

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for Dampness Treatment, Tiles Re-grouting, Internal Painting, Expansion Joint treatment and other miscellaneous civil renovation works with allied Electrical and S&P works at MT Hall of Residence at IIT, Kharagpur.



INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR, WEST BENGAL

TENDER DOCUMENT FOR

Dampness Treatment, Tiles Re-grouting, Internal Painting, Expansion Joint treatment and other miscellaneous civil renovation works with allied Electrical and S&P works at MT Hall of Residence at IIT, Kharagpur.

PART – I : TECHNICAL BID

NOTICE INVITING TENDER NO. : SE(C)-IIT-TEN-2017-18_05
DATED : 06.04.2017

APRIL 2017

Cost of Tender Document : Rs. 1000.00 (Non-Refundable)
Last Date & Time of Submission : 20.04.2017, upto 3:00 pm

योग: कर्मसु कौशलम्
CIVIL CONSTRUCTION & MAINTENANCE SECTION
IIT, KHARAGPUR,
WEST BENGAL

SUPERINTENDING ENGINEER (CIVIL)
IIT KHARAGPUR

Name of Bidder : M/S.....

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Issued on:

CCM Tender Sl. No. _____

Dated _____

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for Dampness Treatment, Tiles Re-grouting, Internal Painting, Expansion Joint treatment and other miscellaneous civil renovation works with allied Electrical and S&P works at MT Hall of Residence at IIT, Kharagpur.

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**INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR**

No. SE(C)-IIT-TEN-2017-18_05

Date: 06.04.2017

NOTICE INVITING TENDER

The Superintending Engineer (Civil), IIT Kharagpur, invites sealed Item Rate tenders under **Two part Bid System** containing Part-I (Technical Bid) & Part-II (Financial Bid) from the approved and eligible contractors of the Indian Institute of Technology, Kharagpur/CPWD/PWD/MES and other bonafide agencies meeting the minimum qualification criteria for the following work:

Name of work	Estimated Amount (Rs.)	Earnest Money Deposit (Rs.)	Time for Completion	Start Date & Time of Tender Document Download / Bid Submission	End Date & Time of Tender Document Download / Bid Submission	Date & Time of opening of Technical Bid
Dampness Treatment, Tiles Re-grouting, Internal Painting, Expansion Joint treatment and other miscellaneous civil renovation works with allied Electrical and S&P works at MT Hall of Residence at IIT, Kharagpur.	28,96,848.00	57,940.00	03 (Three) Months	06.04.2017 03:30 PM	20.04.2017 upto 03:00 PM	20.04.2017 at 3:30 PM

Cost of Tender Paper Rs. 1000.00, NON REFUNDABLE (in the form of DD only) in favour of **IIT Kharagpur**, payable at **Kharagpur** (validity of DD should be at least 03 months) is to be submitted along with the tenders (within Technical Bid). Tender without 'Cost of Tender Document' will be summarily rejected.

The Earnest Money should be deposited along with the tenders (within Technical Bid) in the form of DD only in favour of IIT Kharagpur, payable at Kharagpur. Tender without 'Earnest Money Deposit' will be summarily rejected.

Brief Scope of Work

The work to be executed at the students Halls of Residence, according to a strict time schedule and front availability.

The work comprises of –

1. Civil, Sanitary & Plumbing Works (Major Component), approximately 94% of total work value
2. Electrical Works (Minor Component), approximately 6% of total work value

Eligibility Criteria

Contractors who fulfill the following requirements shall be considered as eligible bidder.

Agencies should have satisfactorily completed the similar works as mentioned below during the last 07 (Seven) years ending last day of the March, 2017:

- i) Three (03) similar works each costing not less than 40% of estimated cost, or
- ii) Two (02) similar works each costing not less than 60% of estimated cost, or
- iii) One(01) similar work costing not less than 80% of estimated cost, executed under

Central/State Government Department / Central/State Autonomous Body / Central/State Public Sector Undertaking.

Similar work shall mean: Construction / Repair & Renovation / Maintenance of Building.

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum calculated from the date of completion to last date of applications for tenders.

Completion certificate issued by Competent Authority will only be considered as credential. If the Completion certificate issued by Competent Authority does not reflect the type of work, then Final bill / Schedule of Quantity of the qualifying works also to be attached along with the Completion certificates.

If the bidders has no experience for allied minor component, he must associate himself, with agencies eligible to bid for the minor component (Electrical works), individually in line with Eligibility Criteria mentioned above (i.e, 3 similar Electrical works each costing not less than 2% of estimated cost, or 2 similar Electrical works each costing not less than 3% of estimated cost, or 1 similar Electrical work costing not less than 5% of estimated cost). The contractor or the agency he associates with to carry out the electrical work shall have to produce valid license from the competent authority in his name. The validity of the license should remain for the whole tenure of the work. The same should be submitted along with the technical bid. The eligible bidders shall quote rates for all items of major component (Civil and Sanitary & Plumbing) as well as for all items of allied minor component (Electrical) of work.

The tender document (consisting of specifications, the schedule of quantities of various types of items to be executed, the set of terms and conditions of the contract and other documents / drawings, if any) can be downloaded from the **Central Public Procurement Portal** of Government of India <https://eprocure.gov.in/cppp/tendersearch> & **Institute's website** <http://www1.iitkgp.ac.in/topfiles/tenders.php>. *The institute shall not be responsible for any delay / difficulties / inaccessibility of downloading facility for any reason whatsoever. In case of any discrepancy between the tender documents downloaded from internet and the master copy available in this office, the letter shall prevail and will be binding on the tender(s). No claim on this account will be entertained.*

Tender should be submitted as per the prescribed format within the specified date and time at Office of Civil Construction & Maintenance Section, IIT Kharagpur, and failing to do so, the offer shall be summarily rejected. **Bid Validity period is 90 Days** from submission of bid. Bid will be opened at Civil Construction & Maintenance Section, IIT Kharagpur. **The Institute reserves the right to reject any tender without assigning any reason thereof.**

Superintending Engineer (Civil)
On behalf of Indian Institute of Technology
Kharagpur

Copy to:

- 1) Registrar,
- 2) Chairman (CC&M)
- 3) Vice Chairman (CC&M) Civil
- 4) Executive Engineer (Civil)
- 5) Engineer (Civil)
- 6) Asstt./Jr. Engineer (Civil)
- 7) Notice Board
- 8) Office file

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INSTRUCTIONS TO THE BIDDER

1. Attention of the tenderer is directed to the conditions of tender and general conditions of contract of IIT Kharagpur. Bidders who are not aware of the "General Conditions of Contract" of IIT Kharagpur are instructed to collect the same from Civil Construction and Maintenance Section, IIT Kharagpur and read the terms & conditions before submission of the tender.
2. The tenderer shall visit and inspect the site and obtain all information on his own responsibility and at own cost, which may be necessary for the purpose of quoting and submitting the tender. No excuse or ignorance as to site conditions and local information shall be accepted after awarding of the contract. All costs, charges & expenses that may be incurred in connection with the preparation of his tender shall be borne by him and the Institute accepts no liability whatsoever therefore. Failure by the tenderer to have done all the things, which in accordance with his condition he is deemed to have done shall not relieve the successful tenderer of the responsibility for satisfactory completion of the work as required. If there is any clarification required, the tenderer shall submit the queries in writing 03 (Three) days before the last date & time of submission of the tender, to the Civil Construction & Maintenance Section, IIT Kharagpur. Access to the site will be granted, if necessary, to the tendered by prior permission of the Engineer-in-charge.
3. The time for completion of work is **03 (Three) Months** & will be reckoned from the 7th day from the date of issue of Work Order or handing over of site, whichever is earlier. The work to be executed according to a strict time schedule and front availability.
4. EMD of requisite amount as mentioned in NIT/Corrigenda in favour of **IIT Kharagpur** in the form of **Demand Draft** only from any **Nationalized Bank** payable at **Kharagpur** should be enclosed within the **Technical Bid**. Validity of DD should be at least 90 days from date of publication of NIT. Any tender received without requisite Earnest Money in the form as mentioned above shall be summarily rejected and treated as cancelled. The Earnest Money received shall be refunded to the unsuccessful bidders without any interest upon executing the Contract Agreement by successful tenderer, subject to the provisions of Clause 5 of ITB. The Earnest Money Deposit (EMD) of successful tenderer shall be retained and converted as part of Security Deposit.
5. Earnest Money Deposit (EMD) will be forfeited in the following cases -
 - a. If the tenderer withdraws / modifies his tender during the period of Bid Validity.
 - b. If the tenderer does not accept the correction of arithmetical errors of his tender.
 - c. If the tenderer after award of work, does not start the work within the stipulated time period as per Letter of Acceptance / Work Order.
6. **Eligibility Criteria**

Contractors who fulfill the following requirements shall be considered as eligible bidder.

Agencies should have satisfactorily completed the similar works as mentioned below during the last 07 (Seven) years ending last day of the March, 2017 :

- i) Three (03) similar works each costing not less than 40% of estimated cost, or
- ii) Two (02) similar works each costing not less than 60% of estimated cost, or
- iii) One(01) similar work costing not less than 80% of estimated cost, executed under Central/State Government Department / Central / State Autonomous Body / Central/State Public Sector Undertaking.

Similar work shall mean: Construction / Repair & Renovation / Maintenance of Building.

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum calculated from the date of completion to last date of applications for tenders.

Completion certificate issued by Competent Authority will only be considered as credential. If the Completion certificate issued by Competent Authority does not reflect the type of work, then Final bill / Schedule of Quantity of the qualifying works also to be attached along with the Completion certificates.

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If the bidders has no experience for allied minor component, he must associate himself, with agencies eligible to bid for the minor component (Electrical works), individually in line with Eligibility Criteria mentioned above (i.e, 3 similar Electrical works each costing not less than 2% of estimated cost, or 2 similar Electrical works each costing not less than 3% of estimated cost, or 1 similar Electrical work costing not less than 5% of estimated cost). The contractor or the agency he associates with to carry out the electrical work shall have to produce valid license from the competent authority in his name. The validity of the license should remain for the whole tenure of the work. The same should be submitted along with the technical bid. The eligible bidders shall quote rates for all items of major component (Civil and Sanitary & Plumbing) as well as for all items of allied minor component (Electrical) of work.

7. Submission of Bid

The bids shall be submitted in **Two Parts** in two separate sealed envelopes:

I. **Complete Technical Bid** will comprise of :

- i) EMD of requisite amount in the form of DD only in favour of IIT Kharagpur payable at Kharagpur. Bid without EMD would be summarily rejected.
- ii) Credential documents fulfilling the minimum eligibility criteria as per Clause 6 above, i.e., Experience Certificates for completion of similar type of job within last seven years.
- iii) Original Tender Document – Part-I: Technical Bid. (Stamped & Signed in all pages)
- iv) Statutory registration documents like Trade License, PAN, IT Return of last 3 years and other tax clearance Certificates, if any, etc.

II. **Complete Financial Bid** will comprise of :

- i) Duly filled-up **Form of Tender** as an acceptance to the terms and conditions set in the tender.
- ii) Duly filled-up **Schedule of Quantities**.

Both the envelopes should be duly marked on top with **NIT Number, Name of work and Technical Bid / Financial Bid** as the case may be and both the envelopes to be submitted in another sealed envelope duly marked on top with **NIT Number and Name of work**.

Cost of Tender Paper Rs. 1000.00, NON REFUNDABLE (in the form of DD only) in favour of IIT Kharagpur, payable at Kharagpur (validity of DD should be at least 03 months) to be submitted along with the tenders (within Technical Bid). Tender without 'Cost of Tender Document' will be treated as cancelled. Tenders must be delivered at the place and time as indicated in NIT / further corrigenda. Bids that are not in the above format will be rejected.

8. All Rates, Prices, Amounts and Sums quoted by the bidder shall be in Indian currency only. The language used throughout shall be English.
9. All Rates, Amounts & Sums shall have to be quoted in indelible ink and written both in figures and words. If the rate quoted in words does not tally with the rate quoted in figures then the rate which corresponds to the lesser amount shall be considered.
10. Any overwriting / correction / applying correction fluid shall be avoided and in case any correction is made the same must be initialized and stamped.
11. Tender must be submitted with the rates for all the items of work involved and any incomplete tender will not be considered. The items for which the rates are not quoted will be considered as '**Zero**' & the agency shall complete that item of work without any claim.
12. No alteration shall be made by the tenderer in the tender and no conditional tender will be entertained. Tender with split rate will not be considered.
13. The bid shall remain valid for a period of **90 days** from the date of opening of the bid. If before expiry of the validity period or issue of work order, whichever is earlier, the bidder amends / modifies / withdraws his bid, making unacceptable to the institute, then the Earnest Money Deposit shall be liable to forfeiture at the option of the Institute.
14. The Rates quoted by the tenderer should be inclusive of all taxes & duties, freight, cost for loading & unloading etc. and must hold good till the completion of work and shall not be subjected to escalation due to increase in local market rates of materials and labour. No claim on this account what so ever shall be entertained at any stage including the extended period, if any.

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- Tender Document for Dampness Treatment, Tiles Re-grouting, Internal Painting, Expansion Joint treatment and other miscellaneous civil renovation works with allied Electrical and S&P works at MT Hall of Residence at IIT, Kharagpur.
15. The tenderer shall have to submit copies of valid Trade License, PAN, Income tax and other statutory tax clearance Certificates, if any, along with the tender. The original copies of these Certificates will have to be produced when demanded for verification.
 16. Each page of the bid document shall have to be signed and stamped by the Bidder / Authorised Signatory before submission. The bidders have to submit the tender documents and correspondences accompanying the tender with proper sign and stamp on each page along with the bid. The person / officer signing the tender / bid should be delegated with an appropriate **Power of Attorney (duly endorsed by a Notary Public)** by the **Owner / Proprietor / Partner / CEO / MD / Director** of the company to sign such documents.
 17. The Intending bidders will have to produce documentary evidence in original in support of their credentials before the competent authority whenever demanded for verification. If any information furnished by the bidder is found as false / fabricated then his bid will be rejected and treated as cancelled, even if the same is detected at any stage after signing of the contract and would lead to termination of the contract besides forfeiture of Earnest Money Deposit (EMD) and liabilities towards prosecution under appropriate law. In such cases the bidder / tenderer will be debarred from participation in future tendering process for next 03 (Three) years.
 18. Should there be any doubt or obscurity as to the meaning of any of the tender documents or if any further information is required, the tenderer must address his enquiry in writing in duplicate to **Superintending Engineer**, Civil Construction & Maintenance Section, Indian Institute of Technology Kharagpur - 721302, West Bengal. Such enquiries must be submitted not later than **03 (Three)** working days before the last date fixed for submission of the tenders.
 19. The sealed Bids shall be received by the Institute at Civil Construction and Maintenance Section not later than the time and date stipulated in the Notice Inviting Tender or Corrigenda otherwise. Tenders that are received after the date and time specified will not be considered.
 20. The Technical Bid of tender will be opened on the specified date and time of opening at the Civil Construction & Maintenance Section, IIT Kharagpur in the presence of bidders / tenderers or their Authorised representatives (with proper authorization letter from Owner/Proprietor/Partner/CEO/MD/Director of the company mentioning Name, Address and designation of the person being authorised).
 21. Date and time of opening of Price Bid will be informed to the Technically Qualified Bidders and will be opened at the Civil Construction & Maintenance Section, IIT Kharagpur in the presence of bidders / tenderers or their Authorised representatives (with proper authorization letter from Owner/Proprietor/Partner/CEO/MD/Director of the company mentioning Name, Address and designation of the person being authorised).
 22. The Institute reserves the right to accept or reject any or all the offer including the lowest without assigning any reason. The Institute does not bind itself to accept the lowest offer.
 23. The successful tenderer, shall deposit an amount equal to 5% of the tendered and accepted value of the work as performance guarantee in the form of Demand Draft of a Scheduled Bank in favour of IIT Kharagpur payable at Kharagpur. The time allowed for submission of the performance guarantee shall be 15 days of receiving "Letter of Acceptance" (LOA). This period can be further extended as the written request of the contractor by the Engineer-in-charge for a maximum period ranging from 1 to 15 days with a late fee @ 1.00% per day of Performance Guarantee Amount. If the bidder still fails to deposit the performance guarantee within the extended time period, i.e. within 16th day to 30th day from the issue of letter of acceptance (LOA), his bid will be rejected and treated as cancelled and the entire Earnest Money Deposit shall be forfeited. After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the Contractor, without any interest.
 24. Standard Institute payment procedure shall be followed. A sum @ 5% of the gross amount of the bill shall be deducted as Security Deposit from the bill of the contractor. However, Earnest Money shall be adjusted first in the Security Deposit and the rest amount to complete a sum of 5% of gross bill value will be deducted from the contractor's bill. The security deposit of the Contractor shall not be refunded before the expiry of defect liability period after the issue of the certificate final or otherwise, of completion of work, or till the final bill has been prepared and passed whichever is later.

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ADDITIONAL CONDITIONS OF CONTRACT

1. The quantities indicated are approximate and may vary at the time of execution. The Institute will exercise absolute discretion for operating all or some items of the schedule.
2. The scope of work includes **Civil works with allied Sanitary & Plumbing and Electrical works**. All works have to be executed in a systematic manner without hampering other jobs. *The bidders must associate himself, with agencies eligible to bid for the minor components (Electrical works) individually. The contractor or the agency he associates with to carry out the electrical work (minor component) shall have to produce valid electrical license from the competent authority in his name. The validity of the license should remain for the whole tenure of the work. The same should be submitted along with the technical bid. The eligible bidders shall quote rates for all items of major component (Civil and Sanitary & Plumbing works) as well as for all items of allied minor component of work (Electrical works).*
3. The total work would be done simultaneously in different floor.
4. Colour & type of flooring, painting etc. have to be approved by the concerned authority. Contractor has to arrange the adequate labour and materials accordingly to fulfill all the above conditions. Contractor has to remove all the debris from the site of execution and dispose them at suitable places shown by the Engineer or his authorised representative at site.
5. Cement used for the work should not be older than two months from the date of manufacture. The contractor should purchase the cement from authorised dealer and submit the test certificates/vouchers prior to execution of the work.
6. All temporary arrangements, staging, working platforms etc. is to be provided by the contractor at his own expense to the satisfaction of the Engineer-in-Charge. The Institute will not however, be liable to pay any compensation due to accident, injury to the contractor's work men or any account what-so-ever.
7. Steel to be supplied and used should be from approved manufacturers. Steel from manufacturers other than approved make / re-rolled steel will not be acceptable. The consumption of steel will be regulated as per bar bending schedule and drawing to the contractor and/or as directed by Engineer-in-charge. Payment of reinforcement rod, will be made as per actual use including overlaps, crank, bending etc., as needed at work site, if any, as per approved drawing. Quantity will be calculated using standard weight per running meter. No wastage on any account is payable. Test certificate of steel should be submitted by the contractor. The contractor must submit vouchers for the steel purchased to the Engineer. All reinforcement used should be free from loose mill scale, loose rust, paint and oil coating etc.
8. All concreting works instructed shall be Machine mixed and Machine vibrated and will have required levels of strength at the time of testing. Poorly executed concrete have to be demolished and repair will not be allowed.
9. The Institute will be at liberty to take samples during the course execution of work and get the same tested at Institute's laboratory to ascertain the quality conforming to relevant specification. The cost of sample and the charges for the testing will have to be borne by the contractor.
10. The contractor will have to maintain the work for **SIX** calendar months from the certified date of its completion.
11. The job is to be done as per WBPWD Building & Sanitary works specification for building / Civil works and WBPWD Roads specification for Road Works, as applicable and provisions made in relevant IS codes must be followed.
12. The bituminous road work shall be carried out by using bitumen of grade VG30 preferably from IOCL, wherever applicable.

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13. Roof treatment work / water proofing treatment work should be guaranteed by the contractor for 10 years after successful completion of work, wherever applicable.
14. For painting works-
 - i. Volume of paint required is to be procured & stored at site during starting of work to avoid mismatch of shade. And Challan / Tax invoice of procured paint, certified by the Manufacturers, should be submitted to the department.
 - ii. Sampling of paint should be done in presence of the manufacturers' representative and the quality of application to be certified by the manufacturer and the same to be submitted to the department.
 - iii. Surface preparation and procedure of paint application as suggested by the paint manufacturers to be followed properly and Checklist of paint (pro-forma will be provided by EIC during execution) to be jointly signed by the contractor, paint manufacturer.
 - iv. External Painting works to be guaranteed by the paint manufacturer for a period of 03 years for Normal Acrylic Emulsion, 05 years for 100% Acrylic Emulsion and 07 years for super protective Acrylic Emulsion Paint. The warranty should cover replacing of paint to the extent of defect including cost of labour for re-application of coating as may be necessary to set right the paint failure, at the contractor's own risk and cost.
Paint failure shall mean –
 - a) flaking / peeling / cracking or chalking of paint film
 - or, b) growth of micro-organism like algae/fungus on the painted surface
 - or, c) fading of colour shade of painted surface
 - v. For a particular area, primer and paint to be used should of same make approved by IIT Kharagpur.
15. The contractor shall take adequate precaution and safety measures while executing the renovation of the existing room so as not to cause any damage to adjacent room, toilet, water main and electrical/networking lines/cables.
16. The areas under the scope of work should be barricaded or cordoned off by suitable means to avoid mishaps of any kind, without restricting or hampering, the movement of boarders / residents / users within the Halls of Residence. Proper warning signs should be displayed for the safety of the public whenever clearing works would be undertaken.
17. This safety provision should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot.
18. To ensure effective enforcement of the rules and regulation relating to safety precautions the arrangement made by the contractor shall be open to inspection by the Engineer –in-Charge of the department of their representative.
19. Suitable safety arrangement should be provided as per CPWD safety code.
20. The contractor should ensure that the work front and its adjoining areas should be kept clean of any debris / rubbish at his own risk and cost.
21. The Contractor would not be allowed to store cement / steel / tiles / electrical fittings / wood / plywood / or any such materials to be used for the work in common spaces within the Halls of Residence causing inconvenience to the users.

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SCOPE OF WORK & TECHNICAL SPECIFICATION

The scope of work includes *Dampness Treatment, Tiles Re-grouting, Internal Painting, Expansion Joint treatment and other miscellaneous civil renovation works with allied Electrical and S&P works at MT Hall of Residence*. The work to be executed according to a strict time schedule and front availability. The agency shall make himself ready to take up a job within short notice. The work comprises of Civil Works, Sanitary & Plumbing and Electrical works as -

1. Civil, Sanitary & Plumbing Works (Major Component), approximately 94% of total work value
2. Electrical Works (Minor Component), approximately 6% of total work value

APPROVED MAKE LIST OF MATERIALS TO BE USED WHEREVER APPLICABLE

SL. NO.	ITEM	SUGGESTED BRAND NAME OR SIMILAR (APPROVED BY THE AUTHORITY)
01.	Cement (PSC)	ACC / Ultratech / Ambuja / Lafarge
02.	Reinforcement Steel	TATA / SAIL / RINL
03.	Structural Steel	TATA / SAIL / RINL
04.	Ceramic Tiles	Johnson / Kajaria / Somany
05.	G.I. Pipes	TATA (Medium Duty)
06.	G.I. Fittings	HB / R
07.	Anodised Aluminum fittings	Allen / Metco
08.	P.V.C. Shutters	Sintex / Patton / Raunaq
09.	P.V.C. Pipes	Oriplast / Supreme / Dupal (Schedule-80)
10.	P.V.C. Cistern	Parryware Slimline
11.	P.V.C. Closet Seat Cover	Parryware Slimline
12.	P.V.C. Connector Pipe	Prayag
13.	P.V.C. Ball Cock	Prayag
14.	P.V.C. Bib Cock / Stop Cock/ Angular Stop Cock / Pillar Cock	Prayag
15.	P.V.C. Waste & Sanitary Fittings	Prayag
16.	I.P.W.C. / E.P.W.C. / Urinal	Parryware / Nycer / Hindware
17.	Basin / Sink	Parryware / Nycer / Hindware
18.	Gate Valve	Leader / Zoloto
19.	C.P. Bib Cock / Stop Cock/ Angular Stop Cock / Pillar Cock	Essco / Jaquar / Marc
20.	C.P. Shower & Shower Arm	Essco / Jaquar / Marc
21.	C. P. Waste Fittings	Essco / Jaquar / Marc
22.	C. P. Bottle Trap	Essco / Jaquar / Marc
23.	Cast Iron Pipe & Fittings	D. N. Sinha / AMC / ALC
24.	Gun Metal Wheel Valve	Zoloto / Alto / Leader
25.	Mirror	Modi Guard / Saint Govin
26.	Synthetic Enamel Paint & Primer	ICI Dulux / Asian / Berger/Nerolac
27.	Distemper & Primer	ICI Dulux / Asian / Berger/Nerolac
28.	APP Membrane	SIKA / PIDILITE / FOSROC
29.	Anti corrosive water proofing paint with aluminium finish	STP Super Silver Shield of Equivalent
30.	Extruded Aluminium Section for Doors, windows, Partitions etc.	HINDALCO/JINDAL or equivalent.

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INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR, WEST BENGAL

TENDER DOCUMENT FOR

Dampness Treatment, Tiles Re-grouting, Internal Painting, Expansion Joint treatment and other miscellaneous civil renovation works with allied Electrical and S&P works at MT Hall of Residence at IIT, Kharagpur.

PART – II : FINANCIAL BID

NOTICE INVITING TENDER NO. : SE(C)-IIT-TEN-2017-18_05
DATED : 06.04.2017

APRIL 2017

Last Date & Time of Submission : 20.04.2017, upto 3:00 pm

CIVIL CONSTRUCTION & MAINTENANCE SECTION
IIT, KHARAGPUR,
WEST BENGAL

SUPERINTENDING ENGINEER (CIVIL)
IIT KHARAGPUR

Name of Bidder : M/S.

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CCM Tender Sl. No. _____

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INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

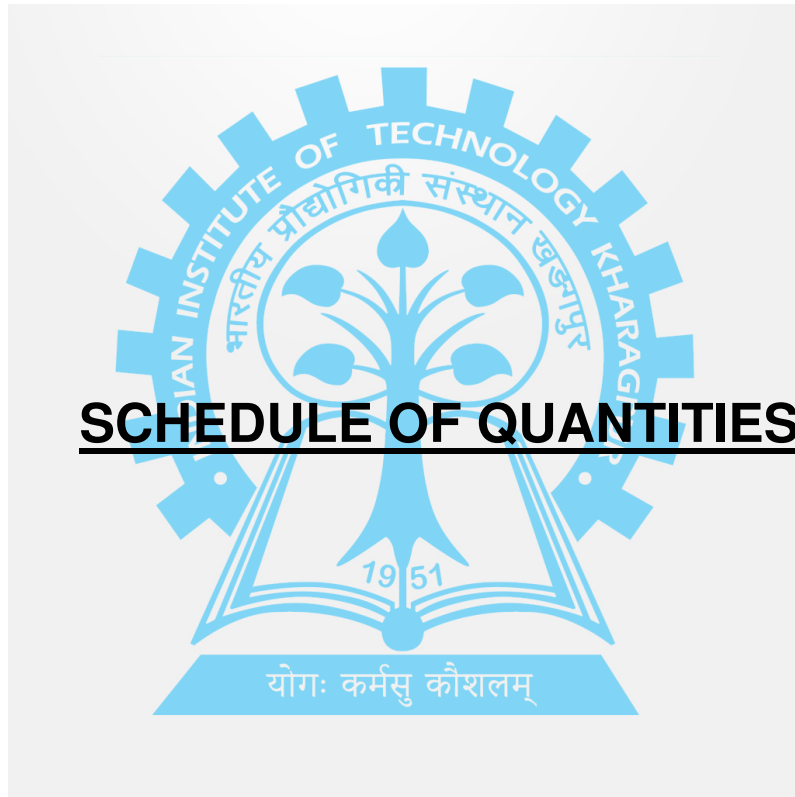
Tender Document for Dampness Treatment, Tiles Re-grouting, Internal Painting, Expansion Joint treatment and other miscellaneous civil renovation works with allied Electrical and S&P works at MT Hall of Residence at IIT, Kharagpur.

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INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for Dampness Treatment, Tiles Re-grouting, Internal Painting, Expansion Joint treatment and other miscellaneous civil renovation works with allied Electrical and S&P works at MT Hall of Residence at IIT, Kharagpur.



**CIVIL CONSTRUCTION & MAINTENANCE SECTION
IIT KHARAGPUR**

Name of Work : Dampness Treatment, Tiles Re-grouting, Internal Painting, Expansion Joint treatment and other miscellaneous civil renovation works with allied Electrical and S&P works at MT Hall of Residence at IIT, Kharagpur.

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
	PART-A : CIVIL WORKS				
1	Surface Dressing of the ground in any kind of soil including removing vegetation inequalities not exceeding 15 cm depth and disposal of the rubbish within a lead upto 75 m as directed.	Sqm.	10.000		
2	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or staking the spoils within a lead of 75 m as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete. Depth of excavation for additional depth beyond Depth of excavation not exceeding 1,500 mm	Cum	1.000		
3	Filling in foundation or plinth by fine sand in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water ramming complete including the cost of supply of sand. (Payment to be made on measurement of finished quantity)	Cum	0.400		
4	Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (Payment to be made on the basis of measurement of finished quantity of work)				

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
	(i) With carried earth arranged by the contractor within a radius exceeding 5 km. but not exceeding 10 km. including cost of carried earth.	Cum	10.000		
	(ii) With earth obtained from excavation of foundation.	Cum	1.000		
5	Anti-termite treatment to the outside of foundation with chemical emulsion by admixing chloropyrofos emulsifiable concentrate (1% concentration) with water by weight, drilling 12mm. dia holes in concrete or masonry apron at an interval of 300mm. to a depth, of 300mm or more as close to the plinth wall as possible and the chemical emulsion pumped into those holes to soak the soil below at a rate of 2.25 litres per linear metre complete as per specification laid down in para 4.3.1.1 of Code I.S.-6313 (Part-III)-1981.	Mtr.	100.000		
6	Anti-termite treatment to the junction of wood work and masonry walls with chemical emulsion by admixing chloropyrofos emulsifiable concentrates (1% concentration) with water by weight including spraying at the points of contact with the adjoining masonry by drilling 6m. dia holes at a downward angle of about 45 degree at the junction of woodwork and masonry and squirting chemical emulsion into these holes at the rate of half litre per hole. The entire work is to be carried out as per specification of Code I.S.-6313 (Part-III)-1981. The shutters are to be sprayed with emulsion. on both sides. All wooden fixtures like almirahs, racks etc. are also to be throughly sprayed with chemical emulsion. (Payment will be made on the basis of outside measurements of doors and windows)	Sqm	105.000	कौशलम्	

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
7	Stripping off worn out plaster and raking out joints of walls, ceilings etc. upto any height and in any floor including removing rubbish within a lead of 75m asdirected.	Sqm	690.000		
8	Labour for Chipping of concrete surface before taking up Plastering work.	Sqm.	7.000		
9	Supplying fitting and fixing of Hexagonal Chicken Mesh of approved quality with necessary nails etc. at all levels & in any floor complete in all respect as per instrcution of Engineer in charge.	Sqm.	50.000		
10	Applying 2 coats of bonding agent with synthetic multi functional rubber emulsion having adhesive and waterproofing properties by mixing with water in proportion (1 bonding agent : 4 water : 6 cement) as per Manufacturer's specification (Consumption of Cement @ 7.2 kg/10 Sq.M)	Sqm	690.000		
11	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding / staging where necessary at all floors and levels.				

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
	a) 15 mm thick plaster with 1:4 cement mortar	Sqm	1250.000		
	b) 20 mm thick plaster with 1:6 cement mortar,	Sqm	10.000		
12	Cleaning the concrete surface by removing dirt and debris, marking defective locations and removing loose concrete by careful stripping until hard surface is exposed, cutting the concrete to regular shape, wire brushing the exposed surface and removing debris from site complete as per direction of the Engineer -in - charge.	Sqm	10.000		
13	Cleaning the exposed reinforcement preferably upto full diameter by wire brush, applying two coats of polymer based rust removing compound left for 24 hours removing the coating and then applying two coats of polymer modified anti corrosive protective coating formulated to inhabit the corrosion of reinforcement as per manufacturer's specification.	Sqm	10.000		
14	Applying epoxy based reactive joining agent for joining the old concrete with fresh concrete to be applied within manufacturer's specified time as per manufacturers specification (0.4 kg / m ² of concrete surface)	Sqm	10.000		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
15	Welding in M.S. structural work with gas or electric: Track weld	point	10.000		
16	Cement concrete with graded stone ballast (40 mm size excluding shuttering), In all floor, Pakur Variety], 1:3:6 proportion.	Cum	0.400		
17	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement,if any, in ground floor as per relevant IS codes. Pakur Variety	Cum	0.400		
18	Ordinary cement concrete (mix 1:1.5:3) with graded stonechips (20 mm nominal size) excluding shuttering and reinforcement if any, as per relevant IS codes.	Cum	0.700		
19	Hire and labour charges for shuttering with centering and necessary staging upto 4m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works, at any floor and level as per decision & direction of Engineer-In-Charge. - Using 25 mm to 30 mm thick wooden shuttering	Sqm	7.000		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
20	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars. Stirrups. Binders etc. initial straightening and removal of loose rust (if necessary). Cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection. complete as per drawing and direction. For works in foundation, basement and all floor / Tor steel /Mild Steel.	Kg	80.000		
21	125 mm. thick brick work with 1st class bricks in cement mortar (1:4) in all floors.	Sqm	10.000		
22	Brick work with 1st class bricks in cement mortar (1:6), in superstructure, at any floor and level	Cum	5.000		
23	Brick work with 1st class bricks in cement mortar (1:6) in foundation and plinth	Cum	1.000		
24	100 mm. thick brick work with Fly Ash Bricks set in cement sand mortar (1:4) including raking out joints, curing, scaffolding etc. complete in all respect at all floors and levels	Sqm	1.000		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
25	Brick work with Fly Ash Bricks set in cement sand mortar (1:6) including raking out joints, curing, scaffolding etc. complete in all respect.	Cum	1.000		
26	Artificial stone in floor, dado, staircase etc with cement concrete (1:2:4) with stone chips, laid in panels as directed with tapping made with ordinary or with cement (as necessary) and marble dust in proportion (1:2) including smooth finishing and rounding off corners including ranking out joints or roughening of concrete surface and application of cement slurry before flooring works using cement @ 1.75 kg/sq.m all complete including all materials and labour -35 mm thick with 3 mm. thick topping.	Sqm	10.000		
27	Supplying dividing strip fitted and fixed with cement mortar (1:3) in mosaic or patent stone floor, dado etc. complete as per direction of the Engineer-in-charge.37 mm. wide strip.	Mtr.	10.000		
28	Neat cement punning about 1.5mm thick in all,dado,window sill,floor etc. Cement consumption : 0.152 cu.m per 100 sq.m.	Sqm.	10.000		
29	Rendering the Surface of walls and ceiling with White Cement base water proof wall putty of approved make & brand.(1.5 mm thick)	Sq.M	1250.000		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
30	Scraping and removing greasy soot from walls or ceiling of kitchen or similar smoke affected rooms and preparing the surface.	Sq.M	180.000		
31	Removing old scales, blisters etc. of interior surface of walls, ceiling by scraping etc. and preparing smooth and even surface with rendering or cement mortar (1:2) (as necessary), to make the surface suitable for receiving distemper as per direction of EIC at all floors and levels.	Sqm	10.000		
32	White washing including cleaning and smoothening surface thoroughly. All floors : Two coats (to be done on specific instruction).	Sq.M	10.000		
33	Applying interior grade Acrylic Primer of approved quality and brand on plastered or concrete surface old or new surface to receive Distemper/ Acrylic emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC at all floors and levels. One Coat Water based interior grade Acrylic Primer	Sqm	5500.000		
34	Acrylic Distemper to interior wall, ceiling (as per manufacturer's specification) including cleaning and smoothening of surface at all floors and levels. Two Coats	Sqm	5500.000		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
35	Applying One Coat Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive decorative textured (matt finish) or smooth finish acrylic exterior emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC at all floors and levels.	Sqm	100.000		
36	Protective and Decorative Acrylic exterior emulsion paint of approved quality, as per manufacturer's specification and as per direction of EIC to be applied over acrylic primer as required. The rate includes cost of material, labour, scaffolding and all incidental charges but excluding the cost of primer at all level. - Two Coat with Premium 100% Acrylic Emulsion	SqM	100.000		
37	Scraping of moss, blisters etc.thoroughly from exterior surface of walls necessitating the use of scraper, wire brush etc.(Payment against this item will be made only when this has been done on the specific direction of the Engineer-in-charge)	Sq.m.	50.000		
38	Applying decorative cement based paint of approved quality after preparing the surface including scraping the same thoroughly (plastered or concrete surface) as per manufacturer's specification. (Two coats) - colour wash	Sq.m.	10.000		
39	Cement washing including cleaning and smoothening surface thoroughly (cement to be used @15 kg./100 sq.m. of surface for one coat and @25 kg./100 sq.m of surface for two coats): Two coats (on new surface only)	Sq.m.	10.000		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
40	Priming one coat on Timber, Plaster surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. at all floors and levels.	Sqm	590.000		
41	Priming one coat on steel or other metal surface with synthetic all bound primer of approved quality including smoothening surfaces by sand papering etc. at all floors and levels.	Sqm	310.000		
42	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface in necessary.				
	(a) On timber or plastered surface, With super glass (hi-gloss), Two coat (with any shade except white) .	Sqm	590.000		
	(b) On steel or other metal surface. With super glass (hi-gloss). Two coat (with any shade except white) .	Sqm	310.000		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
43	MS or W.I. Ornamental grill of approved design joints continuously welded with M.S. W.I Flats and bars of windows, railing etc. fitted and fixed with necessary screws and lugs in ground floor.Grill weighing above 16 Kg./sq.mtr and above	Kg	100.000		
44	Supplying bubble free float glass of approved make and brand conforming to IS: 2835-1987.4mm thick clear glass.	Sqm.	10.000		
45	Supplying best Indian sheet glass panes set in putty and fitted and fixed with nails and putty complete. (In all floors for internal wall & external wall (3 mm thick)	Sq.m.	10.000		
46	Wood work in door and window frame fitted and fixed in position complete including a protective coat of painting at the contact surface of the frame excluding cost of concrete, Iron Butt Hinges and M.S clamps. (The quantum should be corrected upto three decimals) with Sal local	Cum.	0.050		
47	Panel shutters of door and window, as per design (each panel consisting of single plank without joint), including fitting and fixing the same in position but excluding the cost of hinge and other fittings. In ground floor. 35mm thick shutters with 19mm thick panel of size 30 to 45 cm. Sishu, Gamar, Champ,Badam,Bhola, Mogra, Hallak.	Sqm.	15.000		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
48	Panel (made of single plank) of door and window shutters to design as directed. (Payment to be made on area of exposed new work). (In case of non-supply of single plank penal rate of reduction to a maximum of 30% will be made). - 12mm Thick panel of 30cm to 45cm width - Sishu, Gamar, Champ,Badam,Bhola, Mogra, Hallak.	Sq.M	1.200		
49	Anodised aluminium Aldrop / Sliding bolts of approved quality manufactured from extruded section conforming to I.S. specification (I.S. 2681/66) fitted and fixed complete. 250mm x 16mm dia bolt.	Each	10.000		
50	Anodised aluminium barrel / tower / socket bolt (full covered) of approved manufactured from extruded section conforming to I.S. 204/74 fitted and fixed with cadmium plated screws:				
	a) 150mm long x 10mm dia. bolt.	Each	10.000		
	b) 75mm long x 10mm dia. bolt.	Each	6.000		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
51	Anodised aluminium D-type handle of approved quality manufactured from extruded section conforming to I.S. specification (I.S. 230/72) fitted and fixed complete with continuous plate base (Hexagonal/ Round rod)				
	i) 100 mm grip x 12 mm dia rod.	Each	6.000		
	ii) 150mm grip X 10mm dia. bolt.	Each	10.000		
52	Anodised aluminium butt hinges of approved quality manufactured from extruded section conforming to I.S. specification (I.S. 205/66) and fitted and fixed with cadmium plated screws: 100 x 63 x 3.2mm.	Each	12.000		
53	Iron butt hinges of approved quality fitted and fixed with steel screws, with ISI mark. 100mm X 50mm X 1.25mm.	Each	10.000		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
54	Supplying fitting and fixing door frame with M.S. angle as per drawing & direction of required section. The holes for counter sunk machine screw & nuts will be such as to fit 8 to 10 mm iron screw. The counter sunk nut to be welded. The nuts are to be welded after careful checking with screw. All welding sports should be properly filed or rounded smooth including cost of welding hinges for lugs for hasp bolt, socket bolt etc. and necessary M.S. clamps of 25mm X 6mm flat 225mm long as per direction welded to the frame fitted and fixed in position excluding cost of concrete. Mode of measurement: Weight of frame shall be calculated for the M.S. sections of frames. Payment of butt hinges, hasp bolt, socket bolt, screw will be paid separately. The weight of section should be calculated at 7.85 gm/Cu.cm	Kg	100.000		
55	Supplying solid flush type doors of commercial quality, the timber frame consisting of top and bottom rails and side styles of well seasoned timber 65mm wide each and the entire frame fitted with 37.5mm wide battens places both ways in order to made the door of solid core and internal lipping with Garjan or similar wood veneers using phenol formaldehyde as glue etc. complete, including fitting, fixing the shutters in position but excluding the cost of hinges and other fittings in ground floor. - 35 mm thick shutters (single leaf)	Sq.M	2.000		
56	Supplying, fitting and fixing windows and ventilators with or without integrated grills conforming to IS 1038-1975 and manufactured from rolled steel sections conforming to IS 7452-1974 with non-friction projecting type, box type hinges, glazing clips, lugs locking bracket, handle plate etc, including hoisting in position, straightening if required, fixing lugs in cement concrete (1:2:4) with stone chips 20 mm down cutting holes and mending good damages to match with existing surface complete in all respect excluding glazing. - For oenable steel windows as per IS sizes with side hung shutters and horizontal glazing bars.	Sq.m.	15.000		
57	M.S. integrated grill as per approved design integrated with steel window or ventilator, joints continuously welded with M.S.flats and bars.	kg	100.000		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
58	Labour for taking out steel door and window frame for repairs and re-fixing the same (or replacement by new one) including mending good damages and applying a protective coat of paint.	Each	15.000		
59	Labour for taking out door and window frame including shutter for repair or replacement of different parts of the frame & refixing the same including mending good all damaes complete	Sqm.	31.500		
60	Taking out doors, windows and clerestory window shutters only (steel or wood) including stacking within 50 metres lead for area 3 sq. metres and below	Each	10.000		
61	Easing door and windows.	Each	100.000		
62	Supplying, fitting & fixing 1st quality Ceramic tiles in walls and floors to match with the existing work & 4 nos of key stones (10 mm) fixed with araldite at the back of each tile & finishing the joints with white cement mixed with colouring oxide if required to match the colour of tiles including roughening of concrete surface, if necessary or by synthetic adhesive & grout materials etc.				

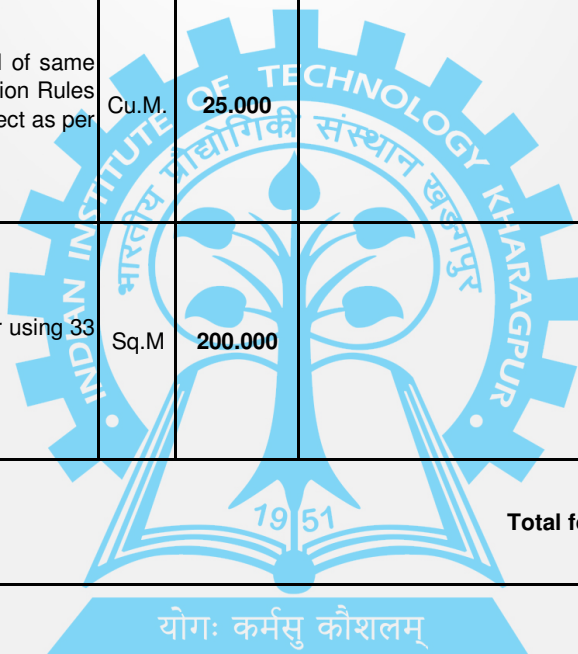
Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
	(a) Floor : With Polymerised Adhesive and Epoxy grout pointing including spacer - 2 mm (When Tiles are laid over existing hard ready surface) - Area of each tile upto 0.09 Sq.m [using adhesive 3 mm thick] and Coloured decorative	Sq.M	30.000		
	(b) Wall : With Polymerised Adhesive and Epoxy grout pointing including spacer - 2 mm (When Tiles are laid over existing hard ready surface) - Area of each tile upto 0.09 Sq.m [using adhesive 3 mm thick] and Coloured decorative	Sq.M	30.000		
63	Supplying, fitting and fixing Half round channel with or without outlet as required set in cement concrete (6:3:1) with jhama chips complete. (Payment of concrete will be paid seperately). 600 mm X 100 mm , White vitreous chinaware.	Mtr	3.000		
64	18 mm. to 22 mm. thick, kota stone slab set in 20 mm thick (avg) cement mortar (1:4) in floor, stair & lobby including pointing in cement slurry with admixture of pigment matching the stone shade, including grinding & polishing as per direction of Engineer - in - charge to match with the existing work. [Slurry for bedding @ 4.4 kg/Sq.m and pointing @2.0 kg/Sq.m]	Sq.M	10.000		
65	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	Sqm	60.000		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
66	Dismantling all types of plain cement concrete works, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m. upto 150 mm. Thick	Cum.	0.400		
67	Dismantling chunar/kota stone flooring carefully including removing rubbish within a lead of 75 m. stacking the serviceable materials as directed.	Sq.M.	10.000		
68	Dismantling artificial stone flooring upto 50 mm. thick by carefully chiselling without damaging the base and removing rubbish as directed within a lead of 75 m.	Sq.M.	10.000		
69	Dismantling all types of masonry excepting cement concrete plain or reinforced, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m. In all floors at any height and level including roof	Cu.M.	0.600		
70	Cutting hole through wall, roof or cornice and mending good all damages.	Nos	6.000		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
71	Supply of labour. Mazdoor (Male)	Each	10.000		
72	<p>Supply and apply a flexible FPO based membrane for expansion joint width of 100 mm by Supply and applying an epoxy based membrane adhesive base coat & top coat.</p> <p>Product: As per approved make list</p> <p>Product requirements: Chemical Base Modified flexible Polyolefin (FPO) with advanced adhesion Fire Rating Euroclass E (EN ISO 11925-2, classification to EN 13501-1) Service Temperature -30°C min. to +40°C max. in wet conditions -30°C min. to +60°C max. in dry conditions Tensile Strength > 12 N/mm² (EN 12311-2) Tear Strength > 40 N/mm (ISO 34-B) Elongation at Break > 600 % (EN 12311-2) Seam strength >300 N/5cm (2 mm) (EN 12316-2) >400 N/5cm (2mm) (EN12317-2) Behaviour under hydrostatic pressure 6bar/72h No leakage (EN 1928-B) Thermal Resistance Thermal ageing:Passed (SIA V280, 1996) Bonding test: No cracks at -40°C (EN 495-5) Artificial weathering:7500 h passed (SIA V280, 1996) Consumption: 1.4 kg/m (strip width 200 mm) Product requirements: mixed density: 1.75 kg/ltr; bond strength > 1.5 N/mm². The rates should include the repair of edges, backing material , tools tackles etc all complete.</p>	Mtr.	320.000		
73	Supplying & applying metal 2mm / Aluminium / SS-plate for protection of membrane – to keep one side fixed.	Mtr.	320.000		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
74	<p>Precise cutting of tile joints for cleaning existing cementious grout and re-grouting the joints of tiles having joints of 3mm to 4mm width, using epoxy grout mix of organic coated filler of desired shade desired shade including filling / grouting and finishing complete as per direction of Engineer-in-charge.</p> <p>Note: The application should be done through the authorised applicator of the contractor and should guaranteed for a period of Minimum 3 Years against water seepage.</p> <p>Preferred Make: Latycrete, Asian Paints or Fosrock or or equivalent acceptable to IIT KGP</p>				
	i) Size of tile - 300mm x 300mm	Sqm	200.00		
	ii) Size of tile - 600mm x 600mm (Kota Stone)	Sqm	15.00		
	iii) Size of tile - 100mm x 200mm	Sqm	400.00		
	iv) Ceramic Drain Channel	Rm	300.00		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
75	Supplying & laying Double Wall Corrugated (with external annular corrugation and smooth internal walls) High Density Polyethelene Pipes conforming to IS 16098 (Part-II):2013 having Stiffness Class of SN 8 with Ring Stiffness not less than 8.00 KN/Sqm. and Impact Resistance TIR value not more than 10% including necessary jointing materials for non-pressure underground Drainage, Sewerage & Cross drainage application. - 400mm internal dia	Mtr.	13.000		
76	Removal of rubbish, earth etc. from the working site and disposal of same beyond the compound, in conformity with the Municipal / Corporation Rules for such disposal, loading into truck and cleaning the site in all respect as per direction of Engineer in charge.	Cu.M.	25.000		
77	Polishing only of old marble or terrazo work with oxalic acid powder using 33 gms/ sq.m. by manual labour / machine where necessary.	Sq.M	200.000		
				Total for Part-A, Civil Works =	

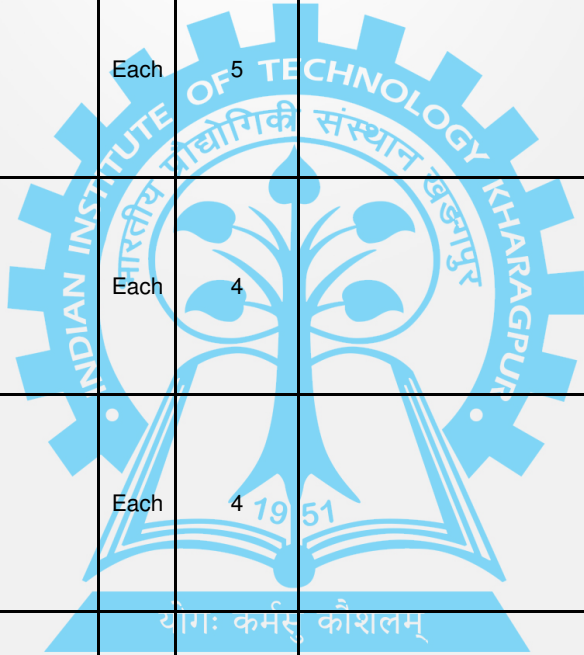


Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
	PART-B : ELECTRICAL WORKS				
1	<p>Drawing of wires through conduit/Casing as per rules after supply and fixing of MMS conduit/casing of Suitable 25-32 mm as per requirement, either in recess or in surface as instructed and mending good the damages to original finish and painting on wall.</p> <p>Make: Conduit/Casing-Caping - Presto plast/ Precission.</p>	Meter	400		
2	<p>Supply and fixing of modular type Flush metal box with inner outer plate, modular cover of the following sizes for fixing of switch socket regulator etc. with necy. connection, recessed in wall and mending good the damages including painting.This includes disconnecting and dismantling the old items and depositing them to store.</p> <p>Make: Modular board and cover: Legrand (Myrius), Crabtree (Platinum range), MK - Wraparound</p>		0		
a)	2 Module	Each	3		
b)	3 Module	Each	8		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
c)	6 Module	Each	5		
d)	8 Module	Each	1		
3a)	S&F of modular type 1M stepped electronic fan regulator on board with all connection. Make: Legrand (Myrius), Crabtree, MK .	Each	8		
3b)	S&F of modular type 5/6 Amp one way switch on board with all connection.	Each	9		
3c)	S&F of modular type 15/16 Amp one way switch on board with all connection.	Each	8		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
3d)	S&F of modular type 6 Amp 3 pin shuttered socket on board with all connection.	Each	9		
3e)	S&F of modular type 6pin,15/16 Amp socket on board with all connection.	Each	8		
3f)	S&F of modular type blanking plate (1M) on board with fixing. Max. 1 no. blank plate is allowed for power board only.	Each	6		
4	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.				
a)	5/6 A switch	Each	14		
b)	15/16 A switch	Each	4		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
c)	3 pin 5/6 A socket outlet	Each	10		
d)	6 pin 15/16 A socket outlet	Each	5		
e)	3 in 1 combined socket 20A Cat No-38808,Make -Anchor	Each	4		
f)	5 in 1 combined socket 20A , Cat No-38579,Make -Anchor	Each	4		
g)	Ceiling rose, 3 pin, 5 A ISI marked	Each	14		



Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
5	Supply and fixing of modular type Surface mounted plastic box with inner outer plate, modular cover of the following sizes for fixing switch socket regulator etc. with necy. Connection, fixed on wall and mending good the damages including painting. This includes disconnecting and dismantling the old items and depositing them to store. Make: Modular board and cover: legrand (Mosaic), Crabtree(Thames), MK and as required.				
a)	3M	Each	4		
b)	6M	Each	4		
c)	8M	Each	2		
6	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class 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. Make: Casing capping: Precision/ Presto plast/ Finolex, Cu wire: Havells/ Finolex/Polycab/ Gloster- 1.1kv grade. Switch, Ceiling Rose etc: Anchor. Modular Switch / socket: Legrand (Myrius)/ Crabtree(platinum range)/MK (Wraparound).	Each	8		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
7	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required Make: 1.1kV grade FRLS PVC insulated copper conductor- Havells/Finolex/Polycab, PVC MMS conduit -Precision/Presto plast/Finolex)				
a)	2 X 1.5 sq.mm. + 1 X 1.5 sq.mm. earth wire	Meter	14		
b)	2 X 2.5 sq.mm. + 1 X 2.5 sq.mm. earth wire	Meter	40		
c)	2 X 4 sq.mm. + 1 X 4 sq.mm. earth wire	Meter	20		
d)	2 X 6 sq.mm. + 1 X 6 sq.mm. earth wire	Meter	4		
e)	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	Meter	4		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
8	Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required. GI Pipe make: Tata medium/Bansal medium Note: All materials and hardwires are to be supplied by the contractor.	Each	3		
9	Providing and fixing 6 SWG dia G.I. wire on surface or in recess	Meter	84		
10	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size on wall surface as required. This includes S&F of 2x10 SWG G.I wire as earthing attachment with the cable Upto 35 sq. mm (clamped with 1mm thick saddle)	Meter	30		
11	Supply and making end termination with brass compression gland and AL lugs for following size of PVC/XLPE al. conductor cable of 1.1kV grade as required		0		
a)	3.5C x 35 sq.mm	Each	2		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
b)	4 C x10 sqmm	Each	2		
c)	4 C x 6 sqmm	Each	2		
12	Supply of 3.5 core XLPE armoured 10 sq. mm aluminium cable 650/1100V grade,confirming IS : 7098(part-1) Make : Polycab/Gloster/Havells	Meter	84		
13	Supplying and fixing of single phase and neutral,sheet steel,MCB distribution board,240 V ,on surface/recess ,complete with tinned cu busbar,neutral busbar,earth bar,din barinterconnections, powder painted including earthing etc.as required. (But without MCB/RCCB /Isolator) 6 way, Double door IP43. Make : Hager/Legrand/Schnider/or equivalent	Each	1		
14	Supplying and fixing 240/415 V MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection of following pole Make : Legrand/Hager/Schnider/or equivalent		0		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
a)	Single pole , 6-32A	Each	10		
b)	Double pole, 63A	Each	3		
c)	Tripple pole, 32A	Each	3		
d)	Four pole,40A	Each	3		
15	Dismantling of old and unused wirings, cables, Earth spikes, unused earth strips, Board with switch, socket,light fittings etc in one room and removing the items and cleaning the areas.Dismantling items should be deposited to the store.	One Job	4		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
16	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, onsurface/ recess, complete with tinned copper bus bar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/ 4 way (4 + 12), Double door)	Each	1		
17a)	Installation, testing and commissioning of ceiling fan(36", 48", 56" etc), including wiring the down rods of standard length (upto 30 cm) with 1.5sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.	Each	8		
17b)	Rewinding & reassemble of 48" ceiling fan without changing the bearing .	Each	9		
17c)	Overhauling with assembling of 48"ceiling fan with changing the bearing (SKF Make Bearing) .	Each	15		
18	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required. Up to 510 mm sweep.	Each	1		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
19	25 W Led street light, versatile pressure die-cast aluminium IP65, 5000k, 240V, Efficacy- greater than equal to 95% In-built electronic driver with APFC & THD<10%. Output Short-Circuit, Over Voltage, Surge & Phase to Phase Protection. CRI >80, LED beam angle= 120° Make : Philips/Syska/Havells/Wipro or equivalent Note : Contractor should give 5 years guarantee of total Led set like driver, lamp etc after commissioning at site.	Each	4		
20	Only fixing of light fittings (Tube, LED etc) on wall /ceiling or as desired on round wooden block/ MS clamp and connection complete after assembling and testing, providing 3*1.5 Sq.mm. PVC insulated Cu wire. This includes disconnecting and dismantling the old items and depositing them to store. Note : a) Round wooden blocks and all hard wares as reqd. are to be provided by the contractor. b) Dept will supply only the light fittings.	Each	10		
21	Fixing only exhaust fan after making hole in wall and making good damages and smooth cement finish etc. as practicable as possible and providing necy. length of PVC insulated wire and making connection for exhaust of following diamete. -Up to 18".	Each	1		
22	Supply & Fixing GI louver shutter on wall with necy. bolts & nuts (6 mmdia x 62 mm long)- 30 cm Exhaust fan (12")	Each	2		
23	Supply only 12 inch metal exhaust fan, 1400 rpm, air delivery-1600 cu. Mtr/hr, 230 V. Make :Cromton Graves/Havells/Bajaj/or equivalent	Each	2		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
24	Supply only 18 inch metal exhaust fan,1400 rpm, air delivery-6120cu. mtr/hr, 230 V. Make : Cromton Graves/Havells/EPC or equivalent	Each	1		
25	Supply of 18w LED tube light with fittings(PC Housing).Cool white. LED Tube Efficacy >100 lumen /watt , p.f greater than 0.95, THD lesser than 10% with integrated electronics driver.(operating voltage 200 V-270 V AC) with overvoltage, under voltage and shortcircuit protection with aluminium heat sink. LED chip should be of Cree, Nichia, OSRAM, Philips make. Make: Philips/Crompton/Havells/HPL/Syska/Goldwyn. Note: 1. Manufacturerer has to provide LM 79 & 80 certificates from NABL accredited laboratories/Govt. approved Labs . 2. Contractor has to provide five years replacement guarantee of the LED tube light with fittings after installation and commissioning of the units at site. 3. Labeling on each LED tube light with paint/permanent markers mentioning brief description , date of installation, date of expiry of guarantee etc is mandatory.	Each	8		
26	Supply & fixing of 18 watt pl Electronics choke, Equivalent to Model no.IZ-Tronic 1X18/240 osram make in the Existing fitting . Make: Osram/Havells/Crompton.	Each	34		
27	Supply & fixing of 18 watt pl lamp 2pin,cool white,Equivalent to Model No: PL c-2P,18W/865 Philips make. Make: Philips/Crompton Graves.	Each	68		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
28	Supply & fixing of 36w tube light in Tube fitting , Make- Philips/Crompton Graves	Each	4		
29	Supply & fixing of 36 W ,open type Cu ballast,240V, Make- Philips/Crompton Graves	Each	4		
30	Supply and fixing 6A,angle holder white ,cat no-39527, Make- Anchor.	Each	20		
31	Supplying of ceiling fan sweep 1200 mm, Displacement in Cmm 221. Model: Usha Technix 5 star, Colour: White. Make: Usha/C.G/Orient.	Each	6		
TOTAL FOR PART-B, ELECTRICAL WORKS =					

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
	PART-C : SANITARY AND PLUMBING WORKS				
1	Dismantling H.C.I. pipe with fittings including melting lead caulked joints.100 mm dia	mtr	350		
2	Refixing H.C.I. pipe with fittings including lead caulked joints(with the old molten lead).100 mm dia	mtr	350		
3	Supplying, fitting & fixing Cast iron soil pipe only conforming to I.S. 3989 /1970 and I.S. 1729/1964 with bobbins, nails etc. including making holes in the wall, floor etc. and cutting trenches etc. in any floor through masonry concrete, if necessary, and mending good damages with necessary jointing materials and painting two coats to the exposed surface with approved paint complete. (Measurement will be made along the center line of the total pipe line in fitted condition including specials,payment for specials & Painting will however be paid seperately). With lead caulked joints.100 mm dia. (internal)	mtr	50		
4	Supplying, fitting & fixing Cast iron single branch equal Tee conforming to I.S. 1729/1970 including joining and painting two coats to the exposed surface with approved paint complete. (Payment of Painting will however be paid seperately).With lead caulked joints				
a)	100 mm dia. with door	each	10		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
b)	100 mm dia. without door	each	5		
5	Supplying, fitting & fixing H.C.I. bend with door conforming to I.S.S. including jointing complete and painting two coats to the exposed surface with approved paint complete. (Payment of Painting will however be paid seperately).With lead caulked joints 100 mm dia.	each	20		
6	Supplying, fitting & fixing H.C.I. bend without door conforming to I.S.S.including jointing complete and painting two coats to the exposed surface with approved paint complete. (Payment of Painting will however be paid seperately).With lead caulked joints100 mm dia.	each	10		
7	Supplying, fitting & fixing approved patent vent cowl I.C.I. conforming to I.S.S and painting two coats to the exposed surface with approved paint complete. (Payment of Painting will however be paid seperately). 100 mm dia.	each	20		
8	Supplying,fitting and fixing cast iron 'P' or 'S' trap conforming to I.S. 3989 / 1970 and 1729 / 1964 including lead caulked joints and painting two coats to the exposed surface. (Painting to be paid seperately). 'P' Trap				

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
a)	P' Trap 100 mm dia.	each	30		
b)	S' Trap 100 mm dia.	each	10		
9	Supplying, fitting and fixing cast iron extension pipes for using in Traps only (connector) conforming to I.S.3989/1970 and 1729/1964 including lead caulked joints complete and painting two coats to the exposed surface with approved paint complete. (Payment of Painting will however be paid seperately). 100 mm X 600 mm	each	20		
10	Supplying, fitting and fixing C.I. round grating.100 mm	each	70		
11	Taking out rain water down pipes, removing chokages and refixing the same in position including mending good damages (of taking out and refixing)	mtr	250		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
12	Taking out and refixing C. I. Grating of down pipe after cleaning the mouth including mending good damages in cement mortar (1:3).	each joint	30		
13	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materials (Spun Yarn, Valamoid / Bitumen/M-Seal etc) complete.				
a)	UPVC pipes - 110 mm. Dia.	mtr	100		
b)	UPVC FITTINGS				
(i)	Plain Tee 110 mm. Dia.	each	10		
(ii)	Plain Y 110 mm. Dia.	each	10		

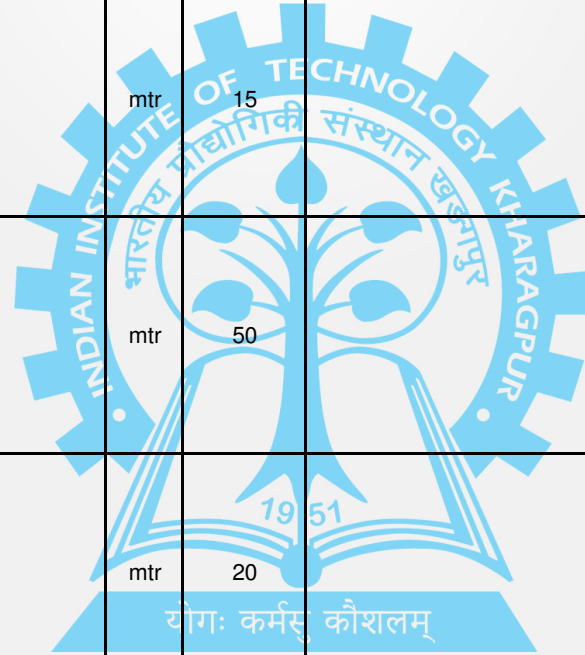
Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
(iii)	Bend 87.5 degree	each	10		
(iv)	Shoe 110 mm. Dia.	each	10		
14	Cutting hole through wall, roof or cornice and mending good all damages.	each	100		
15	Supplying, fitting and fixing Orissa pattern water closet in white glazed vitreous chinaware of approved make in position complete excluding 'P' or 'S' trap (excluding cost of concrete for fixing). 580 mm X 440 mm	each	10		
16	Supplying, fitting and fixing E.W.C. in white glazed vitreous chinaware of approved make complete in position with necessary bolts, nuts etc. WITH P TRAP	each	5		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
17	Supplying, fitting and fixing Anglo-Indian W.C. in white glazed vitreous china ware of approved make complete in position with necessary bolts, nuts etc. With 'P' trap (with vent)	each	10		
18	Supplying, fitting and fixing Closet seat of approved make with lid and C.P. hinges, rubber buffer and brass screws complete. Anglo indian type(white)	each	10		
19	Supplying,fitting and fixing 32 mm dia. Flush Pipe of approved make with necessary fixing materials and clamps complete. Polythene Flush Pipe	each	20		
20	Dismantling E.P. or Anglo-Indian W.C.	each	10		
21	Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	sqm	250		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
22	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary :On steel or other metal surface Two coats (with any shade except white)	sqm	250		
23	Supplying, fitting and fixing G.I. pipes of TATA make with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, long screw, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accessories, specials. Payment for painting will be made seperately) - For Exposed Work with PVC Pipes				
a	15mm dia light quality	mtr	2		
b	20mm dia light quality	mtr	2		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
c	25mm dia light quality	mtr	2		
d	40mm dia light quality	mtr	2		
e	50mm dia light quality	mtr	2		
24	<p>Supplying, fitting and fixing PVC pipes of approved makeof (medium duty) conforming to ASTM D - 1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I). with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, long screw, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accessories, specials. Payment for painting will be made separately)</p> <p>- For Exposed Work - PVC Pipes</p>				

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
a	15mm dia	mtr	50		
b	20mm dia	mtr	15		
c	25mm dia	mtr	50		
d	40mm dia	mtr	20		
e	50mm dia	mtr	20		



Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
25	Providing fitting fixing prayag or equivalent make stop cock.	Each	20		
26	Providing fitting fixing prayag or equivalent make stop cock.	Each	20		
27	Providing fitting fixing prayag or equivalent make pillar cock.	Each	5		
28	Providing fitting fixing prayag or equivalent make swivel shower. 75 mm round	Each	10		
29	Providing fitting fixing prayag make angular stop cock.	Each	5		

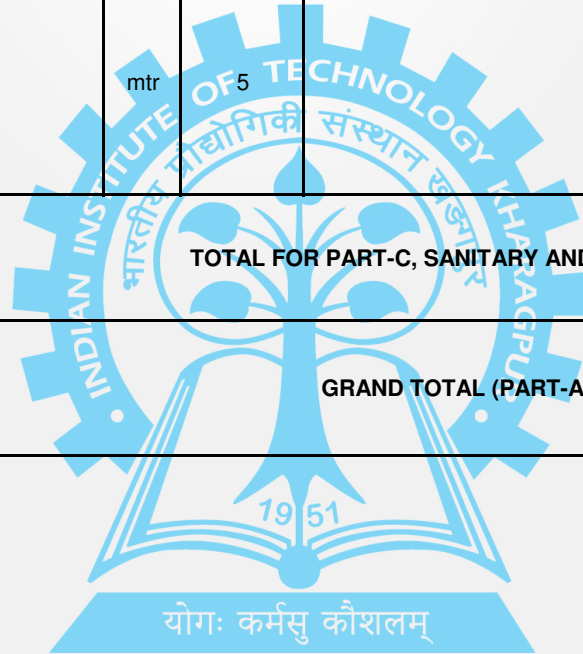
Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
30	Providing fitting fixing GI hook	Kg.	10		
31	labour charges for dismantling&refixing bib cock,stop cock shower, pillar cock, fixing old/new taps	Each	100		
32	Supplying, fitting, fixing 32 mm dia P.V.C waste pipe for basin or sink with coupled at one end with nut 32mm dia with waste fittings 115 cm long.	Each	25		
33	Supplying, fitting and fixing gunmetal wheel valve of approved brand and make tested to 21 kg per sq. cm. (for water lines only).				
a	25 mm dia	Each	10		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
b	50 mm dia	each	2		
34a	Dismantling cistern including disconnecting all pipes, accessories and fittings.Up to 10 litre	Each	10		
34b	Refixing cistern including refixing all pipes, accessories and fittings.Up to 10 litre	Each	10		
35	15 mm dia P.V.C connector prayag make or its equivalent quality, white flexible with both end coupled with aluminium nut supplied fitted and fixed - 450 mm long	Each	40		
36	Providing fitting fixing 10 lit P.V.C low down cistern "Parryware "Slimline" or its equivalent quality with C.I. Bracket with two coats of painting.	Each	10		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
37a)	Dismantling basin, sink with waste fittings and brackets	Each	10		
37b)	Refixing wash basin with brackets with or without waste pipes	Each	10		
38	Porcelain wash basin Parryware Or Hindware/institute approved make supplied fitted and fixed with bracket, including painting (550mmx400mm) size including waste and coupling with wastepipe.	Each	5		
39	Brick work in cement mortar (1:6) in foundation & plinth.	Cum	0.5		
40	15 mm thick plaster with cement mortar (1:4)	Sqm	15		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
41	Neat cement punning about 1.5mm thick in wall,dado>window sill,floor etc. NOTE:Cement 0.152 cu.m per100 sq.m.	Sqm	15		
42	Dismantling G.I or P.V.C . pipe with fittings carefully including removing to any distance and stacking.				
a)	15mm dia upto 25mm	mtr	100		
b)	40mm dia upto 50mm	mtr	10		
c)	80mm dia upto 100 mm dia	mtr	10		
44	Refixing G.I. or P.V.C pipe with fittings after cleaning where necessary				
a)	15mm dia	mtr	100		

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs. In figure & words)	Amount (Rs. In figure & words)
b)	20mm dia upto25mm	mtr	50		
c)	40mm dia upto50 mm dia	mtr	5		
				TOTAL FOR PART-C, SANITARY AND PLUMBING WORKS =	
				GRAND TOTAL (PART-A + PART-B + PART-C) =	
Rupees in words :					
					Signature of the Contractor with date & seal



INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for Dampness Treatment, Tiles Re-grouting, Internal Painting, Expansion Joint treatment and other miscellaneous civil renovation works with allied Electrical and S&P works at MT Hall of Residence at IIT, Kharagpur.

FORM OF TENDER

(To be filled by the Tenderer with sign & stamp and submitted within the Financial Bid envelope)

To
The Superintending Engineer (Civil)
Civil Construction & Maintenance Section
Indian Institute of Technology
Kharagpur, West Bengal

I/We, _____ Son/Daughter of Sri _____
Proprietor/Partner/CEO/MD/Director of M/s. _____ of
(Address) _____

having examined the site of works, carefully read and understood the Specifications, General Conditions of Contract and Conditions of the Tender, hereby tender and undertake to execute and complete all the works required to be performed in accordance with the Specifications, Bill of Quantities, General Conditions of Contract, the rates and prices set out in the annexed Bill of Quantities within _____ days / weeks / months from the seventh day of the date of receiving work order.

THE TOTAL AMOUNT PUT TO TENDER = Rs. _____ (Rupees
_____).

I/We have submitted Account Payee Demand Draft No. _____ dated _____ in favour of **IIT Kharagpur** payable at **Kharagpur** for Rs. _____ (Rupees _____) with the tender as **Cost of Tender Document**.

I/We have submitted Account Payee Demand Draft No. _____ dated _____ in favour of **IIT Kharagpur** payable at **Kharagpur** for Rs. _____ (Rupees _____) with the tender as **Earnest Money**.

I also declare that the information / documents furnished along with the application and tender are true and authentic to the best of my knowledge and belief. I am well aware of the fact that furnishing of any false information / fabricated document would lead to rejection of my tender / termination of contract at any stage besides liabilities towards prosecution under appropriate law. Each page of the tender document and papers submitted by my Company are authenticated, sealed and signed, and I take full responsibility for the entire documents submitted with this tender.

I/We agree that the period for which the tender shall remain open for acceptance shall not be less than **90 Days** from date of opening of tender.

Signature of the Tenderer / Authorised person

(Seal of the Tenderer)

Witness :

Name of the Tenderer _____

Signature : _____

(in Block letters)

Name : _____

Address : _____

(in block letters)

Address : _____
