

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Construction of Study Room in Nalanda Classroom Complex as the *Senior Class Gift* at IIT Kharagpur."



INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR, WEST BENGAL

TENDER DOCUMENT
FOR

Construction of Study Room in Nalanda Classroom Complex as the
Senior Class Gift at IIT Kharagpur.

PART – I: TECHNICAL BID

NOTICE INVITING TENDER NO. : SE(C)/IIT/TEN/2017-18/110

DATED : 14.02.2018

FEBRUARY 2018

Cost of Tender Document : Rs.1000.00 (Non-Refundable)

Last Date & Time of Submission : 09.03.2018, upto 3:00 pm

CIVIL CONSTRUCTION & MAINTENANCE SECTION
IIT, KHARAGPUR,
WEST BENGAL

SUPERINTENDING ENGINEER (CIVIL)
IIT KHARAGPUR

योग: कर्मसु कौशलम्

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

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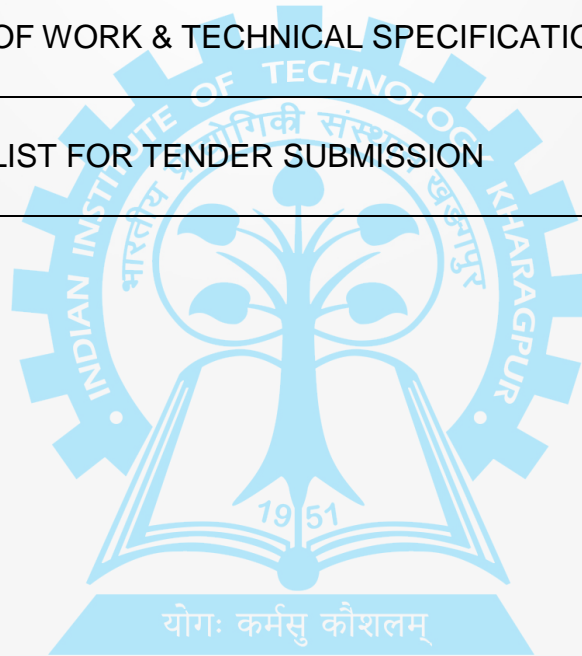
CCM Tender Sl. No. _____

Dated _____

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Construction of Study Room in Nalanda Classroom Complex as the *Senior Class Gift* at IIT Kharagpur."

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**INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR**

No. SE(C)/IIT/TEN/2017-18/110

Date: 14.02.2018

NOTICE INVITING TENDER

The Superintending Engineer (Civil), IIT Kharagpur, invites sealed **Percentage Rate Tenders** under Two part Bid System containing Part-I (Technical Bid) & Part-II (Financial Bid) from the approved and eligible contractors of the Indian Institute of Technology, Kharagpur/CPWD/PWD/MES and other bona-fide agencies meeting the minimum qualification criteria 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
Construction of Study Room in Nalanda Classroom Complex as the <i>Senior Class Gift</i> at IIT Kharagpur.	17,45,702.00	34,920.00	06 (Six) Months	14.02.2018 03:30 PM	09.03.2018 upto 03:00PM	09.03.2018 at 3:30 PM

Cost of Tender Paper Rs. 1,000.00 (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 another two envelopes of Technical & Financial Bid.

Eligibility Criteria

Contractors who fulfill the following minimum qualification criteria shall be considered as eligible bidder:

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

Similar work shall mean: **Construction / Repair & renovation of buildings / Other Civil Structures.**

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

Completion certificate issued by Competent Authority will only be considered as credential. If the Completion certificate issued by Competent Authority does not reflect the type of work, then Final bill / Schedule of Quantity of the qualifying works also to be attached along with the Completion certificates. Certificate from private individuals / organizations for whom such works have been executed shall not be accepted.

The tender document (consisting of specifications, the schedule of quantities of various types of items to be executed, the set of terms and conditions of the contract and other documents / drawings, if any) can be downloaded from the **Central Public Procurement Portal** of Government of India <https://eprocure.gov.in/cppp/tendersearch> & **Institute's website** <http://www1.iitkgp.ac.in/topfiles/tenders.php>. *Corrigenda, if any, 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. Rates quoted by the bidder should be exclusive of GST/ all taxes. GST/ all taxes will be paid separately.*

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

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

Copy to:

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

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INSTRUCTIONS TO THE BIDDER

1. Attention of the tenderer is directed to the conditions of tender and general conditions of contract of IIT Kharagpur. Bidders who are not aware of the "General Conditions of Contract" of IIT Kharagpur are instructed to collect the same from Civil Construction and Maintenance Section, IIT Kharagpur and read the terms & conditions before submission of the tender.
2. The tenderer shall visit and inspect the site and obtain all information on his own responsibility and at own cost, which may be necessary for the purpose of quoting and submitting the tender. No excuse or ignorance as to site conditions and local information shall be accepted after awarding of the contract. All costs, charges & expenses that may be incurred in connection with the preparation of his tender shall be borne by him and the Institute accepts no liability whatsoever therefore. Failure by the tenderer to have done all the things, which in accordance with his condition he is deemed to have done shall not relieve the successful tenderer of the responsibility for satisfactory completion of the work as required. If there is any clarification required, the tenderer shall submit the queries in writing 03 (Three) days before the last date & time of submission of the tender, to the Civil Construction & Maintenance Section, IIT Kharagpur. Access to the site will be granted, if necessary, to the tendered by prior permission of the Engineer-in-charge.
3. The time for completion of work is **(06)Six Months** & will be reckoned from the 7th day from the date of issue of Work Order or handing over of site, whichever is earlier.
4. EMD of requisite amount as mentioned in NIT/Corrigenda in favour of **IIT Kharagpur** in the form of **Demand Draft** only from any **Nationalized Bank** payable at **Kharagpur** should be enclosed within a **Separately Sealed Envelope** within the main envelope. Validity of DD should be at least 90 days from date of publication of NIT. Any tender received without requisite Earnest Money in the form and manner as mentioned above shall be summarily rejected and treated as cancelled. The Earnest Money received shall be refunded to the unsuccessful bidders without any interest, subject to the provisions of Clause 5 of ITB. The Earnest Money Deposit (EMD) of successful tenderer shall be retained and converted as part of Security Deposit.
5. Earnest Money Deposit (EMD) will be forfeited in the following cases -
 - a. If the tenderer withdraws / modifies his tender during the period of Bid Validity.
 - b. If the tenderer does not accept the correction of arithmetical errors of his tender.
 - c. If the tenderer after award of work, does not start the work within the stipulated time period as per Letter of Acceptance / Work Order.
6. **Eligibility Criteria**

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

- a) 03 similar works each costing not less than 40% of estimated cost, i.e. **Rs. 6,98,281.00 or**
- b) 02 similar works each costing not less than 60% of estimated cost, i.e. **Rs. 10,47,421.00 or**
- c) 01 similar work costing not less than 80% of estimated cost, i.e. **Rs. 13,96,562.00**

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

Similar work shall mean: **Construction / Repair & renovation of buildings / Other Civil Structures.**

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum calculated from the date of completion to last date of applications for tenders. If the Completion certificate issued by Competent Authority does not reflect the type of work, then final bill / schedule of quantity of the qualifying works also to be attached along with the Completion certificates within Technical Bid.

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7. Submission of Bid

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

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

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

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

- i) Self certified copies of Credential documents fulfilling the minimum eligibility criteria as per Clause 6 above, i.e., Experience Certificates for completion of similar type of job within last seven years.
- ii) Original Tender Document – Part-I: Technical Bid duly Stamped & Signed in all pages.
- iii) Self certified copies of Statutory documents like Trade License, PAN, IT Return for last 3 years, GST Registration details etc.

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

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

All the envelopes should be duly marked on top with **NIT Number, Name of work and Tender Fee & EMD / Technical Bid / Financial Bid** as the case may be and the **name of the bidder**. All these three envelopes to be put in another sealed large envelope duly marked on top with **NIT Number and Name of work** and **name of the bidder**. Tenders must be delivered at the place and time as indicated in NIT / further corrigenda. Bids that are not in the above format will be rejected.

8. Each and every page of the tender documents and correspondences accompanying the tender shall have to be duly signed and stamped by the Bidder / Authorised Signatory before submission. The person / officer signing the tender / bid should be the **Owner / Proprietor / Partner / CEO / MD / Director** of the company or delegated with an appropriate **Power of Attorney (duly endorsed by a Notary Public)** to sign such documents by the **Owner / Proprietor / Partner / CEO / MD / Director** of the company.
9. The bidder shall have to submit certified copies of valid Trade License, PAN, Income Tax Return for last 3 years, GST registration details, other statutory tax clearance certificates (if any) and credential documents fulfilling the minimum eligibility criteria along with his tender. The original copies of these documents will have to be produced when demanded for verification.
10. All Percentages, Rates, Prices, Amounts and Sums quoted by the bidder shall be in Indian currency only. The language used throughout shall be English.
11. All Rates, Amounts, Percentages & Sums shall have to be quoted in indelible ink and written both in figures and words. If the rate/percentage quoted in words does not tally with the rate/percentage quoted in figures then the rate/percentage which corresponds to the lesser amount shall be considered.
12. Any overwriting / correction / applying correction fluid shall be avoided and in case any correction is made the same must be initialized and stamped.
13. Tender must be submitted with the rates for all the items of work involved and any incomplete tender will not be considered. The items for which the rates are not quoted will be considered as '**Zero**' & the agency shall complete that item of work without any claim.
14. No alteration shall be made by the tenderer in the tender and no conditional tender will be entertained. Tender with split rate will not be considered.

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

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ADDITIONAL CONDITIONS OF CONTRACT

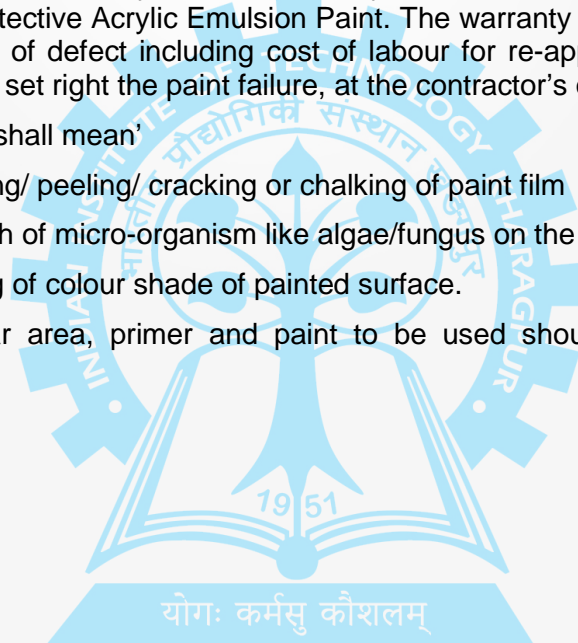
1. The quantities indicated are approximate and may vary at the time of execution. The Institute will exercise absolute discretion for operating all or some items of the schedule.
2. Contractor has to remove all the debris from the site of execution and dispose them at suitable places shown by the Engineer or his authorised representative at site.
3. Cement used for the work should not be older than two months from the date of manufacture. The contractor should purchase the cement from authorised dealer and submit the test certificates/vouchers prior to execution of the work.
4. All temporary arrangements, staging, working platforms etc. is to be provided by the tenderer at his own expense to the satisfaction of the Engineer-in-Charge. The Institute will not however, be liable to pay any compensation due to accident, injury to the contractor's work men or any account what-so-ever.
5. Steel to be supplied and used should be from approved manufacturers. Steel from manufacturers other than approved make / re-rolled steel will not be acceptable. The consumption of steel will be regulated as per bar bending schedule and drawing to the contractor and/or as directed by Engineer-in-charge. Payment of reinforcement rod, will be made as per actual use including overlaps, crank, bending etc., as needed at work site, if any, as per approved drawing. Quantity will be calculated using standard weight per running metre. No wastage on any account is payable. Test certificate of steel should be submitted by the contractor. The contractor must submit vouchers for the steel purchased to the Engineer. All reinforcement used should be free from loose mill scale, loose rust, paint and oil coating etc.
6. All concreting works shall be Machine mixed and Machine vibrated and will have required levels of strength at the time of testing. Poorly executed concrete have to be demolished and repair will not be allowed.
7. The Institute will be at liberty to take samples during the course execution of work and get the same tested at Institute's laboratory to ascertain the quality conforming to relevant specification. The cost of sample and the charges for the testing will have to be borne by the contractor.
8. The contractor will have to maintain the work for **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 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** whenever applicable.
11. **Roof treatment work / water proofing treatment work should be guaranteed by the contractor for 10 years after successful completion of work, wherever applicable.**
12. The splashes of paints over doors, windows and floor shall be cleaned thoroughly after execution of the work.
13. Irrespective of rates quoted by the bidder, the contractor shall be solely responsible for payment of *Minimum Wages* as stipulated by the Government from time to time.

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14. For painting works-

- i. Volume of paint required is to be procured & stored at site during starting of work to avoid mismatch of shade and Challan/Tax invoice of procured paint, certified by the Manufacturers, should be submitted to the department
- ii. Sampling of paint should be done in presence of the manufacturers' representatives and the quality of application to be certified by the manufacturer and the same to be submitted to the department.
- iii. Surface preparation and procedure of paint application as suggested by the paint manufacturers to be followed properly and Checklist of paint (pro-forma will be provided by EIC during execution) to be jointly signed by the contractor, paint manufacturer.
- iv. External Painting works to be guaranteed by the paint manufacturer for a period of 03years for Normal Acrylic Emulsion, 05 years for 100% Acrylic Emulsion and 07 years for super protective Acrylic Emulsion Paint. The warranty should cover replacing of paint to the extent of defect including cost of labour for re-application of coating as may be necessary to set right the paint failure, at the contractor's own risk and cost.
Paint failure shall mean'
 - a) Flaking/ peeling/ cracking or chalking of paint film
 - or, b) growth of micro-organism like algae/fungus on the painted surface.
 - or, c) fading of colour shade of painted surface.
- v. For particular area, primer and paint to be used should be same approved by IIT Khargpur.



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SCOPE OF WORK & TECHNICAL SPECIFICATION

The scope of work includes: Construction of Study Room in Nalanda Classroom Complex as the Senior Class Gift 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 / 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
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.

योग: कर्मसु कौशलम्

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CHECK LIST FOR TENDER SUBMISSION (TWO BID)

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

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

योग: कर्मसु कौशलम्

Name of the Bidder _____

(in Block letters)

Signature: _____

Address: _____

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KHARAGPUR, WEST BENGAL

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PART – II: FINANCIAL BID

NOTICE INVITING TENDER NO. : SE(C)/IIT/TEN/2017-18/110
DATED : 14.02.2018

FEBRUARY 2018

Last Date & Time of Submission: 09.03.2018, upto 3:00 pm

CIVIL CONSTRUCTION & MAINTENANCE SECTION
IIT, KHARAGPUR,
WEST BENGAL

यागः कर्मसु कौशलम्

SUPERINTENDING ENGINEER (CIVIL)
IIT KHARAGPUR

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

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CCM Tender Sl. No. _____

Dated _____

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Construction of Study Room in Nalanda Classroom Complex as the *Senior Class Gift* at IIT Kharagpur."

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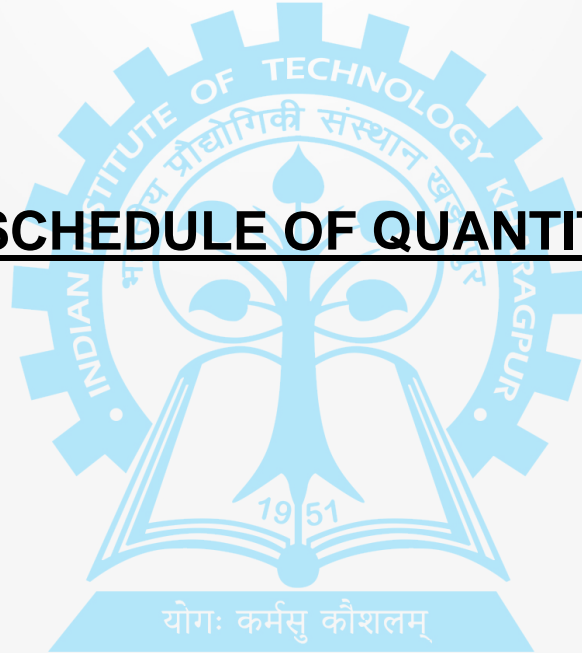


INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for “Construction of Study Room in Nalanda Classroom Complex as the *Senior Class Gift* at IIT Kharagpur.”



SCHEDULE OF QUANTITIES



CIVIL CONSTRUCTION AND MAINTENANCE SECTION

IIT KHARAGPUR

Name of work :- Construction of Study Room in Nalanda Class Room Complex as the Senior Class Gift at IIT Kharagpur.

SCHEDULE OF RATES

SI No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Part A - Civil works associated with Study room in NCRC					
1	Filling in foundation or plinth by fine sand in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of sand. (payment to be made on measurement of finished quantity)	Cu.M	27.00	509.85	13765.95
2	Cement concrete with graded stone ballast (40 mm size excluding shuttering), In all floor, Pakur Variety], 1:3:6 proportion.	Cu.M	18.00	5128.00	92304.00
3	Brick work with 1st class bricks in cement mortar (1:6. In superstructure.	Cu.M	18.00	5103.00	91854.00
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, noising and drip course, scaffolding/staging where necessary. With 1:4 cement mortar.				
	(a) 15 mm thick plaster.	Sq.M	160.00	150.00	24000.00
	(b) 10 mm thick plaster	Sq.M	229.00	122.00	27938.00
5	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement, if any, in all floor as per relevant IS codes. Pakur Variety.	Cu.M	2.00	5791.00	11582.00
6	Hire and labour charges for shuttering with centering and necessary staging 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. 25 mm to 30 mm thick wooden shuttering as per decision & direction of Engineer-In-Charge.	Sq.M	21.00	321.00	6741.00
7	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 all floor / Tor steel /Mild Steel.	Kg.	200.00	58.10	11620.00

SI No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
8	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 @ 2.91Kg./sqM 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 sqM 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 contra conc. With application slurry @1.75 kg/ Sq.m, 20 mm 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	Sq.M	190.00	1261.00	239590.00
9	Supplying bubble free float glass of approved make and brand conforming to IS: 2835- 1987.				
	(a) 5mm thick clear glass.	Sq.M	2.00	526.00	1052.00
	(b) 10mm thick clear glass.	Sq.M	3.44	1082.00	3722.08
	(c) 10 mm thick coloured / tinted / smoke glass.	Sq.M	96.10	1141.00	109650.10
10	(a) 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.	Nos.	04	63.00	252.00
	(b) Anodised aluminium D-type handle of approved quality manufactured from extruded section conforming to I.S. specification (I.S. 230/72) fitted and fixed complete. With continuous plate base (Hexagonal /Round rod), 150mm grip X 12mm dia. bolt.	Nos.	04	111.00	444.00
11	Supplying heavy duty hydraulic double action floor spring along with top pin/set of pivots conforming to IS: 6315 or any approved make as per direction of Engineer in charge.	Each Set	02	1729.00	3458.00
12	Supplying 4 lever mortice lock of any approved make and brand as per direction of the Engineer-in-Charge. 100 mm	Nos.	02	212.00	424.00
13	Rendering the surface of walls and ceiling with white cement based wall putty of approved make and brand(1.5mm thick)	Sq.M	343.00	110.00	37730.00
14	Applying Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive decorative textured (matt finish) or smooth finish acrylic exterior emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC. In All Floors, One Coat.	Sq.M	46.00	31.40	1444.40

SI No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
15	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.	Sq.M	46.00	67.00	3082.00
16	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 throughly, complete as per manufacturer's specification and as per direction of the EIC. One Coat. Water based interior grade Acrylic Primer.	Sq.M	297.00	30.80	9147.60
17	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 Superintending Engineer). (Two coats). Standard Quality.	Sq.M	297.00	62.00	18414.00
18	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) :				
	a) For fixed portion. Powder coated aluminium (minimum thickness of powder coating 50 micron).	Kg.	755.00	463.67	350070.85
	b) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron).	Kg.	22.00	536.50	11803.00
				Total Rs.	1070088.98
Part A				Say Rs.	10 70 089.00

SI No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Part B - Electrical works associated with Study Room in NCRC					
1	Wiring for light point/fan point/exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit, with modular switch, modular plate, suitable G.I box & 3pin ceiling rose and earthing the point with 1.5sq.mm FRLS PVC insulated copper conductor single core cable etc as required. Wire (1.1kv gr.):- Finolex/Havells/KEI/Polycab/Glostar make. Pipe :- Presto Plast/Precesion make.(MMS)				
a)	Upto 6 mtrs.	no	25	518.00	12950.00
2	Wiring for circuit/ submain along with earth wire with the following size of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required. Wire (1.1kv gr.):- Finolex/Havells/KEI/Polycab/Glostar make. Pipe :- Presto Plast/Precesion make.(MMS)				
a)	2X2.5 sq.mm+1x 2.5 sq.mm earth wire	mtr	200	131.00	26200.00
b)	2X4.0 sq.mm+1x 4.0 sq.mm earth wire	mtr	150	162.00	24300.00
3	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. Make :- Equivalent to Crabtree Thames Platinum range/Legrand(Myrius)/WIPRO(NOWA)				
a)	5/6 amps switch	no	70	81.00	5670.00
b)	3pin 5/6 amps socket	no	70	79.00	5530.00
4	Supplying and fixing following modular, GI box along with modular base & cover plate for modular switches in recess etc as required. Make :-Equivalent to Crabtree Thames Platinum range/Legrand(Myrius)/WIPRO(NOWA)				
a)	3M	no	10	88.00	880.00
b)	6M	no	30	122.00	3660.00
5	Supplying of LED Fitting(double) of Regal Batten with 2nos LED 18W tube light with wiring complete using 3x1.5 sq.mm. flexible copper wire. Make :-Havells /Syska /Bajaj/Philips and Eqv. Model :-LHFYBYG2IN1W020(Havells)	no	15	1228.50	18427.50
6	Installation, testing and commissioning of pre-wired,LED fitting of all types, with all accessories and including supplying and fixing ball and socket arrangement,2no.down rods of 20mm diax1.6mm thick steel conduit upto 30cm length, painting and wiring the down rods and connection with 1.5sq.mm FRLS PVC insulated, copper conductor, single core cable and earthing as required.	no	15	91.00	1365.00
7	Supplying & fixing 400mm,wall fan with all accessories & wiring complete with 3x1.5sq.mm. Copper wire. Make :-Orient(Wall 49)/USHA(MIST AIR DUOS)	no	10	1999.50	19995.00

SI No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
8	Supplying and fixing of 4-way ,ETPN,Double Door,MCB, DB(IP43) on wall with angle iron frame/recess with following combination. A)63A,4P,415V,MCB-01no. B)10A-32A,SP,10KA,415V,MCB-12 nos. Make:- Legrand/Schneider/Siemens.	no	1	8105.50	8105.50
9	Supplying and fixing of 4way, SPN,double door DB(IP43) with a)63A,4P,10KA, MCB-1no. including necessary connection as required. Make: Legrand/Schneider/Siemens.	no	3	3574.00	10722.00
10	Supplying and fixing of 8way, SPN,double door DB(IP43) with a)40A,2P,10KA, MCB-1no. b) 10A-32A SP,10KA,MCB-6nos. including necessary connection as required. Make: Legrand/Schneider/Siemens.	no	1	4183.00	4183.00
11	Supplying and fixing of 2P, enclosure with 40A,4P,10KA, MCB-1no. including necessary connection as required. Make: Legrand/Schneider/Siemens.	no	1	1747.00	1747.00
12	Supply of 1.1kv grade, 10 sq.mm, 2.0 core, XLPE insulated overall sheathed stranded aluminium conductor flat steel strip armoured cable. Conforming to IS:7098 part-I with latest amendments. Make:- Havells/Gloster/Nicco/KEI/Polycab	mtr	20	81.42	1628.40
13	Supply of 1.1kv grade, 16 sq.mm, 4.0 core, XLPE insulated overall sheathed stranded aluminium conductor flat steel strip armoured cable. Conforming to IS:7098 part-I with latest amendments. Make:- Havells/Gloster/Nicco/KEI/Polycab	mtr	50	120.36	6018.00
14	Laying and fixing of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of following size on wall surface as required along with 2no 8SWG GI wire as earth connection and with saddling @ 3nos/mtr.				
a)	Upto 35 sq. mm.	mtr	70	24.00	1680.00
15	Supply &making indoor end termination with brass compression gland and AL/Cu lugs of following size of PVC insulated and PVC sheathed/XLPE AL. conductor cable of gr.1.1kv as required. Dowell's make.				
a)	Upto 2.0 core x10 sq.mm.	no	4	148.00	592.00
b)	Upto 4.0 core x16 sq.mm.	no	8	245.00	1960.00
				Total	155613.40
Part B				Say	1 55 613.00
Wire: 1.1kv grade,FRLS type Finolex/Havells/Gloster. PVC Pipe: (Medium gauge) Precision/Pesto Plast. Modular Switch/Sockei/Regulator: Legrand (Myrius)/Crabtree Thames platinum range/MK (wraparound) Ceiling rose,Holder: Anchor/SSK GI pipe: Medium gauge TATA/Bansal All materials to be used before prior approval of site-in-charge.					
Note:-1) All mcb should be with 'c' curve,10KA.The contractor has to maintain 5 yrs. replacement at site warranty of the fittings and driver,lamps from the date of commissioning atfree of cost and should provide an undertaking in this regard during execution of work. 2) Each fitting should have identification no.before fixing as directed by site in charge.					
Note:- All materials to be used before prior approval of Engineer -in -charge.					

SI No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Part C - AC system for Study Room at NCRC - IIT Kharagpur					
A Air Conditioning					
1	Supply, Installation, Testing & Commissioning of Ceiling Suspended Air-cooled Air-conditioner with hermetic/semi-hermetic type scroll compressors of the following Capacity with single or Multiple Compressors and first charge of R22/ R134a/ R410A/ R407Cetc as per specification, including (1) Interconnecting refrigerant Copper piping with 13mm thick nitrile rubber insulation upto 10rmt (2) Electrical (copper) cabling, suitable for operation in AC 415V 3-phase 50 cycles supply, from ODU & IDU to four pole MCB switches with encloser provided & (3) Drain pipes of 20mm dia with 6mm thick armaflex insulation to suitable drain point upto 10 m. I.D.U & ODU Capacity – 33264 kcal/hr (11 TR) each	No	1	211200	211200
B Ancillary items					
2	M.S. Powder coated Fresh Air louvers with damper and bird screen as per specification and for the following sizes 300 x 300	No	1	1200	1200
3	Supply and erection of 24 G GSS ducting with flexible connection with necessary support & fittings as given in specification	sqm	132	700	92400
4	Supply and erection of Acoustic Insulation of Duct with 12mm thick rigid board (48Kg/cu.mt) and covered with 28G perforated Aluminium sheet and as given in specifications	sqm	18	650	11700
5	Supply, installation & testing of Thermal insulation of supply air duct with 13mm thick without Al foil faced nitrile rubber (Class: O) and joint sealed with Al tape as per specification.	sqm	120	650	78000
6	Supply, installation & testing of Thermal insulation of Aluminium Powder coated Grille for supply air withal collar damper. (size: 600 x 150)	sqm	1.00	8500	8500
7	Supply, installation & testing of Thermal insulation of Duct Dampers at IDU Opening	sqm	0.5	6500	3250
8	Supply, installation, testing & commissioning of Seamless heavy gauge Copper piping of following size duly insulated with 13mm thk. Nitrile Rubber Insulation covered with aluminum foil (As per Specified with K Value of 0.027-0.029 K Cal/Hr.MDeg C at 0-16 Deg C) . Even necessary supports, fittings, joints where ever required will be included.	Rmt	15	1050	15750
9	MS Staging with painting /PCC foundation for Out Door Unit Installation.	Lot	1	2000	2000
10	Making wall opening for fresh air & passage of pipes andcables and making good of the same	Lot	1	PRICE INCLUDED IN SL: 1	
11	Power cable with cable tray if required for outdoor unit.	Rmt	20	400	8000

SI No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
12	Testing and Commissioning& 1 year free service			INCLUDED IN PRICE	
CAMC CONTRACT					
	Comprehensive annual maintenance Contract for 4 Years after 1 year of Free Service & Warranty	per year	4	22000	88000
TOTAL CARRIED OVER TO GENERAL SUMMARY					
SUMMARY					
Description					Amount
1	Air Conditioning System				432000
2	CAM Contract for 4 Years after 1 year of Free Service & Warranty.				88000
Grand Total					520000
Part - C					Rs. 5 20 000.00
Total Amount (Part A + Part B + Part C)					Rs. 17 45 702.00
<i>(Rupees Seventeen Lakhs Forty Five Thousand Seven Hundred and Two only)</i>					
NOTE: THE RATES MENTIONED ABOVE ARE EXCLUSIVE OF GST/ ALL TAXES.					
<p>I agree to execute the work _____ % [in figure] ABOVE/BELOW/ AT PAR (_____</p> <p>percent) [in words] ABOVE/ BELOW/AT PAR Department estimated amount/ item rates.</p> <p style="text-align: center;">1951</p> <p style="text-align: center;">Signature of Contractor with Date & Seal</p>					

योग: कर्मसु कौशलम्

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Construction of Study Room in Nalanda Classroom Complex as the *Senior Class Gift* at IIT Kharagpur."

FORM OF TENDER

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

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

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

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

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

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

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

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

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

Signature of the Tenderer / Authorised person

(Seal of the Tenderer)

Name of the tenderer _____

(In Block letters)

Address: _____
