

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Civil & other miscellaneous works for Transportation Engineering Lab, Undergraduate (New Lab) of Civil Engineering Department behind hanger building at IIT Kharagpur."



INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR, WEST BENGAL

TENDER DOCUMENT FOR

Civil & other miscellaneous works for Transportation Engineering Lab,
Undergraduate (New Lab) of Civil Engineering Department behind hanger
building at IIT Kharagpur.

NOTICE INVITING TENDER NO.: Sr.EE(C)/IIT/TEN/2017-18/91
DATED : 04.01.2018

JANUARY, 2018

Cost of Tender Document : Rs. 1000.00 (Non-Refundable)
Last Date & Time of Submission : 17.01.2018 upto 3:00 pm

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

Sr. EXECUTIVE ENGINEER (CIVIL)
IIT KHARAGPUR

योग: कर्मसु कौशलम्

Name of Bidder: M/S.

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Issued on:

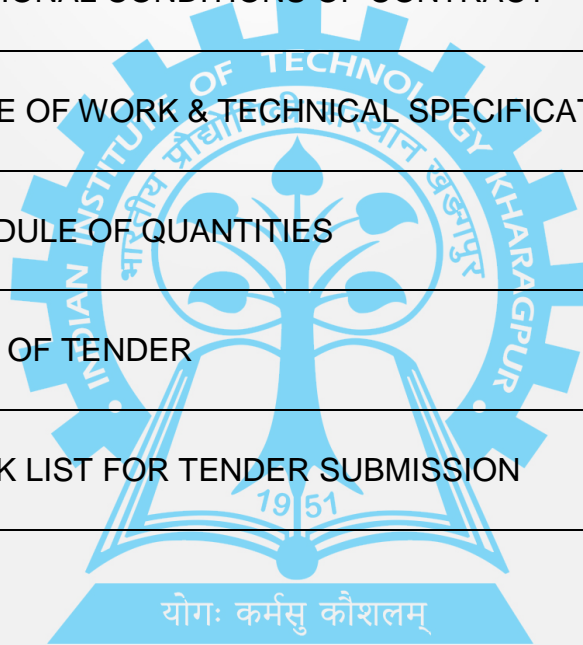
CCM Tender Sl. No. _____

Dated _____

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**INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR**

No. Sr.EE(C)/IIT/TEN/2017-18/91

Date: 04.01.2018

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:

Sl. No.	Name of work	Estimated Amount (Rs.)	Earnest Money Deposit (Rs.)	Time for Completion	Start Date & Time of Tender Document Download / Bid Submission	End Date & Time of Tender Document Download / Bid Submission	Date & Time of opening of Technical Bid
1.	Civil & other miscellaneous works for Transportation Engineering Lab, Undergraduate (New Lab) of Civil Engineering Department behind hanger building at IIT Kharagpur.	4,82,937.00	9,660.00	03 Months	05.01.2018 3:30 PM	17.01.2018 upto 03:00 PM	17.01.2018 at 3:30 PM

Cost of Tender Paper Rs. 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 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 GST compliant.*

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 (CC&M)
- 3) Vice Chairman (CC&M)-Civil
- 4) Superintending Engineer (Civil)
- 5) Executive
- 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 **03 (Three) Months** & will be reckoned from the 7th day from the date of issue of Work Order or handing over of site, whichever is earlier.
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 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** Rs. 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 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 to forfeiture at the option of the Institute.
16. The Rates quoted by the tenderer should be inclusive of all taxes & duties, freight, cost for loading & unloading etc. and must hold good till the completion of work and shall not be subjected to escalation due to increase in local market rates of materials and labour. No claim on this account what so ever shall be entertained at any stage including the extended period, if any.

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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 Executive Engineer, Civil Construction & Maintenance Section, Indian Institute of Technology Kharagpur - 721302, West Bengal. Such enquiries must be submitted not later than **03 (Three)** working days before the last date fixed for submission of the tenders.
19. The sealed Bids shall be received by the Institute at Civil Construction and Maintenance Section not later than the time and date stipulated in the Notice Inviting Tender or Corrigenda otherwise. Tenders that are received after the date and time specified will not be considered.
20. The 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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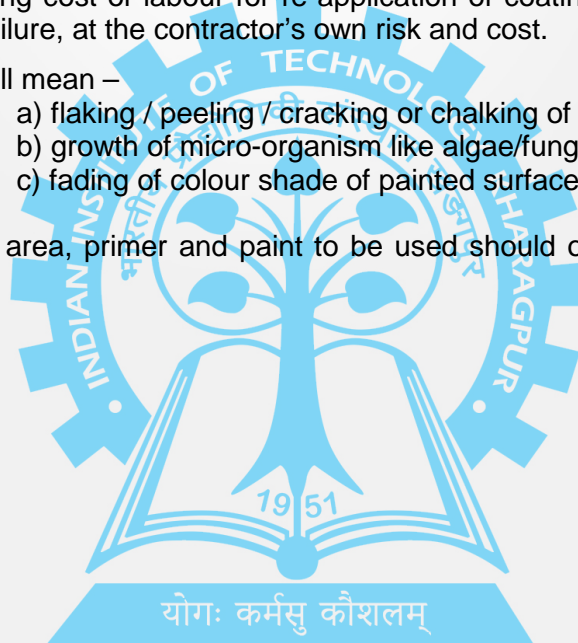
13. Irrespective of rates quoted by the bidder, the contractor shall be solely responsible for payment of *Minimum Wages* as stipulated by the Government from time to time.

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 "Civil & other miscellaneous works for Transportation Engineering Lab, Undergraduate (New Lab) of Civil Engineering Department behind Hanger building of 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 / AGL
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

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.

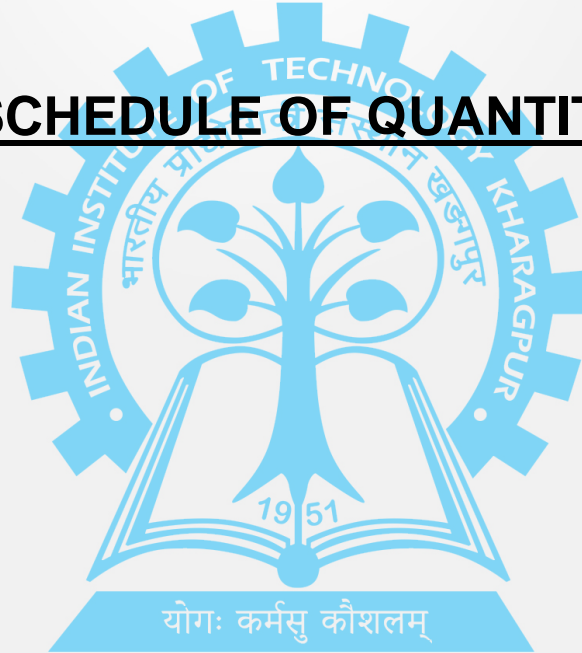
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SCHEDULE OF QUANTITIES



CIVIL CONSTRUCTION AND MAINTENANCE SECTION**IIT KHARAGPUR**

Name of Work : Civil and other miscellaneous works for Transportation Engineering Lab, Undergraduate (New lab) of Civil Engineering Department, behind hanger building at IIT Kharagpur

SCHEDULE OF QUANTITIES

Item No	Description of Item	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
1	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 upto 150 mm. thick	Cum	7.00	949.00	6643.00
2	Dismantling all types of masonry excepting cement concrete plain or reinforced, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m. In ground floor including roof.	Cum	1.00	451.00	451.00
3	(a) 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	26.00	569.00	14794.00
	(b) 200 mm. thick Brick work with Fly Ash Bricks set in cement sand mortar (1:6) including raking out joints, curing, scaffolding etc. complete in all respect. In ground floor	Cu.M	1.00	4907.00	4907.00
4	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor). [Excluding cost of chipping over concrete surface] ; With 1:4 cement mortar 20 mm thick plaster.	Sqm	71.00	191.00	13561.00
5	Neat cement punning about 1.5mm thick in wall, dado, window sill, floor etc. note: Cement 0.152 cu.m per 100 sq.m.	Sqm	16.00	38.00	608.00
6	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	9.00	19.00	171.00
7	Artificial stone in floor, dado, staircase etc with cement concrete (1:2:4) with stone chips, laid in panels as directed with topping made with ordinary or white cement (as necessary) and marble dust in proportion (1:2) including smooth finishing and rounding off corners including raking out joints or roughening of concrete surface and application of cement slurry before flooring works using cement @ 1.75 kg/Sq.M all complete including all materials and labour. 3 mm. thick topping (High polishing grinding on this item is not permitted with ordinary cement). Using grey cement. 35 mm. thick	Sq.M	15.00	369.00	5535.00
8	M.S. structural works with hollow sections (square or rectangular shape) conforming to IS: 806-1957 & IS:1161-1958) connected to one another with bracket, gusset, cleat as per design, drawing & direction of Engineer-in-Charge complete including cutting to requisite shape & size, fabrication including metal arc welding conforming to IS: 816-1956 & IS: 9595 using electrodes of approved make and brand conforming to IS:814- 1957, haulage, hoisting and erection all complete. The rate includes the cost of all M.S. Hollow section, all consumables such as electrodes, gas and hire charges of all tools and plants and labour required for execution and all incidental chages (such as electricity, labour insurance) etc. complete.				

Item No	Description of Item	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	Payment to be made on the basis of calculated weight of structural members of MS Hollow Section as specified in relevant IS code in finished work. Payment for gusset, bracket, cleat may be made by adding the actual weight of such items with weight of finished structural members. The rates are considered for a height of erection 8 m. / 2nd floor level from the ground. Add 1.5 % extra over the rate for each additional floor or 4m. beyond the initial 8 m. or part thereof. For roof truss works. Span up to 12 Mtr	Kg.	992.00	68.00	67456.00
9	Supplying, fitting & fixing Zn-Al alloy (55% Al & 45% Zn) coating of 150 grams per sq. metre (followed by colour coated on both side) steel sheet work having minimum yield strength of 550 Mpa of trapezoidal profile of approved make (excluding the supporting frame work) fitted and fixed with 55 mm & 25 mm self tapping screw, EPDM Washer 16 mm dia & 3 mm th. washer etc. complete with 150 mm end lap and one corrugation minimum side lap. (Payment to be made on area of finished work). In Roof:- With 0.5 mm thick sheet	Sqm	33.00	905.00	29865.00
10	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams 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 : Gutter .(600 mm over all girth)	Metre	6.00	815.00	4890.00
11	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	2.00	6759.00	13518.00
12	(a) Supplying, fitting and fixing windows and ventilators with or without integrated grills conforming to IS 1038-1975 and manufactured from rolled steel sections conforming to IS 7452-1974 with non-friction projecting type, box type hinges, glazing clips, lugs locking bracket, handle plate etc, including hoisting in position, straightening if required, fixing lugs in cement concrete (1:2:4) with stone chips 20 mm down cutting holes and mending good damages to match with existing surface complete in all respect excluding glazing. Fixed type steel windows as per IS sizes with horizontal glazing bars.	Sqm	3.24	1330.00	4309.20
	(b) M.S. integrated grill as per approved design integrated with steel window or ventilator, joints continuously welded with M.S. flats and bars.	Kg	51.84	77.00	3991.68
13	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	3.24	615.00	1992.60
14	Extra for using approved H.B. netting in every third layer in any floor	Sqm	26.00	46.00	1196.00
15	a) Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothing surfaces by sand papering etc.	Sqm	71.00	41.00	2911.00
	(b) Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothing surfaces by sand papering etc.	Sqm	50.00	31.00	1550.00
16	(a) Acrylic Distemper to interior wall, ceiling with a coat of solvent based interior grade acrylic primer (as per manufacturer's specification) including cleaning and smoothing of surface. Two Coats	Sqm	61.00	76.00	4636.00

Item No	Description of Item	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	(b) Protective and Decorative Acrylic exterior emulsion paint of approved quality, as per manufacturer's specification and as per direction of EIC to be applied over acrylic primer as required. The rate includes cost of material, labour, scaffolding and all incidental charges but excluding the cost of primer. (Two Coat), Normal Acrylic Emulsion.	Sqm	25.00	73.00	1825.00
17	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary : On steel or other metal surface : With super gloss (hi-gloss) - Two coats (with any shade except white).	Sqm	50.00	86.00	4300.00
18	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 disposal, loading into truck and cleaning the site in all respect as per direction of Engineer in charge.	Cum	8.00	168.00	1344.00
19	Supplying profiles of required section made of Aluminium Alloy Extrusions conforming to IS: 732-1983 and IS: 1285- 1975; Anodized (with required film thickness and specified colour / natural) matt finished conforming to IS: 1868-1983 for fabrication of composite door, sliding & casement windows, partitions, formed of basic sections of any ISI embossed / certified make and brand as per direction of Engineer - In- Charge. (Payment will be made on finished length of the work). In 10-12 Micron thickness Anodizing film				
	A) Fixed partitions. (Unsupported length of vertical member upto 1.5 mtr. Height of both ends of vertical member restrained but panels more then 0.9 sq.m.)				
	i) Top , bottom & side member.	Mtr	85.00	548.00	46580.00
	ii) Intermediate member.	Mtr	85.00	571.00	48535.00
	ii) Glazing clip.	Mtr	528.00	46.00	24288.00
	B) Movable door shutter.				
	Shutter :				
	i) Top rail.	Mtr	4.00	361.00	1444.00
	ii) Bottom rail.	Mtr	4.00	534.00	2136.00
	iii) Lock rail	Mtr	4.00	446.00	1784.00
	iv) Door vertical.	Mtr	17.00	395.00	6715.00
	C) Labour charge for fabrication and installation of composite door, window , partitions made from anodized extruded alloy aluminium sections for the following units:-				
	i) Partly glazed partly panelled or fully glazed single leaf aluminium swing door made of extruded and anodized alloy aluminium sections, fabrication including cutting to proper shape and size, drilling and aligning, fitted with heavy duty hydraulic action floor spring placed in the floor with mending damages, with top pin assembly of approved make and brand, fitted with in built locking arrangement, flush bolt, glazing clips and all other necessary fittings, fixtures, adhesives and joineries, cutting glass of approved make to requisite shape and size fitting with dry set neoprene or EPDM gasketing, cutting to requisite shape and size panel board (prelaminated particle block) fixing them with glazing clips as per drawing, specification and direction of Engineer in charge.	Sqm	9.00	1294.00	11646.00

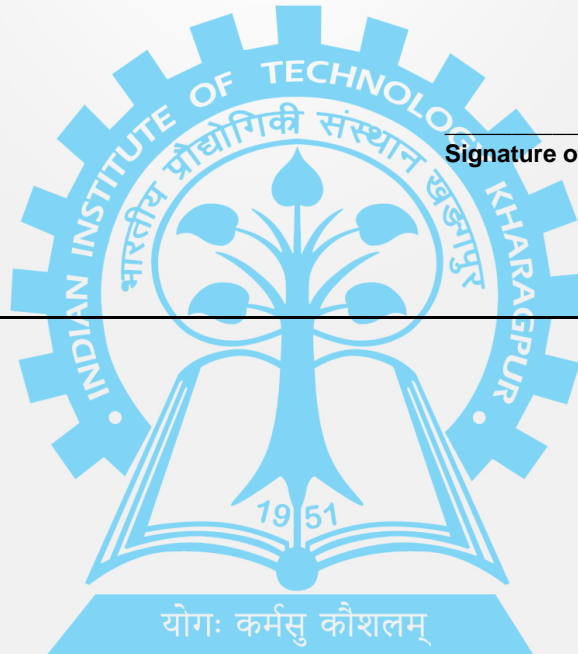
Item No	Description of Item	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	The rate includes the hire charge of all tools and plants, adhesive, joineries such as screw, cleate angle etc. but excluded the cost of extruded aluminium sections, glass, panel boards neoprene / EPDM gasketing, locking arrangement, weather gasketing / wool pile, floor spring, top pin, handle, tower bolt, glazing clips etc. (10% rate reduction has to be made for swing doors or partitions where floor sping is not used. 10% enhancement of rate is to be made where door frame of extruded aluminium sections has to be fitted and fixed to masonry wall. 5% rate enhancement may be allowed for double leaf swing door. Payment shall be made for the shutter area only exept where door frame is fixed the entire opening shall be taken to consideration.Payment for door frame sections are to be paid seperately).				
	ii) Partly glazed and partly panelled partition or fixed glazing made of extruded and anodised alloy aluminium sections, fabrications after cutting to proper shape and size, drilling and aligning fitted with inbuilt locking arrangement cutting the glass / board (prelaminated / particle / block) to requisite shape and size moulding the edges fitted and fixed glazing clips and dry set neoprine /EPDM gasket, along with all other necessary arrangements for fixing the partition to walls, floors, beams, columns polysulphide sealant for water proofing if necessary complete in all respect as per drawing and specifications and direction of the Engineer in charge. The rate includes the hire charge of all tools and plants, adhesive, joineries such as screw, fastener but excludes the cost of extruded aluminium sections, EPDM gasket, glass, board, glazing clips, locking arrangement, etc. For partitions using section of size: 101.50mm x 44.45 mm	Sqm	72.00	899.00	64728.00
	D) Supplying EPDM gasket of approved make and brand as per direction of Engineer in charge. For sliding windows, 'U' shaped EPDM gasket for frames.	Mtr.	528.00	15.00	7920.00
	E) Supplying bubble free float glass of approved make and brand conforming to IS: 2835-1987. 5mm thick clear glass.	Sq.M	23.00	628.00	14444.00
	F) Wall panelling / partition with Melamine faced 3 layered flat pressed wood particle board of approved make and brand as per direction of Engineer - in - Charge of requisite grade bonded with phenol formaldehyde synthetic resin conforming to IS: 848-1974 (excluding the cost of supporting frame work and teak wood battens / lipping). In Ground Floor, Prelaminated particle board conforming to IS: 3087 - 1985 and IS 12823 - 1990. Both side decorative laminate, Interior grade, 9mm thick.	Sq.M	58.00	1007.00	58406.00
	G) Iron butt hinges of approved quality fitted and fixed with steel screws, with ISI mark. 100mm. X 50mm. X 1.25mm.	Each	12	48.00	576.00
	H) Supplying 12.5 mm. Dia acrylic handle for aluminium door as per approved make & brand. Natural Colour.	Nos.	08	216.00	1728.00
	I) Anodised aluminium barrel /tower /socket-bolt (full covered of approved manufactured from extruded section conforming to I.S. 204/74 fitted and fixed with cadmium plated screws. 150mm long X 10mm dia. bolt.	Each	04	73.00	292.00
	J) Supplying Aluminium casted body hydraulic door closer as per I.S.I.	Sqm	01	757.00	757.00

Item No	Description of Item	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	K) Anodised aluminium Aldrop /Sliding boots of approved quality manufactured from extruded section conforming to I.S specification (I.S. 2681/66) fitted and fixed complete. 250mm long X 16mm dia. bolt.	Each	02	252.00	504.00
Total Rs.					482937.48
Say Rs.					482937.00
<i>(Rupees Four Lakhs Eighty Two Thousand Nine Hundred and Thirty Seven Only)</i>					

I agree to execute the work at _____ % [in figure] ABOVE/ BELOW/ AT PAR _____

_____ [In words] ABOVE/ BELOW/ AT PAR Departmental estimated amount / item rates.

Signature of Contractor with Date & Seal



INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Civil & other miscellaneous works for Transportation Engineering Lab, Undergraduate (New Lab) of Civil Engineering Department behind hanger building 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 PAR** 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)

Witness:

Name of the tenderer _____

Signature: _____

(in Block letters)

Name: _____

Address: _____

(In block letters)

Address: _____

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Civil & other miscellaneous works for Transportation Engineering Lab, Undergraduate (New Lab) of Civil Engineering Department behind hanger building 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 with witness		
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:"		

योग: कर्मसु कौशलम्

Name of the Bidder: _____

(In Block letters)

Signature: _____

Address: _____
