



INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR, WEST BENGAL

TENDER DOCUMENT
FOR

Construction of 4 Nos. Doctor's Chamber in BCRTH at IIT Kharagpur.

PART – I: TECHNICAL BID

NOTICE INVITING TENDER NO.: SE(C)/IIT/TEN/2018-19/075
DATED : 02.11.2018

November 2018

Cost of Tender Document : Rs. 1,000.00 (Non-Refundable)
Last Date & Time of Submission : 22.11.2018 upto 03:00 PM

CIVIL CONSTRUCTION & MAINTENANCE SECTION
IIT, KHARAGPUR,
WEST BENGAL

SUPERINTENDING ENGINEER (CIVIL)
IIT KHARAGPUR

योगः कर्मसु कौशलम्

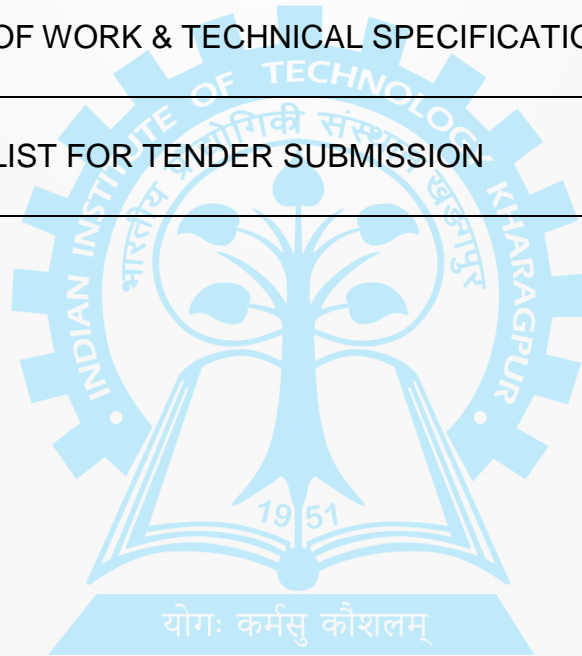
Name and Address of Bidder: M/S.....

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CCM Tender Sl. No. _____

Dated _____

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**INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR**

No. SE(C)/IIT/TEN/2018-19/075

Date: 02.11.2018

NOTICE INVITING TENDER

The Superintending Engineer (Civil), IIT Kharagpur, invites sealed **Percentage 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/BSNL and other bonafide agencies meeting the minimum qualification criteria for the following work:

Name of work	Estimated Amount (₹)	Earnest Money Deposit (₹)	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
Construction of 4 Nos. Doctor's Chamber in BCRTH at IIT Kharagpur.	17,46,370.00	34,930.00	05 (Five) Months	02.11.2018 03:30 PM	22.11.2018 upto 03:00 PM	22.11.2018 3:30 PM

Cost of Tender Paper ₹ 1,000.00 (Rupees Five Thousand only), **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 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

Construction of 4 Nos. Doctor's Chamber in BCRTH at IIT Kharagpur.

1. **Civil Works (Major Component).**
2. **Electrical Work.**
3. **Telephone Work.**

(A) Eligibility Criteria(Civil)

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

1. Agencies should have satisfactorily completed the works as mentioned below during the last 07 (Seven) years ending last day of the *October, 2018* :
 - i) Three (03) similar works each costing not less than 40% of estimated cost for civil works only , or
 - ii) Two (02) similar works each costing not less than 60% of estimated cost for civil works only
 - iii) One (01) similar work costing not less than 80% of estimated cost for civil works only, executed under Central/State Government Department / Central/State Autonomous Body / Central/State Public Sector Undertaking.

Estimated cost for Civil works – ₹ 14,68,666.00 कौशलम्

Similar work shall mean: Construction / Repair & Renovation of buildings / Other Civil Structures

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. Certificate from private individuals / organizations for whom such works have been executed shall not be accepted.

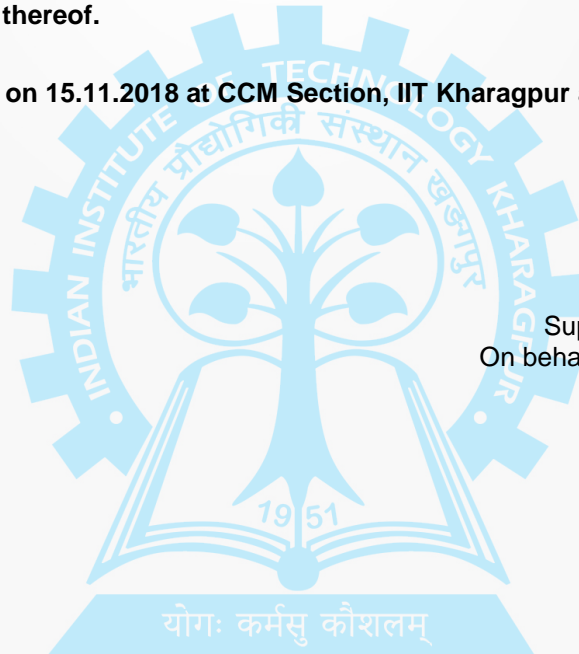
(B) The bidders who do not have requisite credential for electrical work himself must associate with agencies eligible to bid for Electrical works (₹ 1,92,719.00) individually in line with Eligibility Criteria mentioned above (i.e., 3 similar Electrical works each costing not less than 40% of estimated cost for electrical works, or 2 similar Electrical works each costing not less than 60% of estimated cost for electrical works, or 1 similar Electrical work each costing not less than 80% of estimated cost for electrical works). The contractor or the agency he associates with to carry out the electrical work shall have to produce *valid electrical license, valid electrical SCC license, valid trade license, GST, PAN & Completion certificates of works executed during the last seven(7) years ending last day of the October, 2018 justifying eligibility criteria 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.*

(C) The bidders who do not have requisite credential for *Telephone* work himself must associate with agencies eligible to bid for *Telephone works (₹ 84,985.00)* individually in line with Eligibility Criteria mentioned above (i.e., 3 similar Telephone works each costing not less than 40% of estimated cost for telephone works, or 2 similar Telephone works each costing not less than 60% of estimated cost for telephone works, or 1 similar Telephone work each costing not less than 80% of estimated cost for telephone works). The contractor or the agency he associates with to carry out the Telephone work shall have to produce *valid trade license*, GST, PAN & Completion certificates of works executed during the last seven (7) years ending last day of the October, 2018 justifying eligibility criteria 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 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> *Corrigenda, if any shall be published only on Institute Website and Central Public Procurement Portal. 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.*

Rates quoted by the bidders should GST compliant. 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 120 Days** from submission of bid. Bid will be opened at Civil Construction & Maintenance Section, IIT Kharagpur. **The Institute has the right to reject any tender without assigning any reason thereof.**

A pre-bid meeting will be held on 15.11.2018 at CCM Section, IIT Kharagpur at 03:30 PM.



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

Copy to:

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

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Construction of 4 Nos. Doctor's Chamber in BCRTH at IIT Kharagpur."

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. 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 **05 (Five) Months** & will be reckoned from the 7th day from the date of issue of Work Order or handing over of site, whichever is earlier.
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 a **Separately Sealed Envelope** within the main envelope. 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 and manner 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, 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

A. Contractors who fulfill the following requirements shall be considered as Eligible Bidder: Agencies should have satisfactorily completed during the last 07 (Seven) years ending last day of the *October, 2018*:

- a) 03 similar works each costing not less than 40% of estimated cost for civil works, i.e. **Rs 5,87,466.00** or
- b) 02 similar works each costing not less than 60% of estimated cost for civil works i.e. **Rs.8,81,200.00** or
- c) 01 similar work costing not less than 80% of estimated cost, for civil works i.e. **Rs.11,74,933.00**

Estimated cost for Civil works – Rs 14,68,666.00

executed under Central/State Government Department or Central/State Autonomous Body or Central/State Public Sector Undertaking. **Completion certificate** issued by Competent Authority will only be considered as credential.

Similar work shall mean: **Construction / Repair & renovation of buildings / other civil structure(s).**

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. 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 within Technical Bid.

The bidders who do not have requisite credential for electrical work must associate with agencies eligible to bid for **Electrical works (₹ 1,92,719.00)** individually in line with Eligibility Criteria mentioned above (i.e., 3 similar Electrical works each costing not less than 40% (i.e ₹ 77,088.00) of estimated cost for electrical works, or 2 similar Electrical works each costing not less than 60% (i.e ₹ 1,15,631.00) of estimated cost for electrical works, or 1 similar Electrical work each costing not less than 80% (i.e ₹ 1,54,175.00) of estimated cost for electrical works). The contractor or the agency he associates with to carry out the electrical work shall have to produce **valid electrical license**, valid trade license, valid electrical SCC license, GST, PAN & Completion certificates of works justifying eligibility criteria from the competent authority in his

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Tender Document for "Construction of 4 Nos. Doctor's Chamber in BCRTH at IIT Kharagpur."

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 bidders who do not have requisite credential for Telephone work must associate with agencies eligible to bid for Telephone works (₹ 84,985.00) individually in line with Eligibility Criteria mentioned above (i.e., 3 similar Telephone I works each costing not less than 40% (i.e ₹ 33,994.00) of estimated cost for Telephone works, or 2 similar Telephone I works each costing not less than 60% (i.e ₹ 50,991.00) of estimated cost for Telephone works, or 1 similar Telephone work each costing not less than 80% (i.e ₹ 67,988.00) of estimated cost for Telephone works). The contractor or the agency he associates with to carry out the Telephone work shall have to produce, valid trade license, GST, PAN & Completion certificates of works justifying eligibility criteria 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.

7. **Submission of Bid**

The bids shall be submitted in **Two Bid System** in **Three separate sealed envelopes**:

I. **Envelope-1 : Tender Fee and EMD** will comprise of -

- i) **Cost of Tender Paper** Rs. 1000.00, NON REFUNDABLE in the form of DD in favour of IIT Kharagpur, payable at Kharagpur (validity of DD should be at least 03 months from the date of publication of NIT). Tender without 'Cost of Tender Document' will be treated as cancelled.
- ii) **EMD** of requisite amount in the form of DD in favour of IIT Kharagpur payable at Kharagpur (validity of DD should be at least 03 months from the date of publication of NIT). Bid without EMD would be summarily rejected.

II. **Envelope-2 : Technical Bid** will comprise of -

- i) Self certified copies of 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.
- ii) Original Tender Document – Part-I: Technical Bid duly Stamped & Signed in all pages.
- iii) Self certified copies of Statutory documents like Trade License, PAN, IT Return for last 3 years, GST Registration details etc.

III. **Envelope-3 : Financial Bid** will comprise of -

Original Tender Document – Part-II: Financial Bid with duly filled-up **Schedule of Quantities** and **Form of Tender** as an acceptance to the terms and conditions set in the tender (stamped & signed in all pages).

All the envelopes should be duly marked on top with **NIT Number, Name of work and Tender Fee & EMD / Technical Bid / Financial Bid** as the case may be and the **name of the bidder**. All these three envelopes to be put in another sealed large envelope duly marked on top with **NIT Number and Name of work** and **name of the bidder**. 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. Each and every page of the tender documents and correspondences accompanying the tender shall have to be duly signed and stamped by the Bidder / Authorised Signatory before submission. The person / officer signing the tender / bid should be the **Owner / Proprietor / Partner / CEO / MD / Director** of the company or delegated with an appropriate **Power of Attorney (duly endorsed by a Notary Public)** to sign such documents by the **Owner / Proprietor / Partner / CEO / MD / Director** of the company.
9. The bidder shall have to submit certified copies of valid Trade License, PAN, Income Tax Return for last 3 yrs, GST registration details, other statutory tax clearance certificates (if any) and credential documents fulfilling the minimum eligibility criteria along with his tender. The original copies of these documents will have to be produced when demanded for verification.

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Tender Document for "Construction of 4 Nos. Doctor's Chamber in BCRTH at IIT Kharagpur."

10. All Percentages, Rates, Prices, Amounts and Sums quoted by the bidder shall be in Indian currency only. The language used throughout shall be English.
11. All Rates, Amounts, Percentages & Sums shall have to be quoted in indelible ink and written both in figures and words. If the rate/percentage quoted in words does not tally with the rate/percentage quoted in figures then the rate/percentage which corresponds to the lesser amount shall be considered.
12. Any overwriting / correction / applying correction fluid shall be avoided and in case any correction is made the same must be initialized and stamped.
13. 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.
14. 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.
15. The bid shall remain valid for a period of **120 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.
16. **The rates quoted by the tenderer should be inclusive of GST**, 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.
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. 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.
19. 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).
20. 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).
21. 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.

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Construction of 4 Nos. Doctor's Chamber in BCRTM at IIT Kharagpur."

22. 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.
23. 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.



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. 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.
3. 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.
4. All temporary arrangements, staging, working platforms etc. is to be provided by the tenderer 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.
5. 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 metre. 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.
6. All concreting works 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.
7. 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.
8. The contractor will have to maintain the work for **TWELVE** calendar months from the certified date of its completion.
9. The job is to be done as per CPWD specifications Volume I & II, as applicable and provisions made in relevant IS codes must be followed. Wherever these are silent, the construction and completion of works shall conform to sound engineering practice as approved by the Engineer-In-Charge. In case of any dispute arises out of the interpretation of the above, the decision of the Engineer-In-Charge shall be final and binding to the contractor.
10. The bituminous road work shall be carried out by using **bitumen of grade VG30 preferably from IOCL** whenever applicable.
11. Roof treatment work / water proofing treatment work should be guaranteed by the contractor for 10 years after successful completion of work, wherever applicable.
12. The splashes of paints over doors, windows and floor shall be cleaned thoroughly after execution of the work.
13. Irrespective of rates quoted by the bidder, the contractor shall be solely responsible for payment of *Minimum Wages* as stipulated by the Government from time to time.

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' representatives 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 03years 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 particular area, primer and paint to be used should be same approved by IIT Khargpur.

15. PRE-BID DISCUSSION:

One pre-bid discussion meeting will be held **on 15.11.2018 at IIT Kharagpur, CCM Section at 15:30 hrs** for clarification of the queries, if any. The intending bidder(s) shall depute their authorized representatives for attending the pre-bid discussion. Intending bidder(s) are also requested to send their queries, if any, through e-mail (email id: bithika@adm.iitkgp.ac.in) / postal service **on or before 09.11.2018 by 15:00hrs.** positively. Institute will not be responsible for any postal delay.

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16. Containing original priced offer in the prescribed format as detailed in Schedule of Quantities of the tender document duly signed and stamped. No condition / stipulation shall be provided in the priced offer (Part-II). In case of any deviation / stipulation found in the priced offer, the same shall be considered null and void and the offer is liable to be rejected.
17. The right to reject all offer(s) or split up the total requirement and award the contract to one or more than one party if considered necessary or to cancel the Tender rests with IIT Kharagpur.
18. Since the site is an operational department/hall, special arrangements to be made for working without disturbing students/faculty. Working hours may have to be rescheduled accordingly

SCOPE OF WORK & TECHNICAL SPECIFICATION

The scope of work includes: Construction of 4 Nos. Doctor's Chamber in BCRTH at IIT Kharagpur.

APPROVED MAKE LIST OF MATERIALS TO BE USED IN CIVIL, SANITARY & WATER WORKS

SL. NO.	Description of Materials	List of Manufacturers
1	OPC/PPC/PSC	ACC, Birla, Ultratech, , Ambuja
2	White Cement	J.K. Cement,&Birla White
3	Wall Putty	JK / Birla / Sika
4	Lime	Janatacem, Asian Paint
5	Neeru	More (Peacock), Kamal
6	HYSD Bars (TMT Bars)	TISCO, SAIL, RINL
7	Structural Plates and Steel Sections	TISCO, SAIL, RINL, JINDAL
8	Steel light Sections(for grill railing,,door,window frame etc)	SRMB, Shyamsteel,Elegant
9	Pressed steel doors & fire resistant steel doors	Godrej, Windoors, Navair,Shakti,Strategic Building Systems &Kutty Flush Doors
10	Aluminium Extruded Sections	Jindal, Indal, Hindalco &Bhoruka
11	Hardware Fittings & fixtures	Garnish, Diamond, Hardwyn, Godrej, Hettich,Dorma,
12	Anodized Aluminium fittings	Allen / Metco / N.L.C.O.
13	SS Railing Sections	Ozone / D-Line / Jindal
14	Stainless steel D-handles	Godrej, Hettich, D-line, Dorma, Dorset, Ozone
15	Door Locks	Godrej, Dorma
16	Door Closer/Floor spring	Godrej, Ozone, Hettich, Dorma, Hardwyn
17	False Ceiling	Gyprock / Armstrong/Sain Gobain
18	Aluminium Cladding sheets	Alstrong, Alpolic, Alucobond, Alstone International, Aludecor Lamination
19	Colour Coated Steel / Zinc-alu alloy roofing sheets	TATA Bluescope,Jindal,Kirby,
20	Ceramic Tiles	H.R. Johnson (I) Ltd., Somany, Kajaria,Nitco
21	Vitrified Tiles	M/s H.R. Johnson, ,, Somany, Kajaria,Nitco
22	Cement Based Paint	M/s Snowcem India Ltd. (Super snowcem, Sandex Matt), NITCO (Nitcocom) Paints, Hindustan Colour Chemical, Jayant colour, Surfa coat, Terraco, Berger-Rabiaceem, ApporvaBuildcare&Decocem
23	Distemper & Paints	Asian Paints, ICI Paints, , Berger Paints India Ltd.
24	Anti-corrosive water proofing paint with Aluminium finish	SIKA ,Shalimar
25	Waterproofing Compound, Sealants	Sunanda Chemicals, Mc-Bauchemie, FOSROC, Pidilite, Roffe, BASF, Sika
26	Adhesive for wood	Fevicol, Vamicol, Dunlop, Araldite
27	Water stops	M/s Omai Plastics, BaseconPask, Asian Engineering Products, Caprihans India Ltd., R.C. Enterprises, Kanta Polymers (Kanta flex) &Fixopan
28	APP Membrane	SIKA / PIDILITE / FOSROC / TIKIDAN
29	Expansion Joint Boards &Tarfelts	M/s Shalitek, S.T.P. Ltd., Lloyd Insulation, Tiki Tar Industries
30	Expansion Joint Filters	M/s Shalitek, S.T.P. Ltd., Lloyd Insulation & BASF Chemicals
31	Concrete Admixtures	Sunanda Chemicals, Mc-Bauchemie, FOSROC, Pidilite, Roffe, BASF
32	Bitumen (grade VG30)	IOCL
33	P.V.C. Shutters	Sintex / Raunaq / Duroplast
34	P.V.C. Pipes	Oriplast / Supreme / Finolex
35	P.V.C. Cistern	Parryware / Hindware / Cera

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Tender Document for "Construction of 4 Nos. Doctor's Chamber in BCRTTH at IIT Kharagpur."

36	P.VC. Closet Seat Cover	Parryware / Hindware / Cera / Prayag
37	P.V.C. Connector Pipe	Prayag
38	P.V.C. Ball Cock	Prayag
39	P.V.C. Bib Cock / Stop Cock/ Angular Stop Cock / Pillar Cock	Prayag
40	P.V.C. Waste & Sanitary Fittings	Prayag
41	Polycarbonate Sheets	GE / Macrolux / Polytechno / Danpalon
42	UPVC Doors / Windows	Fenesta, Aluplast, Lingel, Shuco, Winpro, Rehau
43	Ply Wood	Kitply, Greenply, Century Plywood
44	Flush Door	Green Ply, Century Ply, Kitply
45	Pre Laminated & Plain Particle Boards	NOVAPAN, Anchor
46	Glass for Doors / Windows	Modi Guard, Saint Gobain, Asahi
47	Plain Glass Mirror	M/s Modi Float Glass, , Saint Gobain, Asahi, Jaquar
48	Sanitary Wares	M/s Parryware, Hindware, Cera,
49	C.P. Brass Fittings & Fixtures	GEM, Techno, Lalsons KINGSTON, JAGUAR, Metro, ESSCO, MARC
50	C.P. Brass Coupling and Bottle Trap	ESSCO, GEM, Kingston, Jaguar, Metro, Marc
51	C.I. Flushing Cistern	Mis A-1 (J.S.), HJN, JAMCO, Neco, HIF
52	C.I. Pipe & Fittings	NECO / BIC / D.N.Sinha / AMC / ALC
53	Gun Metal Wheel Valve	Zoloto / Alto / Leader
54	C.P. BRASS Urinal Waste & Flush pipes	Orient, PARKO, Elite, Jaguar & Metro
55	Plastic Sheet & Cover	M/s Commander, Diplomat, Admiral, Patel, Champion, Parryware & Hindware
56	S.S. Sink	Diamond, Niraii, Parryware / Cera
57	G.I. Pipes	TATA, Jindal
58	G.I. Fittings	HB / R
59	G.M. Gate / Globe Valves	Nets, SANT, M/s Leader Valves, Zoloto
60	CPVC, UPVC, SWR Pipes	Finolex, Prince & Supreme

Note: For items not covered in the above list or in case of non-availability of preferred make of any item listed above, the make / brand to be used in the work, should have prior approval from the Engineer-In-Charge.

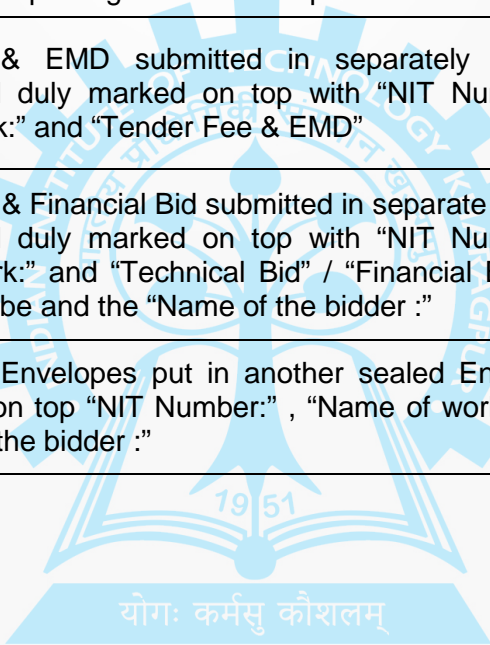
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Tender Document for "Construction of 4 Nos. Doctor's Chamber in BCRTH at IIT Kharagpur."

CHECK LIST FOR TENDER SUBMISSION (TWO BID)

(To be filled by the Tenderer by putting "√" and to be signed & stamped)

Sl. No.	Description	Yes	No
1	Submitted requisite Tender fee		
2	Submitted requisite EMD		
3	Each pages of the tender document duly signed & stamped		
4	Form of Tender properly signed, stamped and enclosed with Financial Bid		
5	Financial Bid filled up with quoted prices (% above / below / at par) with proper Signature & Stamp		
6	Tender fee & EMD submitted in separately sealed envelope and duly marked on top with "NIT Number:", "Name of work:" and "Tender Fee & EMD"		
7	Technical Bid & Financial Bid submitted in separate sealed envelope and duly marked on top with "NIT Number:", "Name of work:" and "Technical Bid" / "Financial Bid" as the case may be and the "Name of the bidder :"		
8	All the three Envelopes put in another sealed Envelope duly marked on top "NIT Number:" , "Name of work:" and the "Name of the bidder :"		



Name of the Bidder _____

(in Block letters)

Signature: _____

Address: _____



INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR, WEST BENGAL

TENDER DOCUMENT
FOR

Construction of 4 Nos. Doctor's Chamber in BCRTH at IIT Kharagpur.

PART – II: FINANCIAL BID

NOTICE INVITING TENDER NO. : SE(C)/IIT/TEN/2018-19/075

DATED : 02.11.2018

November 2018

Last Date & Time of Submission: 22.11.2018 upto 03:00 PM

CIVIL CONSTRUCTION & MAINTENANCE SECTION
IIT, KHARAGPUR,
WEST BENGAL

SUPERINTENDING ENGINEER (CIVIL)
IIT KHARAGPUR

योग: कर्मसु कौशलम्

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

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CCM Tender Sl. No. _____

Dated _____

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

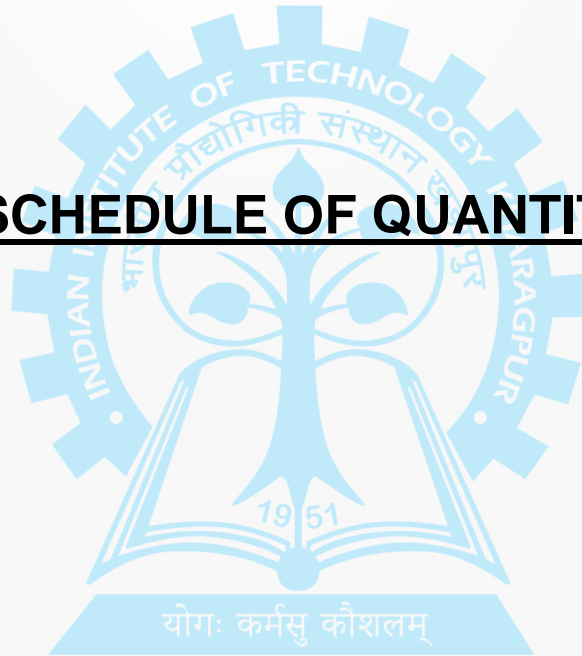
Tender Document for "Construction of 4 Nos. Doctor's Chamber in BCRTH at IIT Kharagpur."

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SCHEDULE OF QUANTITIES



CIVIL CONSTRUCTION AND MAINTENANCE SECTION

IIT KHARAGPUR

Name of Work: Construction of 4 Nos. Doctor's Chamber in BCRTM at IIT Kharagpur

Schedule of Quantities

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount (Rs)
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 up to 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.				
		Cum	60.00	200.66	12040.00
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	Cum	15.00	151.64	2275.00
3	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	10.00	1106.71	11067.00
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand(zone-III) : 6 graded stone aggregate 40 mm nominal size).				
		Cum	10.00	5805.87	58059.00
5	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand(Zone III) : 4 graded stone aggregate 12.5mm nominal size).	Sqm	15.00	317.27	4759.00
6	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation leveling and dressing and finishing the top smooth.	Sqm	45.00	543.08	24439.00
7	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 : a) 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size). b) 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)				
		Cum	15.00	7495.09	112426.00
		Cum	7.00	6961.24	48729.00
8	Centering and shuttering including strutting, propping etc. and removal of form for : a) Foundations, footings, bases of columns, etc. for mass concrete. b) Lintels, beams, plinth beams, girders, bressumers and cantilevers. c) Columns, Pillars, Piers, Abutments, Posts and Struts.				
		Sqm	5.00	233.88	1169.00
		Sqm	82.00	413.5	33907.00
9 a)	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete up to plinth level. Thermo-Mechanically Treated bars of grade Fe-500 D or more.				
		Kg	463.00	68.25	31600.00
9 b)	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500 D or more.				
		Kg	438.00	68.25	29894.00
10	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 1:4 (1 cement : 4 coarse sand)				
		Cum	2.00	7669.1	15338.00
11	Half brick masonry with non modular fly ash bricks of class designation 10, conforming to IS : 12894, in super structure above plinth and upto floor V level.				

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount (Rs)
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Sqm	10.00	927.94	9279.00
12	Providing and laying autoclaved aerated cement blocks masonry with 150mm/ 230mm/ 300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer in-Charge. (The payment of RCC band and reinforcement shall be made for separately).	cum	31.00	6858.07	212600.00
13	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia. & length (hold fast lugs or dash fastener shall be paid for separately). Sal wood	Cum	0.00	102968.12	
14	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	Sqm	11.00	3001.42	33016.00
15	Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete. 300 mm weighing not less than 200 gms.	No.	8.00	37.32	299.00
16	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	No.	4.00	103.53	414.00
17	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	No.	4.00	468.37	1873.00
18.a)	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete : 300x16 mm	No.	4.00	256.19	1025.00
18.b)	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete : 250x10 mm	No.	4.00	106.24	425.00
18.c)	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete : 125 mm	No.	4.00	61.62	246.00
19	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	197.00	70.48	13885.00
20 a)	Fixing standard steel glazed doors, windows and ventilators in walls, including fixing of float glass panes with glazing clips and special metal-sash putty of approved make, or metal beading with screws (only steel windows, glass panes cut to size and glazing clips or metal beading with screws, shall be supplied by department free of cost. Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately).	Kg	197.00	24.42	4811.00
20 b)	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes.	Kg	1110.00	108.83	120801.00
21	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows all complete with :				

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount (Rs)
	4.0 mm thick glass panes.	Sqm	5.00	830.93	4155.00
22	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick.	Sqm	49.00	1396.55	68431.00
23	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade(0.10 kg of hardener and 0.20 kg of resin per kg), including filling/grouting and finishing complete as per direction of Engineer-in-charge. Size of Tile 600x600 mm	Sqm	75.00	201.45	15109.00
24	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). Size of Tile 600x600 mm	Sqm	75.00	1410.36	105777.00
25	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion (i)Single socketed pipes. 110 mm diameter	m	35.00	285.01	9975.00
26	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion.				
i)	Coupler 110mm	No.	4.00	123.79	495.00
ii)	Single tee without door 110x110x110 mm	No.	4.00	202.11	808.00
iii)	Bend 87.5° 110 mm bend	No.	4.00	136.39	546.00
27 a)	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %), total coated thickness with zinc coating 120 gm per sqm as per IS:277 in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm	120.00	663.73	79648.00
27 b)	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 gm per sqm as per IS: 277 in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete : Ridges plain (500 - 600mm).	m	15.00	434.67	6520.00

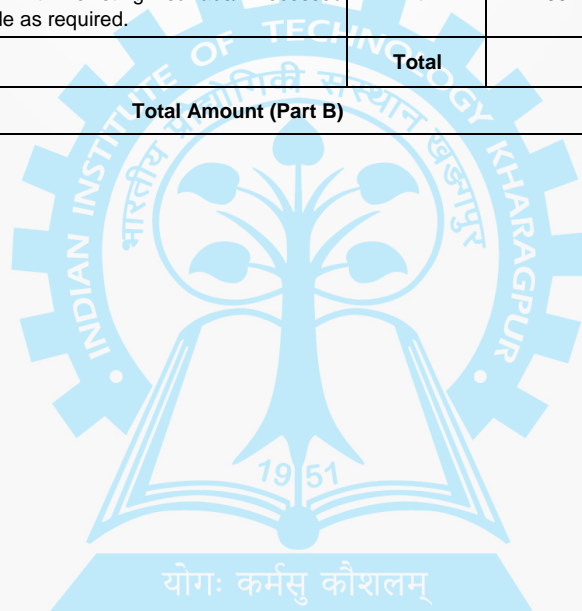
Item No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount (Rs)
28 a)	Providing & fixing false ceiling at all height including providing & fixing of framework made of special section, power pressed from M.S. sheets and galvanised with zinc coating of 120 gms/ sqm (both side inclusive) as per IS : 277 and consisting of angle cleat of size 25mm wide x 1.6mm thick with flanges of 27mm and 37mm, at 1200mm c/c, one flange fixed to the ceiling with dash fastener 12.5mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25 x10 x0.50mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I channels 45 x15 x 0.90mm running at the spacing of 1200 mm c/c, to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26 mm each having lips of 10.5mm, at 450mm c/c, shall be fixed in a direction perpendicular to G.I intermediate channel with connecting clip made out of 2.64mm dia x 230mm long G.I.				
	wire at every junction, including fixing perimeter channels 0.50mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/ partitions with the help of Rawl plugs at 450mm centre, with 25mm long dry wall screws @ 230mm interval, including fixing of Calcium Silicate Board to ceiling section and perimeter channels with the help of dry wall screws of size 3.5 x25mm at 230mm c/c, including jointing & finishing to a flush finish of tapered and square edges of the board with recommended jointing compounds, jointing tapes, finishing with jointing compounds in three layers covering up to 150mm on both sides of joints and two coats of primer suitable for boards, all as per manufacture's specification and also including the cost of making opening for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in charge but excluding the cost of painting with: 8 mm thick Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process.	Sqm	90.00	1105.51	99496.00
28 b)	Providing and fixing thermal insulation with Resin bonded rock wool conforming to IS: 8183, density 48 kg/m ³ , 50 mm thick, wrapped in 200 G virgin Polythene bags placed over existing false ceiling and held in position by criss- crossing GI wire.	Sqm	90.00	265.06	23855.00
29 a)	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	Sqm	160.00	208.56	33370.00
29 b)	15 mm cement plaster on rough side of single or half brick wall of mix : 1:4 (1 cement: 4 coarse sand)	Sqm	200.00	252.82	50564.00
29 c)	Neat cement punning	Sqm	5.00	51.37	257.00
30	Distemping with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification. Two or more coats on new work.	Sqm	205.00	64.09	13138.00
31	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer.	Sqm	205.00	44.56	9135.00
32	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade				
	New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm).	Sqm	235.00	116.73	27432.00
33 a)	Applying priming coat : With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	Sqm	30.00	42.15	1265.00
b)	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/steel works	Sqm	10.00	35.09	351.00
34 a)	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount (Rs)
	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	Sqm	40.00	135.42	5417.00
34 b)	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.	Sqm	205.00	105.34	21595.00
35	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground , all complete as per directions of Engineer-In-Charge. With cement mortar 1:4 (1cement: 4 coarse sand).	Sqm	10.00	331.38	3314.00
36	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	Cum	1.00	1202.34	1202.00
37	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.. In cement mortar	Cum	1.00	1016.27	1016.00
38	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	Sqm	20.00	27.01	540.00
39	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	Cum	47.00	145.37	6832.00
40	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 Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap.	No.	4.00	2191.54	8766.00
41	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe 32 mm dia	No.	4.00	88.33	353.00
42	Providing and fixing 100 mm sand cast Iron grating for gully trap.	No.	4.00	35.27	141.00
43.a)	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	No.	4.00	986.37	3945.00
43.b)	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	No.	4.00	166.23	665.00
43.c)	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with a minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	No.	4.00	238.23	953.00
44	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. : Internal work - Exposed on wall				

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount (Rs)
i)	15 mm nominal outer dia. Pipes.	metre	20.00	172.38	3448.00
ii)	32 mm nominal outer dia. Pipes.	metre	50.00	348.57	17429.00
iii)	40 mm nominal outer dia. Pipes.	metre	20.00	464.87	9297.00
45	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, socked bolt, screw will be paid separately. The weight of section should be calculated at 7.85 gm/Cu.cm	Kg	126.00	94.15	11863.00
46	Supplying, stacking, spreading & consolidating rubbish to a reusite depth of 100mm at desired density as per instruction of Engg-in-Charge, complete as per specification. (The payment will be made after deduction 1/9th for the shrinkage)	Cum	70.00	216.91	15184.00
Part A - Civil Works					1468666.00
Electrical Works (Part B)					
1	Wiring for light point/fan point/exhaust fan point/call bell point with 1.5 Sqmm 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: PVC pipe: Precision/Presto plast/ Finolex, Cu wire: Havells/ Finolex/RR Kabel, Ceiling Rose:SSK/Anchor. Modular Switch/ socket: Legrand (Myrius)/ Crabtree(Athena)/ MK (Wraparound plus).	No.	24	717	17208
2	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required. Make: Legrand (Myrius)/ Crabtree(Athena)/ MK (Wraparound plus).	Nos.	4	342	1368
3	Supplying and fixing suitable size G.I. box with modular plate and cover in front on surface or in recess, including providing and fixing 6pin 5/6 amps modular socket outlet and 10 amps modular switch, connection etc. as required. Make: Legrand (Myrius)/ Crabtree(Athena)/ MK (Wraparound plus).	set	28	401	11228
4	Supplying and fixing suitable size G.I. box with modular plate and cover in front on surface or in recess, including providing and fixing 6pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required. Modular Switch/ socket: Legrand (Myrius)/ Crabtree(Athena)/ MK (Wraparound plus).	set	9	495	4455
5	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/ Isolator). Make:Legrand/Siemens/Hager				
	4 way (4 + 12), Double door	Each	2	3068	6136
6	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	4	8	32.00
7	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	4	32	128.00

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount (Rs)
8	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make:Legrand/Siemens/Hager				
	a) Single pole	Each	24	199	4776
	b) Triple pole	Each	2	826	1652
	c) Triple pole and neutral	Each	2	1092	2184
9	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(1.1kV grade FRLS PVC insulated copper conductor: Make:Havells/ Finolex/ RR Kabel				
	a) 2 X 1.5 sq.mm. + 1 X 1.5 sq.mm. earth wire	Meter	20	146	2920.00
	b) 2 X 2.5 sq.mm. + 1 X 2.5 sq.mm. earth wire	Meter	250	167	41750.00
	c) 2 X 4 sq.mm. + 1 X 4 sq.mm. earth wire	Meter	100	200	20000.00
10	a) Supply and fixing of 4ft, 18Watt, 6500K, lumen output-100Lumen/Watt, P.F>0.9, high power retrofit LED tube with 2 years warranty. Make:Philips/Havells/ Wipro/ Crompton/ Bajaj	Each	20	205	4100.00
	b) Supply and fixing Regal Batten for LED luminaire in item no. 10(a). Make:Philips/Havells/ Wipro/ Crompton/ Bajaj	Each	12	277.50	3330.00
11	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required. Make:SSK/Anchor	Each	4	92	368.00
12	a) Supply of 1200 mm sweep 5 star rated BLDC energy efficient ceiling fan having 3 nos blades, down rod, canopies, shackles, safety rope, suitable for 230 V, 50 HZ with power factor > 0.98, service ratio >7.5, air delivery > 215 CMM, Power consumption - less than 32w, THD <5% with speed control by remote or electronic regulator.Guarantee: Five years. Colour:White, Make: Atomberg/Orient/Crompton/ Havells	Each	4	2585.08	10340.32
	b) Supply and fixing wall fan 16"(400mm) sweep, Colour-White. Equivalent to Orient (Wall-43). Make: Orient/ Crompton/Polar	Each	4	2016.00	8064.00
13	Supply, Laying and fixing of 4 core 16 sqmm Alluminium conductor, PVC/XLPE insulated armoured, overall PVC sheathed 1100 Volts grade power cable, IS: 1554/7098(Part-1) on wall surface as required. (clamped with 1mm thick 3 nos saddle /mtr) Cable Make:Havells/finolex/RR Kabel/Polycab	Mtr	100	170.33	17033.00
14	Supplying and making end termination with brass compression gland and aluminium lugs for following size of 2 X16 sq. mm (22mm) PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. Make:Dowells/Comet.	Each	4	212	848.00
15	Supplying and fixing of 20mm dia. medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. PVC pipe make: Precision/ Presto plast/ Finolex	Mtr	200	84	16800.00
16	Supplying and fixing following modular socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. Modular socket: Legrand (Myrius)/ Crabtree (Athena)/ MK (Wraparound plus).				
	a) Telephone Socket outlet	Each	4	119	476.00
	b) RJ-45jack with cat-6 1Mod	Each	4	323.1	1292.40

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount (Rs)
17	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. Modular socket: Legrand (Myrius)/ Crabtree (Athena)/ MK (Wraparound plus). 1 or 2 Module (75mmX75mm)	Each	8	243	1944.00
18	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required. 200 mm X 125 mm X 60 mm deep	Each	2	239	478.00
19	Earthing with G.I. earth pipe 4.5 metre 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. Pipe(medium) make:TATA/Bansal/Jindal	Each	1	5308	5308.00
20	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/termination with GI thimble etc. as required.	Mtr.	25	44	1100.00
21	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/submain wiring/ cable as required.	Mtr.	200	37	7400.00
		Total			192718.72
Total Amount (Part B)					192719.00



Item No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount (Rs)
Telephone Works (Part C)					
1	Supply of 0.5mm 20 pair armoured PIJF UG cable.	Meter	150	224.20	33630
2	Supply of 0.5mm 10 pair (copper) PVC indoor cable.	Meter	66	82.60	5451.6
3	Supply of 0.5mm 2 pair (copper) PVC indoor cable.	Meter	88	20.06	1765.28
4	Supply of SN type junction box. One 20 pair. One 10 pair.	2 No.	2	590.00	1180.00
5	Fixing of junction boxes on the wall.	2 No.	2	472.00	944.00
6	Laying of 20 pair armoured UG cable from Electric enquiry to Hospital. The trench will be 3ft depth and 1 ft width. After laying the cable (put sand below and above the cable and four bricks on the cable per meter) it should be refilled by mud duly rammed.	Meter	118	177.00	20886.00
7	Boring of road Supply of 2" GI Pipe + Labor charge	Meter	9	501.50	4513.50
8	Saddling the 20 pair armoured UG cable on the wall.	Meter	17	47.20	802.40
9	Cleaning and termination into the junction box of the cable at both the end.	pair (2 No)	40	23.60	944.00
10	laying of 10 pair indoor telephone cable in suitable PVC pipe from junction box to up coming building 10 pair junction box including supply of pipe.	Meter	66	94.40	6230.40
11	Laying of 2 pair indoor telephone cable in suitable pipe/casing capping from junction box to each room of up coming building including the supply of pipe/casing.	Meter	88	76.70	6749.60
12	Supply and fixing of Rozzet boxes at each room.	No.	4	472.00	1888.00
					84984.78
Total Part C					Say 84985.00
Total (Part A + Part B + Part C)					1746370.00
Total Amount					Rs 17,46,370.00
<i>(Rupees Seventeen Lakhs Forty Six Thousand Three Hundred and Seventy only)</i>					
I agree to execute the work at _____ % [in figure] ABOVE / BELOW / AT PAR (_____					
_____ percent) [in words] ABOVE / BELOW/AT PAR Department estimated amount/item rates.					
_____ Signature of the Contractor with Date & Seal					

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Construction of 4 Nos. Doctor's Chamber in BCRTH 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.

I agree to execute the work at _____ % (in figure) (_____ percent) (in words) **ABOVE / BELOW / AT PER** the Departmental Estimated Rates.

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 Deposit**.

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)

Name of the tenderer _____
(In Block letters)

Address: _____

