

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Face lifting and renovation of Experimental Farm office, Aqua Bio-lab & Quality analysis lab of AgFE Dept. and Wind tunnel lab Building of Aerospace Engineering Department at IIT KGP."



INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR, WEST BENGAL

TENDER DOCUMENT
FOR

Face lifting and renovation of Experimental Farm office, Aqua Bio-lab & Quality analysis lab of AgFE Dept. and Wind tunnel lab Building of Aerospace Engineering Department at IIT KGP.

PART – I: TECHNICAL BID

NOTICE INVITING TENDER NO. : SE(C)/IIT/TEN/2018-19/079

DATED : 06.11.2018

October 2018

Cost of Tender Document : Rs. 1,000.00 (Non-Refundable)
Last Date & Time of Submission : 27.11.2018 upto 03:00 PM

CIVIL CONSTRUCTION & MAINTENANCE SECTION
IIT, KHARAGPUR,
WEST BENGAL

योग: कर्मसु कौशलम् SUPERINTENDING ENGINEER (CIVIL)
IIT KHARAGPUR

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

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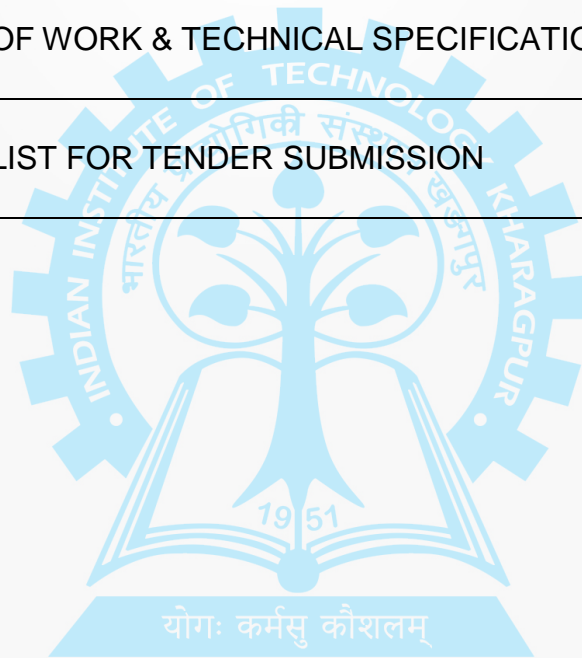
CCM Tender Sl. No. _____

Dated _____

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**INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR**

No. SE(C)/IIT/TEN/2018-19/079

Date: 06.11.2018

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/BSNL and other bonafide agencies meeting the minimum qualification criteria for the following work:

Name of work	Estimated Amount (₹)	Earnest Money Deposit (₹)	Time for Completion	Start Date & Time of Tender Document Download / Bid Submission	End Date & Time of Tender Document Download / Bid Submission	Date & Time of opening of Technical Bid
Face lifting and renovation of Experimental Farm office, Aqua Bio-lab & Quality analysis lab of AgFE Dept. and Wind tunnel lab Building of Aerospace Engineering Department at IIT KGP.	23,18,711.00	46,380.00	06 (Six) Months	06.11.2018 03:30 PM	27.11.2018 upto 03:00 PM	27.11.2018 3:30 PM

Cost of Tender Paper ₹ 1,000.00 (Rupees Five Thousand only), **NON REFUNDABLE**, in the form of DD only in favour of **IIT Kharagpur**, payable at **Kharagpur** (validity of DD should be at least 03 months) to be submitted along with the tenders (within Technical Bid). Tender without 'Cost of Tender Document' will be summarily rejected.

The Earnest Money should be deposited along with the tenders (within Technical Bid) in the form of DD only in favour of IIT Kharagpur, payable at Kharagpur. Tender without 'Earnest Money Deposit' will be summarily rejected. Earnest Money Deposit of the unsuccessful bidders will be returned to them after issue of L.O.A.

Brief Scope of Work

Face lifting and renovation of Experimental Farm office, Aqua Bio-lab & Quality analysis lab of AgFE Dept. and Wind tunnel lab Building of Aerospace Engineering Department at IIT KGP.

1. **Civil Works (Major Component).**
2. **Electrical Work.**

(A) Eligibility Criteria(Civil)

Contractors who fulfill the following requirements 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 *September, 2018*:
 - i) Three (03) similar works each costing not less than 40% of estimated cost for civil works only , or
 - ii) Two (02) similar works each costing not less than 60% of estimated cost for civil works only
 - iii) One (01) similar work costing not less than 80% of estimated cost for civil works only, executed under Central/State Government Department / Central/State Autonomous Body / Central/State Public Sector Undertaking.

Estimated cost for Civil works – ₹ 22,47,541.00

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.

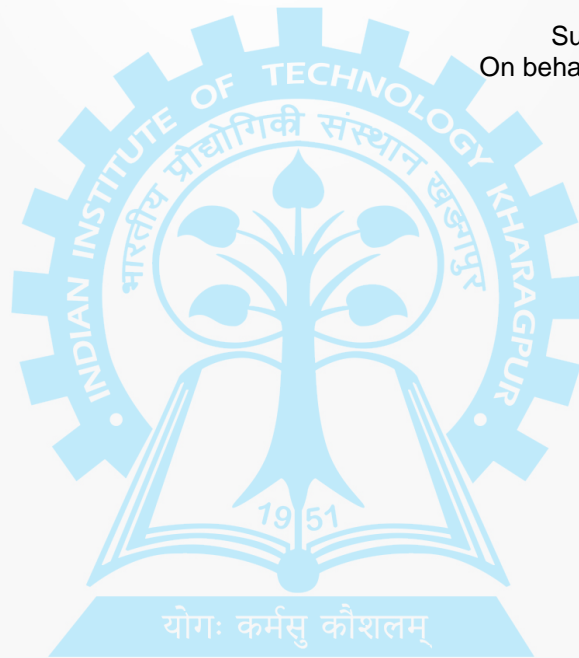
Completion certificate issued by Competent Authority will only be considered as credential. If the Completion certificate issued by Competent Authority does not reflect the type of work, then Final bill / Schedule of Quantity of the qualifying works also to be attached along with the Completion certificates.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

(B) The bidders who do not have requisite credential for electrical work himself must associate with agencies eligible to bid for Electrical works (₹ 71,170.00) individually in line with Eligibility Criteria mentioned above (i.e., 3 similar Electrical works each costing not less than 40% of estimated cost for electrical works, or 2 similar Electrical works each costing not less than 60% of estimated cost for electrical works, or 1 similar Electrical work each costing not less than 80% of estimated cost for electrical works). The contractor or the agency he associates with to carry out the electrical work shall have to produce *valid electrical license, valid electrical SCC license, valid trade license, GST, PAN & Completion certificates of works executed during the last seven(7) years ending last day of the September, 2018 justifying eligibility criteria from the competent authority in his name. The validity of the license should remain for the whole tenure of the work. The same should be submitted along with the technical bid.*

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 shall 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 bidders should GST compliant. Tender should be submitted as per the prescribed format within the specified date and time at Office of Civil Construction & Maintenance Section, IIT Kharagpur, and failing to do so, the offer shall be summarily rejected. **Bid Validity period is 120 Days** from submission of bid. Bid will be opened at Civil Construction & Maintenance Section, IIT Kharagpur. **The Institute has the right to reject any tender without assigning any reason thereof.**

A pre-bid meeting will be held on 20.11.2018 at CCM Section, IIT Kharagpur at 03:30 PM.



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

Copy to:

- 1) Registrar
- 2) Chairman, CCM
- 3) Vice Chairman (Civil), CCM
- 4) Superintending Engineer (E&M)
- 5) Sr. Executive Engineer (Civil)
- 6) Sr. Executive Engineer (E&M)
- 7) Executive (CCM)
- 8) Asstt./Jr. Engineer (Civil)
- 9) Notice Board
- 10) 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. 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 *September, 2018*: योग: कर्मसु कौशलम्

- a) 03 similar works each costing not less than 40% of estimated cost for civil works, i.e. **Rs 8,99,016.00** or
- b) 02 similar works each costing not less than 60% of estimated cost for civil works i.e. **Rs.13,48,525.00** or
- c) 01 similar work costing not less than 80% of estimated cost, for civil works i.e. **Rs.17,98,033.00**

Estimated cost for Civil works – Rs 22,47,541.00

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 structure(s).**

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.

The bidders who do not have requisite credential for electrical work must associate with agencies eligible to bid for **Electrical works (₹ 71,170.00)** individually in line with Eligibility Criteria mentioned above (i.e., 3 similar Electrical works each costing not less than 40% of estimated cost for electrical works, or 2 similar Electrical works each costing not less than 60% of estimated cost for electrical works, or 1 similar Electrical work each costing not less than 80% of estimated cost for electrical works). The contractor or the agency he associates with to carry out the electrical work shall have to produce **valid electrical license**, valid trade license, valid electrical SCC license, GST, PAN & Completion certificates of works justifying eligibility criteria from the competent authority in his

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name. The validity of the license should remain for the whole tenure of the work. The same should be submitted along with the technical bid.

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 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.

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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.
15. The bid shall remain valid for a period of **120 Days** from the date of opening of the bid. If before expiry of the validity period or issue of work order, whichever is earlier, the bidder amends / modifies / withdraws his bid, making unacceptable to the institute, then the Earnest Money Deposit shall be liable to forfeiture at the option of the Institute.
16. **The rates quoted by the tenderer should be inclusive of GST**, freight, cost for loading & unloading etc. and must hold good till the completion of work and shall not be subjected to escalation due to increase in local market rates of materials and labour. No claim on this account what so ever shall be entertained at any stage including the extended period, if any.
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. The sealed Bids shall be received by the Institute at Civil Construction and Maintenance Section not later than the time and date stipulated in the Notice Inviting Tender or Corrigenda otherwise. Tenders that are received after the date and time specified will not be considered.
19. The 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).
20. 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).
21. The Institute reserves the right to accept or reject any or all the offer including the lowest without assigning any reason. The Institute does not bind itself to accept the lowest offer.
22. The successful tenderer, shall deposit an amount equal to 5% of the tendered and accepted value of the work as performance guarantee in the form of Demand Draft of a Scheduled Bank in favour of IIT Kharagpur payable at Kharagpur. The time allowed for submission of the performance guarantee shall be 15 days of receiving "Letter of Acceptance" (LOA). This period can be further extended as the written request of the contractor by the Engineer-in-charge for a maximum period ranging from 1 to 15 days with a late fee @ 1.00% per day of Performance Guarantee Amount. If the bidder still fails to deposit the performance guarantee within the extended time period, i.e. within 16th day to 30th day from the issue of letter of acceptance (LOA), his bid will be rejected and treated as cancelled and the entire Earnest Money Deposit shall be forfeited. After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the Contractor, without any interest.
23. Standard Institute payment procedure shall be followed. A sum @ 5% of the gross amount of the bill shall be deducted as Security Deposit from the bill of the contractor. However, Earnest Money shall be adjusted first in the Security Deposit and the rest amount to complete a sum of 5% of gross bill value will be deducted from the contractor's bill. The security deposit of the Contractor shall not be refunded before the expiry of defect liability period after the issue of the certificate final or otherwise, of completion of work, or till the final bill has been prepared and passed whichever is later.

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ADDITIONAL CONDITIONS OF CONTRACT

1. The quantities indicated are approximate and may vary at the time of execution. The Institute will exercise absolute discretion for operating all or some items of the schedule.
2. Contractor has to remove all the debris from the site of execution and dispose them at suitable places shown by the Engineer or his authorised representative at site.
3. Cement used for the work should not be older than two months from the date of manufacture. The contractor should purchase the cement from authorised dealer and submit the test certificates/vouchers prior to execution of the work.
4. All temporary arrangements, staging, working platforms etc. is to be provided by the tenderer at his own expense to the satisfaction of the Engineer-in-Charge. The Institute will not however, be liable to pay any compensation due to accident, injury to the contractor's work men or on 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 **TWELVE** calendar months from the certified date of its completion.
9. The job is to be done as per CPWD specifications Volume I & II, as applicable and provisions made in relevant IS codes must be followed. Wherever these are silent, the construction and completion of works shall conform to sound engineering practice as approved by the Engineer-In-Charge. In case of any dispute arises out of the interpretation of the above, the decision of the Engineer-In-Charge shall be final and binding to the contractor.
10. The bituminous road work shall be carried out by using **bitumen of grade VG30 preferably from IOCL** 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. PRE-BID DISCUSSION:

One pre-bid discussion meeting will be held **on 20.11.2018 at IIT Kharagpur, CCM Section at 15:30 hrs** for clarification of the queries, if any. The intending bidder(s) shall depute their authorized representatives for attending the pre-bid discussion. Intending bidder(s) are also requested to send their queries, if any, through e-mail (email id: skbiswas@adm.iitkgp.ac.in) / postal service **on or before 15.11.2018 by 15:00hrs.** positively. Institute will not be responsible for any postal delay.

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16. Containing original priced offer in the prescribed format as detailed in Schedule of Quantities of the tender document duly signed and stamped. No condition / stipulation shall be provided in the priced offer (Part-II). In case of any deviation / stipulation found in the priced offer, the same shall be considered null and void and the offer is liable to rejected.
17. The right to reject all offer(s) or split up the total requirement and award the contract to one or more than one party if considered necessary or to cancel the Tender rests with IIT Kharagpur.
18. Since the site is an operational department/hall, special arrangements to be made for working without disturbing students/faculty. Working hours may have to be rescheduled accordingly.

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SCOPE OF WORK & TECHNICAL SPECIFICATION

The scope of work includes: *Face lifting and renovation of Experimental Farm office, Aqua Bio-lab & Quality analysis lab of AgFE Dept. and Wind tunnel lab Building of Aerospace Engineering Department at IIT KGP.*

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

SL. NO.	Description of Materials	List of Manufacturers
1	OPC/PPC/PSC	ACC, Birla, Ultratech, , Ambuja
2	White Cement	J.K. Cement,&Birla White
3	Wall Putty	JK / Birla / Sika
4	Lime	Janatacem, Asian Paint
5	Neeru	More (Peacock), Kamal
6	HYSD Bars (TMT Bars)	TISCO, SAIL, RINL
7	Structural Plates and Steel Sections	TISCO, SAIL, RINL, JINDAL
8	Steel light Sections(for grill railing,,door,window frame etc)	SRMB, Shyamsteel,Elegant
9	Pressed steel doors & fire resistant steel doors	Godrej, Windoors, Navair,Shakti,Strategic Building Systems &Kutty Flush Doors
10	Aluminium Extruded Sections	Jindal, Indal, Hindalco &Bhoruka
11	Hardware Fittings & fixtures	Garnish, Diamond, Hardwyn, Godrej, Hettich,Dorma,
12	Anodized Aluminium fittings	Allen / Metco / N.L.C.O.
13	SS Railing Sections	Ozone / D-Line / Jindal
14	Stainless steel D-handles	Godrej, Hettich, D-line, Dorma, Dorset, Ozone
15	Door Locks	Godrej, Dorma
16	Door Closer/Floor spring	Godrej, Ozone, Hettich, Dorma, Hardwyn
17	False Ceiling	Gyprock / Armstrong/Sain Gobain
18	Aluminium Cladding sheets	Alstrong, Alpolic, Alucobond, Alstone International, Aludecor Lamination
19	Colour Coated Steel / Zinc-alu alloy roofing sheets	TATA Bluescope,Jindal,Kirby,
20	Ceramic Tiles	H.R. Johnson (I) Ltd., Somany, Kajaria,Nitco
21	Vitrified Tiles	M/s H.R. Johnson, , Somany, Kajaria,Nitco
22	Cement Based Paint	M/s Snowcem India Ltd. (Super snowcem, Sandex Matt), NITCO (Nitcocom) Paints, Hindustan Colour Chemical, Jayant colour, Surfa coat, Terraco, Berger-Rabiacem, ApporvaBuildcare&Decocem
23	Distemper & Paints	Asian Paints, ICI Paints, , Berger Paints India Ltd.
24	Anti-corrosive water proofing paint with Aluminium finish	SIKA ,Shalimar
25	Waterproofing Compound, Sealants	Sunanda Chemicals, Mc-Bauchemie, FOSROC, Pidilite, Roffe, BASF, Sika
26	Adhesive for wood	Fevicol, Vamicol, Dunlop, Araldite
27	Water stops	M/s Omai Plastics, BaseconPask, Asian Engineering Products, Caprihans India Ltd., R.C. Enterprises, Kanta Polymers (Kanta flex) &Fixopan
28	APP Membrane	SIKA / PIDILITE / FOSROC / TIKIDAN
29	Expansion Joint Boards &Tarfelts	M/s Shalitek, S.T.P. Ltd., Lloyd Insulation, Tiki Tar Industries
30	Expansion Joint Filters	M/s Shalitek, S.T.P. Ltd., Lloyd Insulation & BASF Chemicals
31	Concrete Admixtures	Sunanda Chemicals, Mc-Bauchemie, FOSROC, Pidilite, Roffe, BASF
32	Bitumen (grade VG30)	IOCL
33	P.V.C. Shutters	Sintex / Raunaq / Duroplast
34	P.V.C. Pipes	Oriplast / Supreme / Finolex
35	P.V.C. Cistern	Parryware / Hindware / Cera

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Face lifting and renovation of Experimental Farm office, Aqua Bio-lab & Quality analysis lab of AgFE Dept. and Wind tunnel lab Building of Aerospace Engineering Department at IIT KGP."

36	P.VC. Closet Seat Cover	Parryware / Hindware / Cera / Prayag
37	P.V.C. Connector Pipe	Prayag
38	P.V.C. Ball Cock	Prayag
39	P.V.C. Bib Cock / Stop Cock/ Angular Stop Cock / Pillar Cock	Prayag
40	P.V.C. Waste & Sanitary Fittings	Prayag
41	Polycarbonate Sheets	GE / Macrolux / Polytechno / Danpalon
42	UPVC Doors / Windows	Fenesta, Aluplast, Lingel, Shuco, Winpro, Rehau
43	Ply Wood	Kitply, Greenply, Century Plywood
44	Flush Door	Green Ply, Century Ply, Kitply
45	Pre Laminated & Plain Particle Boards	NOVAPAN, Anchor
46	Glass for Doors / Windows	Modi Guard, Saint Gobain, Asahi
47	Plain Glass Mirror	M/s Modi Float Glass, , Saint Gobain, Asahi, Jaquar
48	Sanitary Wares	M/s Parryware, Hindware, Cera,
49	C.P. Brass Fittings & Fixtures	GEM, Techno, Lalsons KINGSTON, JAGUAR, Metro, ESSCO, MARC
50	C.P. Brass Coupling and Bottle Trap	ESSCO, GEM, Kingston, Jaguar, Metro, Marc
51	C.I. Flushing Cistern	Mis A-1 (J.S.), HJN, JAMCO, Neco, HIF
52	C.I. Pipe & Fittings	NECO / BIC / D.N.Sinha / AMC / ALC
53	Gun Metal Wheel Valve	Zoloto / Alto / Leader
54	C.P. BRASS Urinal Waste & Flush pipes	Orient, PARKO, Elite, Jaguar & Metro
55	Plastic Sheet & Cover	M/s Commander, Diplomat, Admiral, Patel, Champion, Parryware & Hindware
56	S.S. Sink	Diamond, Niraii, Parryware / Cera
57	G.I. Pipes	TATA, Jindal
58	G.I. Fittings	HB / R
59	G.M. Gate / Globe Valves	Nets, SANT, M/s Leader Valves, Zoloto
60	CPVC, UPVC, SWR Pipes	Finolex, Prince & Supreme

Note: For items not covered in the above list or in case of non-availability of preferred make of any item listed above, the make / brand to be used in the work, should have prior approval from the Engineer-In-Charge.

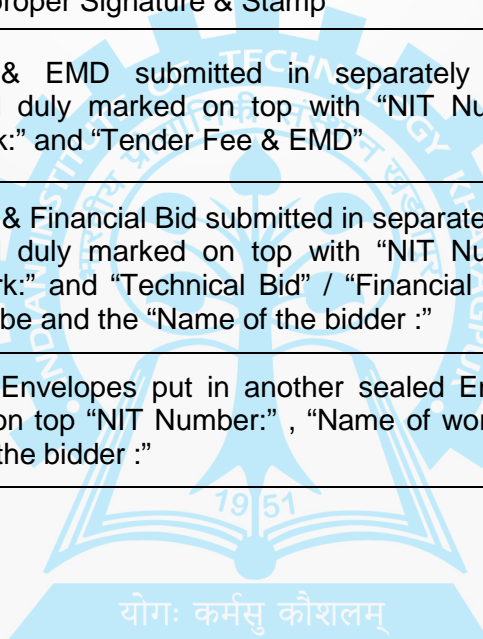
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CHECK LIST FOR TENDER SUBMISSION (TWO BID)

(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 "Face lifting and renovation of Experimental Farm office, Aqua Bio-lab & Quality analysis lab of AgFE Dept. and Wind tunnel lab Building of Aerospace Engineering Department at IIT KGP."



INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR, WEST BENGAL

TENDER DOCUMENT FOR

Face lifting and renovation of Experimental Farm office, Aqua Bio-lab & Quality analysis lab of AgFE Dept. and Wind tunnel lab Building of Aerospace Engineering Department at IIT KGP.

PART – II: FINANCIAL BID

NOTICE INVITING TENDER NO. : SE(C)/IIT/TEN/2018-19/079

DATED : 06.11.2018

October 2018

Last Date & Time of Submission: 27.11.2018 upto 03:00 PM

CIVIL CONSTRUCTION & MAINTENANCE SECTION
IIT, KHARAGPUR,
WEST BENGAL

SUPERINTENDING ENGINEER (CIVIL)
IIT KHARAGPUR

Name and Address of Bidder: M/S.

.....

.....

.....

.....

CCM Tender Sl. No. _____

Dated _____

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Face lifting and renovation of Experimental Farm office, Aqua Bio-lab & Quality analysis lab of AgFE Dept. and Wind tunnel lab Building of Aerospace Engineering Department at IIT KGP."

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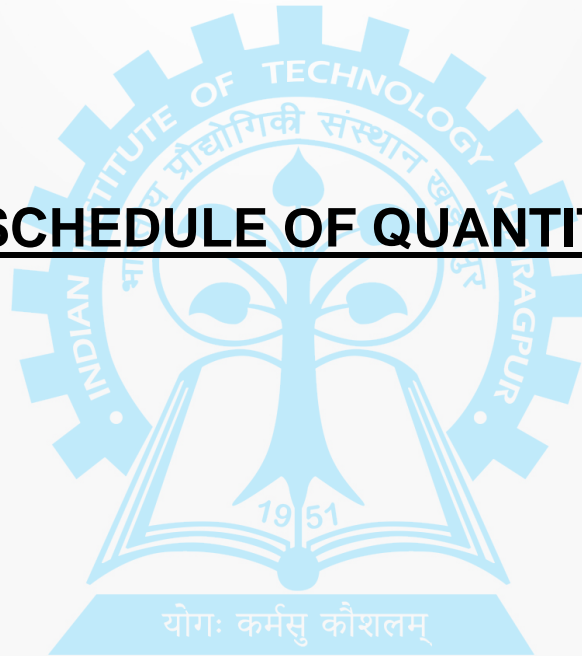


INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Tender Document for "Face lifting and renovation of Experimental Farm office, Aqua Bio-lab & Quality analysis lab of AgFE Dept. and Wind tunnel lab Building of Aerospace Engineering Department at IIT KGP."



SCHEDULE OF QUANTITIES



**CIVIL CONSTRUCTION AND MAINTENANCE SECTION
IIT KHARAGPUR**

Name of Work: Face lifting and renovation of Experimental Farm office, Aqua Biolab & quality analysis lab of AgFE Dept and Wind Tunnel lab. building of Aerospace Engineering Dept at IIT Kharagpur.

SCHEDULE OF RATES

Sl. No.	Description of items	Unit	Qty	Rate (Rs)	Total Amount(Rs.)
1	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	850.00	27.01	22958.50
2	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	cum	65.00	145.37	9449.05
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to any level.				
	(ii) 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size).	cum	40.00	6610.68	264427.20
4	Half brick masonry with non modular fly ash bricks of class designation 10, conforming to IS :12894, in super structure above plinth and upto floor V level. Cement mortar 1 : 4 (1 cement : 4 coarse sand)	sqm	110.00	927.94	102073.40
5	Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In- Charge.	sqm	721.00	444.86	320744.06
6	(ii) 15 mm cement plaster on rough side of single or half brick wall of mix:1:6 (1 cement: 6 sand)	sqm	850.00	223.33	189830.50
7	(i) Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	sqm	100.00	898.15	89815.00
8	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	5.00	796.14	3980.68
9	(i) Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm.	sqm	90.00	1349.88	121489.20
10	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty. a) Float glass panes of thickness 4 mm.	sqm	30.00	769.24	23077.20
11	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment). Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	kg	614.40	136.99	84166.66
12	Applying 2 coats of bonding agent with synthetic multi functional rubber emulsion having adhesive and water proofing properties by mixing with water in proportion (1 bonding agent : 4 water : 6 cement) as per Manufacturer's specification in any floor complete in all respect (External & Internal).	Sqm	845.00	104.88	88623.60
13	MS or W.I. Ornamental grill of approved design and any weight joints continuously welded with M.S. W.I Flats and bars of windows, railing etc. fitted and fixed with necessary screws and lugs as per direction of engineer-in-charge in any floor complete in all respect.	Kg	614.40	83.97	51591.17

Sl. No.	Description of items	Unit	Qty	Rate (Rs)	Total Amount(Rs.)
14	Repairing steel window by welding including supplying all materials like hinges, legs, handle plates etc. whatever required for repairing with hire welding set different floor including scaffolding necessary for the work (including the cost of serviers connection charge for the welding) in any floor complete in all respect.	Each	16.00	220.00	3520.00
15	Dismantling artificial stone flooring upto 50 mm. thick by carefully chiselling without damaging the base and removing rubbishes directed within a lead of 75 m. In ground floor including roof	Sq.M.	90.00	59.59	5363.10
16	Hydraulic door closer of approved quality as per I.S.I. standard fitted and fixed complete.				
	a) Heavy type (I.S.I. size 3)	Each	5.00	1984.35	9921.75
17	Supply of Labour - Mazdoor (Male)	Each	15.00	321.19	4817.85
18	Supply of Carpenter (ordinary)	Each	15.00	388.05	5820.75
19	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore	each	3.00	593.97	1781.90
20	Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.	each	5.00	70.06	350.31
21	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. INTERNAL WORK - EXPOSED ON WALL				
	a) 15 mm nominal outer dia Pipes	metre	30.00	172.38	5171.50
	b) 20 mm nominal outer dia Pipes	metre	30.00	217.00	6510.05
22	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe 32 mm dia	each	3.00	88.33	265.00
23	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	each	2.00	2771.82	5543.64
24	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required : Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	each	2.00	7461.39	14922.77
25	Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied@ 2.20 kg/10 sqm)	Sq.M	945.00	115.83	109456.23
26	Distempering with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.Two or more coats on new work	Sq.M	300.00	59.87	17961.88
27	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :Water thinnable cement primer	Sq.M	220.00	44.56	9802.76
28	Removing existing treatment such as old terfelt etc thoroughly the surface using blower etc. and Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ litre and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/ 450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane :3 mm thick.	Sqm	560.00	502.98	281668.80
29	Dismantling doors, windows and clerestory windows (steel or wood) shutter including frame, chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead.				
	(i) Of area 3 sq. metres and below.	each	8.00	190.35	1522.80

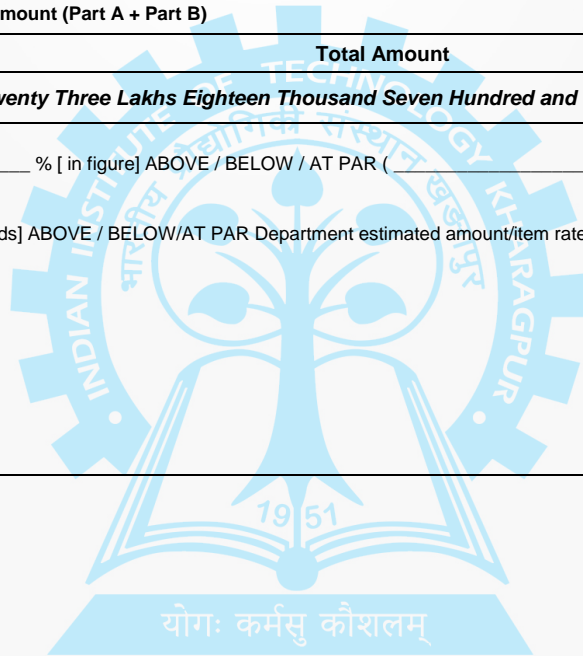
Sl. No.	Description of items	Unit	Qty	Rate (Rs)	Total Amount(Rs.)
30	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).Sal wood.	cum	0.10	102968.12	10296.81
31	Taking out existing wooden door shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge.	each	8.00	212.72	1701.76
32	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
	(i) Single tee with door,110x110x110 mm.	each	1.00	218.93	218.93
	(ii) Single tee without door,110x110x110 mm.	each	8.00	202.11	1616.88
	(iii) Bend 87.5°,110 mm bend.	each	10.00	136.39	1363.90
	(iv) Shoe (Plain),110 mm Shoe.	each	8.00	118.18	945.44
33	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.110 mm diameter.	metre	30.00	285.01	8550.30
34	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.All kinds of soil	Cum.	2.00	151.88	303.76
35	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : b) 1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size).	Cum	1.00	5941.47	5941.47
36	Supplying and filling in plinth with sand under floors, including watering,ramming, consolidating and dressing complete.	Cum.	1.00	1106.71	1106.71
37	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.40 mm thick with 20 mm nominal size stone aggregate	Sq.M	22.00	437.26	9619.72
38	Neat cement punning.	Sq.M	20.00	51.37	1027.40
39	Applying priming coat: With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	Sqm.	35.00	42.15	1475.25
40	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	Sqm.	22.00	35.09	771.98
41	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	Sqm.	57.00	94.54	5388.78
42	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :25 mm thick	Sqm	18.00	1396.55	25137.90
43	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. (i) Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix).	cum	1.50	1202.34	1803.51
44	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in-charge.	cum	13.00	1754.04	22802.52
45	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.In cement mortar.	cum	2.00	1016.27	2032.54
46	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. (i) For thickness of tiles 10 mm to 25 mm.	sqm	130.00	38.05	4946.50
47	(ii) Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	cum	12.00	8617.12	103405.44
48	Centering and shuttering including strutting, propping etc. and removal of form for all heights.				

Sl. No.	Description of items	Unit	Qty	Rate (Rs)	Total Amount(Rs.)
	(iii) Suspended floors, roofs, landings, balconies and access platform,shelves (Cast in situ).	sqm	20.00	509.25	10185.00
49	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	sqm	10.00	1880.90	18809.00
50	Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete : (i) 100x58x1.90 mm.	each	15.00	33.04	495.60
51	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :250x16 mm.	each	6.00	171.30	1027.80
52	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete : (i)150x10 mm	each	5.00	53.18	265.90
53	Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.250 mm weighing not less than 150 gms.	each	8.00	32.38	259.04
54	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :250x16 mm.	each	6.00	228.16	1368.96
55	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete.100x10 mm	each	20.00	59.33	1186.60
56	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :100 mm	each	25.00	54.39	1359.75
57	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.Twin rubber stopper	each	5.00	45.82	229.10
58	Providing and fixing flat pressed 3 layer particle board medium density exterior grade (Grade I) or graded wood particle board IS : 3087 marked, to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately): (i) 12 mm thick.	sqm	5.00	653.66	3268.30
59	Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	sqm	8.00	89.66	717.28
60	Easing door and windows in any floor complete in all respect.	Each	5.00	20.26	101.30
61	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	kg	50.00	428.34	21417.00
62	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge.				
	Pre-laminated particle board with decorative lamination on both sides	sqm	3.00	1045.03	3135.09

Sl. No.	Description of items	Unit	Qty	Rate (Rs)	Total Amount(Rs.)
63	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.				
	12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.	sqm	50.00	1197.64	59882.00
64	Taking out existing partition/ceiling of particle board, masonite board, ply board, soft board etc. of any thickness and refixing same in new position with necessary clamps making holes in walls, floor, roof and mending damages if any. [concrete plaster will be paid separately]	Sqm.	20.00	65.55	1311.00
65	Taking out M.S. or W.I. Grills from wooden frame including cutting lungs from masonry wall and refitting the same and mending good damages after repairs. (Excluding the cost of necessary repair of damages) or doing any other necessary works.	Each	5.00	117.99	589.95
66	False-ceiling Work a) Supplying fitting & fixing concealed of False ceiling Framework with G.I. Section (perimeter channels having one flange of 20 mm. and another flange of 30 mm. with thickness of 0.55 mm. and web of length 27 mm., along the perimeter of the ceiling, screws fixed to the wall with help of nylon sleeves or PVC dash fasteners @ 610 mm c/c. then suspend G.I. intermediate 'C' section with web 90 mm. and flanges of 15 mm. each from soffit @ 1200 mm c/c with ceiling angle of size 25 mm. X 10 mm. X 0.55 mm. fixed to soffit G.I. Cleat and Steel expansion fasteners. Ceiling section of 0.55 mm. thickness having web of 51.5 mm. and two flanges of 26 mm. each with lips of 10.55 mm., are then fixed on to the intermediate channel with the help of connecting clips in the direction perpendicular to the intermediate channel @ 610 mm c/c) with fully threaded fiber cement screws @ 300 mm c/c. All complete as per the drawing and direction of Engineer-in-Charge. Section specification :- Perimeter Channel :- 30 mm X 20 mm X 27 mm, thickness 0.55 mm (min), Intermediate Channel :- 15 mm X 90 mm, thickness 0.90 mm (min), Ceiling Section :- 51.5 mm X 26 mm X 10.55 mm, thickness 0.55 mm (min), Ceiling Angle :- 25 mm X 10 mm, thickness 0.55 mm (min).	Sqm	50.00	418.32	20916.00
67	d) Supplying, fitting & fixing Eco-friendly, Moisture Resistance and Incombustible Gypsum plaster board/tiles (Density >700Kg per Cu. M.) conforming to IS 2095- Part 1, 2011 of size 595mm X595mm of approved design and brand placed in the Grid module to form a false ceiling. All complete as per drawing & direction of Engineer - in- Charge. False ceiling with 12.5mm thick Square edged Gypsum Plaster Board/tiles of 2' x 2' (For Exposed False Ceiling Work).	Sqm	50.00	462.42	23121.00
68	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	each	1.00	4213.66	4213.66
69	Renewal of old putty of glass panes (length)	metre	85.00	30.69	2608.65

Sl. No.	Description of items	Unit	Qty	Rate (Rs)	Total Amount(Rs.)
70	Refixing old glass panes with putty and nails	Sq.M	10.00	398.85	3988.50
Total for Civil works					2247541.29
Part A				Say Rs	2247541.00
Electrical Works (Part-B)					
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 grade,FRLS type Finolex/Havells/RR Kable/Polycab PVC Pipe: (Medium gauge) Precision/Presto Plast/AKG Crabtree(Verona),Legrand(Myrius),MK(Wraparound plus) Switch,Socket,Blank plate:				
a)	Upto 6 mtrs.	no	23	548.00	12604.00
b)	Above 6 mtrs.	no	4	615.00	2460.00
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 grade,FRLS type Finolex/Havells/RR Kable/Polycab PVC Pipe: (Medium gauge) Precision/Presto Plast/AKG				
a)	2X2.5 sq.mm+1x 2.5 sq.mm earth wire	mtr	80	137.00	10960.00
b)	2X4.0 sq.mm+1x 4.0 sq.mm earth wire	mtr	120	162.00	19440.00
3	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 Verona/Legrand(Myrius)/MK (wraparound plus)				
a)	6M	no	21	258.00	5418.00
4	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. Modular Switch/Socket/Regulator: Legrand (Myrius)/Crabtree Verona/MK (wraparound plus)				
a)	5/6 amps switch	no	21	84.00	1764.00
b)	15/16 amps switch with indicator	no	21	114.00	2394.00
c)	3pin 5/6 amps socket	no	21	81.00	1701.00
d)	6pin 15/16 amps socket	no	21	153.00	3213.00
5	Supplying and fixing of modular plate type 11-18A motor starter unit complete with 25A DP MCB and 20A plug socket flushed in wall with earthing attachment for Split/Window Air conditioner. Make:- North West	no	2	1243.00	2486.00
6	Installation, testing and commissioning of pre-wired, 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	17	100.00	1700.00
7	Fixing only ceiling fan complete with blades,canopy,fork,subber bush etc.incl. S&Fconnecting wire for down rod upto 30cm incl. Painting the rod with approved paint and making necessary connection as required by 2x 1.5 sq. Mm. Flexible wire.(Fan deptt. supply)	no	6	66.00	396.00
8	Supplying and fixing of two module stepped type Electronic fan regulator of 450w Make:- Crabtree/Legrand(Myrius)/MK(Wraparound plus) Model:- cat no-ACRFW005, Crabtree	no	6	288.00	1728.00

Sl. No.	Description of items	Unit	Qty	Rate (Rs)	Total Amount(Rs.)
9	Fixing only outdoor light fitting complete with all accessories to be fixed/projected from the wall of the building incl. making holes/providing clamping arrangement & necy.GI reducer as required.S&F 40 mm GI pipe(ISE, Medium) quality1.5 mtrs. Average length having suitable bend S&F necy. length of 1.5sq.mm FRLS insulated single core stranded annealed copper wire and making connections as required and mrding good damages to wall incl. painting etc. G.I. pipe:- Medium gauge TATA/BANSAL/JINDAL	no	4	807.00	3228.00
10	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.(Cable deptt supply)				
a)	Upto 35 sq. mm.	mtr	60	25.00	1500.00
11	Fixing only SPN,DB(4 to 16 way) on flat iron frame on wall.	no	1	178.00	178.00
Total for Electrical Works (Part-B)					71170.00
Note:- All materials to be used before prior approval of Engineer -in -charge.					
Total Amount (Part A + Part B)					2318711.00
Total Amount					Rs 23,18,711.00
(Rupees Twenty Three Lakhs Eighteen Thousand Seven Hundred and Eleven Only)					
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 "Face lifting and renovation of Experimental Farm office, Aqua Bio-lab & Quality analysis lab of AgFE Dept. and Wind tunnel lab Building of Aerospace Engineering Department at IIT KGP."

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: _____
