



OPEN TENDER ENQUIRY THROUGH E-PROCUREMENT

Tender ID 2023_DARE_773824_1

F. No.ICAR-CIFA/Works/EFC/2023-24/02

Date: 27.09.2023

Sub: Tender for Civil Work for: **“Security Tower at ICAR-CIFA, Kausalyaganga.”**

The Director, ICAR-CIFA, Kausalyaganga invites online percentage rate quotation OPEN TENDER IN TWO BID SYSTEM through e-tendering method from reputed firms with adequate experience and financial capability for above Civil work. The information and schedule are mentioned below:

| | |
|---|---|
| Tender Number | F. No.ICAR-CIFA/Works/EFC/2023-24/02 |
| Description of work | Tender for Civil Work for: <u>“Security Tower at ICAR-CIFA, Kausalyaganga.”</u> |
| Type of Tender | Two Bid System |
| Date of release of Tender through e-procurement portal | 27.09.2023:: 05:30PM |
| Bid submission start date online | 28.09.2023:: 10.00 AM |
| Last date and time of Receipt of EMD at ICAR-CIFA, BBSR | 18.10.2023 :: 1.00 PM |
| Last Date & time for submission of online bid | 18.10.2023 :: 2.30 PM |
| Date & time for opening of technical bid | 19.10.2023 :: 02.30 PM |
| Financial bid to be opened | Will be reflected in the Technical Evaluation Report of those firms which have technically qualified. |
| Bid Validity | 180 days from the date of Technical Bid Opening |
| EMD (Refundable) | Rs.77,000/- (Rupees seventy seven thousand only) in the form of Demand Draft (D.D) in favor of ICAR-Unit, CIFA, Payable at SBI Kausalyaganga, Bhubaneswar (Code No. SBIN0008874) |
| Tender Fee | NIL |

| | |
|---|---|
| Performance Security Deposit | 5% of the order value of the work within 7 days of receipt of Work Order in the form of Demand Draft in favor of ICAR-Unit, CIFA, Payable at SBI Kausalyaganga, Bhubaneswar (Code No. SBIN 0008874) |
| DLP | The Security Deposit will be retained for a period of one year from the date of the completion of the work. |
| The Tender document is also available at our web-site | http://www.icar-cifa.nic.in/www.eprocure.gov.in |
| Address for communication | The Director, ICAR-CIFA, Kausalyaganga, Bhubaneswar Pin Code 751 002 |

Yours faithfully,

OIC(Engg.)
For and on behalf of the Director
ICAR-CIFA, Kausalyaganga, Bhubaneswar

DETAILED TENDER DOCUMENT (TWO BID SYSTEM) :

The Director ICAR-CIFA, Kausalyaganga, Bhubaneswar – 751 002 invites online Open Tender in two Bid System through e-tendering method from reputed firms with adequate experience and financial capability for above said electrical work from the reputed contractors registered with CPWD, PWD or other Central/State Govt./Semi Govt. agencies. The contractor must submit the following related documents as per given checklist, failing which the technical bid of the firm will not be considered for further process:

CHECK LIST FOR TECHNICAL BID EVALUATION

| Sl.No. | Document required | Upload the scanned copy | Page No. of enclosures (if page number of enclosures is not mentioned the technical bid will not be considered) |
|--------|--|-------------------------|---|
| 1. | Original DD for EMD | Pdf | |
| 2. | Scan copy of valid civil license of the firm/contractor | Pdf | |
| 3. | Scan copy of PAN Card | Pdf | |
| 4. | Scan copy of latest Income Tax return | Pdf | |
| 5. | Scan copy of GST registration certificate issued by Govt. etc. and latest GST return certificate (August-2023) | Pdf | |
| 6. | Scan copy of tender acceptance letter | Pdf | |
| 7. | Scan copy of dully filled up complete tender document (technical bid part) duly signed and stamped as a token of acceptance of all the terms and conditions of tender document. | Pdf | |
| 8. | Scan copy of Experience of having successfully completed similar works during last 03 years ending last day of month previous to the one in which bid is invited should be either of the following: Two similar* completed works costing not less than the amount equal to 50% of the estimated cost. Or One similar completed works costing equal/higher of the estimated cost. *Similar work : Experience in renovation of office buildings/residential buildings/water supply channel & Electrical wiring etc. (Cement to be used: Ultratech/Ambuja/JK Lakshmi/ACC(Paper pack), Reinforcement bar: Tata, Vizak, Sail), Roofing system : Pre-coated galvanized sheet(Tata brand only), Truss system ; Tata,Vizak, Sail) | Pdf | |

NOTE: Only those firms that qualify the technical bid will be considered for opening the financial bid.

SIGNATURE OF THE BIDDER WITH STAMP

Detail of the firm/contractor

1. Name & address of Proprietor: _____

2. Name & address of Firm/Contractor: _____

3. (a) Tel. No. Off: _____ Res: _____ Mob.No: _____

(b) FAX No: _____ Email ID: _____

4. Particulars of firm/company partnership: _____
deed/ Constitution in case of Society.

5. PAN No: _____

6. GST No. _____

7. Name & address of Bank in which Account: _____

IFSC Code No. _____ Account No. _____

(A photocopy of cancelled cheque may attach for true information)

SIGNATURE OF THE BIDDER WITH STAMP

A: General Terms and conditions:

1. The successful bidder will deposit the **performance security deposit @ 5 %** of Ordered Value of the work in shape of separate demand draft of any nationalized bank drawn in favour of **ICAR Unit, CIFA** payable at **SBI, Kausalyaganga, Bhubaneswar** within the stipulated date falling which the order will stand cancelled and the EMD deposited with the quotation/tender will be fortified.
2. The security deposit shall be fortified if the selected firm/contractor does not take up and/or complete the work within the time schedule or the quality of the workmanship is found not up to the mark or not satisfactory.
3. Any dispute in this regard is subject to Bhubaneswar Jurisdiction only.
4. Income Tax/ Labour Cess etc. or any other taxes to be levied as per Govt. norms will be deducted '**at source**' from the bills as per rules.

5. Locations for the Work

The entire works as described in Schedule of Requirements must be undertaken at ICAR-CIFA, Kausalyaganga

6. Order Placements:

The Work Order shall be released by: Director, ICAR- Central Institute of Freshwater Aquaculture, P.O. Kausalyaganga, Bhubaneswar –751 002, Odisha, India.

7. The payments shall be released by: Director, ICAR- Central Institute of Freshwater Aquaculture, P.O. Kausalyaganga, Bhubaneswar –751 002, Odisha, India.

8. Amendment to Bidding Documents

- a. At any time prior to the deadline for submission of bids, ICAR-CIFA may, for any reason, whether on its own initiative or in response to the clarification request by a prospective bidder, modify the bid document.
- b. The amendments to the tender documents, if any, will be notified by release of Corrigendum Notice in print media / website. The amendments/ modifications will be binding on the bidders.
- c. ICAR-CIFA, at its discretion may extend the deadline for the submission of bids if it thinks necessary to do so or if the bid document undergoes changes during the bidding period, in order to give prospective bidders time to take into consideration the amendments while preparing their bids.

Submission of Bids- Online PDF format only.

The Bid documents shall be neatly arranged. They should not contain any terms and conditions, printed or otherwise, which are not applicable to the Bid. The conditional bid will be summarily rejected. Insertions, postscripts, additions and alterations shall not be recognized, unless confirmed by bidder's signature.

9. Tender Fee

NIL

10. EMD

5% of estimated cost.

11. Deadline for Submission of Bids – Online Only.

- a. Bids must be received by ICAR-CIFA before the due date and time at the address specified in the tender document.
- b. ICAR-CIFA may extend this deadline for submission of bids by amending the bid documents and the same shall be suitably notified in the media.

12. Late Bids

ICAR-CIFA shall not be responsible and liable for the delay in receiving the bid for whatsoever reason.

Bid Opening & Evaluation of Bids

- a. The technical bids will be evaluated in two steps.
- b. The bids will be examined based on eligibility criteria as stipulated to shortlist the eligible bidders.
- c. The technical bids of only the short listed eligible bidders shall be evaluated based on technical specifications stipulated.

13. Comparison of Bids

- a. Only the short-listed bids from the bid evaluation shall be considered for commercial comparison.
- b. The commercial bids will be evaluated on the basis of prices quoted. The contract will be awarded to lowest evaluated bidder.

14. Award of Contract

- a. ICAR-CIFA shall award the contract to the eligible bidder whose technical bid has been accepted and determined as the lowest evaluated commercial bid.
- b. ICAR-CIFA reserves the right to increase or reduce the quantity to be procured.
- c. If more than one bidder happens to quote the same lowest price, the firm have been more experience will be awarded the work and if experience of both firm remains same, ICAR-CIFA reserves the right to decide the criteria and further process for awarding the contract, decision of ICAR-CIFA shall be final for awarding the contract.

15. Purchaser's Right to amend / cancel.

- i. ICAR-CIFA reserves the right to amend the eligibility criteria, commercial terms & conditions, Scope of Work, technical specifications etc.
- ii. ICAR-CIFA reserves the right to cancel the entire tender without assigning any reasons thereof.

16. SPECIAL CONDITIONS OF CONTRACT (SCC)

Prices

- The price quoted shall be considered and no price escalation will be permitted.
- The prices quoted must be inclusive of all other taxes/levy including GST.

Security Deposit (SD):

The successful bidder will be required to furnish the Security Deposit in INR equivalent to 5% of the order value within 7 days of receipt of Supply Order. The Security Deposit should be submitted in the form of Demand Draft drawn in favour of ICAR unit, CIFA payable at SBI, Kausalyaganga. The Security Deposit will be retained for a period of one year from the date of the completion of the work.

Payments:

Payment will be made after 100% completion of the work on actual measured quantity basis and acceptance by ICAR-CIFA through NEFT.

Penalty for delayed Completion of the works:

ICAR-CIFA reserves the right to levy penalty @ of 0.5% of order value per week of delay beyond the scheduled date completion / execution of the order successfully, subject to maximum of 10 % of the order value. ICAR-CIFA reserves the right to cancel the order in case the delay is more than 4 weeks.

17. Class of Contractor – Minimum C & D

B: Other General Terms and conditions:

1. After completion of work if within one year, any defect, or damage or poor workmanship is noticed; the same shall be rectified by the contractor within 10 days failing which the Security deposit shall be forfeited.
2. Taxes viz. Income Tax, Cess on I.T., Labour Cess, (as per applicable) and such other taxes levied by Government from time to time will be deducted from the work bill, Labour cess @ 1% of the gross value of work to be deducted from the contracts bill and to be remitted to the 'Odisha Building and other Construction Workers' Welfare Fund'.

3. Payment will be made after 100% completion of the work on actual measured quantity basis and acceptance by ICAR-CIFA through NEFT/RTGS/e-Payment.
4. No part payment will be made for execution of the work.
5. Work order will be issued to the successful bidder after completion of all formalities of ICAR-CIFA, Bhubaneswar. The successful bidder has to enter an agreement after receipt of work order and before start of the work. If the bidder does not start the work within 7 days of issue of work order or does not represent to the Director, ICAR-CIFA, Bhubaneswar stating a valid reason such as interference of natural phenomena or the circumstances beyond his control, the work order shall be deemed to be withdrawn without any notice and suitable action against the firm as per the provision of bid security declaration will be taken. Decision of the ICAR-CIFA, Bhubaneswar in this regard is final and binding on the tenderer.
6. Rates quoted by the bidder will be valid till completion of the work.
7. In case the work order is placed for execution, it will be incumbent on the tenderer to abide these terms and conditions and complete the work as per the schedule of works to the best satisfaction of the In-Charge, Engineering Section/SIC OF RRC failing which the EMD will be forfeited and the tenderer is liable to pay the loss to be incurred by ICAR-CIFA, to carry out the work/balance of work through any other agency.
8. If any damage occurs to ICAR - CIFA property during execution of work including dismantling the same will be borne / repaired by the tenderer. For this reason, the tenderer is advised to inspect the work site before submitting the tender.
9. Director, ICAR-CIFA is not bound to accept the lowest or any other tender and also reserves the right to reject any or all the quotations without assigning any reason thereof.
10. The tenderer will be abide by the contract labour act, minimum wages act and other labour related acts, applicable during execution of the work.
11. The workers will be personnel of the tenderer and ICAR-CIFA will have no responsibility whatsoever to them. Any liability that may arise due to death/injury to any of the workers while executing the work will be borne by the tenderer.
12. In case of any dispute on execution or other issues related to this work, the decision of the Director, ICAR-CIFA will be final and binding.
13. Successful bidders will have to enter into a detailed contract agreement (format attached) with ICAR-CIFA on non-judicial stamp paper of Rs.100/- (Rupees one hundred only).

Note 1: **The Price bid should be submitted on-line in the “BOQ format of Excel File” only as available in the Tender Notice in CPP Portal <http://eprocure.gov.in>., Percentage rate to be quoted above or below the estimated cost in figure and words in the percentage HOQ.**

Yours faithfully,

OIC(Engg.)
For and on behalf of the Director
ICAR-CIFA, Kausalyaganga, Bhubaneswar

TENDER ACCEPTANCE LETTER
(To be given on Company Letter Head).

Date:

To

The Director
ICAR-Central Institute of Freshwater Aquaculture
Kausalyaganga,
BHUBANESWAR – 751 002 (ODISHA)

Dear Sir,

I/we have read all the particulars regarding the general information and other terms and conditions of the mentioned in the tender documents for the job work “_____” and agree to provide the services as desired I the schedule herein or such portion thereof as you may specify in the acceptance of the tender at the rates given below and I/we agree to hold this offer open till 180 days. The rates quoted will be valid till completion of the work.

The corrigendum(s) issued from time to time by our department/organization too has also been taken into consideration, while submitting this acceptance letter.

I / We do hereby declare that our Firm has not been blacklisted / debarred by any Govt. Department/Public sector undertaking.

I/ We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the fully said earnest money deposit absolutely.

Yours Faithfully,
Authorized Signatory.

(Signature of the Bidder, with Official Seal)

DRAFT SPECIMEN AGREEMENT
AGREEMENT FORMAT

Name of the work: "_____"

Work Order No: _____ Date: _____ Amount _____

This agreement in made at ICAR-CIFA, Bhubaneswar - 751002 on (Date.....) between the Director, ICAR-CIFA, Kausalyaganga, Bhuaneswar-751002 (Hereafter called Institute) which items shall include its successors, assignees etc. on the first part and (name and address of the firm/contractor), (Hereafter, called the Firm) ___ which items shall include its authorized representatives, successor, assignees, etc., on the other part.

The Contractor/Agency will perform the said works in the said orders and shall execute the same with great promptness and accuracy in a workman like manner to the best satisfaction of the Director, ICAR-CIFA, Kausalyaganga, Bhubaneswar-2 and will complete the same in accordance with the said specification and terms and conditions laid down in the above said work order. The ICAR-CIFA will pay or cause to be paid to the contractor for the said works on final completion of the work(s) thereof and amount due in respect thereof at the rate specified in the schedule hereto referedr. If during the performance of the work any theft, damage or losses to the property of ICAR-CIFA is caused by contractor, but not occurring by or arising out by Acts of God (Natural Calamity), or warlike operations the same will be made good by contractor at his/her own cost.

In case the firm fails to perform any of the terms and conditions of this agreement or commits any breach of the contract, the Director, ICAR-CIFA, Kausalyaganga, Bhubaneswar-751 002 shall have power to terminate the contract without assigning any reason thereof.

In case of any loss or damage to the property of the Director, ICAR-CIFA, Kausalyaganga, Bhubaneswar751 002, which is attributable to the firm, the full damages will be recovered from the firm. The firm shall not transfer its right of work or sub-contact to anyone else.

The firm or its workers shall not misuse the premises for any purpose other than for which contact is awarded In case any accident/loss of life of the workers occurs during contract period and if any compensation is awarded, the same shall be borne by the firm.

The firm shall provide a coordinator for immediate interaction with the Director, ICAR-CIFA, Kausalyaganga, Bhubaneswar -751 002.

The terms and conditions as stipulated in the tender documents shall be part of this agreement.

Signature of contractor/Firm

Signature of witnesses with address

- 1.
2.

For and behalf of ICAR

TENDURE SCHEDULE:Work Details: “Security Tower at ICAR-CIFA, Kausalyaganga.”.

| Sl.No | Description of items | Qty | Unit | Rate | Amount |
|-------|--|--------------|------|---------|----------|
| 1. | Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil. (item code:2.8.1) | 51.63 | m3 | 252.30 | 13026.25 |
| 2. | Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete. (item code:2.27) | 16.40 | m3 | 976.52 | 16014.93 |
| 3 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size) (item code:4.1.8) | 6.02 | m3 | 5289.60 | 31843.39 |
| 4 | Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size) (item code:5.1.3) | 2.34 | m3 | 6388.69 | 14949.53 |

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| | | | | | |
| 5 | Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size) (item code:5.2.2) | 8.05 | m3 | 8506.00 | 68473.30 |
| 6 | Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size). (item code:5.3) | 13.35 | m3 | 8763.80 | 116996.73 |
| 7 | Centering and shuttering including strutting, propping etc. and removal of form for :Foundations, footings, bases of columns, etc. for mass concrete. (item code:5.9.1) | 76.08 | m2 | 284.85 | 21671.39 |
| 8 | Centering and shuttering including strutting, propping etc. and removal of form for :Suspended floors, roofs, landings, balconies and access | 55.12 | m2 | 493.05 | 27176.92 |

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|----|---|---------------|-----------|---------|-----------|
| | platform. (item code:5.9.3) | | | | |
| 9 | Centering and shuttering including strutting, propping etc. and removal of form for :Lintels, beams, plinth beams, girders, bressumers and cantilevers. (item code:5.9.5) | 56.16 | m2 | 452.05 | 25387.13 |
| 10 | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Hot rolled deformed bars (item code:5.22.4) | 2281.80 | Kg | 83.50 | 190530.30 |
| 11 | Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :Cement mortar 1:6 (1 cement : 6 Coarse sand). (item code:6.34.2) | 28.64 | m3 | 7280.70 | 208519.25 |
| 12 | Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.(item code:10.2) | 567.30 | Kg | 101.75 | 57722.78 |
| 13 | Providing and fixing to existing door frames.25 mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762 mm X 25 mm or less | 4.20 | m2 | 2582.30 | 10845.66 |

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|----|---|---------------|----|---------|----------|
| | <p>as per requirement with an average wall thickness of 1 mm (\pm 0.3 mm). PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm (\pm 0.1 mm) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25 mm X 11 mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufacturer's specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places. (item code:9.118.3)</p> | | | | |
| 14 | <p>Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.Using M.S. angels 40x40x6 mm for diagonal braces. (item code:10.5.1)</p> | 3.90 | m2 | 4428.15 | 17269.79 |
| 15 | <p>15 mm cement plaster on the rough side of single or half brick wall of mix :1:6 (1 cement: 6 fine sand) (item code:13.2.2)</p> | 140.40 | m2 | 292.85 | 41116.14 |

| | | | | | |
|----|---|---------------|----|--------|----------|
| 16 | 20 mm cement plaster of mix :1:6 (1 cement: 6 coarse sand). (item code:13.6.2) | 135.36 | m2 | 360.10 | 48743.14 |
| 17 | Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)(item code:13.46.1) | 135.36 | m2 | 164.70 | 22293.79 |
| 18 | Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm. (item code:13.48.1) | 140.40 | m2 | 142.20 | 19964.88 |
| 19 | Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two or more coats on new work. (item code:13.61.1) | 10.80 | m2 | 121.55 | 1312.74 |
| 20 | Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.(item code:13.80) | 275.76 | m2 | 115.15 | 31753.76 |

| | | | | | |
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| 21 | Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm (item code:11.41.2) | 9.00 | m2 | 1500.55 | 13504.95 |
| 22 | Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/sqm including grouting the joint with white cement & matching pigments etc. complete.Size of Tile 600x600 mm. (item code:11.46.2) | 37.80 | m2 | 1545.85 | 58433.13 |
| 23 | Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.40 mm thick with 20 mm nominal size stone aggregate. (item code:11.3.1) | 14.40 | m2 | 498.35 | 7176.24 |

| | | | | | |
|----|---|--------------|----|---------|----------|
| 24 | Grading roof for water proofing treatment with Cement concrete 1:2:4 (1 cement : 2 coarse sand :4 graded stone aggregate 20mm nominal size) (item code:22.14.1) | 1.76 | m3 | 6924.65 | 12187.38 |
| 25 | Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level.All types of soil 300 mm dia. (item code:23.1.1.1) | 21.60 | mt | 512.30 | 11065.68 |
| 26 | Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.100 mm nominal size dia. (item code:23.3.1) | 16.80 | mt | 600.35 | 10085.88 |
| 27 | Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.100 | 4.80 | mt | 651.45 | 3126.96 |

| | | | | | |
|----|--|-------------|------|---------|---------|
| | mm nominal size dia. (item code:23.4.1) | | | | |
| 28 | Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (item code:23.5) | 1.48 | m3 | 1326.55 | 1963.29 |
| 29 | Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer -incharge. (item code:23.7) | 1.48 | m3 | 1326.55 | 1963.29 |
| 30 | Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge. (item code: 23.12) | 4.00 | hrs. | 857.60 | 3430.40 |

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| | | | | | |
| 31 | Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:100 mm dia. (item code:23.13.1) | 1.00 | no | 189.65 | 189.65 |
| 32 | Providing and fixing M.S. clamp of required dia to the top of casing/housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.100 mm clamp (item code:23.14.1) | 1.00 | no | 1409.30 | 1409.30 |
| 33 | Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).100 mm dia (Item code:23.15.1) | 1.00 | no | 227.45 | 227.45 |
| 34 | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.40 mm nominal outer dia Pipes. (item code:18.7.5) | 20.00 | mt | 648.60 | 12972.00 |

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| 35 | Providing and fitting of 1HP 1 phase system submersible pump of standard make (Texno /Kirlokar/Crompton) with all minor fixtures and fitting as per the direction of Engineer-in-charge. | 1.00 | no | 12500.00 | 12500.00 |
| 36 | Supplying and laying of PVC sheathed XLPE power cable 1.1 KV grade 3.5 core 35mm ² armoured cable as per the direction of the Engineer-in-charge. | 30.00 | mt | 423.00 | 12690.00 |
| 37 | Providing and fixing starter for installation of submersible pump. | 1.00 | set | 7500.00 | 7500.00 |
| 38 | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. 32 mm nominal outer dia Pipes. (item code:18.7.4) | 10.00 | mt | 480.55 | 4805.50 |
| 39 | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases | 6.00 | mt | 478.15 | 2868.90 |

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| | and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.20 mm nominal outer dia Pipes. (item code:18.8.2) | | | | |
| 40 | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.15 mm nominal outer dia Pipes. (item code:18.8.1) | 6.00 | mt | 409.65 | 2457.90 |
| 41 | Providing and fixing water closet squatting pan (Indian type W.C.pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests. (item code:17.1.1) | 1.00 | no | 5421.50 | 5421.50 |

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| 42 | Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :W.C. pan with ISI marked white solid plastic seat and lid. (item code:17.2.1) | 1.00 | no | 5260.95 | 5260.95 |
| 43 | Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required, with stop cock for flushing. (item code :17.4.1) | 1.00 | no | 4982.25 | 4982.25 |
| 44 | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps. (item code:17.7.1) | 2.00 | nos | 3087.70 | 6175.40 |

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| 45 | Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :Rectangular shape 453x357 mm. (item code:17.32.2) | 2.00 | nos | 1242.00 | 2484.00 |
| 46 | Providing and fixing soil, waste and vent pipes :100 mm dia PVC pipe as per IS: 1729. (item code: 17.35.1.1) | 8.00 | mt | 1008.20 | 8065.60 |
| 47 | Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.100 mm dia PVC as per IS - 1729. (item code:17.38.1.1) | 4.00 | nos | 461.65 | 1846.60 |
| 48 | Providing and fixing single unequal plain junction of required degree :100x100x75 mm PVC S&S as per IS - 1729. (item code:17.48.1.1) | 4.00 | nos | 697.10 | 2788.40 |
| 49 | Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :15 mm nominal bore. (item code:18.49.1) | 2.00 | nos | 418.95 | 837.90 |
| 50 | Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.15 mm nominal bore. (item code:18.51.1) | 2.00 | nos | 552.35 | 1104.70 |

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| 51 | Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15mm nominal bore. (item code:18.53.1) | 2.00 | nos | 532.00 | 1064.00 |
| 52 | Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.(item code:18.53A) | 6.00 | nos | 61.25 | 367.50 |
| 53 | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.(item code:18.48) | 1000.00 | ltrs | 8.80 | 8800.00 |
| 54 | Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.15 mm nominal bore. (item code:18.52.1) | 1.00 | no | 606.25 | 606.25 |
| 55 | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :32 mm nominal bore.. (item code:18.17.2) | 2.00 | nos | 581.25 | 1162.50 |
| 56 | Providing and fixing gun metal gate valve with C.I. wheel of approved | 1.00 | no | 678.40 | 678.40 |

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| | quality (screwed end) :40 mm nominal bore. (item code:18.17.3) | | | | |
| 57 | Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS - 1536 :150 mm dia pipe. (item code:18.27.3) | 15.00 | mt | 1810.25 | 27153.75 |
| 58 | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:Cement mortar 1:4 (1 cement : 4 coarse sand)(item code:6.1.1) | 5.40 | m3 | 6376.25 | 34431.75 |
| 59 | Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.20 mm cement plaster(item code:13.9.2) | 24.60 | m2 | 460.70 | 11333.22 |
| 60 | Supplying of 8mtrs RCC/PCC pole as per requirement of the Institute. | 10.00 | nos | 4500.00 | 45000.00 |
| 61 | Erection of RCC/PCC pole of following length in brick ballast and ramming the foundation, finishing with 150mm thick cement concrete (1:3:6) layer on top with including excavation and refilling etc. as required. | 10.00 | nos | 5280.00 | 52800.00 |
| 62 | Supplying and fixing of 6 sq.mm service wire including PVC stay wire as required. | 700.00 | mt. | 50.00 | 35000.00 |

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| 63 | Supplying and fixing of 32A DP MCB as required. | 2.00 | no | 450.00 | 900.00 |
| 64 | Supplying and fixing of 4 way double door DB box as per requirement of deptt. | 2.00 | no | 600.00 | 1200.00 |
| 65 | Wiring for light point/fan point/exhaust fan point/call bel point with 1.5sq.mm FRLS PVC insulated copper conductor single core cable in surface/recessed PVC conduit with modular switch modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. | 15.00 | point | 783.00 | 11745.00 |
| 66 | Supplying and fixing of 20W LED batten light as required. | 8.00 | nos | 300.00 | 2400.00 |
| 67 | Supplying and fixing of 200W LED flood light as required. | 2.00 | nos | 8500.00 | 17000.00 |
| 68 | Supplying and fixing of 225 mm exhaust fan with reputed brand as required. | 2.00 | nos | 1800.00 | 3600.00 |
| 69 | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6A modular socket outlet and 5/6A modular switch connections etc. as | 3.00 | nos | 477.00 | 1431.00 |

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| | required. | | | | |
| 70 | Wiring for circuit/submain wiring alongwith earth wire with the following sizes (2 x 1.5 sq.mm - 1 x 1.5sq.mm earth wire) of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required. | 20.00 | mts. | 233.00 | 4660.00 |
| 71 | Supplying and fixing of 16A C type SP MCB as required. | 4.00 | nos | 180.00 | 720.00 |
| 72 | Supplying and fixing of 45W LED street light with bracket, clamp nut bolt as required. | 10.00 | nos | 3800.00 | 38000.00 |
| 73 | Earthing with GI earth pipe 4.5meter long, 40mm dia including GI wire accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/coke and salt as required. | 2.00 | nos | 5308.00 | 10616.00 |
| 74 | Supplying and erection of stay set complete (galvanised) with 19/20mm dia x 0.8m long stay rod, anchor plate of size 45cm x 45cm x 7.5mm, thimble, stay clamps, turn buckle (20 mm x 60cm) 7/3.15mm dia GI stay wire and strain insulator etc. in cement concrete 1:3:6 (1cement : 3 coarse sand : 6 graded stone aggregate 40mmm nominal size) foundation including excavation and refilling etc. as required. | 2.00 | sets | 4894.00 | 9788.00 |

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| 75 | Supplying and fixing of 78W ceiling fan of reputed brand as per the requirement of the Institute. | 3.00 | nos | 2800.00 | 8400.00 |
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| | | | | Total Rs. | 15,33,994.37 |
| | | | | Say Rs. | 15,33,994/- |

(Rupees fifteen lakh thirty three thousand nine hundred and ninety four only)

Name & Signature of the Agency:-.....