

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR  
Tender Document for "Renovation work in Room No. 310 of Metallurgical and Materials Engineering  
Department at IIT Kharagpur."



INDIAN INSTITUTE OF TECHNOLOGY  
KHARAGPUR, WEST BENGAL

TENDER DOCUMENT  
FOR

Renovation work in Room No. 310 of Metallurgical and Materials  
Engineering Department at IIT Kharagpur.

NOTICE INVITING TENDER NO. : Sr.EE(C)/IIT/TEN/2018-19/077

DATED : 29.10.2018

October 2018

Cost of Tender Document: ₹1000.00 (Non-Refundable)

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

CIVIL CONSTRUCTION & MAINTENANCE SECTION  
IIT KHARAGPUR, KHARAGPUR,  
WEST BENGAL

Sr.Executive Engineer (Civil)  
IIT KHARAGPUR



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

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.....

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Issued on:

CCM Tender Sl. No. \_\_\_\_\_

Dated \_\_\_\_\_

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**INDIAN INSTITUTE OF TECHNOLOGY  
KHARAGPUR**

No. Sr.EE(C)/IIT/TEN/2018-19/077

Date: 29.10.2018

**NOTICE INVITING TENDER**

The Sr.Executive Engineer (Civil), IIT Kharagpur, invites sealed **Percentage Ratetenders** under **Single Bid System** from the **Enlisted Class-D Civil Contractorsof IIT Kharagpur** or appropriate class of contractors registered with CPWD(ER), Railways (SER), MES, WB PWD, Kharagpur Municipality or PSUsfor 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
Renovation work in Room No. 310 of Metallurgical and Materials Engineering Department at IIT Kharagpur.	4,03,660.00	8,080.00	03 (Three) months	30.10.2018 03:30 PM	22.11.2018 upto 03:00 PM	22.11.2018 at 03:30 PM

Cost of Tender Paper ₹1000.00 (Rupees One Thousand only), NON REFUNDABLE, should be deposited in the form of DD only in favour of IIT Kharagpur, payable at Kharagpur. Tender without 'Cost of Tender Document' will be summarily rejected. The Earnest Money (EMD) should be deposited in the form of DD only in favour of IIT Kharagpur, payable at Kharagpur. Tender without requisite EMD will be summarily rejected. Validity of both the DD should be at least 03 months from the date of publication of NIT. The DDfor Cost of Tender Paper and DD for EMD should be submitted in a separately sealed envelope kept within the main envelope containingsealed Bid.

**Eligibility Criteria-**

Bidders must be registered with IIT Kharagpur, CPWD(ER), Railways (SER), MES, WB PWD, Kharagpur Municipality or PSUs as appropriate class of contractors. Bidders have to submit certified copies of Registration/ Enlistment certificate along with his tender. The original Registration / Enlistment Certificate will have to be produced when demanded for verification.

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>. Corrigendum, if any, will 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.

Tender should be submitted as per the prescribed format withinthe specified date and time at Office of Civil Construction & Maintenance Section, IIT Kharagpur, failing which 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. **Rates quoted by the bidders should GSTcompliant.**

The Institute reserves the right to reject any tender without assigning any reason thereof.

Sr.Executive 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 (Civil)
- 5) Executive (CCM)
- 6) Concerned Asstt./Jr. Engineer (Civil)
- 7) Notice Board
- 8) Office file

# INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

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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 bidder 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 tenderer by prior permission of the Engineer-in-charge.
3. The time for completion of work is **03 (Three) months** & will be reckoned from the 7<sup>th</sup> 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 **IITKharagpur** in the form of **Demand Draft** only from any **Nationalized Bank** payable at **Kharagpur** should be enclosed in a separate sealed envelope along with the tender during submission. Validity of DD should be at least 90 days from date of sale of tender. 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, 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.
  - d. If two or more bidders forms a curtail or any bidder takes any unfair means and illegal activities during any stage of bidding or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it.
6. **Eligibility Criteria**

Bidders must be registered with IIT Kharagpur, CPWD(ER), Railways(SER), MES, WB PWD, Kharagpur Municipality or PSUs as appropriate class of contractors. Bidders have to submit certified copies of Registration/ Enlistment certificate along with his tender. The original will have to be produced when demanded for verification.
7. **Submission of Bid**

The bid in single bid system shall be submitted in 02 (two) sealed envelopes:

  - I. **Envelope-1 : Tender Fee, EMD and Enlistment certificate** will comprise of -
    - i) **Cost of Tender Paper** ₹500.00 (for works upto 2 lakhs) / 1000.00 (for works more than 2 lakh), 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.

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iii) Certified copies of **Enlistment / Registration certificate** with IIT Kharagpur, CPWD(ER), Railways (SER), MES, WB PWD, Kharagpur Municipality or PSUs.

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

- i) Original Tender Document duly Stamped & Signed in all pages.
- ii) 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).

Both the envelopes should be duly marked on top with **NIT Number, Name of work and Tender Fee & EMD / Bid Document** as the case may be and the **name of the bidder**. Both the 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 valid Trade License, PAN, GST registration details etc. as and when demanded and have to produce the original for verification.
10. All Percentage/ Rates / Prices / Amounts / Sums quoted by the bidder shall be in Indian currency only. The language used throughout shall be English.
11. All Rates / Amounts / Sums / Percentages 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 considering the rates for all the items of work involved and any incomplete tender will not be considered. The items / parts for which the rates / percentages are not quoted will be considered as '**Zero**' & the agency shall complete that item / part 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.



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17. The Intending bidders will have to produce documentary evidence in original in support of their eligibility 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 / contractor 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 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). *During bid opening, Envelope-1 containing Tender Fee, EMD and copy of Enlistment certificate will be opened first. If, Envelope-1 does not contain proper Tender Fee / EMD or valid Enlistment / Registration Certificate, bid will be considered as non-responsive and Envelope-2 containing Bid Document will not be opened and the bid will be summarily rejected. However, in such cases, EMD will be refunded to the non-responsive bidder as per Clause No. 4 of ITB.*
20. 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.
21. 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 16<sup>th</sup> day to 30<sup>th</sup> 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.
22. 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.

# INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

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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. 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 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.
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 shall have to maintain the work for **TWELVE (12)** calendar months from the certified date of its completion.
9. The job is to be done as per CPWD specifications Volume I and II, as applicable and provisions made in relevant IS codes must be followed. Wherever these are silent, the construction and completion of works shall confirm 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 wherever 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.

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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’ 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. 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. 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 rejected
16. 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.
17. 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.



# INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

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## SCOPE OF WORK & TECHNICAL SPECIFICATION

The scope of work includes “Renovation work in Room No. 310 of Metallurgical and Materials Engineering Department 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/SainGobain
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, Jayantcolour, Surfa coat, Terraco, Berger-Rabiacecem, Apporva Buildcare & 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, Basecon Pask, 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 & Tar felts	M/s Shalitex, S.T.P. Ltd., Lloyd Insulation, Tiki Tar Industries
30	Expansion Joint Filters	M/s Shalitex, S.T.P. Ltd., Lloyd Insulation & BASF Chemicals
31	Concrete Admixtures	Sunanda Chemicals, Mc-Bauchemie, FOSROC, Pidilite, Roffe, BASF

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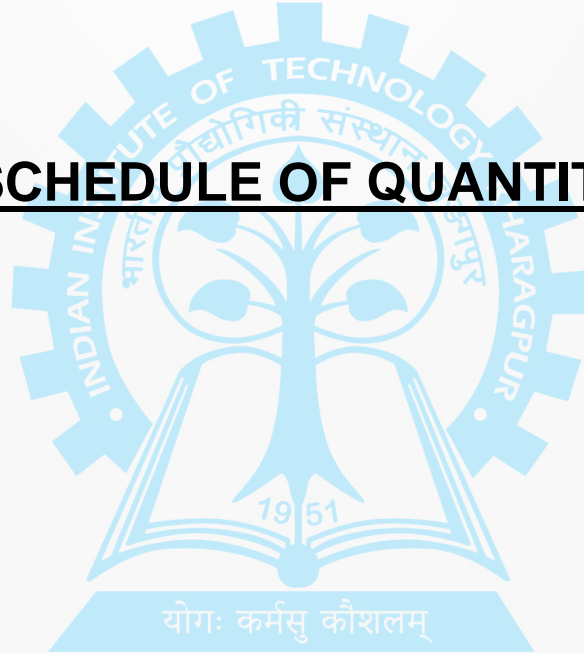
32	Bitumen (grade VG30)	IOCL
33	P.V.C. Shutters	Sintex / Raunaq / Duroplast
34	P.V.C. Pipes	Oriplast / Supreme / Finolex
35	P.V.C. Cistern	Parryware / Hindware / Cera
36	P.V.C. Closet Seat Cover	Parryware / Hindware / Cera / Prayag
37	P.V.C. Connector Pipe	Prayag
38	P.V.C. Ball Cock	Prayag
39	P.V.C. 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
<b>Electrical items:</b>		
1	FRLS wire 1.1 KV	Finolex/Havells/ RR KABEL
2	PVC pipe (MMS)	Precesion/POLYCAB
3	3-pole ceiling rose/ holder/ Call bell	Anchor/ SSK
4	Brass Compression Gland	ARUN Make
5	Al Lug	Dowell's
6	Cable	Finolex/Havells/POLYCAB/ KEI/RR KABEL ,
7	Luminaries (LED):	Philips/Havells/Wipro/Bajaj
8	GI Pipe	TATA/JINDAL
9	MCB & MCBDB(10ka)	Legrand/Hager/Siemens/L&T
10	ACB and MCCB	L&T/ Legrand/ Siemens/ ABB
11	LT panels( only TTA	L&T/ Legrand/ Siemens/ ABB
12	Cable Trey (only hot dip galvanised)	OBO / Legrand/ MK-Honeywell
13	Pump Sets	Crompton/Kirloskar/ GRUNDFOS
14	Modular Switch & Socked	MK wraparound plus / Legrand-Mynis / Crabtree Verona

**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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Department at IIT Kharagpur."



**SCHEDULE OF QUANTITIES**



**CIVIL CONSTRUCTION AND MAINTENANCE SECTION**

**IIT KHARAGPUR**

**Name of Work : Renovation work in Room No. 310 of Metallurgical and Materials Engineering Department at IIT KGP**

**SCHEDULE OF QUANTITIES**

Item No.	Description of Item	Unit	Qty.	Rate (Rs)	Total Amount(Rs.)
1	Labour for Chipping of concrete surface	sqm	70.00	24.82	1,737.40
2	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	3.00	1016.27	3,048.81
3	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	11.00	27.01	297.11
4	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm. (Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles and jointing with grey cement slurry @ 3.3kg/sqm) Fixing glazed/ Ceramic/ Vitrified floor tiles with <b>cement based high polymer modified quick-set tile adhesive</b> (Water based) conforming to IS: 15477, in average 3mm thickness.	sqm	70.00	1277.23	89,406.10
5	a) Supplying, fitting and fixing of false ceiling framework with powder coated exposed G.I. grid suspension system (E-Grid U-1520 or equivalent load carrying capacity with mid span deflection not exceeding 1/360 span with hanger spacing of 1200mm c/c ) consisting of Main Runner 3600 mm long, Cross Tee 1200 mm / 600 mm long and Wall Angle. The Wall Angle shall be fixed on PVC Dash Fasteners on the perimeter of the wall by steel screws with distance 300mm c/c. The Main Runners to be placed @ 1200 mm. The Cross Tee 1200mm will be inserted in the pre-cut slots of Main Runner at a regular interval of 600 mm to form a modular grid of 1200mm X 600mm. Additional Cross Tees of 600 mm shall be placed perpendicular to the Cross Tee 1200 mm long to finally form a grid of 600 mm X 600 mm. Grid of module size 600 mm X 600 mm shall be supported by 6 mm dia G.I. wire from purlins/ soffit all complete as per the drawing & directions of Engineer-in-charge.	Sqm	13.00	341.00	4,433.00
	b) Supplying, fitting & fixing Eco-friendly, Moisture Resistance and Incombustible Gypsum plaster board/tiles (Density >700Kg per Cu. M.) conforming to IS 2095- Part 1, 2011 of size 595mm X595mm of approved design and brand placed in the Grid module to form a false ceiling. All complete as per drawing & direction of Engineer - in-Charge. False ceiling with 12.5mm thick Square edged Gypsum Plaster Board/tiles of 2' x 2' (For Exposed False Ceiling Work).	Sqm	65.00	388.00	25,220.00
	c) Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	sqm	65.00	29.30	1,904.50

Item No.	Description of Item	Unit	Qty.	Rate (Rs)	Total Amount(Rs.)
6	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3 (1 cement : 1.5 coarse sand(zone III) : 3 graded stone aggregate 20 mm nominal size).	cum	1.00	8617.12	8,617.12
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto any level.Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	90.00	68.25	6,142.50
8	Centering and shuttering including strutting, propping etc. and removal of form for all heights.				
	(v) Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	5.00	413.50	2,067.50
9	15 mm cement plaster on brick wall of mix :1:6 (1 cement: 6 coarse sand)	sqm	30.00	234.67	7,040.10
10	a) Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	kg	203.00	136.99	27,808.97
	b) Providing and fixing glass panes, with putty and nails wherever necessary including racking out the old putty. Float glass panes of thickness 4 mm.	sqm	8.00	769.24	6,153.92
	c) Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.250 mm weighing not less than 150 gms.	each	6.00	32.38	194.28
	d) Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :100 mm.	each	6.00	27.31	163.86
11	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	0.05	102968.12	5,148.41
12	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	sqm	2.50	1880.90	4,702.25
13	Taking out shutter of door and window, dismantling by parts (for repair or replacement of damaged parts) , reassembling and refitting and rehangng same with old fittings but with new screws as necessary. (Where different parts of same shutter are renewed under different item, payment under item 73 will be made once only).	sqm	5.00	151.94	759.70
14	Providing and fixing ISI marked oxidised M.S. pressed butt hinges with necessary screws etc. complete.			0.00	-
	(i) 100x58x1.90 mm.	each	3	33.77	101.31



Item No.	Description of Item	Unit	Qty.	Rate (Rs)	Total Amount(Rs.)
15	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 :100 mm	each	2	54.39	108.78
16	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 :250x16 mm.	each	1	228.16	228.16
17	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.100x10 mm	each	1	59.33	59.33
18	Hydraulic door closer of approved quality as per I.S.I. standard fitted and fixed complete.				
	Godrej Hydraulic door closer fitted and fixed complete. Medium type	Each	1	1665.00	1,665.00
19	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	110.00	105.34	11,587.40
20	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :Water thinnable cement primer.	sqm	110.00	44.56	4,901.60
21	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.				
	Two coats.	Sqm	110.00	85.62	9,418.20
22	With ready mixed red oxide zinc chromatic on steel / iron works having VOC content less than 250 grams/ litre	Sqm	5.40	39.25	211.95
23	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content.With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre.	Sqm	3.00	46.37	139.11
24	Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.				
	Two coats	Sqm	35.00	90.44	3,165.40
25	Easing, oiling and adjusting the steel shutters including scraping all members, and fitting so as to make the shutters easily operable (no extra payment will be made for taking out and fixing glass, if necessary). (Each means a pair of shutter in a frame) in any floor complete in all respect.	Pair	3	42.00	126.00
26	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
	For fixed portion				

Item No.	Description of Item	Unit	Qty.	Rate (Rs)	Total Amount(Rs.)
	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	300.00	428.34	1,28,502.00
27	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge.				
	Pre-laminated particle board with decorative lamination on both sides	sqm	42.00	1045.03	43,891.26
28	Supply of Labour - Mazdoor (Male)	Each	10	269.50	2,695.00
29	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	sqm	110.00	13.02	1,432.20
30	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	4.00	145.37	581.48
<b>Total Rs.</b>					<b>4,03,659.71</b>
<b>Say Rs.</b>					<b>4,03,660.00</b>
<b>Total Amount</b>					<b>Rs. 4,03,660.00</b>
<i>(Rupees Four Lakhs Three Thousand Six Hundred and Sixty 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					

योग: कर्मसु कौशलम्

# INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Renovation work in Room No. 310 of Metallurgical and Materials Engineering Department at IIT Kharagpur."

## FORM OF TENDER

(To be filled by the Tenderer with sign & stamp)

To  
**The Sr.Executive 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:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CHECKLIST FOR TENDER SUBMISSION (SINGLE BID)**

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

SI No.	Description	Yes	No
1	Submitted requisite Tender fee		
2	Submitted requisite EMD		
3	Submitted proper Enlistment certificate		
4	Tender fee EMD & Enlistment certificate submitted in separately sealed envelope and duly marked on top with “NIT Number.”, “Name of work.”, and “Tender Fee & EMD”		
5	Each page of tender document is signed and stamped		
6	Form of Tender properly signed& stamped.		
7	Original Tender document with filled up quoted prices (% above/ below/ at par) submitted in separately sealed Envelope duly marked on top “NIT Number.”, “Name of Work.” and “Bid Document”		
8	Both the Envelopes put in another Envelope duly marked on top “NIT Number.” and “Name of Work.”		

**Name of the Bidder:** \_\_\_\_\_

(In Block letters)

Signature: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_