

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Renovation of old Battery Room to convert into Research Laboratory in Electrical Engineering Department at IIT Kharagpur."



INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR, WEST BENGAL

TENDER DOCUMENT
FOR

Renovation of old Battery Room to convert into Research Laboratory
in Electrical Engineering Department at IIT Kharagpur.

NOTICE INVITING TENDER NO.: Sr. EE(C)/IIT/TEN/2018-19/024

DATED : 22.05.2018

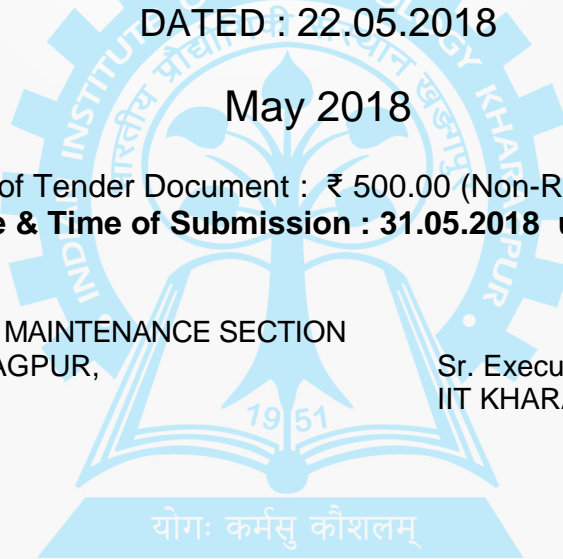
May 2018

Cost of Tender Document : ₹ 500.00 (Non-Refundable)

Last Date & Time of Submission : 31.05.2018 upto 03:00 PM

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

Sr. Executive Engineer (Civil)
IIT KHARAGPUR



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

.....
.....
.....

Issued on:

CCM Tender Sl. No. _____

Dated _____

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**INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR**

No. Sr. EE(C)/IIT/TEN/2018-19/024

Date: 22.05.2018

NOTICE INVITING TENDER

The Sr. Executive Engineer (Civil), IIT Kharagpur, invites sealed **Percentage Rate tenders** under **Single Bid System** from the **Enlisted Class-D Civil Contractors of IIT Kharagpur** or appropriate class of contractors registered with CPWD(ER), Railways (SER), MES, WB PWD, Kharagpur Municipality or PSUs for the following work:

Name of work	Estimated Amount (Rs.) Exclusive of GST / all taxes.	Earnest Money Deposit (Rs.)	Time for Completion	Start Date & Time of Tender Document Download / Bid Submission	End Date & Time of Tender Document Download / Bid Submission	Date & Time of opening of Technical Bid
Renovation of old Battery Room to convert into Research Laboratory in Electrical Engineering Department at IIT Kharagpur.	1,11,813.00	2,240.00	02 (Two) Months	23.05.2018 03:30 PM	31.05.2018 upto 03:00 PM	31.05.2018 at 03:30 PM

Cost of Tender Paper Rs. 500.00 (Rupees Five Hundred 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 DD for Cost of Tender Paper and DD for EMD should be submitted in a separately sealed envelope kept within the main envelope containing sealed 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 within the 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 90 Days from submission of bid. Bid will be opened at Civil Construction & Maintenance Section, IIT Kharagpur. **Rates quoted by the bidders should be exclusive of GST / all taxes. GST / all taxes will be paid separately.**

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

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INSTRUCTIONS TO THE BIDDER

1. Attention of the tenderer is directed to the conditions of tender and general conditions of contract of IIT Kharagpur. Bidders who are not aware of the "General Conditions of Contract" of IIT Kharagpur are instructed to collect the same from Civil Construction and Maintenance Section, IIT Kharagpur and read the terms & conditions before submission of the tender.
2. The tenderer shall visit and inspect the site and obtain all information on his own responsibility and at own cost, which may be necessary for the purpose of quoting and submitting the tender. No excuse or ignorance as to site conditions and local information shall be accepted after awarding of the contract. All costs, charges & expenses that may be incurred in connection with the preparation of his tender shall be borne by him and the Institute accepts no liability whatsoever therefore. Failure by the tenderer to have done all the things, which in accordance with his condition he is deemed to have done shall not relieve the successful tenderer of the responsibility for satisfactory completion of the work as required. If there is any clarification required, the 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 **02 (Two) 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 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.
 - iii) Certified copies of **Enlistment / Registration certificate** with IIT Kharagpur, CPWD(ER), Railways (SER), MES, WB PWD, Kharagpur Municipality or PSUs.

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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 **90 days** from the date of opening of the bid. If before expiry of the validity period or issue of work order, whichever is earlier, the bidder amends / modifies / withdraws his bid, making unacceptable to the institute, then the Earnest Money Deposit shall be liable for forfeiture at the option of the Institute.
16. **The rates quoted by the tenderer should be exclusive of GST**, but inclusive of 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. **GST will be paid as per actual based on Government Notification.**

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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. Should there be any doubt or obscurity as to the meaning of any of the tender documents or if any further information is required, the tenderer must address his enquiry in writing in duplicate to Sr. Executive Engineer (Civil), Civil Construction & Maintenance Section, Indian Institute of Technology Kharagpur - 721302, West Bengal. Such enquiries must be submitted not later than **03 (Three)** working days before the last date fixed for submission of the tenders.
19. The sealed Bids shall be received by the Institute at Civil Construction and Maintenance Section not later than the time and date stipulated in the Notice Inviting Tender or Corrigenda otherwise. Tenders that are received after the date and time specified will not be considered.
20. The 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.*
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.
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.

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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 **SIX** calendar months from the certified date of its completion.
9. The job is to be done as per WBPWD Building & Sanitary works specification for Building / Civil works and WBPWD Roads specification for Road Works, as applicable and provisions made in relevant IS codes must be followed. 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 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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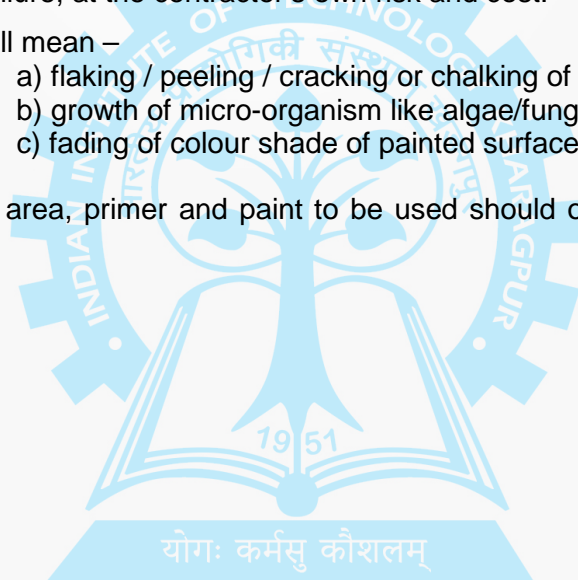
13. Irrespective of rates quoted by the bidder, the contractor shall be solely responsible for payment of *Minimum Wages* as stipulated by the Government from time to time.

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.



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SCOPE OF WORK & TECHNICAL SPECIFICATION

The scope of work includes "Renovation of old Battery Room to convert into Research Laboratory in Electrical Engineering Department at IIT Kharagpur."

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

SL. NO.	ITEM	SUGGESTED BRAND NAME OR SIMILAR (APPROVED BY THE AUTHORITY)
01.	Cement (PSC)	ACC / Ultratech / Ambuja / Lafarge / Birla
02.	Reinforcement Steel	TATA / SAIL / RINL
03.a	Structural Steel	TATA / SAIL / RINL
03.b	Lighter Structural sections not manufactured by TATA/SAIL/RINL	Shyam Steel / SRMB / Jindal (Hissar)
04.	Ceramic Tiles	Johnson / Kajaria / Somany
05.	G.I. Pipes	TATA / Jindal
06.	G.I. Fittings	HB / R
07.	Extruded Aluminum sections / Grill	HINDALCO / INDAL / JINDAL
08.	P.V.C. Shutters	Sintex / Raunaq / Duroplast
09.	P.V.C. Pipes	Oriplast / Supreme / Finolex
10.	P.V.C. Cistern	Parryware / Hindware / Cera
11.	P.V.C. Closet Seat Cover	Parryware / Hindware / Cera / Prayag
12.	P.V.C. Connector Pipe	Prayag
13.	P.V.C. Ball Cock	Prayag
14.	P.V.C. Bib Cock / Stop Cock / Angular Stop Cock / Pillar Cock	Prayag
15.	P.V.C. Waste & Sanitary Fittings	Prayag
16.	IPWC/EPWC/Urinal/Basin/Lab Sink	Parryware / Hindware / Cera
17.	SS Sink	Parryware / Cera / Nirali
18.	Gate Valve	Leader / Zoloto
19.	C.P. Bib Cock / Stop Cock / Angular Stop Cock / Pillar Cock	Essco / Jaquar / Marc
20.	C.P. Shower & Shower Arm	Essco / Jaquar / Marc
21.	C. P. Waste Fittings	Essco / Jaquar / Marc
22.	C. P. Bottle Trap	Essco / Jaquar / Marc
23.	Cast Iron Pipe & Fittings	NECO / BIC / D.N.Sinha / AMC / ALC
24.	Gun Metal Wheel Valve	Zoloto / Alto / Leader
25.	Mirror / Glass Panes	Modi Guard / Saint Gobain
26.	Wall Putty	JK / Birla / Sika
27.	Internal & External Paint and Primer	Asian Paints / Berger / AkzoNobel
28.	APP Membrane	SIKA / PIDILITE / FOSROC / TIKIDAN
29.	Anti corrosive water proofing paint with Aluminium finish	SIKA / Shalimar
30.	Flush Door	Green Ply / Century Ply

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31.	Architectural Hardware fittings	
	a) MS	Mowjee
	b) Anodized Aluminium	Allen / Metco / N.L.C.O.
32.	SS Railing Sections	Ozone / D-Line / Jindal
33.	Interlocking Paver Tiles	Hindustan Tiles / Wonder / Ultra Tiles
34.	Sunken floor water proofing	Choksey / Sika / BASF/ Fosroc
35.	Gypsum False Ceiling	Gyprock / Armstrong
36.	PVC Flooring	Responsive / Armstrong / Wonder Floor / Tarkett
37.	Polysulphide Sealant	Pidilite / Fosroc / Choksey / Sika / BASF
38.	Polycarbonate Sheets	GE / Macrolux / Polytechno / Danpalon
39.	Vitrified Tiles (double charged or fully vitrified)	Johnson, Somany, Kajaria
40.	Stainless steel D-handles	Godrej, Hettich, D-line, Dorma, Dorset, Ozone
41.	Door Locks	Godrej, Dorma
42.	Weather Silicon	Pidilite, Choksey, Forsoc, Sika
43.	Aluminium Cladding sheets	Alstrong, Alpolic, Alucobond, Alstone International, Aludecor Lamination
44.	Water proofing / Injection Grouting	Fosroc, Choksey, Sika, BASF
45.	Ply board	Greenply, Kitply, Century
46.	Door Closer/Floor spring	Godrej, Ozone, Hettich, Dorma, Hardwyn
47.	Bitumen (grade VG30)	IOCL

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.

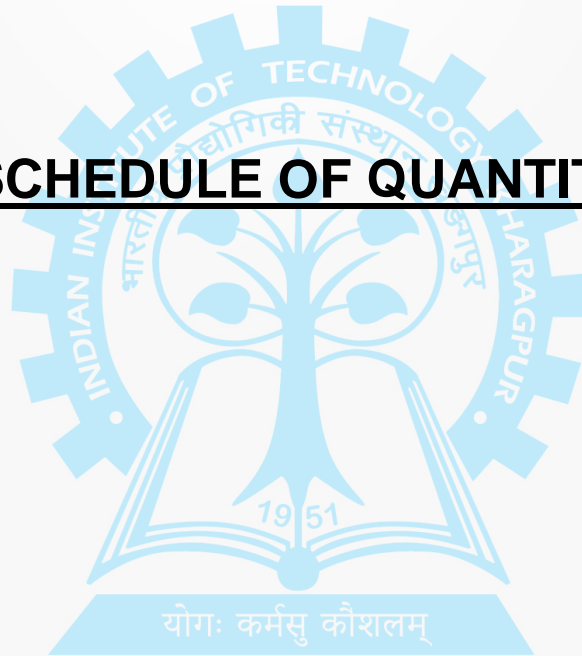
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SCHEDULE OF QUANTITIES



CIVIL CONSTRUCTION AND MAINTENANCE SECTION

IIT KHARAGPUR

Name of Work: Renovation of old Battery Room to convert into Research Laboratory in Electrical Engineering Department at IIT Kharagpur.

SCHEDULE OF QUANTITIES					
Sl. No.	Description of Item	Unit	Qty.	Rate (₹)	Amount (₹)
1	Dismantling all types of masonry excepting cement concrete plain or reinforced, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m.	Cum	2.00	447.00	894.00
2	Dismantling all types of plain cement concrete works, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m. In ground floor including roof up to 150 mm. thick	Cum	1.00	939.00	939.00
3	Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50 meters lead.	Sqm.	28.00	26.35	737.77
4	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	28.00	341.00	9548.00
	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	28.00	388.00	10864.00
5	Supplying best Indian sheet glass panes set in putty and fitted and fixed with nails and putty complete (in all floors for internal wall & upto 6 m height for external wall) 4 mm thick	Sqm	9.38	536.00	5027.68
6	Labour for Chipping of concrete surface.	Sqm	31.00	21.00	651.00

Sl. No.	Description of Item	Unit	Qty.	Rate (₹)	Amount (₹)
7	Supplying and laying true to line and level vitrified tiles of approved brand (size not less than 600 mm X 600 mm X 10 mm thick) in floor, skirting etc. set in 20 mm sand cement mortar (1.4) and 2 mm thick cement slurry back side of tiles using cement @ 2.91 Kg/M ² or using polymerised adhesive (6 mm thick layer applied directly over finished artificial stone floor /Mosaic etc without any backing course) laid after application slurry using 1.75 Kg of cement per M ² below mortar only, joints grouted with admixture of white cement and colouring pigment to match with colour of tiles / epoxy grout materials of approved make as directed and removal of wax coating of top surface of tiles with warm water and polishing the tiles using soft and dry cloth upto mirror finish complete including the cost of materials, labour and all other incidental charges complete true to the manufacturer's specification and direction of Engineer -in-Charge (White cement, synthetic adhesive and grout material to be supplied by the contractor) With application slurry @1.75 kg/Sq.m sand cement mortar (1.4) & 2 mm thick cement slurry at back side of tiles, 0.2 kg/ Sq.m white cement for joint filling with pigment. Light Colour.	Sqm	32.00	1261.00	40352.00
8	100 mm thk brick work with Fly Ash Bricks set in cement sand mortar (1:4) including raking out joints, curing, scaffolding etc. complete in all respect.	Sqm	7.00	539.00	3773.00
9	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement, if any, in ground floor as per relevant IS codes. Pakur Variety	Cum	0.50	5791.00	2895.50
10	Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works (upto roof of ground floor) (When the height of a particular floor is more than 4 m the equivalent floor height shall be taken as 4m and extra for works beyond the initial 4m ht. shall be allowed under (c) for every 4m for part thereof)				
	a) 25 mm to 30 mm thick wooden shuttering as per decision & direction of Engineer-in-Charge,	Sqm	1.00	321.00	321.00
11	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars. Stirrups. Binders etc. initial straightening and removal of loose rust (if necessary). Cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge block annealed wire at every intersection. complete as per drawing and direction. For works in foundation, basement and unto roof of ground floor / upto 4 m. Tor steel /Mild Steel. Other than SAIL/ TATA/RINL	K.G	10.00	55.63	556.30
12	Stripping off worn out plaster and raking out joints of walls, ceilings etc. upto any height and in any floor including removing rubbish within a lead of 75m as directed.	Sqm	50.00	19.00	950.00
13	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, noising and drip course, scaffolding/staging where necessary (Ground floor). [Excluding cost of Chipping over concrete surface] With 1:4 cement mortar 20mm thick	Sqm	57.00	172.00	9804.00

Sl. No.	Description of Item	Unit	Qty.	Rate (₹)	Amount (₹)
14	Applying 2 coats of bonding agent with synthetic multi functional rubber emulsion having adhesive and water proofing properties by mixing with water in proportion (1 bonding agent : 4 water :6 cement) as per Manufacturer's specification.	Sqm	50.00	88.00	4400.00
15	MS or W.I. Ornamental grill of approved design joints continuously welded with M.S., W.I Flats and bars of windows, railing etc. fitted and fixed with necessary screws and lugs in ground floor.	Kg	45.00	72.38	3257.10
16	Rendering the surface of walls and ceiling with white cement based wall putty of approved make and brand(1.5mm thick)	Sqm	62.00	110.00	6820.00
17	Applying interior grade Acrylic Primer of approved quality and brand on plastered or concrete surface old or new surface to receive distemper / Acrylic emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC. One Coat , Water based interior grade Acrylic Primer	Sqm	62.00	30.80	1909.60
18	Applying Acrylic Emulsion Paint of approved make and brand on walls and ceiling including sand papering in intermediate coats including putty (to be done under specific instruction of Engineer-in-Charge): (Two coats) , Standard Quality	Sqm	62.00	62.00	3844.00
19	Ready mix Wax polishing to wood work including preparing surface. On old wax polished surface including removal of old polish.	Sqm	8.00	115.00	920.00
20	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface in necessary. On steel or other metal surface : Two coat	Sqm	25.00	79.00	1975.00
21	Removal of rubbish,earth etc. from the working site and disposal of the same beyond the compound, in conformity with the Municipal / Corporation Rules for such mdisposal, loading into truck and cleaning the site in all respect as per direction of Engineer in charge.	Cum	6.00	166.00	996.00
22	Taking out shutter of door and window, dismantling by parts (For repair or replacement of damaged parts), reassembling and refitting and rehanging 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	3.00	126.00	378.00
Total ₹					111812.95
TOTAL AMOUNT					Say ₹ 111,813.00
(RUPEES ONE LAKH ELEVEN THOUSAND EIGHT HUNDRED AND THIRTEEN ONLY)					
Note: The rates mentioned above are exclusive of GST/ all taxes.					
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 "Renovation of old Battery Room to convert into Research Laboratory in Electrical 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: _____

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Renovation of old Battery Room to convert into Research Laboratory in Electrical Engineering Department at IIT Kharagpur."

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: _____
