

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Room partition and conversion of existing guest room into toilet block in ground and first floor of Old A Block and conversion of Hall of New CFB Block to Hall office in Sister Nivedita Hall of Residence at IIT Kharagpur."



INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR, WEST BENGAL

TENDER DOCUMENT FOR

Room partition and conversion of existing guest room into toilet block in ground and first floor of Old A Block and conversion of Hall of New CFB Block to Hall office in Sister Nivedita Hall of Residence at IIT Kharagpur.

PART – I: TECHNICAL BID

NOTICE INVITING TENDER NO. : SE(C)/IIT/TEN/2018-19/018
DATED : 03.05.2018

May 2018

Cost of Tender Document : Rs. 1,000.00 (Non-Refundable)
Last Date & Time of Submission : 17.05.2018 upto 03:00 PM

CIVIL CONSTRUCTION & MAINTENANCE SECTION
IIT, KHARAGPUR,
WEST BENGAL

SUPERINTENDING ENGINEER (CIVIL)
IIT KHARAGPUR

Name and Address of Bidder: M/S.

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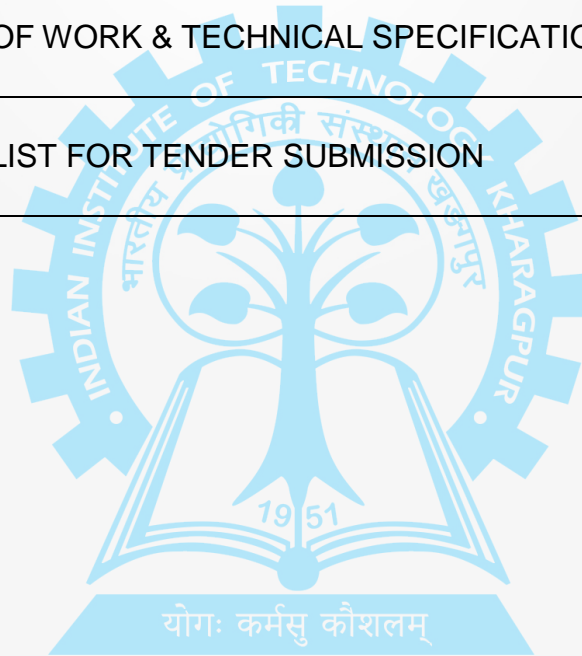
CCM Tender Sl. No. _____

Dated _____

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**INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR**

No. SE(C)/IIT/TEN/2018-19/018

Date: 03.05.2018

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 (₹) Exclusive of GST/all taxes	Earnest Money Deposit (₹)	Time for Completion	Start Date & Time of Tender Document Download / Bid Submission	End Date & Time of Tender Document Download / Bid Submission	Date & Time of opening of Technical Bid
Room partition and conversion of existing guest room into toilet block in ground and first floor of Old A Block and conversion of Hall of New CFB Block to Hall office in Sister Nivedita Hall of Residence at IIT Kharagpur.	15,94,683.00	31,900.00	03 (Three) Months	03.05.2018 03:30 PM	17.05.2018 upto 03:00 PM	17.05.2018 at 03:30 PM

Cost of Tender Paper ₹ 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 *April, 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: **Repair & Renovation / Construction of buildings.**

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 (CCM)
- 3) Vice Chairman (CCM)-Civil
- 4) Engineer (Civil)
- 5) Executive (CCM)
- 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 **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 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 *April 2018*:

- a) 03 similar works each costing not less than 40% of estimated cost, i.e. **Rs. 6,37,873.00 or**
- b) 02 similar works each costing not less than 60% of estimated cost, i.e. **Rs. 9,56,809.00 or**
- c) 01 similar work costing not less than 80% of estimated cost, i.e. **Rs. 12,75,746.00**

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: Repair & renovation / Construction of buildings.

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.

7. **Submission of Bid**

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

- I. **Envelope-1 : Tender Fee and EMD** will comprise of -
 - i) **Cost of Tender Paper** Rs. 1000.00, NON REFUNDABLE in the form of DD in favour of IIT Kharagpur, payable at Kharagpur (validity of DD should be at least 03 months from the date of publication of NIT). Tender without 'Cost of Tender Document' will be treated as cancelled.
 - ii) **EMD** of requisite amount in the form of DD in favour of IIT Kharagpur payable at Kharagpur (validity of DD should be at least 03 months from the date of publication of NIT). Bid without EMD would be summarily rejected.
- II. **Envelope-2 : Technical Bid** will comprise of -
 - i) Self certified copies of Credential documents fulfilling the minimum eligibility criteria as per Clause 6 above, i.e., Experience Certificates for completion of similar type of job within last seven years.
 - ii) Original Tender Document – Part-I: Technical Bid duly Stamped & Signed in all pages.
 - iii) Self certified copies of Statutory documents like Trade License, PAN, IT Return for last 3 years, GST Registration details etc.
- III. **Envelope-3 : Financial Bid** will comprise of -

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

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

8. Each and every page of the tender documents and correspondences accompanying the tender shall have to be duly signed and stamped by the Bidder / Authorised Signatory before submission. The person / officer signing the tender / bid should be the **Owner / Proprietor / Partner / CEO / MD / Director** of the company or delegated with an appropriate **Power of Attorney (duly endorsed by a Notary Public)** to sign such documents by the **Owner / Proprietor / Partner / CEO / MD / Director** of the company.
9. The bidder shall have to submit certified copies of valid Trade License, PAN, Income Tax Return for last 3 yrs, GST registration details, other statutory tax clearance certificates (if any) and credential documents fulfilling the minimum eligibility criteria along with his tender. The original copies of these documents will have to be produced when demanded for verification.
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)*, 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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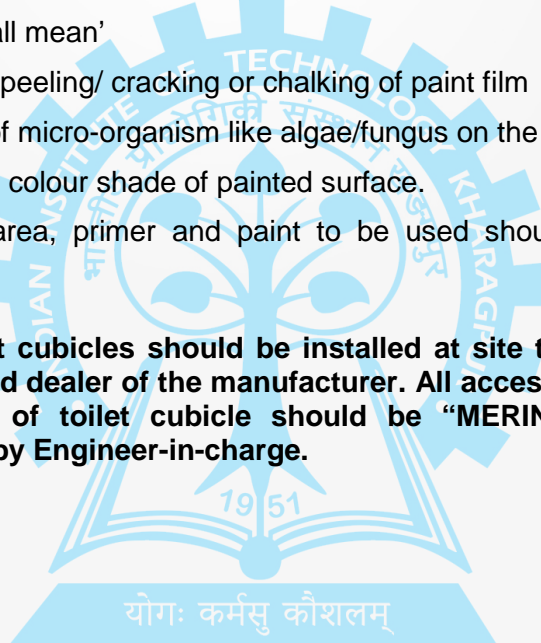
14. For painting works-

- 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.

15. **Ready to install toilet cubicles should be installed at site through the manufacturer or through the authorized dealer of the manufacturer. All accessories and fittings should be SS-304 grade. Type of toilet cubicle should be "MERINO TITAN SS SYSTEM" or equivalent approved by Engineer-in-charge.**



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SCOPE OF WORK & TECHNICAL SPECIFICATION

The scope of work includes: *Room partition and conversion of existing guest room into toilet block in ground and first floor of Old A Block and conversion of Hall of New CFB Block to Hall office in Sister Nivedita Hall of Residence 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.

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 :"		

Name of the Bidder _____

(in Block letters)

Signature: _____

Address: _____

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Room partition and conversion of existing guest room into toilet block in ground and first floor of Old A Block and conversion of Hall of New CFB Block to Hall office in Sister Nivedita Hall of Residence at IIT Kharagpur."



INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR, WEST BENGAL

TENDER DOCUMENT FOR

Room partition and conversion of existing guest room into toilet block in ground and first floor of Old A Block and conversion of Hall of New CFB Block to Hall office in Sister Nivedita Hall of Residence at IIT Kharagpur.

PART – II: FINANCIAL BID

NOTICE INVITING TENDER NO. : SE(C)/IIT/TEN/2018-19/018
DATED : 03.05.2018

May 2018

Last Date & Time of Submission: 17.05.2018 upto 03:00 PM

योगः कर्मसु कौशलम्

CIVIL CONSTRUCTION & MAINTENANCE SECTION
IIT, KHARAGPUR,
WEST BENGAL

SUPERINTENDING ENGINEER (CIVIL)
IIT KHARAGPUR

Name and Address of Bidder: M/S.

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

CCM Tender Sl. No. _____

Dated _____

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Room partition and conversion of existing guest room into toilet block in ground and first floor of Old A Block and conversion of Hall of New CFB Block to Hall office in Sister Nivedita Hall of Residence at IIT Kharagpur."

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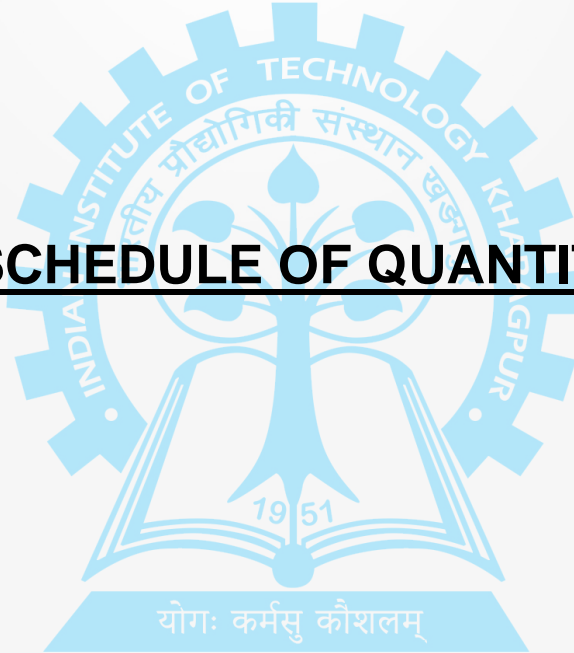


INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Room partition and conversion of existing guest room into toilet block in ground and first floor of Old A Block and conversion of Hall of New CFB Block to Hall office in Sister Nivedita Hall of Residence at IIT Kharagpur."



SCHEDULE OF QUANTITIES



**CIVIL CONSTRUCTION AND MAINTENANCE SECTION
IIT KHARAGPUR**

Name of Work :

Room partition and conversion of existing guest room into toilet block in ground and first floor of Old A Block and conversion of Hall of New CFB Block to Hall Office in Sister Nivedita Hall of Residence at IIT Kharagpur.

SCHEDULE OF QUANTITIES

Item No.	Description of Item	Unit	Quantity	Rate (₹)	Amount (₹)
Part-A : CIVIL WORKS					
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. in all floors at any height and level including roof.	Cu.M	0.60	447.00	268.20
2	Dismantling tile work in floors/ dado/ skirting a laid in cement mortar/chemical mortar/synthetic adhesive <i>at any level</i> including stacking material within 50 metres lead.	Sqm.	120.00	31.55	3,786.00
3	Dismantling all types of plain cement concrete works upto 150 mm. thick <i>at any Floor and level</i> , stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m.	Cum.	0.50	939.00	469.50
4	Bonding new brick work with old at every 4th course including cutting chase and mending damages in cement mortar (1:4) and curing. [Mode of measurement:The actual bonded area shall be considered for payment]	Sqm.	0.30	253.00	75.90
5	Labour for chipping of concrete surface before taking up plastering work.	Sqm.	15.00	21.00	315.00
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	180.00	19.00	3,420.00
7	Supplying fitting and fixing of Hexagonal Chicken Mesh of approved quality with necessary nails etc. at all levels & in any floor complete in all respect as per instruction of Engineer in charge.	Sqm.	20.00	30.00	600.00
8	Applying 2 coats of bonding agent with synthetic multi functional rubber emulsion having adhesive and waterproofing properties by mixing with water in proportion (1 bonding agent : 4 water : 6 cement) as per Manufacturer's specification (Consumption of Cement @ 7.2 kg/10 Sq.M).	Sqm	180.00	88.00	15,840.00
9	Providing 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 at all floors and levels.				
	a) 20 mm thick plaster with 1:4 cement mortar,	Sqm	100.00	172.00	17,200.00
	b) 15 mm thick plaster with 1:4 cement mortar	Sqm	310.00	150.00	46,500.00
10	<u>Waterproofing Treatment at Bathroom</u>				
10.a)	a) Providing 6 mm plaster on cement concrete or reinforced cement concrete work with white cement based polymer modified self curing mortar of approved make as per the direction of Engineer-In-Charge.	Sqm	50.00	146.45	7,322.50

Item No.	Description of Item	Unit	Quantity	Rate (₹)	Amount (₹)
10.b)	<p>Providing coving at the corners of Floor and wall junction with polymer modified mortar:</p> <p>i) Making groove of 20mm x 20mm along the joints of concrete floor and vertical brick wall and cleaning the surface properly.</p> <p>ii) Supply and application of a bond coat of Latex polymer and filling the groove with 1:3 cement sand mortar, mixed with acrylic polymer modified high quality emulsion.</p> <p>Approved product : Sika Top 77 or equivalent</p>	Rm	40.00	180.00	7,200.00
10.c)	<p>Supply and application of waterproof coating on the prepared surface in a continuous film on the floor of the wet area with one component, flexible, micro fibre reinforced, cementitious product modified with special alkali-resistant polymers which can produce a flexible membrane for waterproofing.</p> <p>Two coats should be applied over the horizontal floor surfaces and vertical surfaces of wall over the coving up to 300mm above the final finished floor level (before tiling). The coating shall also be continued on to the inner surfaces of the pipe penetration holes.</p> <p>The first coat of treatment shall be applied over a primer coat. After application of the first coat a fibre cloth mesh to be laid when the coat becomes tacky. Minimum 100 mm lapping to be maintained on the edges of fibre cloth mesh. After curing of the first coat, top coat to be applied on the right angle of first coat and to be allowed to dry for six hours before starting other activities of floor finish. Ponding test to be done free of cost for 48 hrs and to check from soffit to ensure zero water seepage from the slab and joints.</p> <p>System - Sika Flexicoat 1K or equivalent approved Primer - Sika Flexicoat primer Base coat - Sika Flexicoat 1K base coat Fibre cloth mesh - Sika Fab1 Top Coat - Sika Flexicoat 1K top coat Consumption:1.5Kg per Sqm for 2 coats</p>	Sqm	60.00	290.00	17,400.00
10.d)	<p>Filling the annuals of pipe joints by rich concrete of M-20 grade with non shrink admixture; followed by providing a moisture insensitive epoxy putty in a continuous, 10mm thick gasket around the pipes to a width of approximately 10 mm.</p> <p>Epoxy putty : Sikagard 694F(I) or equivalent</p>	No.	14.00	250.00	3,500.00
10.e)	<p>Providing Ordinary Cement concrete (mix 1:2:4) with graded stone chips of Pakur variety (6mm nominal size) excluding shuttering and reinforcement, if any, in any floor, as per relevant IS codes.</p>	Cum	5.00	5,500.00	27,500.00
11	<p>Providing Cement concrete of 1:3:6 proportion with graded stone ballast of Pakur Variety (40 mm size) excluding shuttering at any floor and level including foundation.</p>	Cum	0.20	5,128.00	1,025.60
12	<p>Providing Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips of Pakur Variety (20 mm nominal size) excluding shuttering and reinforcement if any, in any floor, as per relevant IS codes.</p>	Cum	0.20	5,791.00	1,158.20

Item No.	Description of Item	Unit	Quantity	Rate (₹)	Amount (₹)
13	Hire and labour charges for shuttering with centering and necessary staging upto 4 m height 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. - with 25 mm to 30 mm thick wooden shuttering as per decision & direction of Engineer-in-Charge, in any floor and level complete in all respect.	Sqm	2.00	321.00	642.00
14	Providing and fixing Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc. including 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 in all respect in any floor and level including foundation. - with Tor steel of SAIL/TATA/RINL make.	Kg	40.00	58.10	2,324.00
15	Providing and laying autoclaved aerated cement blocks masonry with 150mm/200mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for seperately).	Cum	22.00	5,687.10	125,116.20
16	100 mm. thick brick work with Fly Ash Bricks set in cement sand mortar (1:4) including raking out joints, curing, scaffolding etc. complete in all respect as per direction of EIC.	Sq.M	5.00	539.00	2,695.00
17	Rendering the Surface of walls and ceiling with 1.5 mm thick White Cement base WATER PROOF wall putty of approved make & brand.	Sq.M	310.00	122.00	37,820.00
18	Supplying, fitting & fixing 1st quality Ceramic tiles in walls to match with the existing work with 4 nos. of key stones (10mm) fixed with araldite at the back of each tile & finishing the joints by synthetic adhesive & grout materials to match the colour of tiles including roughening of concrete surface. Tiles to be fixed with Polymerised adhesive & Epoxy Grout pointing including spacer- 2 mm (when tiles are laid over existing hard ready surface). - with Coloured decorative tiles and area of each tile upto 0.09 Sq.m.	Sqm	95.00	800.00	76,000.00

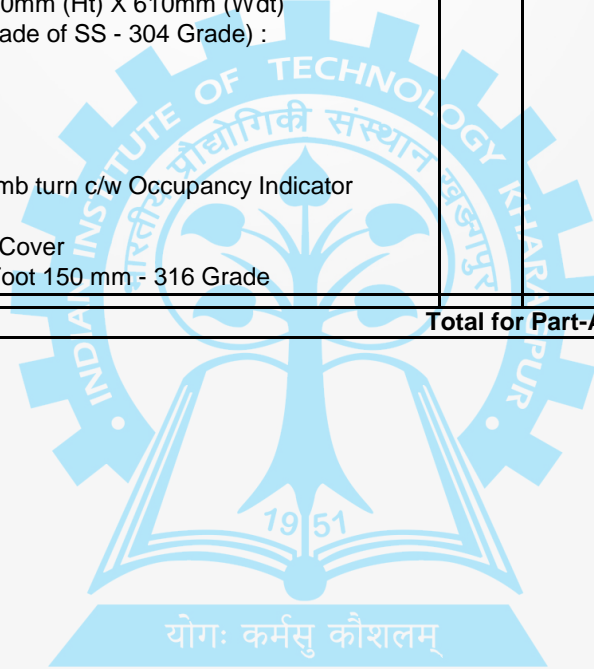
Item No.	Description of Item	Unit	Quantity	Rate (₹)	Amount (₹)
19	Supplying and laying true to line and level Anti-Skid, Full Body, Homogeneous & Granular finish Vitrified Tiles in any floor and level, conforming to IS:15622-2006 & IS 4457-2007 [Testing shall be made by manufacturer in accordance with IS:13630 (Non- modular sizes for tiles with Skid resistance > 0.5, Mohr's hardness > 5.0, Staining resistance: Class-1, Water Absorption: E < 0.5%, MOR > 35 N/sq.mm] in Internal area of building e.g. Toilet Block, Passage, Corridor, Accessible Open Terrace etc. using Polymerised Adhesive (6 mm thick layer applied directly over finished artificial stone floor / Mosaic or finished hard surface without any backing course), joints grouted with epoxy grout materials of approved make and colouring pigment to match with colour of tiles 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 / Polymerised adhesive and Epoxy grout material to be supplied by the contractor). Sizes : 600 mm x 600mm x 10 mm with breaking strength	Sqm	50.00	1,580.00	79,000.00
20	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. using polymerised adhesive (6 mm thick ayer applied directly over finished artificial stone floor/Mosaic etc without any backing course), joints grouted with epoxy grout materials of approved make to match with colour of tiles 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 including spacer-2 mm. to be supplied by the contractor). - Tiles of Light Colour.	Sqm	75.00	1,369.00	102,675.00
21	Scraping and removing greasy soot from walls or ceiling of kitchen or similar smoke affected rooms and preparing the surface for painting as per direction of EIC.	Sqm	80.00	11.00	880.00
22	Supplying and applying one coat of Water based 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.	Sqm	2,035.00	30.80	62,678.00
23	Supplying and applying two Coats of Acrylic Distemper to interior wall, ceiling (as per manufacturer's specification) including cleaning and smoothing of surface.	Sqm	2,035.00	36.30	73,870.50

Item No.	Description of Item	Unit	Quantity	Rate (₹)	Amount (₹)
24	a) Priming one coat on steel or other metal surface with synthetic all bound primer of approved quality including smoothing surfaces by sand papering etc. at all floors and levels.	Sqm	5.00	29.00	145.00
	b) Priming one coat on Timber, Plaster surface with synthetic oil bound primer of approved quality including smoothing surfaces by sand papering etc. at all floors and levels.	Sqm	5.00	38.00	190.00
25	Painting with best quality synthetic enamel paint of approved make and brand including smoothing surface by sand papering etc. including using of approved putty etc. on the surface in necessary.				
	(a) On timber or plastered surface, With super glass (hi-gloss), Two coat (with any shade except white) .	Sqm	55.00	75.00	4,125.00
	(b) On steel or other metal surface. With super glass (hi-gloss). Two coat (with any shade except white) .	Sqm	60.00	72.00	4,320.00
26	Providing and Fixing factory made PVC door frame made of PVC extruded sections of size 75 mm x 53 mm, having wall thickness 2.0 mm (± 0.2 mm). Both verticals sides of the frame reinforced with PVC profile of cross section size 28 mm x 30 mm x 2 mm thickness (± 0.2 mm) and 75 mm x 200 mm long, including reinforcing both ends of the top frame with PVC profile. PVC Door Frame and PVC reinforcement profile to be mitred cut, jointed and fusion welded together, including providing and fixing 3 nos of 125 mm long stainless steel hinges to frame, fixing the frame with jamb with required nos & sizes of anchor dash fastener, all complete as per manufacturer's specification and direction of engineer-in-charge.	Rm.	10.00	472.35	4,723.50
27	Providing and fixing 37 mm thick factory made PVC Door shutter, styles and rails made of PVC hollow extruded printed and laminated section having overall dimension 115 mm x 37 mm with wall thickness 2 mm (± 0.2 mm) with inbuilt beading on one side, the styles and rails mitred cut and joint at corners by inserting 2 nos PVC profile reinforcement of size 75 mm x 200 mm long with cross section size of 28 mm x 30 mm having wall thickness 2 mm (± 0.2 mm). Styles, rails and reinforcements to be fusion welded together. Only hinge side vertical style to be reinforced with PVC profile reinforcement in full length. Printed and laminated PVC lock rail of size 110 mm x 37 mm having wall thickness 2 mm (± 0.2 mm) to be welded horizontally with the vertical styles after inserting PVC profile reinforcement as in styles and rails, providing with PVC snap fit beading, panels of 100 x 20 mm printed & laminated and inserting 2 nos 6 mm dia bright steel rod horizontally with both side threaded and tightened with check nuts and washers complete, all as per manufacturer's specification and direction of engineer-in-charge.	Sqm	5.00	3,200.10	16,000.50
28	Anodised aluminium Aldrop / Sliding bolts of approved quality manufactured from extruded section conforming to I.S. specification (I.S. 2681/66) fitted and fixed complete. 300mm x 16mm dia. bolt.	Each	1.00	231.00	231.00

Item No.	Description of Item	Unit	Quantity	Rate (₹)	Amount (₹)
29	Providing 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.				
	a) 75mm long x 10mm dia. bolt.	Each	2.00	48.00	96.00
	b) 150mm long x 12mm dia. bolt.	Each	6.00	88.00	528.00
30	Anodised aluminium D-type handle of approved quality manufactured from extruded section conforming to IS specification (IS 230/72) fitted and fixed complete with continuous plate base and Hexagonal/ Round rod.				
	a) 100 mm grip x 12 mm dia rod	Each	2.00	85.00	170.00
	b) 150 mm grip x 12 mm dia rod.	Each	5.00	111.00	555.00
31	Providing Anodised aluminium butt hinges of approved quality manufactured from extruded section conforming to I.S. specification (I.S. 205/66) and fitted and fixed with cadmium plated screws : 100 x 75 x 4.0mm.	Each	15.00	93.00	1,395.00
32	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). - For 2-track sliding window in 10-12 Micron thickness Anodizing film of Natural white colour.				
	A. Frame				
	a) Bottom frame	Metre	11.00	218.00	2,398.00
	b) Top and side frame.	Metre	24.00	195.00	4,680.00
	B. Shutter for all track sliding window.				
	a) Bottom & Top member.	Metre	11.00	117.00	1,287.00
	b) Style side member.	Metre	11.00	119.00	1,309.00
	c) Interlock member.	Metre	11.00	148.00	1,628.00
	C. Labour charge for fabrication and installation of composite door, window, partitions made from anodized extruded alloy aluminium sections for the following units:- Glazed aluminium sliding windows made of extruded and anodized alloy aluminium sections, fabrications, including cutting to proper shape and size, drilling and aligning of window shutter frame fitted with in built locking arrangements, sliding rollers and other necessary fittings, fixture, adhesives and joineries along with extruded neoprene or EPDM gasketing in between window frame and masonry work (walls, column, beam.lintels etc.) as well as between glass and shutter frame for fixing glass and Polysulphide sealant and in between shutter and window frame where necessary including cutting to requisite size and fixing glass as per drawing, specification and direction of EIC. The rate includes the hire charge of all tools and plants, including all incidental charges, adhesive, joineries such as screw, cleat angle etc. but excluding the cost of extruded aluminium sections, glass, neoprene / EPDM gasket, locking arrangement and rollers.				
	a) 2 track sliding window.	Sqm.	7.00	696.00	4,872.00
	b) Fixed glazing.	Sqm.	2.00	768.00	1,536.00

Item No.	Description of Item	Unit	Quantity	Rate (₹)	Amount (₹)
33	Supplying bubble free float glass of approved make and brand conforming to IS: 2835-1987.				
	a) 5mm thick clear glass.	Sqm.	9.00	526.00	4,734.00
	b) 5mm thick coloured / tinted / smoke glass.	Sqm.	6.00	585.00	3,510.00
	c) 6mm thick clear glass.	Sqm.	5.00	608.00	3,040.00
34	Providing and fixing Polyester powder coated (minimum thickness of polyester powder coating 50 micron) 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 specifications, architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately).				
	a) For fixed portion / Door frame	Kg	22.00	391.80	8,619.60
	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).	Kg	27.00	452.40	12,214.80
35.a)	Wood work with <i>Local Sal</i> in door and window frame fitted and fixed in position complete including a protective coat of painting at the contact surface of the frame excluding cost of concrete, iron Butt Hinges and M.S clamps. (The quantum should be corrected upto three decimals).	Cum	0.20	72,954.00	14,590.80
35.b)	Panel shutters of door and window, as per design (each panel consisting of single plank without joint), including fitting and fixing the same in position but excluding the cost of hinge and other fittings at any floor and level : 35mm thick shutters with 19mm thick panel of size 30 to 45 cm. made of Sishu, Gamar, Champ, Badam, Bhola, Mogra, Hallak wood. (In case of non-supply of single plank, penal rate of reduction of 20% will be made).	Sqm.	3.00	2,789.00	8,367.00
36	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 Natural white - Louvered window.				
	i) Top, bottom and side member.	Meter	15.00	183.00	2,745.00
	ii) Louvered Section.	Meter	5.00	658.00	3,290.00
	iii) Cleat angle (Non-anodized).	Meter	5.00	263.00	1,315.00

Item No.	Description of Item	Unit	Quantity	Rate (₹)	Amount (₹)
37	Easing door and windows and keeping operational for 6 months.	Each	30.00	17.00	510.00
38	Supply of labour : Mazdoor (Male).	Each	10.00	269.50	2,695.00
39	Removal of rubbish, earth etc. from the working site and disposal of 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.	Cu.M.	8.00	166.00	1,328.00
40	Supplying, fitting and fixing Toilet Cubicle made of compact board of laminates as per following Specification complete in all respect as per direction of Engineer-in-Charge: A) Partition wall made of 12mm thick compact laminate board B) Size of Cubicle : As per drawing (1600mm x 1250 mm approx.) C) Overall Height of Cubicle : 1980mm (Including bottom Gap of 150mm) D) Door Size : 1750mm (Ht) X 610mm (Wdt) E) Accessories (made of SS - 304 Grade) : a. SS "U" Channel b. SS "F" channel c. SS Top Rail d. SS Coat Hook e. SS Privacy Thumb turn c/w Occupancy Indicator f. SS Door Knob g. SS Hinges with Cover h. SS Adjustable Foot 150 mm - 316 Grade	Nos.	12.00	28,050.00	336,600.00
Total for Part-A, Civil Works =					1,171,029.80



Item No.	Description of Item	Unit	Quantity	Rate (₹)	Amount (₹)
Part-B : SANITARY & PLUMBING WORKS					
1	Supplying, fitting and fixing white vitreous china best quality approved make wash basin with C.I. brackets on 75 mm X 75 mm wooden blocks, C.P. waste fittings of 32 mm dia., one approved quality brass C.P. pillar cock of 15 mm dia., C.P. chain with rubber plug of 30 mm dia., approved quality P.V.C. waste pipe with C.P. nut 32 mm dia., 900 mm long approved quality P.V.C. connection pipe with heavy brass C.P. nut including mending good all damages and painting the brackets with two coats of approved paint. - 550 mm X 400 mm size.	Each	4.00	2,208.00	8,832.00
2	Supplying, fitting and fixing best quality Indian make mirror 5.5 mm thick with silvering as per I.S.I. specifications supported on fibre glass frame of any colour and frame size 550 mm X 400 mm.	Each	4.00	613.00	2,452.00
3	Supplying, fitting and fixing E.W.C. with 'P' trap in white glazed vitreous chinaware of approved make complete in position with necessary bolts, nuts etc.	Each	6.00	1,421.00	8,526.00
4	Supplying, fitting and fixing Closet seat of approved make with lid and C.P. hinges, rubber buffer and brass screws complete. - Plastic (hallow type) of white colour.	Each	6.00	380.00	2,280.00
5	Supplying, fitting and fixing 10 litre P.V.C. low-down cistern conforming to I.S. specification with P.V.C. fittings complete, C.I. brackets including two coats of painting to bracket etc.	Each	6.00	1,015.00	6,090.00
6	Supplying, fitting and fixing approved brand P.V.C. CONNECTOR white flexible, with both ends coupling with heavy brass C.P. nut. - 15 mm dia. and 600 mm long.	Each	6.00	107.00	642.00
7	Supplying, fitting and fixing Chromium plated Stop Cock (Equivalent to Code No. 513(A) & 513(B) & Model - Tropical / Sumthing Special of ESSCO or similar brand).	Each	16.00	493.00	7888.00
8	Supplying, fitting and fixing C.P. Wall Flange, complete in all respect in any floor.	Each	34.00	64.00	2176.00
9	Supplying, fitting and fixing of approved brand and make hand Shower (Health Faucet) with 1mtr Flexible Tube with Wall Hook (Equivalent to Code No. 573 & Model - ALLIED of Jaquar or similar) complete in all respect in any floor.	each	6.00	1251.00	7506.00
10	Supplying, fitting and fixing Chromium plated Bib Cock short body (Equivalent to Code No. 511 & Model - Tropical / Sumthing Special of ESSCO or similar brand) complete in all respect in any floor.	Each	6.00	539.00	3234.00
11	Supplying, fitting and fixing Chromium plated Bib Cock long body with wall flange with aerator (Equivalent to Code No. 512 & Model - Tropical / Sumthing Special of ESSCO or similar brand) complete in all respect in any floor.	Each	12.00	659.00	7908.00

Item No.	Description of Item	Unit	Quantity	Rate (₹)	Amount (₹)
12	a) Supplying, fitting and fixing Chromium plated round shower with revolving joint 100 mm dia with rubid cleaning system (Equivalent to Code No. 542(N) & Model -Tropical / Sumthing Special of ESSCO or similar brand), complete in all respect in any floor.	Each	6.00	452.00	2712.00
	b) Supplying, fitting and fixing Chromium plated shower arm 240 mm long (Equivalent to Code No. 536(A) & Model - Tropical / Sumthing Special of ESSCO or similar brand), complete in all respect in any floor.	Each	6.00	360.00	2160.00
13	Supplying, fitting and fixing PTMT liquid soap container. (Prayag or equivalent).	Each	4.00	210.00	840.00
14	Supplying, fitting and fixing PTMT soap holder. (Prayag or equivalent).	Each	12.00	135.00	1,620.00
15	Supplying, fitting and fixing glass shelf with aluminium guard rails. 450 mm x 125 mm	Each	4.00	341.00	1364.00
16	Supplying, fitting and fixing towel rail of C.P. over brass with two brackets complete in all respect in any floor.				
	(i) 25 mm dia. and 450 mm long	Each	4.00	384.00	1,536.00
	(ii) 25 mm dia. and 600 mm long	Each	6.00	430.00	2,580.00
17	Supplying, fitting and fixing gunmetal wheel valve of approved brand and make tested to 21 kg per sq.cm. (for water lines only), complete in all respect in any floor.				
	(i) 25 mm	Each	00	778.00	0.00
	(ii) 32 mm dia	Each	2.00	1160.00	2320.00
	(iii) 40 mm dia.	Each	2.00	1590.00	3180.00
	(iv) 50 mm	Each	00	2277.00	0.00
18	Supplying, fitting and fixing CPVC (Chlorinated Polyvinyl Chloride) pipes of approved make conforming to IS-15778: 2007 with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, longscrew, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials in any position above ground at any floor and level. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accesories, specials etc.) - For exposed work with CPVC Pipes of Class-1, SDR-11				
	(a) 15 mm dia. medium quality	Mtr.	45.00	106.00	4770.00
	(b) 20 mm dia. medium quality	Mtr.	1.00	143.00	143.00
	(c) 25 mm dia. medium quality	Mtr.	40.00	208.00	8320.00
	(d) 32 mm dia. medium quality	Mtr.	1.00	283.00	283.00

Item No.	Description of Item	Unit	Quantity	Rate (₹)	Amount (₹)
19	Supplying, fitting & fixing UPVC pipes A-Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materails (Spun Yarn, Valamoid/ Bitumen/ M-Seal etc.) in any floor complete in all respect.				
	(a)110 mm. Dia.				
	(i) UPVC Pipes	Mtr.	45.00	251.00	11295.00
	(ii) Plain Tee	Nos	3.00	172.00	516.00
	(iii) Bend 87.5 degree	Nos	3.00	160.00	480.00
	(iv) Shoe	Nos	2.00	111.00	222.00
	(v) Door Tee	Nos	6.00	195.00	1170.00
	(a)75 mm. Dia.				
	(i) UPVC Pipes	Mtr.	5.00	251.00	1255.00
	(ii) Plain Tee	Nos	5.00	172.00	860.00
	(iii) Bend 87.5 degree	Nos	4.00	160.00	640.00
	(iv) Shoe	Nos	0.00	111.00	0.00
20	Supplying, fitting & fixing Aluminium / Steel domical grating as per direction of engineer-in-charge.100 mm complete in all respect in any floor.	Each	12.00	49.00	588.00
21	Supplying, fitting, fixing C.I Grating (Heavy type). Up to 100 mm Square or 100 mm Dia. in any floor complete in all respect.	Each	2.00	69.00	138.00
22	Supplying, fitting & fixing Cast iron soil pipe only conforming to I.S. 3989/ 2009 and I.S. 1729/2002 with bobbins, nails etc. including making holes in the wall, floor etc. and cutting trenches etc. in any floor through masonry concrete, if necessary, and mending good damages with necessary jointing materials and painting two coats to the exposed surface with approved paint complete. (Measurement will be made along the center line of the total pipe line in fitted condition including specials,payment for specials & Painting will however be paid seperately). -100mm dia pipe with lead caulked joints.	Mtr.	36.00	751.00	27036.00
23	Supplying, fitting & fixing Cast iron single branch equal with door conforming to I.S. 1729/2002 including joining <i>with lead caulked joints</i> and painting two coats to the exposed surface with approved paint complete. (Payment of Painting will however be paid seperately) : 100 mm dia.	Each	06	905.00	5430.00
24	Supplying, fitting & fixing Cast iron double branch equal with door conforming to I.S. 1729/2002 including jointing <i>with lead caulked joints</i> and painting two coats to the exposed surface with approved paint complete. (Payment of Painting will however be paid seperately) : 100mm dia	Each	00	1069.00	0.00
25	Supplying, fitting & fixing H.C.I. bend with door conforming to I.S.S. including jointing <i>with lead caulked joints</i> complete and painting two coats to the exposed surface with approved paint complete. (Payment of Painting will however be paid seperately) - 100 mm dia.	Each	02	646.00	1292.00

Item No.	Description of Item	Unit	Quantity	Rate (₹)	Amount (₹)
26	Supplying, fitting & fixing H.C.I. bend without door conforming to I.S.S. including jointing <i>with lead caulked joints</i> complete and painting two coats to the exposed surface with approved paint complete. (Payment of Painting will however be paid seperately) - 100 mm dia.	Each	00	600.00	0.00
27	Supplying, fitting & fixing approved patent vent cowl I.C.I. conforming to I.S.S and painting two coats to the exposed surface with approved paint complete. (Payment of painting will however be paid seperately) - 100 mm dia.	Each	03	367.00	1101.00
28	Supplying,fitting and fixing cast iron 'P' or 'S' trap conforming to I.S. 3989/ 2009 and 1729/ 2002 including lead caulked joints and painting two coats to the exposed surface. (Painting to be paid seperately). -100 mm. dia 'P' Trap.	Each	00	948.00	0.00
29	Cast Iron fittings for soil pipe line conforming to I.S. 1729/2002 including jointing with lead caulked joints and fitting and fixing in position and painting two coats to the exposed surface complete including cost of all materials & labour. (Payment of paiting will be paid seperatly.) - Single junction of 150 mm X 100 mm. dia with door.	Each	03	1426.00	4278.00
30	(a) Constructing Inspection pit of inside measurement 600 mm X 600mm X upto 600mm (depth) with 250 mm thick 1st class brick work in cement mortar (1:4) on all sides, bottom of the pit consisting of 100 mm thick cement concrete (1:3:6) with stone chips over a layer of jhama brick flat soling, 15 mm thick (1:4) cement plaster to inside walls and out-side walls upto G.L. and 20 mm.thick (1:4) plaster to bottom of the pit, providing necessary invert with cement concrete (1:3:6) with stone chips as per direction, neat cement finishing to entire internal surfaces, top of the pit covered with 100 mm thick R.C.C. slab (1:1.5:3) with stone chips and necessary reinforcements upto 1% and shuttering including 6 mm thick cement plaster (1:4) in all external surfaces of the slab and one 560 mm dia. R.C.C. manhole cover of approved make supplied, fitted and fixed in the slab with necessary fittings, necessary earthwork in excavation in all sorts of soil, filling sides of the pit with earth and removing spoils after work complete in all respect with all costs of labour and materials. - With Pakur variety stonechips and reinforcement steel other than SAIL/TATA/RINL make.	Each	02	6923.00	13846.00
	(b) Extra for each additional depth of 150 mm or part thereof beyond initial 600 mm depth.	Each	00	1134	0.00

Item No.	Description of Item	Unit	Quantity	Rate (₹)	Amount (₹)
31	Constructing Inspection pit to a depth of 1.5 metre (inside), 250 mm thick 1st class brick work (1:4) in all sides over a layer of jhama brick soling and 150 mm thick cement concrete with stone chips (1:3:6) including necessary earth work, fitting and fixing approved type S.W. master trap, constructing masonry invert with cement concrete (1:1.5:3) with stone chips, plastering inside and outside (outside upto 300 mm below G.L.) with 20 mm thick cement plastering (1:4) and neat cement punning, including supplying, fitting and fixing one 560 mm. dia R.C.C. manhole cover of approved make with R.C.C. slab of 100 mm thick with cement concrete (1:1.5:3) with stone chips including necessary reinforcement (upto 1%) and shuttering and necessary corbelling brick work (1:4) so that the R.C.C. cover slab rests 150 mm above adjucent G.L., cement plaster (1:4) 10 mm thick on all external surfaces of the top slab as directed complete in all respect and removal of surplus earth with all costs of labour and materials (excluding the cost of master trap only). - 900 mm X 750 mm (inside) chamber including fitting with pakur variety stonechips and reinforcement other than SAIL/TATA/RINL make and fixing S.W. master trap of 150 mm dia. of approved make.	Each	01	11494.00	11494.00
32	Supply of UPVC pipes (B Type) & fittings conforming to IS - 13592-1992 : 160 mm dia pipe, Single socketed 3 Meter Length	Mtr.	15	546.00	8190.00
33	Labour for fitting and fixing U.P.V.C. pipes for Under ground work including cost of jointing materials etc. fitting and fixing all necessary specials, cutting pipes, cutting holes in walls or R.C. floor where necessary and mending good all damages excluding the cost of masonry or concrete work, if necessary, but including the cost and fitting and fixing holder bat clamps (any floor) or for underground work including cutting trenches upto 1.5 metre and refilling the same complete as per direction of the Engineer-in-charge. (Payment will be made on centre line measurement of the total pipeline including specials) : 160 mm dia	Mtr.	15	93.00	1395.00
34	Supply & fixing of High Density Poly-ethylene Pipe conforming to IS - 4984 - 1985 (Dia) [PE - 63], 6 Kg / Sq.Cm. (Working Pressure) : 40 mm	Mtr.	04	72.00	288.00
Total for Part-B, Sanitary & Plumbing Works =					180,876.00

Item No.	Description of Item	Unit	Quantity	Rate (₹)	Amount (₹)
Part-C : ELECTRICAL WORKS					
1	Drawing of wires through conduit/Casing as per rules after supply and fixing of MMS conduit/casing of Suitable 25-32 mm as per requirement, either in recess or in surface as instructed and mending good the damages to original finish and painting on wall. Make: Conduit/Casing-Caping - Presto plast/ Precision.	Meter	80	84.00	6720.00
2	Supply and fixing of modular type Flush metal box with inner outer plate, modular cover of the following sizes for fixing of switch socket regulator etc. with necy. connection, recessed in wall and mending good the damages including painting.This includes disconnecting and dismantling the old items and depositing them to store. Make: Modular board and cover: Legrand (Myrius), Crabtree (Thames), MK - Wraparound				
a)	3 Module	Each	04	185.00	740.00
b)	6 Module	Each	03	258.00	774.00
3a	S&F of modular type 5/6 Amp one way switch on board with all connection.	Each	104	84.00	8736.00
3b	S&F of modular type 15/16 Amp one way switch on board with all connection.	Each	08	114.00	912.00
3c	S&F of modular type 6 Amp 3 pin shuttered socket on board with all connection.	Each	104	81.00	8424.00
3d	S&F of modular type 6pin,15/16 Amp socket on board with all connection.	Each	08	153.00	1224.00
3e	S&F of modular type blanking plate (1M) on board with fixing. Max. 1 no. blank plate is allowed for power board only.	Each	20	24.00	480.00
3f	Ceiling rose, 3 pin, 5 A ISI marked	Each	15	14.40	216.00
4	Supply and fixing of modular type Surface mounted plastic box with inner outer plate, modular cover of the following sizes for fixing switch socket regulator etc. with necy. connection, fixed on wall and mending good the damages including painting. This includes disconnecting and dismantling the old items and depositing them to store. Make: Modular board and cover: legrand (Myrius), Crabtree(Thames), MK and as required.				
a)	1M	Each	08	102.00	816.00
b)	2M	Each	12	102.00	1224.00
c)	3M	Each	48	121.00	5808.00
d)	6M	Each	20	193.00	3860.00
5	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 GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. Make: Casing capping— Precision/ Presto plast/ Finolex, Cu wire: Havells/ Finolex/Polycab/KEI/ Gloster- 1.1kv grade. Switch, Ceiling Rose etc: Anchor. Modular Switch/socket: Legrand (Myrius)/ Crabtree(Thames) / MK (Wraparound).	Each	59	615.00	36285.00

Item No.	Description of Item	Unit	Quantity	Rate (₹)	Amount (₹)
6	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required (Make:1.1kV grade FRLS PVC insulated copper conductor-Havells/Finolex/Polycab, PVC MMS conduit - Precision/Presto plast/Finolex)				
a)	2 X 1.5 sq.mm. + 1 X 1.5 sq.mm. earth wire	Meter	30	112.00	3360.00
b)	2 X 2.5 sq.mm. + 1 X 2.5 sq.mm. earth wire	Meter	227	137.00	31099.00
c)	2 X 4 sq.mm. + 1 X 4 sq.mm. earth wire	Meter	101	168.00	16968.00
7	Supplying and fixing 240/415 V MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection of following pole. Make: Legrand/Hager/Schneider/or equivalent				
	Single pole , 6-32A	Each	08	190.00	1520.00
8	Dismantling of old and unused wirings, cables, Earth spikes, unused earth strips, Board with switch, socket, light fittings etc in one room and removing the items and cleaning the areas. Dismantling items should be deposited to the store.	One Job	05	445.00	2225.00
9	Only fixing of three phases D.B with MCB on angle iron frame/recess as reqd. and all connection complete with copper lugs and mending good the damages to original finish. This includes disconnecting and dismantling the old items and depositing them to store.	Each	01	230.00	230.00
10	Installation, testing and commissioning of ceiling fan(36", 48", 56" etc), including wiring the down rods of standard length (upto 30 cm) with 1.5sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.	Each	42	105.00	4410.00
11	Laying of one cable (up to 35 sq. mm.) on wall clamped with 25 mm x 3 mm G.I flat, in existing masonry trench or by cutting the floor at 4 inch depth and mending good the damages to original finish. This includes S&F of 2x 10SWG G.I wire as earthing attachment with the cable	Metre	30	25.00	750.00
12	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade (up to 35 sq. mm.) direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.	Metre	35	206.00	7210.00
13	Supply and making end termination with brass compression gland and AL lugs for 4 x10 sq.mm size of PVC/XLPE al. conductor cable of 1.1kV grade as required.	Each	02	203.00	406.00
14	Only fixing of retrofitted LED tube light in the existing fittings on wall /ceiling or as desired on round wooden block/ MS clamp and connection complete after assembling and testing, providing 3*1.5 Sq.mm. PVC insulated Cu wire. This includes disconnecting and dismantling the old items and depositing them to store.	Each	180	100.00	18000.00
15	Fixing only exhaust fan after making hole in wall and making good damages and smooth cement finish etc. as practicable as possible and providing necy. length of PVC insulated wire and making connection for exhaust of following diamete. Up to 18".	Each	04	329.00	1316.00

Item No.	Description of Item	Unit	Quantity	Rate (₹)	Amount (₹)
16	Supply & Fixing GI louver shutter on wall with necy. bolts & nuts (6 mmdia x 62 mm long) 30 cm Exhaust fan (12")	Each	04	156.00	624.00
17	Supply only 12 inch metal, heavy duty exhaust fan, 1400 rpm, air delivery-1680 cu. Mtr/hr, 230 V. Make : Usha/Crompton Graves/Havells/Bajaj/or equivalent	Each	04	2560.00	10240.00
18	Supply of 18w LED retrofit tube light Cool white. Efficacy >=100 lumen /watt, p.f greater than 0.95, THD lesser than 10% with integrated electronics driver.(operating voltage 200 V-270 V AC) with overvoltage, under voltage and shortcircuit protection. Make: Philips/Crompton/Havells/Wipro/Eveready /equivalent. Note: 1. Contractor has to provide five years replacement guarantee of the LED tube light with fittings after installation and commissioning of the units at site. 2. Labeling on each LED tube light with paint/ permanent markers mentioning brief description, date of installation, date of expiry of guarantee etc is mandatory.	Each	80	480.00	38400.00
19	Supply of 20W,6000K Cool DayLight Led Tube Light,Luman-100Lm/W,Eco friendly, p.f greater than 0.9, operating voltage 200 V-270 V AC with overvoltage, under voltage and shortcircuit protection. Make: Philips/Crompton/Havells/Wipro/Eveready / equivalent. Note: 1. Contractor has to provide two years replacement guarantee of the LED tube light with fittings after installation and commissioning of the units at site. 2. Labeling on each LED tube light with paint/permanent markers mentioning brief description , date of installation, date of expiry of guarantee etc is mandatory.	Each	100	298.00	29800.00
Total for Part-C Electrical Works =					2 42 777.00
Total (A+B+C) ₹					15 94 682.80
योग: कर्मस कौशलम					Say 15 94 683.00
<i>(Rupees Fifteen Lakhs Ninety Four Thousand Six Hundred and Eighty Three only)</i>					
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 "Room partition and conversion of existing guest room into toilet block in ground and first floor of Old A Block and conversion of Hall of New CFB Block to Hall office in Sister Nivedita Hall of Residence 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: _____

