty.	Unit	Rate	Amount
11	Distribution wiring in 1.1 KV grade 2x22/0.3 (1.5 sq mm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in suitable size PVC casing-capping (Precision make) with 1x22/0.3 (1.5 sq mm) single core stranded 'FR' PVC insulated & unsheathed copper wire for ECC, incl. necy. PVC clips, fittings etc. to light/fan/call bell point with piano key type switch (Anchor make) fixed on PVC switch board on wall incl. necy. connections and making earthing attachment and mending good damages to building works to original finish with average run of 6 metre.	37	Point		
12.	Distribution Wiring in 1.1 KV grade 2x22/0.3 (1.5 sq mm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in suitable size PVC casing-capping (Precision make) with 1x22/0.3 (1.5 sq mm) single core stranded 'FR' PVC insulated & unsheathed copper wire for ECC, incl. necy. PVC clips, fittings etc. to 6A 3 Pin flush type plug socket with piano key type switch (Anchor make) fixed on PVC switch board with connection making earthing attachment, painting and mending good damages to building works on board.	10	Point		
13.	Distribution Wiring in 1.1 KV grade 2x22/0.3 (1.5 sq mm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in suitable size PVC casing-capping (Precision make) with 1x22/0.3 (1.5 sq mm) single core stranded 'FR' PVC insulated & unsheathed copper wire for ECC, incl. necy. PVC clips, fittings etc. to 6A 5 Pin flush type plug socket with piano key type switch (Anchor make) fixed on PVC switch board with connection making earthing attachment, painting and mending good damages to building works with an average run of 7.5 Mtr.	6	Point		
14.	Supply of 16A, 240V, 50 Hz Single way switch.	11	Nos.		
15.	Supply of 6A/16A, 240V, 50 Hz Uni Socket Outlet.	11	Nos.		
16.	Supply of Domestic Surface mounting plastic box, 6 Module with cover.	02	Nos.		
16(a)	Installation & commissioning of Domestic Surface mounting plastic box with 16A, 240V, 50 Hz Single way switch & 6A/16A, 240V, 50 Hz Uni Socket Outlet.	02	Sets		
17.	Supply of Domestic Surface mounting plastic box, 2 Module with cover.	05	Nos.		
17(a)	Installation & commissioning of Domestic Surface mounting plastic box with 16A, 240V, 50 Hz Single way switch & 6A/16A, 240V, 50 Hz Uni Socket Outlet.	05	Sets		
18.	Supply and delivery of 1400 mm ceiling fan complete with blade, canopy similar to that of HAVELLS Make Pacer Model.	04	Nos.		
19.	Supply & delivery of stepped electronic fan regulator	04	Nos.		
19(a)	Installation & commissioning of the fan with electronic fan regulator.	04	Nos.		
20.	Supply and delivery of 300 mm Heavy duty exhaust fan complete with all accessories similar to that of HAVELLS Make Turbo Force Model.	03	No.		
20(a)	Installation & commissioning of 300 mm Heavy duty exhaust fan after making hole in wall and making good damages and smooth cement finish etc.	03	No.		
21.	Supply and delivery of louver shutter/cowl suitable for 300 mm Heavy duty exhaust fan (Item No. 18).	03	No.		
21(a)	Fixing only louver shutter/cowl (Item No. 20) on wall with necy. bolts & nuts (6mm dia x 62 mm long)	03	No.		
22	Supply and delivery of 400 mm sweep Cabin fan complete with all accessories similar to that of HAVELLS Make Swing Model.	03	No.		
22(a)	Installation & commissioning of 400 mm sweep Cabin fan on wall by S&F rag bolts, nuts & washers (6 mm dia x 62 mm long) or as reqd.	03	No.		

	incl. S&F 24/0.20 PVC insulated flexible copper wire 0.5 mt. length				
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Item No.	Description	Qty.	Unit	Rate	Amount
23.	Supply and delivery of LED Luminaries with all accessories similar to that of BAJAJ Make (Type: BLRB – DB 118 & BLRB 18W CWC)	25	Sets		
23(a)	Installation & commissioning of LED Downlighters Luminaries with all necessary accessories directly on wall/ceiling/HW round block and suitable size of MS fastener.	25	Sets		
24	Supply and delivery of LED Bulkhead Luminaries with all accessories similar to that of BAJAJ Make (Type: BIBWP 10W LED)	02	Sets		
24(a)	Installation & commissioning of LED Bulkhead Luminaries with all necessary accessories directly on wall/HW round block .	02	Sets		
25	Supply & delivery of LED Luminaries complete with lamp and accessories similar to that of BAJAJ Make. (Type : BCLST 30W LED)	06	Nos.		
25(a)	Installation & commissioning of the above fittings on wall of the building complete with all accessories inclusive S&F 40 mm GI Pipe (ISI medium) quality of 1.5 mts. Average length having suitable bend inclusive S&F necessary length 1.5 sq. mm. PVC insulated single core stranded annealed copper wire and making connections as required and mending good the damages to the wall.	06	Nos.		
26	Supply and delivery of 400W MH, 230V High Intensity, long range, Outdoor type Search Light luminaries with all accessories. The search light would be swiveling type & have both vertical & horizontal operational control.	02	Nos.		
26(a)	Installation of above mentioned luminaries with all accessories.	02	Nos.		
27	Supply and delivery of 15 Liters Storage type water Geyser	01	No.		
27(a)	Installation of above mentioned Geyser	01	No.		
28	Supply and delivery of one Street Light panel consisting one no. Power Contactor, one no. Time Switch , Kit Kat fuse with suitable rating, selector switch etc.	01	No.		
28(a)	Installation of above mentioned control panel (Item No. 19) on the wall with suitable arrangement as required including earthing arrangement by S&F 8 SWG galvanized wire with suitable length and commissioning.	01	No.		
29	Supplying & fixing earth bus bar of galvanized (Hot Dip) MS flat 25 mm x 6 mm on wall having clearance of 6 mm from wall including providing drilled holes on the busbar complete with G. I. Bolts, nuts, washers, spacing insulators etc. as required (For MCBDBs) .	0.5	Mtr.		
30	Connecting the earth bus bar to earth electrode inclusive S&F 25 mm. X 6 mm. Galvanized (Hot Dip) MS flat under the ground level / on wall/floor with GI saddle as required with inclusive drilling holes, bolts, nuts, washers etc. and mending good the damages as required.	60	Mtrs.		
31	Earthing with 65 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 to an average depth of 3.65 Mts 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). GI 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	02	Nos.		

	relevant IS.				
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Item No.	Description	Qty.	Unit	Rate	Amount
32	Connecting the equipments body to earth bus bar including S&F GI (Hot Dip) wire of size 8 SWG on wall/floor with staples buried inside wall/floor as required and making connection to equipments with bolts, nuts, washers, cable lugs etc. as required and mending good damages.	200	Mtrs.		
Total					

Total in words (Rupees
.....)

Note: The above price is exclusive of GST, which shall be paid extra as applicable on actual.

(Office Rubber Stamp of the
Quotationer Firm)

Signature of the Quotationer

Dated, the _____