



INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR  
KHARAGPUR, WEST BENGAL 721302

TENDER DOCUMENT

*for*

Repair/Renovation & Face Lifting of Technology Aquatic  
Society at IIT Kharagpur.

NIT No. IW/CE/NIT/1819/102

Tender Serial No. \_\_\_\_\_ Issued to:

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## 1. NOTICE INVITING TENDER

### 1.1. INTRODUCTION

Indian Institute of Technology (IIT) Kharagpur, hereinafter called IITKGP, invites sealed tenders from the eligible contractors for Repair/Renovation & Face Lifting of Technology Aquatic Society at IIT Kharagpur. Particulars of the project are as following.

### 1.2. PARTICULARS

1.NIT Number	NIT No. IW/CE/NIT/1819/102
2.Name of Work	Repair/Renovation & Face Lifting of Technology Aquatic Society at IIT Kharagpur.
3.Location of Work	Technology Aquatic Society, IIT Kharagpur.
4.Estimated Cost (including GST)	₹ 54,12,897/- (Rupees Fifty Four Lakhs Twelve Thousand Eight Hundred and Ninety Seven Only)
5.Earnest Money Deposit	₹ 1,08,260 /- (One Lakh Eight Thousand Two Hundred and Sixty Only)
6.Time Limit for Execution	120 days from Date of Start
7.Tender Fee	₹ 1,000/- (Non-refundable)
8.Tender Basis and Mode	Two stage (Technical Bid & Financial Bid)
9.Mode of Payment to IITKGP (Tender Fee & EMD)	Demand Draft / Pay order in favour of IIT Kharagpur payable at Kharagpur.
10.Date, Time & Venue of Pre-bid Meeting	14 Feb 2019, 15:00hrs, CCM Meeting Room, 1 <sup>st</sup> Fl, Old Bldg., IIT Kharagpur, Kharagpur-721302
11.Closing Date & Time for Receipt of bids	21 Feb 2019 up to 15:00hrs
12.Date& Time for Opening of Technical Bid	21 Feb 2019 at 15:30hrs
13.Date& Time for Opening of Price Bid	To be intimated to the eligible bidders subsequently.
14. Engineer(s)-in-charge and contact details.	<b>For Civil Works:</b> Mr. A. Mukherjee, Executive Engineer (Civil), Tel: 03222-82582 , 9434968062 Email: <a href="mailto:arindam@adm.iitkgp.ac.in">arindam@adm.iitkgp.ac.in</a> <b>For Electrical:</b> Mr. Mahesh Kumar Email: <a href="mailto:maheshkr@hiji.iitkgp.ernet.in">maheshkr@hiji.iitkgp.ernet.in</a> Tel No. 03222-282542, Mobile No. 9800642878
15. Address for tender issue, submission and opening	Office of the Superintending Engineer(Civil), 1 <sup>st</sup> Floor, Old Building, IIT Kharagpur, Kharagpur WB 721302
16.Website for full and updated information	<a href="https://eprocure.gov.in/cppp/tendersearch;">https://eprocure.gov.in/cppp/tendersearch;</a> <a href="http://www1.iitkgp.ac.in/topfiles/tenders.php">http://www1.iitkgp.ac.in/topfiles/tenders.php</a>



### 1.3. ELIGIBILITY CRITERIA

- 1.3.1. The bidder must be registered in appropriate class of works with Government organization like CPWD/ PWD/ MES or PSUs or those having experience in similar nature of works awarded by Government / Semi Government Organizations/ Government Funded Autonomous Organization.
- 1.3.2. The bidder must have done at least 1 (ONE) similar work of value of 80% of the estimated cost **or** 2 (TWO) similar works for projects each of value 60% of the estimated cost **or** 3 (THREE) similar work for projects each of value 40% of the estimated cost with Government/ Semi-government/ PSU/ Government Funded Autonomous Organization during last **7 (seven) years** preceding last date of the month of tender submission.

**Note:**

- (i) The estimated cost is ₹ 54,12,897/- (Rupees Fifty Four Lakhs Twelve Thousand Eight Hundred and Ninety Seven Only)
- (ii) 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 the last date of receipt of applications for tender.
- (iii) **Similar works shall mean:** Repair & Renovation/ Construction of Building / Other civil structures including electrical work experience.
- 1.3.3. The bidder must be registered with appropriate government authority as a bonafide business entity and must have GST registration certificate and Permanent Account Number of income tax.
- 1.3.4. Electrical work shall be executed by selected bidder through agency holding electrical license and electrical supervisor license valid during the execution phase.
- 1.3.5. The registrations and licenses should be valid during the execution phase.
- 1.3.6. Average annual turnover of the bidder as per ITCC or profit & loss statement shall not be less than 30% of the estimated cost, not having incurred loss in more than two years, during last 5 years ending 31 Mar 2018.
- 1.3.7. Bidder must hold solvency certificate from any scheduled banks for a minimum value of 40% of the estimated cost, issued not earlier than 6 (six) months from the last date of submission.

Sd/-

Chief Engineer

On behalf of the **Director, Indian Institute of Technology Kharagpur**

**Copy to:**

- 1) Registrar
- 2) SE (E&M/Civil)
- 3) Senior Executive Engineer (Civil/ E&M)
- 4) Executive Engineer (Civil/ E&M)
- 5) Executive (CCM/ E&M)
- 6) Assistant / Junior Engineer (Civil/ E&M)
- 7) Notice Board
- 8) Office file



## 2. INFORMATION TO BIDDERS

### 2.1. SCOPE OF WORK

- 2.1.1. The IITKGP intends to Repair/Renovation & Face Lifting of Technology Aquatic Society at IIT Kharagpur. The work consists of comprehensive repair, renovation and modification of existing civil ,plumbing sanitary and electrical systems
- 2.1.2. Constraint: The job needs to be executed adjacent to busy office/Tech. Aquatic society area without causing any disturbances to the normal functioning of offices & swimming pool.
- 2.1.3. The vendor shall work out execution sequence and methodology so as to complete the project within the envisaged time and the estimated cost, duly handling the constraint mentioned above.

### 2.2. GENERAL INSTRUCTIONS

- 2.2.1. Bidding documents are to be obtained electronically through websites: <https://eprocure.gov.in/cppp/tendersearch>; <http://www1.iitkgp.ac.in/topfiles/tenders.php>. The tender fee in the prescribed mode must accompany the tender documents issued electronically at the time of submission.
- 2.2.2. This bid document shall be read in conjunction with GCC (General Conditions of Contract) available on <http://www1.iitkgp.ac.in/topfiles/tenders.php>.
- 2.2.3. The bidder 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. Access to the site will be granted by the Engineer-in-charge on all working days within working hours.
- 2.2.4. IITKGP shall not provide any space at site for labour hutments.
- 2.2.5. All clarifications about the tender shall be sought by bidder on or before pre-bid meeting. The bidders may make suggestions which shall be considered during the Pre Bid Meeting. Intending bidder(s) may also send their queries or suggestion, if any, through e-mail to the Engineer-in-charge on [arindam@adm.iitkgp.ac.in](mailto:arindam@adm.iitkgp.ac.in) and [maheshkr@hijli.iitkgp.ac.in](mailto:maheshkr@hijli.iitkgp.ac.in) on or before **14 Feb 2019 3.00 PM**. No queries shall be entertained after notification of replies to noteworthy queries received till the date of pre-bid meeting.
- 2.2.6. 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.
- 2.2.7. The bidding 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), Corrigenda, Clarifications to Pre-bid queries can be downloaded from the websites: <https://eprocure.gov.in/cppp/tendersearch>; <http://www1.iitkgp.ac.in/topfiles/tenders.php>. Corrigenda, if any shall be published only on these websites. The institute shall not be responsible for any delay / difficulties / inaccessibility of downloading facility for any reason whatsoever.
- 2.2.8. All costs, charges & expenses that may be incurred by the bidder in connection with the preparation of his tender shall be borne by him and the Institute accepts no liability whatsoever therefore.
- 2.2.9. Rates quoted by the bidders shall be inclusive of GST (Goods and Services Tax - Central, State and Interstate) and all applicable taxes. Income Tax and all other statutory deductions like labour cess etc. will be deducted from the bill as per prevailing rules.
- 2.2.10. Exemption to IITKGP against any tax/ duty/ fee/ surcharge/ charge/ cost, if any, found applicable or sought later from IITKGP after award shall be passed on to IITKGP by the contractor without dispute.
- 2.2.11. IITKGP reserves the right to reject any or all of the bids without assigning any reason.
- 2.2.12. **Bid Validity:** Bid shall remain valid for 120 days from the date of submission.
- 2.2.13. **Firm Price:** Bidder's quoted Rates/Prices for executing the activities under the Contract shall remain firm till completion of the entire work & shall not attract any escalation under any circumstances whatsoever.



- 2.2.14. If any information furnished by the bidder is found as false / fabricated, then his bid will be rejected and treated as cancelled. Even if such manipulation is detected at any stage after signing of the contract, it would lead to termination of the contract besides forfeiture of Earnest Money Deposit and liabilities towards prosecution. In such cases the bidder will be debarred from participation in future tendering process in IITKGP for next 05 (Five) years.
- 2.2.15. **Earnest Money Deposit (EMD)** of requisite amount and that in prescribed mode or proof of payment thereof shall be enclosed with the Technical Bid explained in following section.
- 2.2.16. **Refund / Conversion of Earnest Money Deposit:** The Earnest Money received shall be refunded to the unsuccessful bidders without any interest upon executing the Contract Agreement by successful bidder. The Earnest Money Deposit of successful bidder shall be retained and converted into part of Security Deposit.
- 2.2.17. **Forfeiture of Earnest Money Deposit:** Earnest Money Deposit will be forfeited in any of the following cases:
- The bidder withdraws / modifies his tender during the period of Bid Validity.
  - The bidder, in case of tie between lowest bids, refuse to submit revised offer.
  - The bidder does not accept the correction of arithmetical errors of his tender.
  - The bidder fails to deposit Performance Guarantee and information as per format given in GCC within the stipulated time period before award of the work.

### 2.3. SUBMISSION OF TENDER

- 2.3.1. The sealed tenders shall be received at the Office of the Superintending Engineer(Civil), 1st Floor, Old Building, IIT Kharagpur, Kharagpur WB 721302, up to 15:00hrs, **21 Feb 2019** or Corrigenda otherwise.
- 2.3.2. Tenders received after the due date and time shall not be considered.
- 2.3.3. Tenders shall be submitted in a sealed Master envelope super scribed "**Repair/ Renovation & Face Lifting of Technology Aquatic Society at IIT Kharagpur**" with the **NIT No. IW/CE/NIT/1819/102**, containing three separate sealed covers, each clearly super scribed as "**Tender Fee and EMD**", "**Technical Bid**" and "**Financial Bid**" respectively, in the following manner:

#### 2.3.4. Envelope-1 (Tender FEE & EMD) will consist of:

- Tender Fee for ₹ 1,000/- (Non-refundable), in the prescribed mode or proof of payment thereof.**
- Earnest Money Deposit** of requisite amount, in the prescribed mode or proof of payment thereof.

2.3.5. Tender without payment of Earnest Money Deposit would be summarily rejected.

#### 2.3.6. Envelope-2 (Technical Bid) will consist of:

- Covering letter of the offer signed by firm's authorized signatory.
- Documents establishing the identity and authenticity of the bidder/ bidding firm
- Self-certified copies of all the documents in support of eligibility of bidder.

2.3.7. **Envelope-3 (Financial Bid)** will consist of the complete tender document, each page duly signed and stamped by the bidder as acceptance of the conditions, Declaration by Bidder and **Financial Bid** all duly filled-in, signed by the bidder or his/her authorized signatory and stamped.

### 2.4. EVALUATION OF BIDS AND AWARD OF WORK

- 2.4.1. The Bid of bidder will be opened on the specified date and time of opening at the Office of the Superintending Engineer(Civil), 1st Floor, Old Building, IIT Kharagpur, Kharagpur WB 721302 in the presence of willing bidders or their authorized representatives.
- 2.4.2. Date, time and place of opening of Financial Bid will be informed after evaluation of Technical Bid to the Technically Qualified Bidders.
- 2.4.3. Bids shall, first, be checked for payment of **Tender Fee** and **Earnest Money Deposit**. Only those bids found to have duly paid/ submitted Tender Fee and Earnest Money Deposit shall be considered for evaluation.



- 2.4.4. Evaluation of **Technical Bid**: The bids received will then be assessed on the eligibility criteria mentioned at para 1.3 of Notice Inviting Tender. Bids found not meeting the eligibility criteria shall be considered non-responsive and shall be rejected summarily.
- 2.4.5. IITKGP retains the right to revert back to individual bidders for further clarifications / queries on the Technical Bid. The bidder has to respond to the queries within the specified time mentioned in the covering letter.
- 2.4.6. The financial bids or the Revised financial bid as the case may be will be opened on specified date and time which will be intimated to selected bidders.
- 2.4.7. **EVALUATION OF Financial Bids**: The Financial Bid should contain the complete bid document with duly filled in Schedule of Financial Quote. Financial Bids opened as above will be checked for arithmetical errors.
- 2.4.8. The successful bidder shall be issued Letter of Acceptance (LOA) of the bid, and be required to furnish a Performance Guarantee as per General Conditions of Contract, Program Schedule with specific Milestones to be achieved as to complete the work within the stipulated time limit and details of his Technical Staff to be deployed as per ANNEXURE-I
- 2.4.9. **Letter of Award (Work Order)** shall be issued to the successful bidder only after receipt of the Performance Guarantee, along with Program Schedule and the details of Technical Staff to be deployed for the work.
- 2.4.10. **Agreement (Contract)** consisting of complete tender document including conditions, bill of quantities, technical proposal and specialized services, drawings, if any, and acceptance thereof together with any correspondence leading thereto, shall be drawn and signed with the awardee after issue of Work Order.
- 2.4.11. **Date of commencement** of work shall be reckoned from 10<sup>th</sup> day from the date of issue of "Letter of Acceptance".



### 3. UNDERTAKING BY THE BIDDER

#### U N D E R T A K I N G

I / We have read and examined the Tender document including terms & conditions, specifications, bill of quantities, drawings and designs, general rules & directions, General Conditions of Contract and all relevant other documents, publications and rules referred to in the Conditions of Contract and all other contents in the tender documents for the work.

I / We, hereby tender for execution of the work specified for the Indian Institute of Technology Kharagpur within the time specified and in accordance in all respects with the specifications, designs, drawings and instructions in writing.

I/ We agree to keep the tender open for 120 days from the last date of its submission and not to make any modifications in its terms and conditions. A sum of Rs. \_\_\_\_\_ has been deposited in cash/ demand draft of a scheduled bank as earnest money. If I / we, fail to furnish the prescribed performance guarantee within prescribed period, I / we agree that the Director, Indian Institute of Technology Kharagpur or his authorized officer shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I / we fail to commence work as specified, I / we agree that the Director, Indian Institute of Technology Kharagpur shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein.

Further, I / We agree that in case of forfeiture of earnest money or both Earnest Money & Performance Guarantee as aforesaid, I / We shall be debarred for participation in the re-tendering process of the work.

I / We hereby declare that I / We shall treat the tender documents, drawings and other records connected with the work as secret / confidential documents and shall not communicate information derived there-from to any person other than a person to whom I / We am / are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Seal & Signature of Contractor

Postal Address

Dated

Witness

Address

Occupation

## ANNEXURE-I

**TECHNICAL STAFF OF CONTRACTOR**

DISCIPLINE	NAME	QUALIFICATION	EXPERIENCE	CONTACT NUMBER
Overall Project In-charge				
Engineer - Structure and Civil Works				
Engineer – Electrical & Mechanical Works				
In-charge - Safety, Health & Environment				

Seal &amp; Signature of Contractor



**INSTITUTE WORKS SECTION**  
**CIVIL CONSTRUCTION AND MAINTANANCE SECTION**  
**IIT KHARAGPUR**

**Name of Work:Repair/ renovation, and face lifting of Technology Aquatic Society at IIT KGP.**

**SCHEDULE OF RATES**

Sl. No.	Description of items	Unit	Qty	Rate(Rs.)	Amount (Rs.)
	<b>PART - A : CIVIL WORKS</b>				
1	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	47.00	1 202.34	56 509.98
2	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	2.00	1 754.04	3 508.08
3	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	10.00	1 016.27	10 162.70
4	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	11.00	190.35	2 093.85
5	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	1925.00	38.05	73 246.25
6	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	60.00	27.01	1 620.60
7	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	125.00	145.37	18 171.25
8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to any level.				
	(i)1:3:6 (1 Cement : 3 coarse sand (zone-III):6 graded stone aggregate 40 mm nominal size).	cum	20.00	5 805.87	1 16 117.40
9	Extra for addition of synthetic Polyester triangular fibre of length 12mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40 in cement concrete/RCC/Flooring/water retaining structures by using Per Bag of 125gms of synthetic Polyester triangular fibre for 50 Kg cement used 50 Kg of as per directions of Engineer-in-Charge.	Per Bag of 50 Kg of cement	6.00	63.91	383.46

Sl. No.	Description of items	Unit	Qty	Rate(Rs.)	Amount (Rs.)
10	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge. With cement mortar 1:4 (1cement: 4 coarse sand)	sqm	60.00	331.38	19 882.80
11	(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	70.00	898.15	62 870.50
	(ii) Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	sqm	60.00	830.08	49 804.80
12	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	60.00	105.34	6 320.40
13	Applying one coat of exterior primer of approved brand and manufacture on wall surface @ 2.2 kg /10 sqm.	Sqm	1985.00	32.68	64 869.80
14	Applying Interior grade Acrylic Primer of approved quality and brand on plastered or encrete 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. (In Ground Floor). One Coat. Water based interior grade Acrylic Primer	Sqm	900.00	36.71	33 039.00
15	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour Two coats.	Sqm	900.00	85.62	77 058.00
16	Finishing walls with Acrylic Smooth exterior paint of required shade: Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	Sqm	1985.00	83.15	1 65 052.75
17	Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour Two coats	Sqm	460.00	90.44	41 602.40

Sl. No.	Description of items	Unit	Qty	Rate(Rs.)	Amount (Rs.)
18	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	Each	3.00	468.37	1 405.11
19	Providing and fixing specified wood frame work consisting of battens 50x25 mm fixed with rawl plug and drilling necessary holes for rawl plug etc. including priming coat complete.Kiln seasoned and chemically treated hollock wood.	cum	0.05	1 19 588.26	5 979.41
20	Providing and fixing PVC Door Frame of size 50x47 mm with a wall thickness of 5 mm ( $\pm$ 0.2 mm), made out of single piece extruded PVC profile, with mitred cut joints and joint with 2 nos of PVC bracket of size 190 mm x 100 mm long arms of cross section size 35 x 15 mm & self driven self tapping screws, the vertical door profiles to be reinforced with 40x20 mm M.S. rectangular tube of 0.8 mm , including providing EPDM rubber gasket weather seal throughout the frame, including jointing 5 mm PVC frame strip with PVC solvent cement on the back of the profile. The door frame to be fixed to the wall using 8 x100 mm long anchor fasteners complete, all as per manufacturer's specification and direction of Engineer -in- charge.	Mtr.	15.00	741.03	11 115.45
21	35 mm thick factory made Solid panel PVC Door shutter, made out of single piece extruded solid PVC profiles, 5 mm ( $\pm$ 0.2 mm) thick, having styles & rails (except lock rail) of size 95 mmx 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm X 20 mm x 1 mm, joints of styles & rails to be mitred cut & joint with the help of PVC solvent cement, self driven self tapping screws & M.S. rectangular pipes bracket of size 190 mm X 100 mm of cross section size 35 mm x 17 mm x 1 mm at each corner. Single piece extruded 5 mm thick solid PVC Lock rail of size 115 mm x 35 mm, out of which 75 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles & rails with the help of solvent and self driven self tapping screws of 125 mm x 11 mm, including providing 5 mm Single piece solid PVC extruded sheet inserted in the door as panel. all complete as per	Sqm	5.40	3 278.18	17 702.17
22	Providing& making fresh colour toilet cubicles system with 12 mm thick compacted laminate with all accessories (SS, 'U' & 'F' channal 'SS Top rail , SS privecey thumb turn with indicator, SS Door knobe ,SS Hinges with cover , SS adjustable foot, rubber lining groove,SS screws , PVC wall plugs etc) size (1.50 L X 1.20 W ) Height 1980 mm	Each	10.00	28 050.00	2 80 500.00
23	b) Washing and cleaning with oxalic acid powder using 33 gms./sq.m, Other than marble.(Floor including dado)in any floor complete in all respect.	Sqm	450.00	6.59	2 965.50

Sl. No.	Description of items	Unit	Qty	Rate(Rs.)	Amount (Rs.)
24	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	60.00	104.88	6 292.80
25	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	2500.00	83.97	2 09 925.00
26	Mazdoor (Male) / Labour (Male) for necessary day to day work at necessary places as per direction of engineer in charge in any floor complete in all respect.	Each	20.00	291.99	5 839.80
27	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge. All kinds of soil	Cum	11.50	151.88	1 746.62
28	Supplying & laying as per IRC-SP:063-2004 paver unit of any shade of approved quality as per relevant IS code, laid in pattern as directed in pavement, footpath, driveway (paver block only), etc including necessary underlay complete in all respect with all labour and material. [Border concrete if necessary to be paid separately]. Note: Sub-grade CBR should not be less than 5. 25 mm thick Tiles as per IS: 1237-2012 for footpath,ramp,staircase of public building(over 25 mm thick (Avg) Cement mortar (1:3) & Cement Slurry @ 4.4 kg/Sq.m at back side of Block. Cement for Mortar & Slurry to be supplied by Department). Coloured Decorative	Sqm	1725.00	1 035.67	17 86 530.75
29	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge. In Acid and alkali resistant tile of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)	Sqm	125.00	1 294.35	1 61 793.75
30	Providing and applying pressure grouting operation with compressor pump and injecting cement slurry admixed with NSG compound and injecting each point till refusal. Removal of nozzles and sealing them with cement admixed with acrylic polymer in any floor complete in all respect (External & Internal).	Sqm	70.00	255.02	17 851.40

Sl. No.	Description of items	Unit	Qty	Rate(Rs.)	Amount (Rs.)
31	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts,. fasteners etc.).	Kg	785.00	569.67	4 47 190.95
32	Precise cutting of tile joints for cleaning existing cementious grout and re-grouting the joints of tiles having joints of 3mm width, using epoxy grout mix of organic coated filler of desired shade including filling / grouting and finishing complete as per direction of Engineer-in-charge. Note: The application should be done through the authorised applicator of the contractor. Preferred Make: Latycrete, Asian Paints or Fosrock or or equivalent acceptable to IIT KGP				
	Size of tile - 200mm x 300mm (floor & wall), filling depth 6 mm.	Sqm.	1650.00	425.38	7 01 877.00
33	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: 25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	Sqm	3.00	1 811.14	5 433.42
34	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 450 mm dia metre 5200.00	Mtr.	15.00	6 270.68	94 060.20
35	Scraping of moss, blisters etc.thoroughly from exterior surface of walls necessitating the use of scraper, wire brush etc.(Payment against this item will be made only when this has been done on the specific direction of the Engineer-in-charge)	Sqm	1985.00	8.34	16 554.90
36	Removing old scales, blisters etc. of interior surface of walls,ceiling by scraping etc. and preparing smooth and even surface with rendering or cement mortar (1:2) (as necessary), to make the surface suitable for receiving distemper. (Payment against this item will be made only when this has been done on the specific direction of the Engineer-in-charge).	Sqm	900.00	12.05	10 845.00
		<b>Total Part -A = Rs.</b>			<b>45 87 923.25</b>
	<b>PART - B : SANITARY WORKS</b>				
1	Dismantling E.P. or Anglo-Indian W.C.	Each	2.00	53.55	107.10
2	Dismantling flush pipe of water closet / bib cock / Stop cock/ Shower with arm	Each	68.00	20.23	1375.64
3	Dismantling urinal.	Each	2.00	39.27	78.54
4	Dismantling wash basin with brackets with or without waste fittings.	Each	2.00	41.65	83.30

Sl. No.	Description of items	Unit	Qty	Rate(Rs.)	Amount (Rs.)
5	Providing and fixing soil, waste and vent pipes :100 mm dia.Sand cast iron S&S pipe as per IS: 1729.	Mtr.	20.00	1040.45	20809.00
6	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.100 mm dia. Sand cast iron S&S as per IS - 1729	Each	4.00	410.91	1643.64
7	Providing and fixing plain bend of required degree. 100 mm dia,Sand cast iron S&S as per IS - 1729.	Each	4.00	523	2092.00
8	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.100x100x100 mm,Sand cast iron S&S as per IS - 1729	Each	4.00	584.62	2338.48
9	Providing and fixing single equal plain junction of required degree :100x100x100 mm,Sand cast iron S&S as per IS - 1729 .	Each	4.00	663.06	2652.24
10	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter :100 mm.	Each	16.00	373.77	5980.32
11	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.				
	(i) 15 mm nominal outer dia Pipes.	metre	30.00	172.38	5171.40
	(ii) 20 mm nominal outer dia Pipes	metre	30.00	217.00	6510.00
12	A) 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 materials (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete				
	a) 110 mm. Dia.	metre	10.00	298.69	2986.90
	b) 75 mm. Dia.	metre	10.00	223.72	2237.20
13	Providing fitting and fixing C.P. Overhead Shower 70mm (2.5") dia with 235mm (10.5") long shower arm of standard design and of approved make complete. (Cat No. F7020103 of CERA make or equivalent )	Nos	33.00	529.00	17457.00
14	Providing and fixing White vitreous china extended floor mounting closet of size 665x 390x 810 mm of approved shape including providing & fixing white vitreous china cistern with dual flush,seat cover & fitting, of flushing capacity and cistern fittings, nuts, bolts and gasket etc. (CLAIR DELUXE - Cat No : S1020107 S-trap 70mm ; S1020108 P-trap Cat No : S1060102 Cistran; Cat No : B1510108 Clair Seat Cove of CERA make or equivalent)	Each	7.00	12442.00	87094.00

Sl. No.	Description of items	Unit	Qty	Rate(Rs.)	Amount (Rs.)
15	Supplying,fitting and fixing Flat back urinal (half stall urinal) in white vitreous chinaware of approved make in position with brass screws on 75 mm x 75mm x75mm wooden blocks complete. 265mm x 335mm x 695 (CARAVAN - Cat No : S4020105 of CERA make or equivalent)	Each	2.00	8051.00	16102.00
16	Providing, fitting and fixing Self closing angle cock pressmatic for urinal with wall flange, 200mm connecting pipe and urinal spreader including all accessories. (Cat No : F9020203 & Cat No : F8070201 of CERA make or equivalent)	Each	2.00	4180.00	8360.00
17	Providing fitting and fixing CP Towel Ring Square with Round Flange complete with brackets fixed with CP brass screws with concealed fittings arrangement of approved quality. (Cat No. ACN-1121N of JAQUAR make or equivalent)	Each	2.00	1134.00	2268.00
18	Supplying,fitting and fixing approved brand 32 mm dia.P.V.C. waste pipe, with PVC coupling at one end fitted with necessary clamps. 1050 mm long	Each	4.00	108.45	433.80
19	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 with C.P. nut 32 mm dia. and painting the brackets with two coats of approved paint. 580 mm X 430mm size.(CERA - CALIBRE - Cat No : S2040109 or equivalent )	Each	2.00	2818.00	5636.00
20	Supplying, fitting and fixing pillar Cock (Auto closing System with built in control cock with wall flange) (Model No. PRS-031 of JAQUAR make or equivalent).	Nos.	2.00	2223.00	4446.00
21	Supplying, fitting and fixing Chromium plated angular Stop Cock with wall flange (CAT. No. CQT23059 of JAQUAR make or equivalent).	Nos.	40.00	894.00	35760.00
22	Supplying, fitting and fixing two way Bib Cock with wall flange (CAT. No. CQT23041 of JAQUAR make or equivalent).	Each	6.00	1185.00	7110.00
23	Supplying, fitting and fixing Chromium plated Hand shower (Health Faucet) with Flexible Tube with long1 mtr&wall hook (CAT. No. ALD563 of Jaquar make or equivalent).	Nos.	6.00	1301.00	7806.00
24	Supplying, fitting and fixing Single Towel Rail 600 mm long (CAT. No.. : ACN- 1111BNM of JAQUAR make or equivalent)	Nos.	14.00	1460.00	20440.00
25	Supplying, fitting and fixing liquid soap container.PTMT(Prayag or equivalent)	Each	2.00	249.90	499.80
26	Supplying, fitting and fixing porcelain toilet paper holder(Toilet paper roll holder )   (Cat No. : ACN-1155N of JAQUAR make or equivalent)	Each	7.00	691.00	4837.00
27	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. Brass screws and washers complete.	Each	2.00	986.37	1972.74
28	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. (v) 900 mm long	Each	8.00	174.93	1399.44

Sl. No.	Description of items	Unit	Qty	Rate(Rs.)	Amount (Rs.)
29	Providing and fixing PTMT grating of approved quality and colour.Circular type. 125 mm nominal dia with 25 mm waste hole	Each	16.00	54.93	878.88
30	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. i) 32 mm nominal outer dia Pipes.	Mtr.	37.50	637.62	23910.75
31	Supplying, fitting and fixing soap holder. PTMT (Prayag or equivalent)	Each	34.00	432.80	14715.20
				<b>Total Part. B = Rs.</b>	315192.37
				<b>(Part - A + Part - B) = Rs.</b>	4903115.62
				<b>Say = Rs.</b>	<b>49 03 116.00</b>

Sl. No.	Description of items	Unit	Qty	Rate(Rs.)	Amount (Rs.)
<b>Part - C: Electrical Works</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 GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. Make - Wire:-Finolex/RR Kabel/Havells or equivalent approved by EIC. Conduit/Casing-capping: Presto-plast/ Precision/Finolex or equivalent approved by EIC. Switch/Regulator: Crabtree (Thames) / Legrand (Myrius) /MK (Wraparound plus) or equivalent approved by EIC.	Point	20	717	14 340.00
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. Wire:-Finolex/RR Kabel/ Havells or equivalent approved by EIC. Conduit/Casing-capping: Presto-plast/ Precision/Finolex or equivalent approved by EIC.				
a	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Metre	75	167	12 525.00
b	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Metre	50	200	10 000.00
3	Supply and fixing of modular type Surface mounted plastic box on wall with inner, outer plate, modular cover of the following sizes for fixing switch, socket, regulator etc. with necy. connection and mending good the damages including painting. This includes disconnecting and dismantling the old items and depositing them to store. Modular board and cover Make- Crabtree(Thames)/ Legrand (Myrius)/ MK(Wraparound plus) or equivalent approved by EIC.				
a	3M	Each	4	121	484.00
b	6M	Each	4	194	776.00
4	S&F of modular type 5/6 Amp one way switch on board with all connection. Switch: Crabtree(Thames) / Legrand (Myrius) /MK(Wraparound plus) or equivalent approved by EIC.	Each	6	85	510.00
5	S&F of modular type 15/16 Amp one way switch on board with all connection. Make as in SL. No:4	Each	3	132	396.00
6	S&F of modular type 6 Amp 3 pin shuttered socket on board with all connection. Make as in SL. No:4	Each	6	111	666.00
7	S&F of modular type 6pin,15/16 Amp socket on board with all connection. Make as in SL. No:4	Each	3	175	525.00
8	Supply of 4 core 10 sq. mm aluminium conductor XLPE insulated, PVC sheath, strip armoured cable 650/1100V grade , confirming IS : 7098( part-1) Make : Polycab/KEI/Havells/Finolex or equivalent approved by EIC.	Metre	200	129	25 800.00

Sl. No.	Description of items	Unit	Qty	Rate(Rs.)	Amount (Rs.)
9	Supply of 4 core 16 sq. mm aluminium conductor XLPE insulated, PVC sheath, strip armoured cable 650/1100V grade , confirming IS : 7098( part-1) Make : Polycab/KEI/Havells/Finolex or equivalent approved by EIC.	Metre	70	147	10 290.00
10	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 if necessary S&F of 2x 10SWG G.I wire as earthing attachment with the cable.	Metre	200	39	7 800.00
11	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	70	323	22 610.00
12	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	7	219	1 533.00
13	Supply and making end termination with brass compression gland and Al lugs for 4 x16 sq.mm size of PVC/XLPE Al. conductor cable of 1.1kV grade as required.	Each	4	250	1 000.00
14	Supplying and fixing TP sheet steel enclosure on surface/ recess along with 32 A, 415 V "C" curve TP MCB complete with connections, testing and commissioning etc. as required.	Each	7	1146	8 022.00
15	Only fixing of light fittings (Tube, LED etc) 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. Note: a) Round wooden blocks and all hard wares as reqd. are to be provided by the contractor. b) Dept will supply only the light fittings.	Each	40	168	6 720.00
16	Supply of 21W 4 ft. extruded aluminium batten with LED tube with color temperature 6500K, Efficacy >=100 lumen /watt. LED fittings Make: Philips /Wipro/GE or equivalent approved by EIC. Note: 1. Manufacturerer has to provide LM 79 & 80 certificates from NABL accredited laboratories/Govt. approved Labs . 2. Contractor has to provide as per manufaturer guarantee. 3. Labeling on each fittings and lamps with paint/permanent markers mentioning brief description of the Hall, date of installation, date of expiry of guarantee etc is mandatory for identification and maintaining of replacement records etc without which the contractor will not be allowed to work.	Each	40	723	28 920.00
17	Supply of following sizes metal exhaust fan. Make :Crompton Graves /Usha/Havells/Bajaj or equivalent approved by EIC.				0.00

Sl. No.	Description of items	Unit	Qty	Rate(Rs.)	Amount (Rs.)
a)	300mm, 900rpm,1145CMH	Each	3	2376	7 128.00
b)	380mm, 900rpm,2000CMH	Each	2	2673	5 346.00
c)	450mm, 900rpm,3900CMH	Each	2	3307	6 614.00
18	Fixing only exhaust fan after making hole in wall and making gooddamages and smooth cement finish etc. as practicable as possible and providing necy. length of PVC insulated wire and making connection for exhaust of upto 30 cm (12") diameter.	Each	6	329	1 974.00
19	Supply and fixing of 9 W LED Bollard with 900 lumen, 6500K, IP65 aluminium landscape luminaire for diffused lighting. Make: Philips /Wipro/GE or equivalent approved by EIC	Each	20	9775	1 95 500.00
20	S/F of fully automatic star delta starter( Model: ML 1.5 FASD L&T Make),suitable for pump/ motor 3 phase,415 volt,50Hz,relay range13-21 amp.coil volt 440 volt.Make: L&T/ABB/Kirloskars/siemens or equivalent approved by EIC	Each	3	11755	35 265.00
21	Supplying and fixing of 415 V, 32 A, 3P+N+E IP 66 surface mounted interlocked switch sockets unit with DIN rail module for 32A TPN MCB including necy. Connection as reqd. Make: Legrand/Hager or equivalent approved by EIC.	Each	2	8456	16 912.00
22	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required	Each	1	5308	5 308.00
23	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Metre	25	206	5 150.00
24	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.				
a	150 mm width X 50 mm depth X 1.6 mm thickness	Metre	20	644	12 880.00
b	300 mm width X 50 mm depth X 1.6 mm thickness	Metre	15	875	13 125.00
25	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "bends" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.				
a	150 mm width X 50 mm depth X 1.6 mm thickness	Each	2	1168	2 336.00
b	300 mm width X 50 mm depth X 1.6 mm thickness	Each	2	1713	3 426.00

Sl. No.	Description of items	Unit	Qty	Rate(Rs.)	Amount (Rs.)
26	<p>Supply and fixing of 70 W LED Flood Light luminaire with a nominal system lumen output 7000 lumen and a system efficacy of min. 100 lumen/ watt, Colour Temperature should not be more than 5700K and Colour Rendering Index should be greater than 70, IP66 rating alongwith the surge protection having a provision of protection upto 10kV, PF &gt; 0.9, THD &lt; 20%. The luminaires housing shall be made of non-corrosive high pressure ADC with corrosion resistant powder coating. The luminaire driver and LED chip should be same make. LED flood light .</p> <p>Make:Philips/Wipro/GE or equivalent approved by EIC</p> <p>Note:</p> <p>1. Manufacturerer has to provide LM 79 &amp; 80 certificates from NABL accredited laboratories/Govt. approved Labs .</p> <p>2. Contractor has to provide five years replacement guarantee of the total LED sets i.e for fittings, lamps, driver units etc after installation and commissioning of the units at site.</p>	Each	4	11475	45 900.00
				<b>Total Part.C = Rs.</b>	<b>5 09 781.00</b>
<b>Total amount [(Part A+ Part B)+Part C]</b>					<b>Rs. 54,12,897.00</b>
<i>(Rupees Fifty Four Lakhs Twelve Thousand Eight Hundred and Ninety Seven only)</i>					
<p>I agree to execute the work at _____ % [ in figure] ABOVE/BELOW/AT PAR ( _____</p> <p>_____percent) [in words] ABOVE / BELOW/AT PAR Department estimated amount / item rates.</p> <p style="text-align: right;">_____</p> <p style="text-align: right;">Signature of the Contractor with Date &amp; Seal</p>					