



INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR  
KHARAGPUR, WEST BENGAL 721302

**TENDER DOCUMENT**

*for*

**Routine civil maintenance work in Academic Zone (For Steel Technology Centre, Aerospace Engineering dept., Materials Science Centre, JCG & PCR G+7 Building, Ocean Engg and Naval Architecture Dept., New Chemical Engineering Annex Building, SMST (old NCC), Central Store, RDC, CRR Building & Others) for the year 2025-2026.**

**NIT NO. IITKGP/IW/SP/Rt\_Civil\_Mnt./2025/18**

Registrar

Indian Institute of Technology Kharagpur



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### Note: -

1. If the day falls on any Holiday, the date of any of the events mentioned above shall be on the next working day.
2. It is the responsibility of the Bidder to ensure that their bids whether sent by post or by courier or dropped by person should reach within the stipulated date & time.
3. The quotation received after the last date and prescribed time would summarily be rejected. Quotations having incomplete information are also liable to be rejected.
4. The addendum/corrigendum if any shall only be published on Institute's website and CPP Portal.



## 1. NOTICE INVITING TENDER

### 1.1. INTRODUCTION

Indian Institute of Technology (IIT) Kharagpur, hereinafter called IITKGP, invites online tenders from the eligible contractors for **Routine civil maintenance work in Academic Zone (For Steel Technology Centre, Aerospace Engineering dept., Materials Science Centre, JCG & PCR G+7 Building, Ocean Engg and Naval Architecture Dept., New Chemical Engineering Annex Building, SMST (old NCC), Central Store, RDC, CRR Building & Others) for the year 2025-2026.** Particulars of the project are as following.

### 1.2. PARTICULARS

1.NIT Number	IITKGP/IW/SP/Rt_Civil_Mnt./2025/18
2.Name of Work	<b>Routine civil maintenance work in Academic Zone (For Steel Technology Centre, Aerospace Engineering dept., Materials Science Centre, JCG &amp; PCR G+7 Building, Ocean Engg. and Naval Architecture Dept., New Chemical Engineering Annex Building, SMST (old NCC), Central Store, RDC, CRR Building &amp; Others) for the year 2025-2026.</b>
3.Location of Work	Academic Zone area, IIT Kharagpur.
4.Estimated Cost (including 18% GST)	₹ 74,99,997.00(Rupees Seventy Four Lakhs Ninety Nine Thousand Nine Hundred and Ninety Seven Only).
5.Earnest Money Deposit	₹ 150,000.00 (Rupees One Lakh Fifty Thousand Only) [ <b>Mandatory for all bidders including the bidders registered under MSE category</b> ]
6.Time Limit for Execution	365 Calendar days from Date of Start.
7.Tender Basis / Mode	Technical Bid & Financial Bid
8. Mode of Payment to IITKGP (EMD)	<p>i) Original Demand Draft/Pay Order must be submitted along with the technical bid documents physically in a separate envelope superscribed with the tender details at the “Stores and Purchase Section, 2<sup>nd</sup> Floor, Main Building, IIT Kharagpur, Kharagpur WB 721302”.</p> <p>ii) Scanned copy of valid Demand Draft/Pay Order has to be uploaded on <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a></p> <p>iii) Demand Draft/Pay order to be drawn in favour of IIT KHARAGPUR payable at Kharagpur.</p> <p>iv) EMD shall be valid for 60 Days from date of opening of <b>Technical Bid</b>.</p>
9.Date, Time & Venue of Pre-bid Meeting	09 <sup>th</sup> March 2026 at 04:25 PM, Committee Room, Main Building, IIT Kharagpur
10.Closing Date & Time for Receipt of bids	17 <sup>th</sup> March 2026 upto 04:00 PM
11.Date& Time for Opening of Technical Bid	25 <sup>th</sup> March 2026 at 04:00 PM
12.Date& Time for Opening of Price Bid	<b>Shall be intimated to the eligible bidders subsequently through CPP portal.</b>
13. Engineer-in-charge and contact details.	Mrs. B. Datta, Executive Engineer (Civil/Horticulture), Tel: 03222-282586 : Email: <a href="mailto:bithika@adm.iitkgp.ac.in">bithika@adm.iitkgp.ac.in</a>
14. Address for tender issue, submission and opening	Stores and Purchase Section, 2 <sup>nd</sup> Floor, Main Building, IIT Kharagpur, Kharagpur WB 721302
15.Website for full and updated information	<a href="https://www.iitkgp.ac.in/tenders">https://www.iitkgp.ac.in/tenders</a> <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a>
16. Website for tender submission & processing	<a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a>



17. Hard copy submission of Technical Bid Documents	Hard copy of the Technical Bid documents along with EMD to be submitted at “Stores and Purchase Section, 2 <sup>nd</sup> Floor, Main Building, IIT Kharagpur, Kharagpur WB 721302” within 07 days from the closing date and time for receipt of bids (online).
18. Defect liability Period	Defect liability period will be 01 (One) year from date of completion.

### 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/ Any other Reputed Organization. Joint Venture is not allowed.
- 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 50% 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/ Any other Reputed Organization during last **7 (seven) years** preceding last date of the month of tender submission.

**Note:**

- (i) The estimated Cost is ₹ 74,99,997.00 (Rupees Seventy Four Lakhs Ninety Nine Thousand Nine 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: Maintenance /Repair & Renovation/Construction of Civil Structure.

- 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.** The registrations and licenses should be valid during the execution phase.
- 1.3.5.** The Average annual turnover of the bidder as per ITCC or profit & loss statement shall not be less than 30% of the estimated cost of project, not having incurred loss in more than two years, during last 5 years ending 31 Mar 2025. The documents submitted should be duly certified and audited by Chartered Accountant with UDIN No. Summary statement in support of the above shall be submitted as per ANNEXURE-III.
- 1.3.6.** Net worth Certificate of minimum 15% of the estimated cost issued by certified chartered accountants with UDIN is to be submitted. (Format enclosed as Annexure-IV).

## 2. INFORMATION TO BIDDERS

### 2.1 SCOPE OF WORK

- 2.1.1 The IITKGP intends for Routine civil maintenance work in Academic Zone (For Steel Technology Centre, Aerospace Engineering dept., Materials Science Centre, JCG & PCR G+7 Building, Ocean Engg and Naval Architecture Dept., New Chemical Engineering Annex Building, SMST (old NCC), Central Store, RDC, CRR Building & Others). The work consists of Routine Civil Maintenance / Repair and renovation/ Construction works at aforesaid area.
- 2.1.2 **Constraint:** (i) The job needs to be executed in **Academic Zone area** without causing any disturbances to the normal functioning of routine activities/ road networks.
- 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.
- 2.1.4 **Complaints Handling:** -
- All Maintenance complaints shall be got addressed by the contractor to the satisfaction of Engineer in –charge within 3 days from the date of allotment of the “Job Card”
  - Complaints requiring completion time more than 3 days shall be responded specifically by the contractor with the scheme, in consultation with Engineer-in-charge, and timeline for compliance, to the Engineer-in –charge within 3days from the date of allotment of “Job Card”
  - Any complaint left unattended by the contractor beyond 3 days within specific reason on record shall attract levy of penalty of Rs 50/-per complaint per day from 4th day to 7th day and 100/- per complaint per day thereafter recordable from dues to the contractor.
  - In case of emergency situation, contractor should be available 24x7 to attend that specific emergency work.

### 2.2 GENERAL INSTRUCTIONS

- 2.2.1 Bidding documents are to be obtained electronically through websites: *i)* <https://www.iitkgp.ac.in/tenders>; *ii)* <https://eprocure.gov.in/eprocure/app> .
- 2.2.2 This bid document shall be read in conjunction with GCC (General Conditions of Contract) available on [https://www.iitkgp.ac.in/assets/pdf/tenders/GCC\\_CWWWSSHR.pdf](https://www.iitkgp.ac.in/assets/pdf/tenders/GCC_CWWWSSHR.pdf) . An undertaking is enclosed as **Annexure II** regarding this must be signed and accepted by the bidder, while submitting the tender/bid.
- 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 **Provision of land / space:** -
- 2.2.4.1 An area shall be made available by IITKgp to the contractor for storing tools, plants, machinery, equipment and materials required for the work free of charge during concurrency of the contract. Location and size of the area so to be made available as during work progression and shall be decided by Engr.-in-charge, whose direction shall be final & binding.
- 2.2.4.2 An interest-free refundable deposit @ ₹1000/- (One thousand only) per sqm shall be deposited in suitable form by the successful bidder in addition to PG before occupation of the area so provisioned /provided.
- 2.2.4.3 No labour or worker shall be allowed to stay within the campus, except watchmen of the contractor for the watch and ward of his/her stores within the area provided for the purpose.
- 2.2.4.4 Area retained by the contractor after completion of work and before end of DLP shall be 25% of the area during work progression or 150 sqft whichever is more.
- 2.2.4.5 In case of contractor executing multiple works, the area providable shall be 50% of the sum total of area provisioned in each contract or the largest area provisioned in any of his / her contract, whichever is more.
- 2.2.4.6 Conditions of the area provisions shall remain concurrent with the contract. Contractor shall be liable to release the non-entitled area immediately after completion of work and end of DLP to avoid penal rents.
- 2.2.4.7 Penal rent @ ₹500/- (Only Five Hundred only) per sqm per month shall be applicable in case of contractor fails to vacate the space after end of the contract or end of DLP whichever is earlier.
- 2.2.4.8 IITKgp shall be at liberty to take over the non-vacated area and their belongings after giving 15 days’ notice to the contractor if he/ she fails to vacate the area along with recovery of penal rent till the date of area being taken



over by IITKgp. The contractor shall also have no claim to any payment of compensation or otherwise whatsoever, on account of non-availability/allocation of space/land by IIT Kgp.

- 2.2.4.9** Belongings in the taken over land shall be disposed by IITKgp at the contractor's risk and cost.
- 2.2.5** All clarifications about the tender and the applicable terms and conditions of the contract and/or General Conditions of contract and/or applicable laws 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 [bithika@adm.iitkgp.ac.in](mailto:bithika@adm.iitkgp.ac.in). 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. The value of completed/executed work, net of any penalties or other deductions, shall be deemed the satisfactory completion value for evaluation.
- 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), Addendum/Corrigenda, Clarifications to Pre-bid queries can be downloaded from the websites: *i) <https://www.iitkgp.ac.in/tenders>; ii) <https://eprocure.gov.in/eprocure/app>*. Corrigenda, if any shall be published only on these websites at any time before the closing time of tender. The institute shall not be responsible for any delay / difficulties / inaccessibility of downloading facility for any reason whatsoever. *The tenderers who have downloaded the tender documents from website must visit the website and ensure that such addendum(s)/corrigendum(s) (if any) is also downloaded by them. This shall be the responsibility of the prospective registered bidders to check the web site for any such corrigendum/addendum before closing time of tender and ensure that bid submitted by them are in accordance with all the corrigenda/addenda.*
- 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 (in the uploaded Excel Template having form of contract as "Percentage") 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 actual date of opening of technical bid.
- 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 in the original period (and extended period, if any) & 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 as per prevailing Government norms. And the Bidder must be submitting the undertaking regarding Blacklisting / Non-Debarment on company / Firm's letterhead (**ANNEXURE-C**).
- 2.2.15** **Earnest Money Deposit (EMD)** of requisite amount and that in prescribed mode or proof of payment thereof shall be submitted 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:
- 2.2.17.1** The bidder withdraws / modifies his tender during the period of Bid Validity.
- 2.2.17.2** The bidder, in case of tie between lowest bids, refuse to submit revised offer.



- 2.2.17.3 The bidder does not accept the correction of arithmetical errors of his tender.
- 2.2.17.4 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.
- 2.2.18 The provisions of Public Procurement (Preference to Make in India), Order 2017 and subsequent amendments issued from time to time by Department for Promotion of Industry & Internal Trade (DPIIT), Ministry of Commerce and Industry, Government of India shall be applicable. Undertaking/ Declaration of Local Contents as per **Annexure-A** and also undertaking regarding restrictions on procurement from a bidder of a country which shares a land border with India as per **Annexure-B** shall be submitted along with the Tender.

### 2.3 SUBMISSION OF TENDER

- 2.3.1 Help for Contractors, FAQ, Information about DSC and Bidders Manual Kit containing the detailed guidelines for e-Procurement system are also available on Central Public Procurement Portal.[<https://eprocure.gov.in/eprocure/app>]
- 2.3.2 It is mandatory for all the bidders to have a valid Class-II/Class-III Digital Signature Certificate (in the name of person having power of attorney to sign the Bid) from any of the licensed Certifying Agency (Bidders can see the list of licensed CA's from the link [www.cca.gov.in](http://www.cca.gov.in)) to participate in e-Procurement of IIT KHARAGPUR.
- 2.3.3 It is mandatory for the bidders to get their firm /company registered with IIT Kharagpur as well as with e-procurement portal to have Vendor Code, User ID & Password. You may follow the below mentioned links-

For IIT Kharagpur: <https://erp.iitkgp.ac.in/SupplierFacilities/login.htm>

For e-procurement portal: <https://eprocure.gov.in/eprocure/app> <https://eprocure.gov.in/eprocure/app>

IIT KGP shall not be liable for delay in processing or non-processing of the payment or refund in the absence of Vendor Code registration.

- 2.3.4 Tender documents will be available online on website <https://eprocure.gov.in/eprocure/app> which can be downloaded free of cost.
- 2.3.5 Bidders may download and refer the "Instructions for Online Bid Submission" from (<https://eprocure.gov.in/eprocure/app;jsessionid=2A56E178EED5C7D8536175EFBB573C9F.eprocgep2?page=HelpForContractors&service=page>).
- 2.3.6 The tender documents shall be submitted online in the prescribed format given on the websites and technical bids received online shall be opened as per NIT or Corrigendum thereof. No other mode of submission is acceptable. Detailed credentials as per the requirement of eligibility criteria and all tender papers except Bill of Quantities are to be submitted in "Technical Bid".

Rate Quoted to be submitted in the format provided online in the name of "Financial Bid".

Representative of the bidder, who chooses to attend, may attend the online opening of the technical bids on the scheduled date and time of Bid opening. However, such representatives shall be allowed to attend the opening of the Technical Bids, only, if such person presents the letter of authority issued in his name by the bidder on his letter head.

- 2.3.7 Bidders cannot submit the tender after the due date and time of e-bid submission. Time being displayed on Central Public Procurement Portal <https://eprocure.gov.in/eprocure/app> ("Server System Clock Time") shall be final and binding on the bidder. e-Bids are required to be submitted by bidders, only as per the Indian Standard Time (IST) and not the time as per their location/country.
- 2.3.8 The bidders are advised to submit their e-bids well before the e-bid due date. IIT KHARAGPUR shall not be responsible for any delay in submission of e-bids for any reason including server and technical problems.
- 2.3.9 The Technical and Financial Bid shall be digitally signed by the Authorized Signatory of the bidder & submitted "on-line". However, hard copies of the complete 'Technical Bid documents' shall be submitted in a sealed envelope super scribed with "Hard Copy of Technical Bid/Tender Documents for NIT No: ..... Dt. ....for the work: .....".

#### No price bid to be submitted offline.

The authorized signatory of the bidder must be in possession of Power of Attorney before submitting the digitally signed bid online. Scanned copies of various documents can be prepared in .pdf file format.

- 2.3.10 Any tender received without original Earnest Money in the form as specified in the tender documents shall not be considered and shall be summarily rejected.



- 2.3.11 IIT KHARAGPUR reserves the right to cancel the tenders before submission/opening of tenders, postpone the tender submission/opening date and to accept/reject any or all tenders without assigning any reasons thereof. IIT KHARAGPUR's assessment of suitability as per eligibility criteria shall be final and binding.
- 2.3.12 Tenderers may note that they are liable to be disqualified at any time during tendering process in case any of the information furnished by them is not found to be true. The decision of IIT KHARAGPUR in this regard shall be final and binding.
- 2.3.13 **EMDs** shall be submitted in an envelope super scribed "NIT No: ..... Dt. ....for the work: ....."

## 2.4 EVALUATION OF BIDS AND AWARD OF WORK

- 2.4.1 The Bid of bidder will be opened electronically on the specified date and time of opening at the in the presence of willing bidders or their authorized representatives.
- 2.4.2 Bids shall, first, be checked for payment of Earnest Money Deposit (if applicable). Only those bids found to have duly paid/ submitted Earnest Money Deposit shall be considered for evaluation. EMD not submitted within due date as per NIT Clause shall be summarily rejected.
- 2.4.3 **Evaluation of Technical Bid:** The bids received will then be assessed on the eligibility criteria mentioned at Para 1.3 of Notice Inviting Tender.
- 2.4.4 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. Bids found not meeting the eligibility criteria shall be considered non-responsive and shall be rejected summarily.
- 2.4.5 **Date & time for opening of Financial Bid:** The Financial Bid or the Revised Financial Bids as the case may be will be opened on specified date and time, which will be intimated to qualified bidder through CPP Portal.
- 2.4.6 **EVALUATION OF Financial Bids:** Unless otherwise stipulated, evaluation of the financial bids shall be on the price criteria only. Financial Bids of all Technically Qualified bids are evaluated and ranked to determine the lowest priced bidder.
- 2.4.7 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**.
- 2.4.8 **Letter of Award** shall be issued to the successful bidder. The Work Order will be issued only after receipt of the Performance Guarantee, along with Program Schedule and the details of Technical Staff to be deployed for the work. Delay in actual commencement of the works due to delay in completion of the procedural formalities shall fully rest upon the contractor and no claim of the contractor shall be entertained on this account. The actual handing over of site to the contractor shall be endorsed by the Engineer-in-charge in the Site Order book and the same shall be duly acknowledged and accepted by the contractor.
- 2.4.9 **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.
- 2.4.10 **Date of start** of work shall be reckoned from 7<sup>th</sup> day from the date of issue of "Letter of Acceptance".

## 2.5 TECHNICAL STAFF OF CONTRACTOR: -

The contractor shall deploy well-trained, qualified and skilled professionals at site of work to execute only quality work, and responsible for the consequences that would arise on his/her failure to do so. In order to effectively operate, certain instructions on this clause are given below:

The contractor shall provide the details i.e. name(s), qualifications, and address(es) of the qualified Engineer(s) required to be employed by him/her as per terms of the contract.

2.5.1 The following shall be strictly advised to by the contractor: -

- Engineer(s) deployed as per stipulation in the contract looks after only the work under contract and no other work and is available fully during execution of work.
- Even if contractor (or partner in case of firm/company) is himself/herself an Engineer, it is necessary on part of contractor to employ Engineer(s) and/or/Overseer for the supervision of the work(s) as per stipulation.





- c. The Retired Executive Engineer/Assistant Engineer who is holding Diploma is treated at par with Graduate Engineers for the operation of the Clause. Diploma holder with minimum 10-year relevant experience with a reputed construction company can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.
- 2.5.2 The contractor shall provide all necessary superintendence during execution of the work and all along thereafter as may be necessary for proper fulfilling of the obligations under the contract. The contractor shall immediately after receiving letter of acceptance of the tender and before commencement of the work, intimate in writing to the Engineer-in-Charge, the name(s), qualifications, experience, age, address(s) and other particulars along with certificates, of the principal technical representative to be in charge of the work and other technical representative(s) who will be supervising the work as already mentioned above. The Engineer-in-Charge shall within 3 days of receipt of such communication intimate in writing his approval or otherwise of such a representative(s) to the contractor. Any such approval may at any time be withdrawn and in case of such withdrawal, the contractor shall appoint another such representative(s) according to the provisions of this clause. Decision of the tender accepting authority shall be final and binding on the contractor in this respect. Such a principal technical representative and other technical representative(s) shall be appointed by the contractor soon after receipt of the approval from Engineer-in-charge and shall be available at site before start of work.
- 2.5.3 All the provisions applicable to the principal technical representative under the Clause will also be applicable to other technical representative(s) The principal technical representative and other technical representative(s) shall be present at the site of work for supervision at all times when any construction activity is in progress and also present himself/themselves, as required, to the Engineer-in-Charge and/or his designated representative to take instructions. Instructions given to the principal technical representative or other technical representative(s) shall be deemed to have the same force as if these have been given to the contractor. The principal technical representative and other technical representative(s) shall be actually available at site fully during all stages of execution of work, during recording/checking/test checking of measurements of works and whenever so required by the Engineer-in-Charge and shall also note down instructions conveyed by the Engineer-in-Charge or his designated representative(s) in the site order book and shall affix his/their signature in token of noting down the instructions and in token of acceptance of measurements/checked measurements/ test checked measurements. The representative(s) shall not look after any other work. Substitutes, duly approved by Engineer-in-Charge of the work in similar manner as aforesaid shall be provided in event of absence of any of the representative(s) by more than two days.
- 2.5.4 If the Engineer-in-Charge, whose decision in this respect is final and binding on the contractor, is convinced that no such technical representative(s) is/are effectively appointed or is/are effectively attending or fulfilling the provision of this clause, a recovery (non-refundable) shall be effected from the contractor as specified in **Annexure-I** and the decision of the Engineer-In-Charge as recorded in the site order book and measurement recorded checked/test checked in Measurement Books shall be final and binding on the contractor. Further if the contractor fails to appoint suitable technical Principal technical representative and/or other technical representative(s) and if such appointed persons are not effectively present or are absent by more than two days without duly approved substitute or do not discharge their responsibilities satisfactorily, the Engineer-in-Charge shall have full powers to suspend the execution of the work until such date as suitable other technical representative(s) is/are appointed and the contractor shall be held responsible for the delay so caused to the work. The contractor shall submit a certificate of employment of the technical representative(s) (in the desired format along with every on account bill/ final bill or as directed and shall produce evidence if at any time so required by the Engineer-in-Charge.
- 2.5.5 Requirement of technical staff for a work is decided and stipulated in NIT and LOA. Decision of the tender accepting authority or the Engineer-in-Charge shall be final and binding on the contractor in this respect. Recovery shall be made from the contractor in the event of not fulfilling this based on the guidelines given at **Annexure-I**.
- 2.5.6 The contractor shall provide and employ on the site only such technical assistants as are skilled and experienced in their respective fields and such foremen and supervisory staff as are competent to give proper supervision to the work. The contractor shall provide and employ skilled, semiskilled and unskilled labour as is necessary for proper and timely execution of the work. The Engineer-in-Charge shall be at liberty to object to and require the contractor to remove from the works any person who in his opinion misconducts himself, or is incompetent or negligent in the performance of his duties or whose employment is otherwise considered by the Engineer-in-Charge to be undesirable. Such person shall not be employed again at works site without the written permission of the Engineer-in-Charge and the persons so removed shall be replaced as soon as possible by competent substitutes.
- 2.5.7 The contractor shall provide following documents in support of the deployment of their technical staff for the specific work:
- Appointment letter by the contractor to the technical staff.
  - Letter as above, or a supplementary one to above confirming deployment of the technical staff on the specific work.

- c. Copy of PAN card or Voter ID card of the technical staff in support of his/ her identity.
- d. Copy of Aadhar card of the technical staff in support of his/ her address.
- e. Contact details (phone number and email address) of the technical staff.

**2.6 SPECIAL CONDITIONS OF CONTRACT:**

- a. The rate quoted by the contractor is inclusive of EPF/ESI and all other statutory/non-statutory provisions and no additional payment shall be made to the contractor over and above the quoted rates.
- b. Contractor shall submit monthly attendance sheet/Form-B/Form-VII for all workers. Contractor shall also submit details of EPF/ESI contributions made to these workers. (if applicable).
- c. Payment of monthly bills shall be made only after verification of EPF/ESI contributions by IIT KGP.



### 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 actual date of opening of technical bid 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
Site Engineer / Quality Engineer				

Seal &amp; Signature of Contractor



## \*GENERAL GUIDELINES FOR FIXING REQUIREMENT OF TECHNICAL STAFF \*

Cost of Work	Requirement of Technical Staff		Minimum Experience	Designation of Technical Staff	Rate at which recovery shall be made in the event of non-fulfilling
	Qualification	Minimum Number of staff			
20 to 50 Cr	Graduate Engineer	1	20 years and having experience of similar nature of work	Project Manager	Rs. 60,000/- per month per person
	Graduate Engineer	1	12 years and having experience of similar nature of work	Deputy Project Manager	Rs. 40,000/- per month per person
	Graduate Engineer or Diploma Engineer	2	5 or 10 years	Project/Site Engineer	Rs. 25,000/- per month per person
	Graduate Engineer or Diploma Engineer	2	2 or 5 years	Project/Planning/Quality /Billing Engineer	Rs. 15,000/- per month per person
10 to 20 Cr	Graduate Engineer	1	10 years and having experience of similar nature of work	Project Manager	Rs. 30,000/- per month per person
	Graduate Engineer	1	5 years	Project/Site Engineer	Rs. 25,000/- per month per person
	Graduate Engineer or Diploma Engineer	2	2 or 5 years	Project/Planning/Quality /Billing Engineer	Rs. 15,000/- per month per person
5 to 10 Cr	Graduate Engineer	1	5 years and having experience of similar nature of work	Project Manager	Rs. 25,000/- per month per person
	Graduate Engineer or Diploma Engineer	2	2 or 5 years	Project/Planning/Quality /Billing Engineer	Rs. 15,000/- per month per person
1.5 to 5 Cr	Graduate Engineer or Diploma Engineer	2	2 or 5 years	Project manager cum Project/Planning/Quality /Billing/ Site Engineer	Rs. 15,000/- per month per person
15 lakhs to 1.5 Cr	Graduate Engineer or Diploma Engineer	1	2 or 5 years	Project manager cum Project/Planning/Quality /Billing/ Site Engineer	Rs. 15,000/- per month per person

- 'Cost of work,' in table above, means the estimated cost of the work put to tender.
- Requirement of technical staff and their experience can be varied depending upon nature of work by NIT approving authority with recorded reasons.
- The contractor shall submit the details of Technical Staff based on the NIT Clause 2.5 and Annexure-I above.
- In case of contractor executing multiple works, the technical staff required shall be 50% of the sum total of staff in each category required in each contract or the greatest staff strength required in any of his/ her contract whichever is more.

**Seal & Signature of Contractor**



**UNDERTAKING FOR GCC COMPLIANCE****UNDERTAKING**

We hereby undertake that we shall fulfill all the terms & conditions of GCC-IIT Kharagpur within the specified time frame, after the acceptance of our offer in case our offer is accepted; failing which IIT KHARAGPUR may go ahead to take necessary action such as reporting the non-compliance to appropriate Government authorities and barring us from future participation in IIT KHARAGPUR works.

Seal & Signature of Contractor

Dated:



## ANNEXURE - III

Profit and Loss Summary statement of Last 5 Financial years

Approved through Chartered Accountants

**TO WHOM IT MAY CONCERN**

This is to certify that the total turnover and Profit/Loss summary of M/s .....  
 ..... having its registered office at  
 .....  
 .....for last five Financial years are as given below: -

Description	Financial years				
	2020-21	2021-22	2022-23	2023-24	2024-25
Annual Turnover from Operations					
Profit (+)/Loss (-) After Tax					

The above mentioned complete data is true to the best of our knowledge and belief and can be verified using the provided UDIN.

(TO BE VERIFIED BY Chartered Accountants)

UDIN NO. ....



## ANNEXURE-IV

Format for Net Worth Certificate

It is to certify that as per the audited balance sheet and profit & loss account during the financial year ....., the net worth of ..... (individual/farm/company) having registered address at ..... as on 31.03.2025 is Rs.....after considering all liabilities. It is further certified that the net worth of the company has not eroded by more than 30% in the last three years ending on 31.03.2025.

Signature of Chartered Accountant

.....

Name of Chartered Accountant

.....

UDIN No.....

Date & Seal



## ANNEXURE – A

**DECLARATION OF LOCAL CONTENT**

(To be given on Company Letter Head)

Tender No: ..... Dated: .....

To,

**The Registrar,**Indian Institute of Technology (IIT), Kharagpur  
Kharagpur, West Bengal-721302**Subject: Declaration of Local Content-reg.**

1. Country of origin of Goods being offered : .....

2. We hereby declare that items offered has ..... % local content.

(Clarification for Local content calculation as per OM No: P-45021/102/2019-BE-II-Part (1)(E-50310), dated 4th March 2021 of Department of Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, Govt. of India.)

3. The details of the location(s) at which local value addition is made are given in the below table;

Sl. No.	Name of the Item	Location(s) of Local Value addition with Pin Code

“ Local Content” means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

**Important:**

“False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules 2017 for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules 2017 along with such other actions as may be permissible under law.”

Date:

Yours faithfully,

(Signature of the bidder, with Official Seal)



## ANNEXURE – B

**FOR WORKS CONTRACTS, INCLUDING TURNKEY CONTRACTS**

(On Company / firm's Letterhead)

Tender No: ..... Dated :.....

**CERTIFICATE**

I/we have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries and hereby certify that this bidder is not from such a country and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority.

***OR (whichever is applicable)***

I/we have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I/we hereby certify that this bidder is from \_\_\_\_\_ (Name of Country) and has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I/we also certify that this bidder fulfils all the requirements in this regard and is eligible to be considered.

**(Copy/ evidence of valid registration by the Competent Authority is to be attached with the bid document)**

Signature of the Authorized Person

Date: .....

Full Name: .....

Place: .....

Company Seal: .....



## ANNEXURE – C

**UNDERTAKING REGARDING BLACKLISTING / NON – DEBARMENT**  
(On Company / firm's Letterhead)

I/We hereby confirm and declare that we, M/s \_\_\_\_\_, is not blacklisted/ Deregistered/ debarred by any Government department/ Public Sector Undertaking/ Private Sector/ or any other agency for which we have Executed/ Undertaken the works/ Services as on date.

“Submission of Forged document or False declaration in any stage of contract will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules 2017 for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules 2017 along with such other actions as may be permissible under law.”

Signature of the Authorized Person

Date: -----

Full Name: -----

Place: -----

Company Seal: -----



## ANNEXURE-D

DETAILS OF THE BIDDER

1	Name of the Firm	
2	Address for Communication	
3	Email id (shall be working up to end of contract period/DLP)	
4	Particulars of Registration with Government / Semi Government Organizations/ Government Funded Autonomous Organization etc. like CPWD/ PWD/ MES/IIT or PSUs (if available)	
5	Legal Status of the Bidder:- a) A Proprietary Firm b) A Partnership Firm c) A Limited Company d) A Consortium	
6	Name of the Authorized Personnel/Signatory/ Person having Power of Attorney	
7	Mobile No.	
8	Telephone No.	
9	Permanent Account Number (PAN) No.	
10	GST Registration No.	
11	IIT Kgp Vendor Code (if available)	

Signature with seal



4. Checklist for Documents to be uploaded on <https://eprocure.gov.in/eprocure/app> (To be filled by Bidder)

Sl. No.	Documents (Sealed and signed))	Page Number
1.	Tender Documents	
2.	EMD	
3.	Document support of Bonafide Business Entity	
4.	GST Registration Certificate	
5.	Permanent Account Number	
6.	Average annual turnover of the bidder as per ITCC or profit and loss statement for last 5 year	
7.	Experience Certificate	
8.	ANNEXURES – I,II,III,IV, A,B,C,D	
9.	BOQ	



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

**Name of Work: Routine civil maintenance work in Academic Zone (For Steel Technology Centre, Aerospace Engineering, Materials Science, JCG & PCR G+7 Building , Ocean Engg and Naval Architecture Dept., New Chemical Engineering Annex building, SMST (Old NCC), Central Store, RDC, CRR Building & Others ) for the year 2025-2026.**

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	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	5.00	2434.25	12,171.25
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	3551.25	7,102.50
3	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer-in-charge.	Sqm	5.00	1147.20	5,736.00
4	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	2060.20	4,120.40
5	Dismantling doors, windows and clerestory windows (steel or wood) shutter including frame, chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead. Of area 3 sq. metres and below.	Each	5.00	367.20	1,836.00
6	Dismantling doors, windows and clerestory windows (steel or wood) shutter including frame, chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead. Of area beyond 3 sq. metres.	Each	5.00	502.75	2,513.75
7	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead. Of area 3 sq. metres and below.	Each	5.00	143.50	717.50
8	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead. Of area beyond 3 sq. metres.	Each	5.00	188.90	944.50
9	Dismantling wood work in frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead. Of sectional area 40 square centimetres and above.	Cum	1.00	4459.10	4,459.10
10	Dismantling wood work in frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead. Of sectional area below 40 square centimetres.	Mtr.	20.00	17.85	357.00
11	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	20.00	73.40	1,468.00
12	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles above 25 mm and up to 40 mm.	Sqm	20.00	113.35	2,267.00
13	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of: Asbestos cement sheet	Sqm	5.00	77.30	386.50
14	Dismantling and stacking within 50 metres lead, fencing posts or struts including all earth work and dismantling of concrete etc. in base of: R.C.C.	Each	10.00	243.30	2,433.00
15	Dismantling precast concrete or stone slabs in walls, partition walls etc. including stacking within 50 metres lead. Thickness up to 40 mm.	Sqm	5.00	289.30	1,446.50
16	Dismantling precast concrete or stone slabs in walls, partition walls etc. including stacking within 50 metres lead. Thickness above 40 mm up to 75 mm.	Sqm	5.00	433.55	2,167.75
17	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	350.00	54.65	19,127.50
18	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in- charge.	Sqm	10.00	56.35	563.50
19	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	50.00	263.95	13,197.50
20	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in-Charge: All kinds of soil.	Sqm	5.00	129.85	649.25
21	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	20.00	260.30	5,206.00

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
22	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	20.00	196.00	3,920.00
23	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	5.00	2123.75	10,618.75
24	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m. All kinds of soil	Sqm	20.00	34.15	683.00
25	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared	Sqm	20.00	17.60	352.00
26	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	Sqm	20.00	8.95	179.00
27	Supplying chemical emulsion in sealed containers including delivery as specified.Chlorpyriphos/Lindane emulsifiable concentrate of 20%.	litre	5.00	234.75	1,173.75
28	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion)Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor.With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.	Sqm	20.00	310.05	6,201.00
29	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : Treatment of existing masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole. With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.	Mtr.	8.00	43.00	344.00
30	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) Treatment at points of contact of wood work by chemical emulsion Chlorpyriphos/ Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same.	Mtr.	12.00	279.70	3,356.40
31	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	10.00	7178.75	71,787.50
32	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to any level. 1:2:4 (1 cement : 2 coarse sand (zone-III) :4 graded stone aggregate 20 mm nominal size).	Cum	5.00	7878.50	39,392.50
33	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level ,1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size).	Cum	5.00	9045.75	45,228.75
34	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	Cum	1.00	8583.40	8,583.40
35	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	1.00	10852.95	10,852.95
36	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	0.50	11505.50	5,752.75
37	Centering and shuttering including strutting, propping etc. and removal of form for all heights. Foundations, footings, bases of columns, etc. for mass concrete .	Sqm	20.00	392.15	7,843.00
38	Centering and shuttering including strutting, propping etc. and removal of form for all heights. Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	Sqm	1.00	842.50	842.50
39	Centering and shuttering including strutting, propping etc. and removal of form for all heights. Suspended floors, roofs, landings, balconies and access platform,shelves (Cast in situ).	Sqm	20.00	927.25	18,545.00
40	Centering and shuttering including strutting, propping etc. and removal of form for all heights. Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	25.00	736.40	18,410.00
41	Centering and shuttering including strutting, propping etc. and removal of form for all heights. Columns, piers, abutments, pillars, posts and struts.	Sqm	20.00	961.30	19,226.00

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
42	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured). Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	Sqm	5.00	384.30	1,921.50
43	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto any level.Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	250.00	107.85	26,962.50
44	Providing and filling in position bitumen mix filler of proportion 80 kg. of hot bitumen, 1 kg. of cement and 0.25 cubic metre of coarse sand for expansion joints.	Cum	0.50	28212.60	14,106.30
45	Providing and fixing sheet covering over expansion joints with iron screws as per design. Aluminium fluted strips 3.15 mm thick. 150 mm wide	Mtr.	5.00	567.60	2,838.00
46	Providing and fixing in position Stainless steel Grade 304 plate-1.0 mm thick as per design for expansion joints. 200 mm wide.	Mtr.	7.00	859.75	6,018.25
47	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	10.00	7132.25	71,322.50
48	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	5.00	9105.95	45,529.75
49	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in : cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	50.00	905.05	45,252.50
50	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	50.00	1123.80	56,190.00
51	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	Sqm	10.00	104.80	1,048.00
52	Brick work with clay fly ash F.P.S. (non modular) brick of class designation 7.5 in superstructure above plinth level up to floor five level in :Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	10.00	9095.05	90,950.50
53	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	Mtr.	10.10	60.85	614.59
54	Half brick masonry with non modular fly ash bricks of class designation 10, conforming to IS :12894, in super structure above plinth and upto floor V level.Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Sqm	50.00	1105.80	55,290.00
55	Analysis of rate for Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in foundation and plinth in:Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	1.50	6974.83	10,462.25
56	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble,Area of slab over 0.50 sqm	Sqm	5.00	3078.40	15,392.00
57	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shad, Area of slab over 0.50 sqm	Sqm	15.00	5136.30	77,044.50
58	Providing and fixing plywood 4 mm thick, one side decorative veneer conforming to IS: 1328 (type-1), for plain lining / cladding with necessary screws, including priming coat on unexposed surface with :Decorative veneer facings of approved manufacture.	Sqm	3.00	1946.25	5,838.75
59	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	200.00	1267.95	2,53,590.00
60	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	0.30	116520.30	34,956.09
61	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. 35 mm thick shutters.	Sqm	5.00	2869.10	14,345.50
62	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	5.00	2676.85	13,384.25

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
63	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :Kiln seasoned and chemically treated hollock wood.	Sqm	5.00	2327.10	11,635.50
64	Extra for providing frosted glass panes 4 mm thick (weight not less than 10 kg per sqm) instead of ordinary float glass panes 4 mm thick (weight not less than 10 kg per sqm) in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	Sqm	5.00	176.40	882.00
65	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: 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	Sqm	20.00	2392.65	47,853.00
66	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	Sqm	10.00	462.35	4,623.50
67	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured): Rectangular or square	Sqm	3.00	199.15	597.45
68	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete :Kiln seasoned and chemically treated hollock wood,50x20 mm.	Mtr.	5.00	213.20	1,066.00
69	Providing and fixing teak wood lipping of size 25x3 mm in pelmet etc.	Mtr.	10.00	73.70	737.00
70	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets : 20 mm dia (heavy type)	Mtr.	10.00	175.00	1,750.00
71	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.Fixed to steel windows by welding.	Kg	200.00	219.10	43,820.00
72	Providing and fixing hard drawn steel wire fabric 75x25 mm mesh of weight not less than 7.75 Kg per sqm to window frames etc. including 62x19 mm beading of second class teak wood and priming coat with approved steel primer all complete.	Sqm	5.00	1641.15	8,205.75
73	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	Each	6.00	228.85	1,373.10
74	Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete : 100x58x1.90 mm.	Each	30.00	45.00	1,350.00
75	Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete : 75x47x1.70 mm.	Each	3.00	39.30	117.90
76	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :250x16 mm.	Each	2.00	193.70	387.40
77	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :250x10 mm	Each	2.00	83.90	167.80
78	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :150x10 mm	Each	2.00	59.45	118.90
79	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :100x10 mm	Each	1.00	44.30	44.30
80	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :100 mm.	Each	10.00	32.55	325.50
81	Providing and fixing oxidised M.S. hasp and staple (safety type) conforming to IS : 363 with necessary screws etc. complete :90 mm.	Each	2.00	25.30	50.60
82	Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.250 mm weighing not less than 150 gms.	Each	10.00	61.05	610.50
83	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete : 75x47x1.80 mm	Each	30.00	80.05	2,401.50
84	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete : 50x37x1.50 mm	Each	9.00	43.75	393.75
85	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete : 250x10 mm	Each	9.00	441.60	3,974.40
86	Providing and fixing bright finished brass door latch with necessary screws etc. complete : 250x16x5 mm	Each	9.00	308.00	2,772.00
87	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete. 40 mm	Each	9.00	311.20	2,800.80
88	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	Each	30.00	121.65	3,649.50
89	Providing and fixing special quality chromium plated brass cupboard locks with six levers of approved quality including necessary screws etc. complete.Size 40 mm.	Each	25.00	319.75	7,993.75
90	Providing and fixing chromium plated brass handles with necessary screws etc. complete:75 mm.	Each	20.00	176.40	3,528.00
91	Providing and fixing chromium plated brass casement window fastener with necessary screws etc. complete.	Each	5.00	155.45	777.25
92	Providing and fixing ISI marked aluminium butt hinges 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:75x63x4 mm	Each	6.00	87.90	527.40
93	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	20.00	260.60	5,212.00

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
94	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 : 250x10 mm	Each	10.00	115.15	1,151.50
95	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 : 150x10 mm	Each	10.00	82.55	825.50
96	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete.100x10 mm	Each	20.00	64.70	1,294.00
97	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	20.00	59.55	1,191.00
98	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. complete. Double strip (horizontal type)	Each	5.00	39.70	198.50
99	Providing and fixing powder coated telescopic drawer channels 300 mm long with necessary screws etc. complete as per directions of Engineer-in-charge	one set	2.00	414.20	828.40
100	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 Engineer-in-charge. Extruded section profile size 48x40 mm.	Mtr.	5.20	270.20	1,405.04
101	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 Engineer-in-charge. Extruded section profile size 42x50 mm.	Mtr.	5.20	331.35	1,723.02
102	Providing and fixing to existing door frames. 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. galvanized/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanized 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/ galvanized 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 galvanized M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.	Sqm	2.10	3253.80	6,832.98
103	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality. 1.0 mm thick.	Sqm	2.00	897.30	1,794.60
104	Providing and fixing plain lining with necessary screws/nuts & bolts/ nails, including a coat of approved primer on one face, and fixed on wooden /steel frame work, complete as per direction of Engineer-in-charge (Frame work shall be paid for separately).12mm thick commercial ply conforming to IS : 1328 BWR type.	Sqm	2.00	1224.65	2,449.30
105	Providing and fixing stainless steel (SS-304 grade) friction hinges to the side/top hung uPVC windows, of approved quality, with necessary stainless steel screws etc. as per direction of Engineer-in-charge. 200 x 19 x 1.9 mm	Each	3.00	381.30	1,143.90
106	Providing and fixing stainless steel (SS-304 grade) friction hinges to the side/top hung uPVC windows, of approved quality, with necessary stainless steel screws etc. as per direction of Engineer-in-charge. 300 x 19 x 1.9 mm	Each	3.00	459.55	1,378.65
107	Providing and fixing casement handle made of zinc alloyed (white powder coated) for uPVC casement window with necessary screws etc. complete.	Each	5.00	231.05	1,155.25
108	Providing and fixing zinc alloyed (white powder coated) touch lock for uPVC sliding window with necessary screws etc. complete.	Each	5.00	204.00	1,020.00
109	Providing and fixing steel roller for uPVC sliding window with necessary screws etc. complete.	Each	5.00	115.80	579.00
110	Providing and fixing steel (white power coated) crescent lock for uPVC sliding window/ door with necessary screws etc. complete.	Each	5.00	198.30	991.50
111	Providing and fixing stainless steel fancy handle of approved make fixed with SS screws etc. complete as per direction of Engineer-in-charge. 200 mm	Each	5.00	186.65	933.25
112	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	50.00	117.35	5,867.50
113	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	100.00	133.70	13,370.00

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
114	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	Sqm	3.00	11439.60	34,318.80
115	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	3.00	5804.35	17,413.05
116	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. 80x1.20 mm M.S. laths with 1.20 mm thick top cover	Sqm	6.00	3307.05	19,842.30
117	Providing and fixing ball bearing for rolling shutters.	Each	5.00	492.35	2,461.75
118	Extra for providing mechanical device chain and crank operation for operating rolling shutters.Exceeding 10.00 sqm and upto 16.80 sqm in the area	Sqm	6.00	1281.35	7,688.10
119	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	20.00	131.05	2,621.00
120	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.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	10.00	141.70	1,417.00
121	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.Hot finished welded type tubes.	Kg	100.00	194.40	19,440.00
122	Welding by gas or electric plant including transportation of plant at site etc. complete.	cm	50.00	3.70	185.00
123	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	Kg	10.00	172.60	1,726.00
124	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. M.S. tube.	Kg	15.00	196.80	2,952.00
125	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	10.00	772.40	7,724.00
126	Providing and fixing angle iron frames for doors, windows and ventilators of mild steel Angle sections of size 35x35x5 mm, joints mitred and welded by angle iron 35x35x5 mm or 35x 5 mm flat pieces to the existing T-iron frame or to the wall with dash fastener, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer, all complete as per the direction of Engineer-In-charge.	Kg	15.00	130.50	1,957.50
127	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	50.00	614.20	30,710.00
128	Providing and fixing glass strips in joints of terrazo/ cement concrete floors.40 mm wide and 4 mm thick.	Mtr.	150.00	91.75	13,762.50
129	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand). Dark shade pigment using ordinary cement	Sqm	10.00	1119.50	11,195.00

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
130	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 flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand). Acid and alkali resistant tile	Sqm	5.00	1738.15	8,690.75
131	Marble stone flooring with 18 mm thick marble stone, as per sample of marble approved by Engineer-in-charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry, including rubbing and polishing complete with : Raj Nagar plain.	Sqm	5.00	2346.80	11,734.00
132	Extra for pre finished nosing to treads of steps of marble stone.	Mtr.	5.00	719.90	3,599.50
133	Extra for marble stone flooring in treads of steps and risers using single length up to 2.00 metre.	Sqm	5.00	851.80	4,259.00
134	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick.	Sqm	20.00	1948.25	38,965.00
135	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	Sqm	15.00	2354.70	35,320.50
136	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	65.00	1096.55	71,275.75
137	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer ) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	50.00	1112.70	55,635.00
138	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 all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of 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 pigments etc., complete.	Sqm	50.00	1315.30	65,765.00
139	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	250.00	1553.45	3,88,362.50
140	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete.Size of Tile 600x600 mm	Sqm	20.00	1623.05	32,461.00
141	Providing and laying Vitrified 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 brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).Size of Tile 600x600 mm.	Sqm	20.00	1893.90	37,878.00
142	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge.Size of Tile 600x600 mm.	Sqm	750.00	309.05	2,31,787.50
143	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).Size of Tile 600x600 mm	Sqm	250.00	1725.35	4,31,337.50
144	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to 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. 0.63 mm thick with zinc coating not less than 275 gm/ m <sup>2</sup>	Sqm	5.00	1087.65	5,438.25

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
145	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete. 0.63 mm thick with zinc coating not less than 275 gm/m <sup>2</sup>	Mtr.	5.00	980.50	4,902.50
146	Providing and fixing M.S. holder bat clamps of approved design to C.I. or S.C.I. rain water pipes embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and cost of cutting holes and making good the walls etc. :100 mm diameter.	Each	5.00	362.85	1,814.25
147	Providing lead caulked joints to sand cast iron rain water pipes and fittings:100 mm dia Pipe.100 mm dia Pipe.	Each	5.00	580.50	2,902.50
148	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.110 mm diameter.	Mtr.	25.00	377.40	9,435.00
149	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Single tee with door,110x110x110 mm.	Each	5.00	234.15	1,170.75
150	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Single tee without door,110x110x110 mm.	Each	5.00	221.35	1,106.75
151	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Bend 87.5°,110 mm bend.	Each	5.00	150.35	751.75
152	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Shoe (Plain),110 mm Shoe.	Each	5.00	131.85	659.25
153	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.110 mm.	Each	10.00	371.30	3,713.00
154	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	Each	2.00	54.70	109.40
155	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I) : 2011 (Board with BIS certification marks)	Sqm	10.00	1355.80	13,558.00
156	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	15.00	738.65	11,079.75
157	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, 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 using self drilling/ self tapping screws complete : Ridges plain (500 - 600mm)	Mtr.	2.50	532.35	1,330.88

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
158	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, 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 using self drilling/ self tapping screws complete : Gutter .(600 mm over all girth)	Mtr.	5.00	1313.70	6,568.50
159	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections ( galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.	Sqm	10.00	2068.75	20,687.50
160	12 mm cement plaster of mix :1:6 (1 cement: 6 sand)	Sqm	50.00	333.35	16,667.50
161	15 mm cement plaster on rough side of single or half brick wall of mix:1:6 (1 cement: 6 sand)	Sqm	500.00	383.00	1,91,500.00
162	20 mm cement plaster of mix :1:6 (1 cement: 6 sand)	Sqm	275.00	450.00	1,23,750.00
163	Neat cement punning.	Sqm	100.00	79.95	7,995.00
164	Distemping with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour : New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	Sqm	1500.00	185.65	2,78,475.00
165	Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sqm	1000.00	160.60	1,60,600.00
166	Applying one coat of exterior primer of approved brand and manufacture on wall surface @ 2.2 kg /10 sqm.	Sqm	2500.00	39.85	99,625.00
167	Applying priming coat: With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	Sqm	30.00	67.40	2,022.00
168	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	Sqm	150.00	155.90	23,385.00
169	Painting with aluminium paint of approved brand and manufacture to give an even shade.Two or more coats on new work.	Sqm	50.00	146.80	7,340.00
170	Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade :	Sqm	25.00	140.25	3,506.25
171	Extra for addition of synthetic Polyester triangular fibre of length 6 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40 in cement plaster/mortar by using 125 gms. of synthetic Polyester triangular fibre for 50 Kgs. cement used in cement mortar as per directions of Engineer-in-Charge.	per bag of 50kg of cement	50.00	78.35	3,917.50
172	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	1500.00	156.05	2,34,075.00
173	Distemping with 1st quality acrylic distemper, 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. Old work (one or more coats)	Sqm	1000.00	62.70	62,700.00
174	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. One coat	Sqm	3000.00	95.45	2,86,350.00
175	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	5000.00	142.80	7,14,000.00
176	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	30.00	70.35	2,110.50
177	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content.With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	Sqm	5000.00	73.95	3,69,750.00
178	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	Sqm	6800.00	19.75	1,34,300.00
179	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : One or more coats on old work	Sqm	50.00	102.80	5,140.00

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
180	Polishing on wood work with ready made wax polish of approved brand and manufacture :Old work	Sqm	80.00	99.80	7,984.00
181	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	1500.00	120.75	1,81,125.00
182	Finishing walls with Acrylic Smooth exterior paint of required shade: Old work (One or more coat applied @ 0.90 ltr/10 sqm).	Sqm	500.00	80.65	40,325.00
183	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 within 50 metres lead, all complete as per directions of Engineer-In-Charge.With cement mortar 1:4 (1cement: 4 coarse sand)	Sqm	100.00	560.50	56,050.00
184	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty. Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	Sqm	100.00	1090.65	1,09,065.00
185	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty. Float glass panes of nominal thickness 5 mm (weight not less than 12.5kg/sqm)	Sqm	25.00	1416.15	35,403.75
186	Renewal of old putty of glass panes (length).	Mtr.	90.00	56.15	5,053.50
187	Refixing old glass panes with putty and nails	Sqm	10.00	729.85	7,298.50
188	Renewing bottom rail and/or top runner of collapsible gate including making good all damages and applying priming coat of zinc chromate yellow primer of approved brand and manufacturer.	Kg	10.00	298.85	2,988.50
189	Providing and fixing bright finished brass double acting spring hinges with necessary brass screws etc. complete :100 mm	Each	2.00	726.65	1,453.30
190	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineerin-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding.Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done.	Sqm	25.00	338.25	8,456.25
191	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	Sqm	99.00	3.45	341.55
192	Taking out existing wooden door shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge.	Each	20.00	429.10	8,582.00
193	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ litre and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/ 450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane :3 mm thick.	Sqm	25.00	537.45	13,436.25
194	Supplying at site,R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with 6mm TMT deformed bar wherever required as per direction of Engineer-incharge (cost of earth works in excavation, concrete works in foundation to be paid separately).	Cum	0.50	32891.20	16,445.60
195	Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar ribs fixed while casting the post,(cost of R.C.C. posts, struts, earth work and concrete to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used.With G.I. barbed wire.	Mtr.	25.00	14.00	350.00
196	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	10.00	972.00	9,720.00
197	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.Made of G.I. wire of dia 4 mm.	Sqm	10.00	1017.80	10,178.00

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
198	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests.	Each	1.00	6767.40	6,767.40
199	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :W.C. pan with ISI marked white solid plastic seat and lid.	Each	1.00	6515.55	6,515.55
200	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required : Single half stall urinal with 5 litre P.V.C. automatic flushing cistern.	Each	1.00	12071.75	12,071.75
201	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps.	Each	2.00	2648.85	5,297.70
202	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	2.00	119.55	239.10
203	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	5.00	1607.95	8,039.75
204	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing. Rectangular shape 1500x450 mm.	Each	2.00	2093.00	4,186.00
205	Providing and fixing PTMT Bottle Trap for Wash basin and sink. 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	2.00	375.65	751.30
206	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	2.00	168.35	336.70
207	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour. 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	Each	2.00	708.95	1,417.90
208	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. 15 mm nominal outer dia Pipes.	Mtr.	10.00	286.80	2,868.00
209	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. 20 mm nominal outer dia Pipes.	Mtr.	10.00	335.00	3,350.00
210	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. 25 mm nominal outer dia Pipes.	Mtr.	10.00	401.55	4,015.50
211	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.Internal work - Exposed on wall. 15 mm dia nominal bore.	Mtr.	10.00	366.40	3,664.00
212	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.Internal work - Exposed on wall. 20 mm dia nominal bore.	Mtr.	5.00	437.30	2,186.50
213	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.Internal work - Exposed on wall. 25 mm dia nominal bore	Mtr.	5.00	551.70	2,758.50
214	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 25 mm nominal bore.	Each	2.00	622.40	1,244.80
215	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 20 mm nominal bore.	Each	2.00	539.95	1,079.90
216	Providing and fixing C.P. brass long body bib cock of approve quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore.	Each	2.00	798.95	1,597.90
217	Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.	Each	2.00	74.80	149.60

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
218	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. Powder coated aluminium (minimum thickness of powder coating 50 micron).	Kg	500.00	530.90	2,65,450.00
219	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 shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately). Powder coated aluminium (minimum thickness of powder coating 50 micron).	Kg	100.00	634.45	63,445.00
220	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 aluminium 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	40.00	1115.40	44,616.00
221	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 4.0 mm thickness.	Sqm	5.00	1176.80	5,884.00
222	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 5.50 mm thickness.	Sqm	15.00	1505.25	22,578.75
223	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. With stainless steel cover plate minimum 1.25 mm thickness.	Each	2.00	2823.85	5,647.70
224	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete. Upto 5mm depth and 5 mm width.	Mtr.	10.00	96.75	967.50
225	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer-in-charge complete. 205 X 19 mm.	Each	2.00	344.30	688.60
226	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer-in-charge complete. 355 X 19 mm.	Each	2.00	325.80	651.60
227	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	Each	5.00	528.85	2,644.25
228	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	2.50	5325.90	13,314.75
229	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of: (i) Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.(ii) IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.(iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.(iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).	Sqm	5.00	769.60	3,848.00

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
230	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying:(a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm.b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. (c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around. (d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately. (For the purpose of measurement the entire treated surface will be measured.)	Sqm	10.00	688.90	6,889.00
231	Grading roof for water proofing treatment with Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	1.00	8042.30	8,042.30
232	Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595 mm of approved texture, design and patternshaving NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991, in true horizontal level suspended on interlocking metal powder coated T-Grid of hot dipped galvanised iron section of 0.40 mm thick on Silhouette profile, rotary stiched double webbed white with 6 mm reveal profile (white/black), comprising of main-T runners of size 15x42 mm of length 3000 mm, cross - T of size 15x42 mm of length 1200 mm and secondary intermediate cross-T of size 15x42 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x2 mm. Galvanised iron perimeter wall angle of size 22x19x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40mm long dry wall S.S screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge. With 15 mm thick integral densified micro edge light weight calcium silicate false ceiling tiles	Sqm	5.00	2630.40	13,152.00
233	Providing and fixing mineral fibre false ceiling tiles at all heights of size 595X595mm of approved texture, design and pattern. The tiles should have Humidity Resistance (RH) of 99%, Light Reflectance > 85%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Fire Performance as per (BS 476 pt - 6 &7)in true horizontal level suspended on interlocking T-Grid of hot dipped all round galvanized iron section of 0.33 mm thick (galvanized @120 gsm) comprising of main T runners of 15x32 mm of length 3000 mm, cross T of size 15x32mm of length 1200 mm and secondary intermediate cross T of size 15x32 mm of length 600 mm to form grid module of size 600x600 mm suspended from ceiling using galvanized mild steel item (galvanised@80gsm) 50 mm long 8mm outer diameter M-6 dash fasteners, 6 mm diameter fully threaded hanger rod up to 1000 mm length and L-shape level adjuster of size 85x25x2 mm, spaced at 1200 mm centre to centre along main 'T'. The system should rest on periphery walls /partitions with the help of GI perimeter wall angle of size24x24X3000 mm made of 0.40 mm thick sheet, to be fixed to the wall with help of plastic rawl plug at 450 mm centre to centre & 40 mm long dry wall S.S. screws. The exposed bottom portion of all T-sections used in false ceiling support system shall be pre-painted with polyester baked paint, for all heights. The work shall be carried out as per specifications, drawings and as per directions of the engineer-incharge. With 16 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.55 to 0.6	Sqm	10.00	2333.60	23,336.00
234	Providing and injecting approved grout in proportion recommended by the manufacturer into cracks/honey-comb area of concrete/masonry by suitable gun/pump at required pressure including cutting of nipples after curing etc. complete as per directions of Engineer-in-Charge. (The payment shall be made on the basis of actual weight of approved grout injected.) Stirrer mixed Acrylic Polymer of approved make @ 2% of weight of cement used) modified Cement slurry made with non shrink compound in concrete/RCC work	Kg	10.00	119.30	1,193.00
235	Providing and inserting 12 mm dia galvanised steel injection nipple in honey comb area and along crack line including drilling of holes of required diameter (20 mm to 30 mm) up to depth from 30 mm to 80 mm at required spacing and making the hole & crack dust free by blowing compressed air, sealing the distance between injection nipple with adhesive chemical of approved make and allow it to cure complete as per direction of Engineer- In-Charge.	Each	10.00	236.90	2,369.00
236	Dismantling artificial stone flooring upto 50 mm. thick by carefully chiselling without damaging the base and removing rubbishes directed within a lead of 75 m.in any floor complete in all respect.	Sqm	5.00	59.59	297.95
237	Single brick Flat Soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand.	Sqm	10.00	408.79	4,087.90
238	Making one set of scaffolding only for replacing glass panels, painting, uprooting plant and another repairing works of building and S&P works for external works only with 10 cm. dia bamboo as main posts at the rate of 1metre centre to centre and 7.5 cm. dia bamboo ties @ 0.75 metre apart fitting and fixing with necessary coir, nails etc. as per direction of the Engineer-incharge. (This item should be executed only after prior approval of the Engineer-incharge). Firstly, one number to be paid and then labour rate for shifting up to further nineteenth (19) times @ 10% each time to be considered. If necessary further after twenty times of total use, another one number new and labour rate for shifting to be considered accordingly. 3.90 metre height	Each	2.00	332.51	665.02

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
239	Making one set of scaffolding only for replacing glass panels, painting, uprooting plant and another repairing works of building and S&P works for external works only with 10 cm. dia bamboo as main posts at the rate of 1metre centre to centre and 7.5 cm. dia bamboo ties @ 0.75 metre apart fitting and fixing with necessary coir, nails etc. as per direction of the Engineer-incharge. (This item should be executed only after prior approval of the Engineer-incharge). Firstly, one number to be paid and then labour rate for shifting up to further nineteenth (19) times @ 10% each time to be considered. If necessary further after twenty times of total use, another one number new and labour rate for shifting to be considered accordingly. Extra for additional 3.6 height or part thereof	Each	2.00	291.99	583.98
240	Cleaning the concrete surface by removing dirt and debris, marking defective locations and removing loose concrete by careful stripping untill hard surface is exposed, cutting the concrete to regular shape, wire brushing the exposed surface and removing debris from site complete as per direction of the Engineer - in - Charge.	Sqm	60.00	107.26	6,435.60
241	Cleaning the exposed reinforcement preferably upto full diameter by wire brush, applying two coats of polymer based rust removing compound left for 24 hours, removing the coating and then applying two (2) coats of polymer modified anti corrosive protective coating formulated to inhibit the corrosion of reinforcement as per manufacturer's specification] [Mode of measurement:The affected surface area of reinforcement shall be considered for payment]	Sqm	6.00	935.56	5,613.36
242	Applying epoxy based reactive joining agent for joining the old concrete with fresh concrete to be applied within manufacturer's specified time as per manufacturers specification. (0.4 Kg / m <sup>2</sup> of concrete surface).	Sqm	10.00	368.27	3,682.70
243	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	150.00	104.88	15,732.00
244	Removing corroded worn out portion of reinforcement (when the area of bar is damaged by more than 25%) by cutting and replacing the same by a new plain round bar of requisite diameter by binding with required lap / welding with old bar, including cost of reinforcement, complete in all respect including removing unserviceable materials from site as per direction of the Engineer - in - charge. Note : Payment on weight (Kg.) of new reinforcement.	Kg	5.00	103.69	518.45
245	Supplying and laying Polythene Sheet (150gm / sq.m.) over damp proof course or below flooring or roof terracing or in foundation or in foundation trenches	Sqm	10.00	28.60	286.00
246	Supplying fitting and fixing Black Stone slab used in Kitchen slab, alcove, wardrobe etc. laid and jointed with necessary adhesive Cement mortar (1:2) including grinding or polishing as per direction of Engineer-in-Charge in Ground Floor. Slab thickness 20 to 25 mm.in any floor complete in all respect.	Sqm	2.50	765.14	1,912.85
247	Supplying, fitting and fixing 8mm thick Laminated wooden Flooring Work conforming to EN13329:2006 with plank size not less than 1200 mm X 190 mm (with unilin/tongue-groove locking arrangement) having 0.2mm thk top abrasive layer over a decorative layer followed by a High-density fibreboard (HDF) having density > 850 kg/m <sup>3</sup> substrate core over a resin saturated backing layer and installing through unilin or tongue- groove system (having locking strength not less than 1000 kg/m) over a 2 mm thk underlayer polyurethane foam on polythene sheet 250 micron, over a smooth, flat, hard subfloor free from moisture (< 8%), grease etc. complete in all respect with requisite accessories like end profile, transition profile, reducer 'T' profile etc. wherever required and preparation of base including all other incidental works as per direction & satisfaction of Engineer in charge. Cost of Laminate Floor Accessories only (Skirting ,End edge, T- moulding,Reducer) shall have to be added separately, wherever required. (This work should not be executed without specific permission of Superintending Engineer).:Category: Normal Footfall; Class- 23;Abrasion resistance:-AC3 Thk on Swelling:- < 18% ;Impact resistance:- IC 1 In Ground Floor :Category: Normal Footfall; Class- 23;Abrasion resistance:-AC3 Thk on Swelling:- < 18% ;Impact resistance:- IC 1	Sqm	10.00	1330.05	13,300.50
248	Washing and cleaning with oxalic acid powder using 33 gms./sq.m, marble/terrazo/mosaic(Floor including dado) in any floor complete in all respect.	Sqm	30.00	8.30	249.00
249	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	750.00	6.60	4,950.00
250	Supplying & laying of approved brand of scratch proof, semi flexible P.V.C blended homogeneous marble Vinyl flooring in tiles conforming to IS:3461, fixing with synthetic acrylic adhesive after preparing the floor, levelling & smoothening when necessary with suitable putty, as per the design & instruction of the Engineer-in-charge with 2 mm thick.	Sqm	10.00	688.86	6,888.60
251	Supplying & laying of approved make and brand of scratch proof, flexible & homogeneous P.V.C. Vinyl flooring conforming to IS:3462 - 1982 in required finish, fixed with synthetic acrylic adhesive after preparing the floor, levelling & smoothening when necessary with suitable putty, as per the design & instruction of the Engineer-in-charge .2 mm thick (Plain)	Sqm	25.00	607.82	15,195.50
252	Polishing only of old marble or terrazo or mosaic work with oxalic acid powder using 33 gms/ sq.m. by machine.(Floor including dado) in any floor complete in all respect.	Sqm	50.00	45.29	2,264.50
253	Taking out old damaged tarfelt from the roof, parapet etc. preparing the roof surfaces by removing all spoils, blisters, moss etc. from the working site and disposal of the same beyond the compound and cleaning the site in all respect as per direction of Engineer-in-Charge.All floor	Sqm	12.00	14.30	171.60

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
254	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. Grill weighing above 10 Kg./sq.mtr and up to 16 Kg./sq. mtr	Kg	20.00	86.26	1,725.20
255	Supplying 1.5 mm thick M.S. sheet fitted and fixed one or both faces of M.S./ W.I. gate etc. with point welding at not more than 150 mm apart complete in all respect as per design including cost of all labour and materials in any floor complete in all respect.	Sqm	3.00	1164.39	3,493.17
256	Repairing collapsible gate by cutting out all rivets as necessary re-assembling all members including welding pieces of channels, straightening bent bars and rivetting with new rivets and fitting in position and painting two coats.	Sqm	6.00	451.69	2,710.14
257	Easing and oiling, cleaning collapsible gate and repairing to locking arrangements.	Sqm	6.00	20.26	121.56
258	Labour for taking out rolling shutter (only shutter portion) dismantling by parts for repair or (replacement of damaged parts only), rehangng and refitting the same in position after necessary repairs (excluding the cost of supply of new parts).	Sqm	6.00	337.28	2,023.68
259	Renewing seam pipe for rolling shutter as per existing size and shape fitting, fixing complete.	Mtr.	5.00	250.28	1,251.40
260	Renewing side split pin for seam pipe for rolling shutter	Each	2.00	30.99	61.98
261	Oiling and greasing of rolling shutter and repair to in side lock.	Sqm	7.00	87.00	609.00
262	Renewing profile of rolling shutter including fitting fixing complete as per existing size and shape.	Mtr.	2.00	64.36	128.72
263	Renewing spring of rolling shutter as per existing size and shape including fitting fixing complete.	Each	2.00	725.81	1,451.62
264	Taking out M.S. Grills from wooden frame including cutting lungs from masonry wall and refitting the same and mending good damages after repairs. (Excluding the cost of necessary repair of damages) or doing any other necessary works. 12mm to 15mm thick in any floor complete in all respect.	Each	2.00	117.99	235.98
265	Easing, oiling and adjusting the steel shutters including scraping all members, and fitting so as to make the shutters easily operable (no extra payment will be made for taking out and fixing glass, if necessary). (Each means a pair of shutter in a frame) in any floor complete in all respect.	Pair	50.00	50.06	2,503.00
266	Supplying fitting and fixing door made with IRC fabric mesh of 75mm x 50mmx4.5mmx2.7mm on 50mm x 50mm x 6mm angle iron frames all round and one 37.5mm x 6mm M.S. flat bar over the netting all round welded to angle iron frame and providing locking arrangements if necessary and with two coats of synthetic enamel paint(Other than Hi-gloss) fitted and fixed with clamps or haskal doomney etc. complete including flat stiffeners on every 1.0 m apart both ways. ( Cost of Concrete for fixing will be paid separately)	Sqm	2.50	2918.72	7,296.80
267	Supplying fitting and fixing I.R.C. fabric mesh with covering battens including cost of screws etc complete (excluding the cost of battens). In ground floor. 50mm x 25mm x 2.7mm x 2.7mm.	Sqm	7.50	282.46	2,118.45
268	Supplying fitting and fixing I.R.C. fabric mesh with covering battens including cost of screws etc complete (excluding the cost of battens). In ground floor. 75mm x 50mm x 4.5mm x 3.0mm.	Sqm	10.00	277.69	2,776.90
269	Hydraulic door closer of approved quality as per I.S.I. standard fitted and fixed complete. Heavy type (I.S.I. size 3)	Each	2.00	1984.35	3,968.70
270	Hydraulic door closer of approved quality as per I.S.I. standard fitted and fixed complete. Medium (I.S.I. size 2)	Each	2.00	1628.00	3,256.00
271	Godrej Hydraulic door closer fitted and fixed complete. Medium type ,	Each	70.00	1984.35	1,38,904.50
272	Labour for taking out door and window frame including shutter for repair or replacement of different parts of the frame & prefixing the same including mending good all damages complete. (Concrete and brick work for mending damage will be paid separately) Upto area 2.5 Sq.m	Sqm	5.00	141.82	709.10
273	Taking out shutter of door and window, dismantling by parts (For repair or replacement of damaged parts), reassembling and refitting and rehangng same with old fittings but with new screws as necessary.	Sqm	10.00	150.17	1,501.70
274	Taking out existing partition/ceiling of particle board, masonite board, ply board, soft board etc. of any thickness and refixing same in new position with necessary clamps making holes in walls, floor, roof and mending damages if any. [concrete plaster will be paid separately]	Sqm	50.00	65.55	3,277.50

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
275	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	15.00	406.40	6,096.00
276	Supplying fitting & fixing concealed of False ceiling Framework with G.I. Section (perimeter channels having one flange of 20 mm. and another flange of 30 mm. with thickness of 0.55 mm. and web of length 27 mm., along the perimeter of the ceiling, screws fixed to the wall with help of nylon sleeves or PVC dash fasteners @ 610 mm c/c. then suspend G.I. intermediate 'C' section with web 90 mm. and flanges of 15 mm. each from soffit @ 1200 mm c/c with ceiling angle of size 25 mm. X 10 mm. X 0.55 mm. fixed to soffit G.I. Cleat and Steel expansion fasteners. Ceiling section of 0.55 mm. thickness having web of 51.5 mm. and two flanges of 26 mm. each with lips of 10.55 mm., are then fixed on to the intermediate channel with the help of connecting clips in the direction perpendicular to the intermediate channel @ 610 mm c/c) with fully threaded fiber cement screws @ 300 mm c/c. All complete as per the drawing and direction of Engineer-in-Charge. Section specification :- Perimeter Channel :- 30 mm X 20 mm X 27 mm, thickness 0.55 mm (min), Intermediate Channel :- 15 mm X 90 mm, thickness 0.90 mm (min), Ceiling Section :- 51.5 mm X 26 mm X 10.55 mm, thickness 0.55 mm (min), Ceiling Angle :- 25 mm X 10 mm, thickness 0.55 mm (min).	Sqm	15.00	418.32	6,274.80
277	Supplying, fitting & fixing Eco-friendly, Moisture Resistance and Incombustible Gypsum plaster board (Density>700Kg per Cu.M.) conforming 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. 9.5mm thick tapered edged Gypsum Plaster Board. (For Concealed False Ceiling Work)	Sqm	10.00	471.95	4,719.50
278	Supplying, fitting & fixing Eco-friendly, Moisture Resistance and Incombustible Gypsum plaster board/tiles (Density >700Kg per Cu. M.) conforming to IS 2095- Part 1, 2011 of size 595mm X595mm of approved design and brand placed in the Grid module to form a false ceiling. All complete as per drawing & direction of Engineer - in- Charge. 9.5mm thick Square edged Gypsum Plaster Board / tiles. (For Exposed False Ceiling Work).	Sqm	15.00	446.93	6,703.95
279	Supplying, fitting and fixing boiling water proof ply conforming to IS: 710-1977 bonded with phenol formaldehyde synthetic resin conforming to IS: 848-1974 of approved make and brand fitted and fixed as per design as per approval and direction of Engineer-in- Charge.[excluding the cost of supporting frame work and teak wood batten/Lipping] in any floor complete in all respect. 6mm	Sqm	5.00	1337.20	6,686.00
280	Supplying, fitting and fixing boiling water proof ply conforming to IS: 710-1977 bonded with phenol formaldehyde synthetic resin conforming to IS: 848-1974 of approved make and brand fitted and fixed as per design as per approval and direction of Engineer-in- Charge.[excluding the cost of supporting frame work and teak wood batten/Lipping] in any floor complete in all respect. 12mm	Sqm	5.00	2036.79	10,183.95
281	Supplying, fitting and fixing boiling water proof ply conforming to IS: 710-1977 bonded with phenol formaldehyde synthetic resin conforming to IS: 848-1974 of approved make and brand fitted and fixed as per design as per approval and direction of Engineer-in- Charge.[excluding the cost of supporting frame work and teak wood batten/Lipping] in any floor complete in all respect. 19mm	Sqm	5.00	2884.16	14,420.80
282	Cement washing including cleaning and smoothing surface thoroughly (cement to be used @15 kg./100 sq.m. of surface for one coat and @25 kg./100 sq.m of surface for two coats):External surface.	Sqm	200.00	10.91	2,182.00
283	Scraping and removing greasy soot from walls ,wall tiles, tiles dado or ceiling of kitchen or similar smoke affected rooms and preparing the surface in any floor complete in all respect.	Sqm	250.00	13.11	3,277.50
284	Supplying best Indian sheet glass panes set in putty and fitted and fixed with nails and putty complete (in all floors for internal wall & upto 6 m height for external wall), 4 mm thick .	Sqm	10.00	638.80	6,388.00
285	Supplying and affixing optically clear polyester sun control window film having acrylic pressure sensitive adhesive on one side & an acrylic abrasion resistant coating on the other, with composition of infrared absorbing carbon & free from any optical defect. The film characteristics should conform to ASTM E308, ASTM E903, ASTM E84 and ASHIRAE. The film should be pasted after preparatory works without any cracking, delamination, bubbling, discolouring and variation in total transmission of light across the width at any portion along the length doesn't exceed 2% over the average including scaffolding & relevant others to complete in all respect as per manufacturer's specification & direction of Engineer -in-Charge. Normal Quality : Film Thickness - 1.0 Mil, Glare Reduction > 45%, U factor < 1.15	Sqm	5.00	388.53	1,942.65
286	Cleaning and removing paint mark from glass pane with spirit and removing strains etc in any floor complete in all respect (External & Internal).	Sqm	100.00	20.26	2,026.00

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
287	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materails (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete.160 mm. Dia.	Mtr.	10.00	578.02	5,780.20
288	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materails (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete. UPVC Fittings: Plain Tee: 160 mm. Dia.	Each	5.00	604.24	3,021.20
289	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materails (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete. UPVC Fittings: Bend 87.5 degree: 160 mm. Dia.	Each	5.00	481.49	2,407.45
290	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materails (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete. UPVC Fittings: Shoe: 160 mm. Dia.	Each	5.00	363.50	1,817.50
291	Fixing post of iron or precast concrete by digging hole in the ground (in all sorts of soil) and embedding the same by packing the hole with cement concrete (1:3:6) (with jhama khoa. For Purulia, Bankura and Darjeeling Hill by Pakur Variety, local black Hard Stone & Bazree respectively ) and finishing the top surface to regular shape (as directed ) with 15 cm cement plaster (1:6) complete, including the cost of concrete, plaster etc. but excluding the cost of the post: Average dial. Of the hole 200 mm to 300 mm. Depth 450 mm to 500 mm.	Each	20.00	188.30	3,766.00
292	Supplying, fitting, fixing, Chain link fencing of approved quality with R.C.C posts wooden posts or iron posts by means of galvanised "C" clips to grid of horizontal strands of galvanised high tensile spring steel wire of 12 S.W.G which have to be tensioned and fixed to the vertical posts by means of galvanised special clips, bolts and nuts etc.(The rate is exclusive of the cost of posts). 50 mm. x 50 mm. x 8 g.	Sqm	20.00	493.41	9,868.20
293	Supplying, fitting, fixing, Chain link fencing of approved quality with R.C.C posts wooden posts or iron posts by means of galvanised "C" clips to grid of horizontal strands of galvanised high tensile spring steel wire of 12 S.W.G which have to be tensioned and fixed to the vertical posts by means of galvanised special clips, bolts and nuts etc.(The rate is exclusive of the cost of posts) 75 mm. x 75 mm. x 8 g.	Sqm	14.00	399.25	5,589.50
294	Supplying at site or stackyard or as directed PCC (1:2:4) Fencing Post 215 cm 150 mm X 150 mm section at bottom 100 mm X 100 mm section at top with T-Base 300mm X 150 mm X 100 mm, having 4 nos 6 mm dial vertical M.S reinforcement and 6 mm dial binders @ 200 mm centres finished smooth etc. complete.	Each	15.00	533.93	8,008.95
295	Labour charge for fabrication and installation of composite door,window, partitions made from anodized extruded alloy aluminium sections for the following units:- Glazed aluminium sliding windows made of extruded and anodized alloy aluminium sectios, fabrications, including cutting to proper shape and size, drilling and aligning of window shutter frame fitted with in built locking arrangements, sliding rollers and other necessary fittings, fixture, adhesives and joineries along with extruded neoprine or EPDM gasketing in between window frame and masonry work (walls, column, beam.lintels etc.) as well as between glass and shutter frame for fixing glass and Polysulphide sealant and in between shutter and window frame where necessary including cutting to requisite size and fixing glass as per drawing, specification and direction of EIC. The rate includes the hire charge of all tools and plants, including all incidental charges, adhesive, joineries such as screw, cleat angle etc. but excluding the cost of extruded aluminium sections, glass, neoprene / EPDM gasket, locking arrangement and rollers. 2 track sliding window.	Sqm	3.00	829.49	2,488.47

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
296	Labour charge for fabrication and installation of composite door,window, partitions made from anodized extruded alloy aluminium sections for the following units:- Glazed aluminium sliding windows made of extruded and anodized alloy aluminium sections, fabrications, including cutting to proper shape and size, drilling and aligning of window shutter frame fitted with in built locking arrangements, sliding rollers and other necessary fittings, fixture, adhesives and joineries along with extruded neoprene or EPDM gasketing in between window frame and masonry work (walls, column, beam.lintels etc.) as well as between glass and shutter frame for fixing glass and Polysulphide sealant and in between shutter and window frame where necessary including cutting to requisite size and fixing glass as per drawing, specification and direction of EIC. The rate includes the hire charge of all tools and plants, including all incidental charges, adhesive, joineries such as screw, cleat angle etc. but excluding the cost of extruded aluminium sections, glass, neoprene / EPDM gasket, locking arrangement and rollers. 3 /4 track sliding window.	Sqm	5.00	1121.48	5,607.40
297	Labour charge for fabrication and installation of composite door,window, partitions made from anodized extruded alloy aluminium sections for the following units:- Glazed aluminium sliding windows made of extruded and anodized alloy aluminium sections, fabrications, including cutting to proper shape and size, drilling and aligning of window shutter frame fitted with in built locking arrangements, sliding rollers and other necessary fittings, fixture, adhesives and joineries along with extruded neoprene or EPDM gasketing in between window frame and masonry work (walls, column, beam.lintels etc.) as well as between glass and shutter frame for fixing glass and Polysulphide sealant and in between shutter and window frame where necessary including cutting to requisite size and fixing glass as per drawing, specification and direction of EIC. The rate includes the hire charge of all tools and plants, including all incidental charges, adhesive, joineries such as screw, cleat angle etc. but excluding the cost of extruded aluminium sections, glass, neoprene / EPDM gasket, locking arrangement and rollers. Openable / Casement window	Sqm	1.50	1331.24	1,996.86
298	Labour charge for fabrication and installation of composite door,window, partitions made from anodized extruded alloy aluminium sections for the following units:- Partly glazed and partly panelled partition or fixed glazing made of extruded and anodised alloy aluminium sections, fabrications after cutting to proper shape and size, drilling and aligning fitted with inbuilt locking arrangement cutting the glass / board (prelaminated / particle / block) to requisite shape and size moulding the edges fitted and fixed glazing clips and dry set neoprene /EPDM gasket, along with all other necessary arrangements for fixing the partition to walls, floors, beams, columns polysulphide sealant for water proofing if necessary complete in all respect as per drawing and specifications and direction of the Engineer in charge. The rate includes the hire charge of all tools and plants, adhesive, joineries such as screw, fastener but excluding the cost of extruded aluminium sections, EPDM gasket, glass, board, glazing clips, locking arrangement, etc. For partitions using section of size:101.50mm x 44.45 mm	Sqm	5.00	1060.70	5,303.50
299	(c) Repairing crack in wall by cement grouting (1 : 2) including widening the crack on the surface (into V section) cleaning and packing the same with cement mortar (1 : 2) and finishing off to match with adjacent surface.(Cement-69 Kg/100 m) in any floor complete in all respect.	Mtr.	10.00	15.50	155.00
300	(a) Stitching crack in brick wall by carefully cutting out face brick 125 mm. deep into the wall, cleaning the gap and filling up the same with precast cement concrete block carefully set in cement mortar (1:3) including mending good damages and finishing the surface to match with adjacent areas complete as per direction with reinforced cement concrete blocks (1:1½:3) with stone chips and nominal reinforcement Block size 250 x 125 x 75 mm.(Cement-1.85 Kg/No.) in any floor complete in all respect.	Each	5.00	125.14	625.70
301	(b)Stitching crack in brick wall by carefully cutting out face brick 250 mm. long, 75 mm. thick and 125 mm deep into the wall,cleaning the gap and filling up the same with sound new brick, carefully set in cement mortar (1:3) including mending good damages and finishing the surface to match with adjacent areas complete as per direction.(Cement-1 Kg/No.) in any floor complete in all respect.	Each	5.00	47.67	238.35
302	Sealing new expansion joint with Elastomeric Polysulphide Sealant of gap size 50mm X 25mm Including cleaning of the expansion joint thoroughly, mending of edges & surface, placing 50mm dia Backer rod as back up material with the cost of materials, labours, & all other incidental charges as per manufacturer's specification & direction of Engineer-incharge.	Mtr.	10.00	943.91	9,439.10

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
303	Supplying and laying true to line and level Anti-Skid, Full Body, Homogeneous & Granular finish Vitrified Tiles conforming to IS:15622-2006 & IS 4457-2007 and testing shall be made in accordance with IS:13630 [Non- modular sizes for tiles with Skid resistance > 0.5, Mohr's hardness > 5.0, Staining resistance: Class-1, Water Absorption: E < 0.5%], MOR > 35 N/sq.mm in Internal area of building e.g. Toilet Block, Passage, Corridor, Accessible Open Terrace etc. set in 20 mm sand cement mortar (1:4) and 2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg./Sqm or using Polymerised Adhesive (6 mm thick layer applied directly over finished artificial stone floor/ Mosaic etc without any backing course) laid after application slurry using 1.75 Kg of cement per Sqm below mortar only, joints grouted with admixture of white cement and colouring pigment to match with colour of tiles/ epoxy grout materials of approved make as directed and removal of wax coating of top surface of tiles with warm water and polishing the tiles using soft and dry cloth upto mirror finish complete including the cost of materials, labour and all other incidental charges complete true to the manufacturer's specification and direction of Engineer-in-Charge. (White cement, synthetic adhesive and grout material to be supplied by the contractor). In Ground Floor: Sizes-600 mm x600mm x10 mm with breaking strength >1500 N	Sqm	5.00	1883.04	9,415.20
304	Supplying and laying true to line and level Anti-Skid, Full Body, Homogeneous & Granular finish Vitrified Tiles conforming to IS:15622-2006 & IS 4457-2007 and testing shall be made in accordance with IS:13630 [Non- modular sizes for tiles with Skid resistance > 0.5, Mohr's hardness > 5.0, Staining resistance: Class-1, Water Absorption: E < 0.5%], MOR > 35 N/sq.mm in Internal area of building e.g. Toilet Block, Passage, Corridor, Accessible Open Terrace etc. set in 20 mm sand cement mortar (1:4) and 2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg./Sqm or using Polymerised Adhesive (6 mm thick layer applied directly over finished artificial stone floor/ Mosaic etc without any backing course) laid after application slurry using 1.75 Kg of cement per Sqm below mortar only, joints grouted with admixture of white cement and colouring pigment to match with colour of tiles/ epoxy grout materials of approved make as directed and removal of wax coating of top surface of tiles with warm water and polishing the tiles using soft and dry cloth upto mirror finish complete including the cost of materials, labour and all other incidental charges complete true to the manufacturer's specification and direction of Engineer-in-Charge. (White cement, synthetic adhesive and grout material to be supplied by the contractor). Above ground floor , up to 4 th floor	Sqm	2.50	1897.35	4,743.38
305	Supplying and laying true to line and level Tactile Finish Scratch resistant, Neutral to UV rays, Non-fade, High Slip Resistant Full Body Vitrified Tiles conforming to IS:15622-2006 & IS :4457- 2007 and tested in accordance with IS:13630 [Non- modular sizes for tiles with Skid resistance: 0.6, Mohr's hardness > 7.0, Staining resistance: Class-1, Water Absorption E < 0.5%], MOR > 38N/sq.mm & Breaking strength > 4000 N for Outdoor area of building e. g. Driveway, Pathway, Pavements, Parking lots, Sloping ramps, Entrance lobbies, Patios, Portico, swimming pool enclosure, Bus Passenger Shed & directing visually impaired persons, set over necessary underlay and 2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg./Sqm, joints grouted with admixture of white cement and colouring pigment to match with colour of tiles and removal of wax coating of top surface of tiles with warm water and cleaning the tiles using soft and dry cloth complete including the cost of materials, labour and all other incidental charges complete including backside slurry but excluding the cost of underlay and true to the manufacturer's specification and direction of Engineer-in-Charge.	Sqm	2.00	2107.10	4,214.20
306	Supplying, fitting & fixing Stainless Steel 'D' or 'H' type of size 300 mm x 19 mm tubular Handle with Grade 304, CE certified, marked & conforming to EN - 1154, of approved quality of reputed brand as per direction of Engineer-in- Charge fitted and fixed complete including all incidental charges.	Each	2.00	1872.32	3,744.64
307	Supply of unskilledLabour	Each	10.00	511.28	5,112.80
308	Supply of Skilled labour	Each	10.00	599.12	5,991.20
309	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	2.00	127.52	255.04
310	Supplying, fitting and fixing PVC pipes of approved make of Schedule 80 (medium duty) conforming to ASTM D - 1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I). with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, longscrew, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads,fitting, fixing etc. complete in all respect including cost of all necessary fittings as required,joining materials and two coats of painting with approved paint in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accessories, specials. Payment for painting will be made seperately). For Exposed Work. PVC pipes. 100 mm. Dia.	Mtr.	10.00	1351.50	13,515.00

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
311	Supplying, fitting and fixing PVC pipes of approved make of Schedule 80 (medium duty) conforming to ASTM D - 1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I). with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, long screw, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accessories, specials. Payment for painting will be made separately). For Exposed Work. PVC pipes. 80 mm. Dia.	Mtr.	5.00	915.30	4,576.50
312	Supplying, fitting and fixing PVC pipes of approved make of Schedule 80 (medium duty) conforming to ASTM D - 1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I). with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, long screw, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accessories, specials. Payment for painting will be made separately). For Exposed Work. PVC pipes 50 mm. Dia	Mtr.	5.00	457.65	2,288.25
313	Precise cutting of tile joints for cleaning existing cementitious 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. Size of tile - 300mm x 300mm (Floor), filling depth 8 mm.	Sqm	5.00	431.00	2,155.00
314	Supplying fitting and fixing of Hexagonal Chicken Mesh of approved quality with necessary nails etc. at all levels & in any floor complete in all respect. as per instruction of Engineer in charge.	Sqm	50.00	30.00	1,500.00
315	Repairing steel window by welding including supplying all materials like hinges, legs, handle plates etc. whatever required for repairing with hire welding set different floor including scaffolding necessary for the work (including the cost of serviers connection charge for the welding) in any floor complete in all respect.	Each	10.00	220.00	2,200.00
316	Supplying, stacking, spreading & consolidating rubbish to a requisite depth of 100mm at desired density as per specification Engg-in-Charge. Complete as per specification. (The payment will be made after deduction of 1/9th for the shrinkage) at all necessary places complete in all respect.	Cum	10.00	182.00	1,820.00
317	Providing and fixing 15 mm dia specially threaded nozzles in a grid pattern at a spacing not exceeding 1 mtr. Centre to Centre on the entire raft and walls also along the construction joints and at regular intervals not exceeding 1 mtr. injecting non shrink grouting compound mixed with neat cement slurry through nozzle under pressure by pump and sealing off the nozzle after the completion of the injection operation and as per the direction of EIC.	Sqm	10.00	375.42	3,754.20
318	Supply and apply a flexible FPO based membrane for expansion joint width of 100 mm by Supply and applying an epoxy based membrane adhesive base coat & top coat. Chemical Base Modified flexible Polyolefin (FPO) with advanced adhesion Fire Rating Euroclass E (EN ISO 11925-2, classification to EN 13501-1) Service Temperature -30°C min. to +40°C max. in wet conditions -30°C min. to +60°C max. in dry conditions Tensile Strength > 12 N/mm <sup>2</sup> (EN 12311-2) Tear Strength > 40 N/mm (ISO 34-B) Elongation at Break > 600 % (EN 12311-2) Seam strength >300 N/5cm (2 mm) (EN 12316-2) >400 N/5cm (2mm) (EN12317-2) Behaviour under hydrostatic pressure 6bar/72h No leakage (EN 1928-B) Thermal Resistance Thermal ageing: Passed (SIA V280, 1996) Bonding test: No cracks at -40°C (EN 495-5) Artificial weathering: 7500 h passed (SIA V280, 1996) (strip width 200 mm) Product requirements: mixed density: 1.75 kg/ltr; bond strength > 1.5 N/mm <sup>2</sup> . The rate should include the repair of edges, backing material, tools tackles etc all complete.	Mtr.	2.50	1182.20	2,955.50

Sl. No.	Description of items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
319	<b>For Repairing work below 5.00 Sq.M</b> :Providing and layingAPP (Atactic Polypropylene Polymer) modified prefabricated five layer 4 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ litre and viscocity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/ 450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane :4 mm thick	Sqm	15.00	515.36	7,730.40
320	Supplying, stacking, spreading & consolidating rubbish to a reusite depth of 100mm at desired density as per instruction of Engg-in-Charge, complete as per specification. (The payment will be made after deduction 1/9th for the shrinkage)	Cum	5.00	182.00	910.00
321	Supplying, & installation of 12mm thick toughned glass frameless partation on height 2700mm (09'-0") including neccessary fitting, fixtures & silicon gel,support at floor & falce ceiling level.	Sqm	2.50	10222.00	25,555.00
322	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing: <b>Micro concreting</b>	Cum	0.75	47629.00	35,721.75
323	Supplying, fitting & fixing of FRP Moulded gratings of size 38mm x 38mm x 25mm	Sqm	15.00	5222.07	78,331.05
				Total Rs. =	74,99,997.45
				<b>Say Rs. =</b>	<b>74,99,997.00</b>