



INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR  
KHARAGPUR, WEST BENGAL 721302

TENDER DOCUMENT

*for*

Inside renovation, face lifting, water proofing of  
basement wall, plinth protection and repairing of drain  
of Central Library (Main & Annex building) at IIT  
Kharagpur.

NIT No. IW/CE/NIT/1819/092

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

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



## Contents

<b>1.</b>	<b>NOTICE INVITING TENDER</b>	<b>2</b>
1.1.	INTRODUCTION .....	2
1.2.	PARTICULARS .....	2
1.3.	ELIGIBILITY CRITERIA .....	3
<b>2.</b>	<b>INFORMATION TO BIDDERS</b>	<b>5</b>
2.1.	SCOPE OF WORK.....	5
2.2.	GENERAL INSTRUCTIONS .....	5
2.3.	SUBMISSION OF TENDER .....	6
2.4.	EVALUATION OF BIDS AND AWARD OF WORK .....	7
<b>3.</b>	<b>UNDERTAKING BY THE BIDDER</b>	<b>8</b>
	<i>Annexures</i> .....	<b>9</b>
	<i>PRICE BID (BOQ)</i> .....	<b>10-18</b>



**1. NOTICE INVITING TENDER****1.1. INTRODUCTION**

Indian Institute of Technology (IIT) Kharagpur, hereinafter called IITKGP, invites sealed tenders from the eligible contractors for Inside renovation, face lifting, water proofing of basement wall, plinth protection and repairing of drain of Central Library (Main & Annex building) at IIT Kharagpur. Particulars of the project are as follows.

**1.2. PARTICULARS**

<b>1.NIT Number</b>	<b>NIT No. IW/CE/NIT/1819/092</b>
<b>2.Name of Work</b>	Inside renovation, face lifting, water proofing of basement wall, plinth protection and repairing of drain of Central Library (Main & Annex building) at IIT Kharagpur.
<b>3.Location of Work</b>	Central Library (Main & Annex Building).
<b>4.Estimated Cost(including GST)</b>	₹ 1 49 45 141/- (Rupees One Crore Forty Nine Lakhs Forty Five Thousand One Hundred and Forty One Only)
<b>5.Earnest Money Deposit</b>	₹ 2 98 910 /- (Two Lakhs Ninety Eight Thousand Nine Hundred and Ten Only)
<b>6.Time Limit</b>	<b>240 Days</b> from the 7 <sup>th</sup> day of Issue of Work Order or handing over of site, whichever is earlier.
<b>7.Tender Fee</b>	₹ 5,000/- (Non-refundable)
<b>8.Tender Basis and Mode</b>	Two stage(Technical Bid & Financial Bid)
<b>9.Mode of Payment to IITKGP (EMD/Tender fee)</b>	Demand Draft / Pay order in favour of IIT Kharagpur payable at Kharagpur.
<b>10.Date, Time &amp; Venue of Pre-bid Meeting</b>	08 Jan 2019, 15:00hrs, CCM Meeting Room, 1 <sup>st</sup> Fl, Old Bldg, IIT Kharagpur, Kharagpur-721302
<b>11.Closing Date &amp; Time for Receipt of bids</b>	15 Jan 2019 up to 15:00hrs
<b>12.Date&amp; Time for Opening of Technical Bid</b>	15 Jan 2019 at 15:30hrs
<b>13.Date&amp; Time for Opening of Price Bid</b>	To be intimated to the eligible bidders subsequently.
<b>14. Engineer-in-charge and contact details.</b>	Mr. S. K. Biswas, Sr.Executive Engineer, Mob: 7407139556 Tel: 03222-82580 , Email: skbiswas@adm.iitkgp.ac.in
<b>15. Address for tender issue, submission and opening</b>	Office of SE(C), 1 <sup>st</sup> Floor, Old Building, IIT Kharagpur, Kharagpur WB 721302
<b>16.Website for full and updated information</b>	<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. a) **For Civil Works:** 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, for civil works with Government/ Semi-government/ PSU/ Government Funded Autonomous Organization during last **7 (seven) years** preceding last date of the month of tender submission. **Estimated Cost for Civil Works: ₹ 1 42 96 458.00.**

b) **For Electrical works:** The bidders who do not have requisite credential for electrical work must associate with agencies eligible to bid for **Electrical works (₹ 6 48 683.00)** 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 during last 7 yrs. preceding last date of month of tender submission). 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 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

**Note:**

- (i) The estimated cost is **₹ 1 49 45 141/-** (Rupees One Crore Forty Nine Lakhs Forty Five Thousand One Hundred and Forty One 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:** Construction / Repair & Renovation of Building / Other civil structures.

1.3.3. The bidders who do not have requisite credential for the specialized services (Internal Electrical Works) must associate with specialized agencies who have done similar specialized work, in accordance with above qualifying criteria for amounts in proportionate to the respective service's amount in the estimated cost / price bid.

1.3.4. The bidder or the specialized agency the bidder intends to associate with 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.



- 1.3.5. The contractor or the specialized electrical agency must have electrical license& electrical supervisor license.
- 1.3.6. The validity of the registrations and licenses should be valid as on the date of tender submission.
- 1.3.7. 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.
- 1.3.8. 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.

Chief Engineer

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

**Copy to:**

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



## 2. INFORMATION TO BIDDERS

### 2.1. SCOPE OF WORK

- 2.1.1. The IITKGP intends to award the work of Inside **renovation, face lifting, water proofing of basement wall, plinth protection and repairing of drain of Central Library (Main & Annex building) at IIT Kharagpur**. The work consists of Construction, 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 / Academic area without causing any disturbances to the normal functioning of offices.
- 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 [skbiswas@adm.iitkgp.ac.in](mailto:skbiswas@adm.iitkgp.ac.in) on or before **08 Jan 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 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 the 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 SE(C), 1st Floor, Old Building, IIT Kharagpur, Kharagpur WB 721302, up to 15:00hrs, 15 Jan 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 "**Inside renovation, face lifting, water proofing of basement wall, plinth protection and repairing of drain of Central Library (Main & Annex building) at IIT Kharagpur**" with the NIT No. IW/CE/NIT/1819/092, 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 ₹ 5,000/- (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.
  - Self-certified copies of all the documents in support of eligibility of proposed agencies for specialized services.
- 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 SE(C), 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 with 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. On the date & time specified for opening of Financial Bid or the Revised Financial Bids as the case may be will be opened on specified date and time.
- 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 within 10 days of the Letter of Award.
- 2.4.11. **Date of start** of work shall be reckoned from the 7<sup>th</sup> day of the issue of the Work Order.





**3. UNDERTAKING BY THE BIDDER****UNDERTAKING**

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, Special 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.

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 said 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**  
**CIVIL CONSTRUCTION AND MAINTENANCE SECTION**  
**IIT KHARAGPUR**

**Name of Work:** Inside renovation, face lifting, water proofing of basement wall, plinth protection and repairing of drain of Central Library (Main & Annex Building) at IIT Kharagpur.

**SCHEDULE OF QUANTITIES**

Item No.	Description of Item	Unit	Qty.	RATE (Rs)	Total Amount(Rs.)
1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix).	cum	10.00	1 202.34	12 023.40
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	2.00	1 754.04	3 508.08
4	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	770.00	27.01	20 797.70
5	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.	sqm	770.00	104.00	80 080.00
6	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in : Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	14.00	7 437.03	1 04 118.42
7	15 mm cement plaster on brick wall of mix :1:6 (1 cement: 6 coarse sand)	sqm	870.00	234.67	2 04 162.90
8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil.	cum	250.00	200.66	50 165.00
9	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	30.00	1 106.71	33 201.30
10	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to any level.				
	1:3:6 (1 Cement : 3 coarse sand (zone-III):6 graded stone aggregate 40 mm nominal size).	cum	30.00	5 805.87	1 74 176.10
11	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	250.00	151.64	37 910.00
12	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	sqm	210.00	437.26	91 824.60

Item No.	Description of Item	Unit	Qty.	RATE (Rs)	Total Amount(Rs.)
13	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 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 - 300mm x 300mm (Floor),filling depth 8 mm.	Sq.M.	105.00	431.00	45 255.00
14	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
	For thickness of tiles 10 mm to 25 mm.	sqm	500.00	38.05	19 025.00
15	a) 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	140.00	830.08	1 16 211.20
	b) 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	580.00	898.15	5 20 927.00
16	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	sqm	2360.00	29.30	69 148.00
17	a) Supplying, fitting and fixing of false ceiling framework with powder coated exposed G.I. grid suspension system (E-Grid U-1520 or equivalent load carrying capacity with mid span deflection not exceeding 1/360 span with hanger spacing of 1200mm c/c ) consisting of Main Runner 3600 mm long, Cross Tee 1200 mm / 600 mm long and Wall Angle. The Wall Angle shall be fixed on PVC Dash Fasteners on the perimeter of the wall by steel screws with distance 300mm c/c. The Main Runners to be placed @ 1200 mm. The Cross Tee 1200mm will be inserted in the pre-cut slots of Main Runner at a regular interval of 600 mm to form a modular grid of 1200mm X 600mm. Additional Cross Tees of 600 mm shall be placed perpendicular to the Cross Tee 1200 mm long to finally form a grid of 600 mm X 600 mm. Grid of module size 600 mm X 600 mm shall be supported by 6 mm dia G.I. wire from purlins/ soffit all complete as per the drawing & directions of Engineer-in-charge.	Sqm	800.00	341.00	2 72 800.00
	b) Supplying, fitting & fixing Eco-friendly, Moisture Resistance and Incombustible Gypsum plaster board (Density>700Kg per Cu.M.) confirming to IS 2095- Part 1, 2011 of approved design and brand finished with gypsum jointing compound to form a joint less false ceiling. All complete as per drawing & direction of Engineer - in-Charge. False ceiling with 12.5mm thick tapered edged Gypsum Plaster Board. (For Concealed False Ceiling Work)	Sqm	800.00	483.36	3 86 688.00
18	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	0.500	1 02 968.12	51 484.06

Item No.	Description of Item	Unit	Qty.	RATE (Rs)	Total Amount(Rs.)
19	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. Kiln seasoned and chemically treated hollock wood.				
	30 mm thick shutters.	sqm	10.00	1 984.31	19 843.10
20	Dismantling doors, windows and clerestory windows (steel or wood) shutter including frame, chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead.	each	40.00	190.35	7 614.00
21	Easing door and windows.	Each	90	20.50	1 845.00
22	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	600.00	136.99	82 194.00
23	Renewing hinge of steel shutter including taking out old one by cutting and fixing new hinges by welding and mending good damages complete.	each	40	224.54	8 981.60
24	Renewing one point steel (oxidised) handle of steel door and windows as directed including painting complete.	each	40	36.64	1 465.60
25	Square or hexagonal mesh netting made with 18 B.W.G. galvanised wire, fitted and fixed complete as per design . 25mm mesh	sqm	160.00	446.72	71 475.20
26	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	1 21 489.20
27	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	5250.00	70.48	3 70 020.00
28	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	sqm	40.00	663.73	26 549.20
29	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	17700.00	85.62	15 15 474.00
30	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	sqm	17700.00	10.07	1 78 239.00

Item No.	Description of Item	Unit	Qty.	RATE (Rs)	Total Amount(Rs.)
31	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	200.00	105.34	21 068.00
32	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :Water thinnable cement primer.	Sqm	17700.00	44.56	7 88 712.00
33	(a) With ready mixed red oxide zinc chromatic on steel / iron works having VOC content less than 250 grams/ litre	Sqm	1350.00	39.25	52 987.50
	(b) Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content.With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre.	Sqm	2380.00	46.37	1 10 360.60
34	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	3730.00	90.44	3 37 341.20
35	Finishing walls with Acrylic Smooth exterior paint of required shade:				
	Old work (One or more coat applied @ 0.90 ltr/10 sqm).	sqm	2000.00	54.69	1 09 380.00
36	Finishing walls with textured exterior paint of required shade :				
	Old work (Two or more coats on existing cement paint surface applied @ 3.28 ltr/10 sqm.	sqm	6000.00	150.44	9 02 640.00
37	Finishing walls with textured interior paint of required shade :	sqm	1170.00	309.00	3 61 530.00
38	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc.to be paid separately).	sqm	7.00	5557.81	38 904.67
39	Grinding to marble / mosaic floor including remaining stone, if necessary, after cutting with manual labour / machine, where necessary	sqm	3200.00	23.64	75 648.00
40	Polishing only of old marble or terrazo work with oxalic acid powder using 33 gms/ sq.m. by manual labour / machine where necessary.	sqm	3200.00	44.91	1 43 712.00
41	a) Supplying, & installation of full glazed frameless door with 12mm thick toughned glass including ss handle (300mm long-16mm dia) top & bottom patches ,patches lock, floor spring of Ozne/Hafelemake (without etching).	Sqm	15.00	15710.00	2 35 650.00
	b) Supplying, & installation of 12mm thick toughned glass frameless partation on height 2700mm (09'-0") including neccessary fiting, fixtures & silicon gel, support at floor & falce ceilling level.	Sqm	230.00	10222.00	23 51 060.00
42	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) :				
	For fixed portion				
	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	510.00	428.34	2 18 453.40

Item No.	Description of Item	Unit	Qty.	RATE (Rs)	Total Amount(Rs.)
43	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	40.00	500.51	20 020.40
44	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
	With float glass panes of 8 mm thickness	sqm	38.00	1391.49	52 876.62
45	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	56.00	1045.03	58 521.68
46	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	each	9	432.92	3 896.28
47	Hydraulic door closer of approved quality as per I.S.I. standard fitted and fixed complete.				
	Godrej Hydraulic door closer fitted and fixed complete. Medium type ,	Each	6	1665.00	9 990.00
48	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm 1$ mm), with wall thickness 2.0 mm ( $\pm 0.2$ mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm ( $\pm 0.1$ mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineerin-charge.				
	(i) Extruded section profile size 48x40 mm.	metre	80.00	261.44	20 915.20
49	30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2 mm ( $\pm 0.2$ mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm ( $\pm 0.2$ mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.	sqm	30.00	2 349.09	70 472.70
50	Providing and fixing ISI marked oxidised M.S. pressed butt hinges with necessary screws etc. complete.				
	(ii) 75x47x1.70 mm.	each	66	27.19	1 794.54
51	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	44	54.39	2 393.16

Item No.	Description of Item	Unit	Qty.	RATE (Rs)	Total Amount(Rs.)
52	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	38	59.33	2 254.54
53	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	4	228.16	912.64
	Neat cement punning.	sqm	170.00	51.37	8 732.90
54	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty.				
55	Float glass panes of thickness 4 mm.	sqm	60.00	769.24	46 154.40
56	Renewal of old putty of glass panes (length).	metre	50.00	30.69	1 534.50
57	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.Using M.S. angles 40x40x6 mm for diagonal braces.	sqm	2.10	3461.23	7 268.58
58	Supplying, fitting and fixing boiling water resistant ply conforming to IS: 303- 1989 bonded with phenol formaldehyde synthetic resin of approved make and brand fitted and fixed as per design as per approval and direction of Engineer-in- Charge.6mm	sqm	2360.00	1 100.03	25 96 070.80
59	R.C. shelves (1:1.5:3) either precast or cast in situ with stone chips and necessary reinforcement upto 1% (0.8% main and 0.2% distribution bars), shuttering etc. and 10 mm. thick cement plaster (1:4) including neat cement finishing and cutting chase fitting and fixing in position, mending good damages as necessary complete. In ground floor. 50 mm. Thick panels. SAIL/ TATA/RINL	sqm	180.00	1 173.92	2 11 305.60
60	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	3.00	6610.68	19 832.04
				Total part: A	1 35 84 597.69
	<b>Part-B: Sanitary and Plumbing</b>				
1	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	36.00	296.63	10 678.68
	b) 75 mm. Dia.	metre	86.00	222.18	19 107.48
	B) 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	65.00	172.38	11 204.92
	b) 25 mm nominal outer dia Pipes	metre	5.00	260.72	1 303.58
2	Dismantling urinal.	Each	16	39.00	624.00
3	Dismantling wash basin with brackets with or without waste fittings.	Each	14	41.36	579.04
4	Dismantling E.P. or Anglo-Indian W.C.	Each	16	53.18	850.88



Item No.	Description of Item	Unit	Qty.	RATE (Rs)	Total Amount(Rs.)
5	Providing and fixing white vitreous china water closet of size 770x370x710 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete. (Cat no : CRUSE - Cat No : S1012135 Strap 300mm ,Cat No : B1520110).	Each	16	14 155.00	2 26 480.00
6	Providing and fixing wash basin with Pedestral and C.I. brackets, 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 580x450 mm with outlet grating and other couplings in C.P. brass . (Model No: Cardiff, White & PP C0480 and C0375 of PARRYWARE make)	Each	14	5 211.00	72 954.00
7	Providing and fixing white vitreous china flat back half stall urinal of size 690x345x280 mm 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. (Cat No : 96008 of HINDWARE make)	Each	16	8 586.00	1 37 376.00
8	Supplying, fitting and fixing Urinal valve auto closing system with built - in - control cock & wall flange..(Cat No. PRS-077 of Jaquar make).	Each	16	3 026.00	48 416.00
9	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.600 mm long.	Each	32	126.45	4 046.40
10	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	32	88.33	2 826.63
11	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :15 mm nominal bore. (Cat No. CQT23041, Two way Bib Cock of Jaquar make).	Each	16	1185.00	18 960.00
12	Providing and fixing C.P. brass Angular stop cock (with wall flange) of standard design and of approved make conforming to IS:8931.15 mm nominal bore (Cat No. CQT23059 of Jaquar make)	Each	64	894.00	57 216.00
13	Providing & fixing chrome plated brass prismatic type auto closing system pillar cock . standard design and of approved make. (Cat No. PRS-031 of Jaquar make)	Each	16	2 223.00	35 568.00
14	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	14	619.00	8 666.00
15	Bottle trap 38 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 263 gms	Each	30	305.55	9 166.50
16	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	14	506.00	7 084.00
17	Providing and fixing toilet paper holder :C.P. brass. (Cat No. ACN-1155N of Jaquar make)	Each	16	575.00	9 200.00

Item No.	Description of Item	Unit	Qty.	RATE (Rs)	Total Amount(Rs.)
18	Supplying, fitting and fixing shower of approved brand and make. hand Shower(Health Faucet) with 1mtr Flexible Tube with Wall Hook. (Cat No. ALD-563 of Jaquar make)	Each	16	1 301.00	20 816.00
19	Supplying, fitting and fixing of Double Coat Hook. (Cat No. ACN-1161N of Jaquar or similar brand)	Each	16	546.00	8 736.00
				Total part: B=	7 11 860.11
				Total Rs.(Part- A+Part- B) =	1 42 96 457.80
	<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 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 PVC Pipe: (Medium gauge) Precision/Presto Plast/AKG/ Modular Switch/Socket/Regulator/Blank plate: Legrand (Myrius)/Crabtree(Thames)/MK (wraparound plus)				
a)	Upto 6 mtrs.	no	103	548.00	56 444.00
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 PVC Pipe: (Medium gauge) Precision/Pesto Plast/AKG				
a)	2X1.5 sq.mm+1x 1.5 sq.mm earth wire	mtr	700	112.00	78 400.00
b)	2X2.5 sq.mm+1x 2.5 sq.mm earth wire	mtr	500	137.00	68 500.00
c)	2X4.0 sq.mm+1x 4.0 sq.mm earth wire	mtr	400	162.00	64 800.00
3	Supplying and fixing following modular, GI box along with modular base & cover plate for modular switches in recess etc as required. Make:- Crabtree ((Thames)/Legrand(Myrius)/MK (wraparound plus)				
a)	6M	no	23	258.00	5 934.00
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(Thames)/MK (wraparound plus)				
a)	5/6 amps switch	no	23	84.00	1 932.00
b)	15/16 amps switch with indecator	no	23	114.00	2 622.00
c)	3pin 5/6 amps socket	no	23	81.00	1 863.00
d)	6pin 15/16 amps socket	no	23	153.00	3 519.00
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	20	1234.75	24 695.00
6	Supplying of LED Fitting of 31W,3600lm,6500K,2'X2 of M/s Philips with wiring complete using 3x1.5 sq.mm. flexible copper wire. Make:-Havells/Bajaj/Philips/Crompton Model:-RC380B LED36S-6500 G4 L60 W60 PSU OD(Philips)	no	68	4004.00	2 72 272.00
7	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	275	100.00	27 500.00

Item No.	Description of Item	Unit	Qty.	RATE (Rs)	Total Amount(Rs.)
8	Refixing 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.(Existing fan are to be dismantled & refixing)	no	79	66.00	5 214.00
9	overhauling and servicing of ceiling fan/exhaust fan/wall fan/ pedestal fan by checking the wire insulation,connection and applying new grease to the bearing, oil seal cleaning & oiling, replacement of bushes and shafts, nuts & bolts,safety pin, insulator etc as required.Old material to be returned to site store.	no	79	75.00	5 925.00
10	Painting of all types of fans with two coates of paint of approved brand and manufacture to give an even shade, including cleaning of surface with detergent etc as required.	no	79	89.00	7 031.00
11	Supplying and fixing of two module stepped type Electronic fan regulator of 450w Make:- Crabtree/Legrand(Myrius)/MK(Wraparound plus) Model:- cat no-ACTRFW005, Crabtree	no	36	288.00	10 368.00
12	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	50	25.00	1 250.00
13	Fixing only SPN,DB(4 to 16 way) on flat iron frame on wall with all accessorise as required.	no	3	178.00	534.00
14	Fixing only TPN MCB,DB(4 to 16 way) on flat iron frame on wall with all accessorise as required.	no	2	230.00	460.00
15	Supplying of heavy duity MS conduit of 19mm dia&1mtrs long including clamp.(For extended fan down rod)	no	43	100.00	4 300.00
16	Supplying and fixing of 4-way ,SPN,Double Door,MCB, DB(IP43) on wall with angle iron frame/recess with following combination. A)63A,4P,415V,10KA, 'C'curve MCB-01no. Make:-Legrand/Schneider/Siemens/L&T/Hager	no	1	3336.40	3 336.40
17	Dismantling of old wiring as required and deposit the dismantle material to side store	no	1	1784.00	1 784.00
				Total part: C =	6 48 683.40
				Say Part C = Rs	6 48 683.00
				Gross Total A+B+C= Rs	1 49 45 141.20
	TOTAL AMOUNT			Say Rs	<b>1 49 45 141.00</b>

**NOTE: Special conditions of contract: (For Electrical Works):**

- 1)The contractor has to maintain 5 yrs. maintenance at site free of cost warranty of the fittings and driver,lamps from the date of commissioning and should provide an undertaking in this regard during execution of work.
- 2) Each fitting should have identification no. before fixing as directed by site in charge.
- 3)Suitable connectors are to be used for making connections of the neutral and earth wire in the switch boards.
- 4) No electrical wiring are to be allowed to lay on the false ceiling.
- 5) No joint are to be allowed in the wiring.
- 6) Suitable Al. or Cu. lugs are to be used during any connection.
- 7) Suitable brass glanding of the cables are to be done for any cable connection.
- 8) GI anti rust screws are to be used during fixing of pipes, cables, conduits,light fittings etc on the wall.
- 9) Valid challans and test/guarantee certificates of all materials supplied by the contractor are to be submitted before execution of work.
- 10) All materials to be used needs prior approval of Engineer -in -charge. Any equivalent make use needs approved by Engineer-in-charge.

**(RUPEES ONE CRORE FORTY NINE LAKHS FORTY FIVE THOUSAND ONE HUNDRED AND FORTY ONE 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