TENDER NOTICE

Tata Institute of Social Science

V.N. Purav Marg, Deonar,

Mumbai-400088.

Telephone:91-22-25525209 E-Mail:-rahul.shende@tiss.edu

Website: www.tiss.edu

TISS E-ProcurementWebsite:-https://www.tenderwizard.com/TISS

https://eprocure.gov.in/cppp/latestactivetendersnew/cpppdata

Tender Ref No.:TISSAMC23-24 **Date:-09/01/24**

Name Of the Work: **Tender for 'Annual rate contract for hire charges of Labour as well as Plants & Machinery, Civil work, Painting work, Carpentry work, Fabrication & roofing work at TISS, Mumbai'**

Estimated cost	:-	**(Total Rs.30,00,000/-) (Rs. 7,50,000/- for individual vendor)**	
Tender Fees	:-	NIL	
EMD	:-	**Rs.15,000/- (Interest Free)**	
Tender Validity	:-	180 days from the last date of submission of tender	
Mode of Bidding	:-	**Online/~~Offline~~ (Open Tender/ ~~Limited Tender~~)**	
Type of Tender	:-	**Item rate contract** (**~~Single bid~~/ Two Bid**)	
Tender issue date	:-	**09/01/2024**	
Last date of Submission	:-	**31/01/2024**	4:00pm
Pre-bid meeting	:-	**16/01/2024**	2:00pm
Technical bid opening	:-	**01/02/2024**	11:00am
Financial bid opening	:-	**02/02/2024**	11:00am
Period of Completion	:-	**One Year**	**From 01/04/2024 to 31/03/2025**

 Signature & Seal of Bidder

1. INSTRUCTIONS TO BIDDERS

Online/ ~~Offline~~ percentage rate Open/ ~~Limited~~ tenders are invited by The Registrar, Tata Institute of Social Sciences, Deonar, Mumbai- 400088 for **'Annual rate contract for hire charges of Labour as well as Plants & Machinery, Civil work, Painting work, Carpentry work, Fabrication & roofing work at TISS, Mumbai'**

1.1 The tender shall be in prescribed form consisting of NIT, Quote Sheet, Terms of contract which can be downloaded from TISS website, CPPP (https://eprocure.gov.in/cppp/latestactivetendersnew/cpppdata) and 'www.tenderwizard.com/TISS. Tenders can be submitted from **09/01/24** to **31/01/24** up to 16.00 hrs.

1.2 Timeline for execution of work:- **One Year . From 01/04/2024 to 31/03/2025**

1.3 **Payment Cycle**:- **monthly**

1.4 In case of limited tender enquiry, unsolicited bids will not be accepted. However if the bidder who is not requested to bid is interested in bidding, he may contact to the office of Assistant Registrar, Infrastructure Development and Support division. After the scrutiny of the documents and confirming the reliability of the firm, the vendor my be allowed to bid for same work or next work of similar nature. In case of Open tender enquiry any vendor qualifying the eligibility criteria is permitted for bidding.

1.5 **Online Bidding:-** Bids shall be submitted online using website **www.tenderwizard.com/TISS**. Instructions to submit the online bids are available on TISS website

1.6 **Offline Bidding:-** Bids shall be submitted in sealed envelopes.

Envelope No I– shall contain attested documents confirming qualification criteria, Signed copy of NIT and its conditions

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Envelope No II– shall contain only Schedule of Quantities (BID SHEET) duly priced and completed in all respects. This shall not include any conditions whatsoever. In case any conditions are included in Envelop no. II, the same shall not be taken into consideration. Further, the tender in such case is liable to be rejected. Both the sealed envelopes i.e. Part-I and Part-II should be covered in a third envelope which shall be sealed and should be submitted to **"Office of Assistant Registrar, Infrastructure development and support division, TISS, Mumbai 400 088"**. Third envelop shall contain the Title of the tender, address and contact details of the bidder.

1.7 The Earnest Money Deposit (Interest free) is accepted only through e-payment gateway in case of online bid submission. In case of Offline bid submission EMD shall be accepted in the forms:

(i) Banker's Cheque of a Commercial Bank
(ii) Account Payee Demand Draft of a Commercial Bank
(iii) Fixed Deposit Receipt (FDR) of a Commercial Bank
(iv) Insurance Surety Bonds
(v) Bank Guarantee including e- Bank Guarantee (for balance amount as prescribed) from a Commercial Bank.

A part of earnest money is acceptable in the form of Bank Guarantee including e- BankGuarantee also. In such cases 50% of earnest money or Rs. 20 lakh

Whichever is less, will have to be deposited in shape prescribed above and balance can be accepted in form of Bank Guarantee issued by a Commercial Bank. The FDR is pledged in favor of the tender inviting authority. It is in the tenderer's own interest to keep the FDR valid as long as it is required. The Bank Guarantee including e- Bank Guarantee submitted as a part of Earnest Money is valid for a period of 90 days for single bid works and 180 days for two bid system or more from the date of submission of the tender.

EMD shall be drawn by the name:- **'TATA INSTITUTE OF SOCIAL SCIENCES'.**

1.8 The earnest money will be forfeited, if the bidder backs out in the middle of finalization of tendering process. On finalizing the tender process, the Institute will return EMD of unsuccessful bidders. The acceptance of tender shall rest with The Registrar, Tata Institute of Social Sciences, who does not bound to accept the lowest tender and reserves the right to reject any or all of the tenders received without assigning any reason. The Registrar reserves the right of acceptance of whole or any part of the tender and the tenderer shall be bound toperform the same at the rates quoted. Any attempt of influencing on tender process by the contractor shall not be entertained and his/her tender shall be rejected. Team of TISS may visit ongoing / completed work sites, establishments, manufacturing units, factoriesofthe bidder and may collect the feedback over telephone, e-mail, actual visit or by any other suitable means before award of contract and after verification of documents. The Bidder shall provide necessary facilities for this purpose.

1.9 Tenderers are advised to inspect and examine the site and its surrounding and fully satisfy themselves about the nature of work, specification of work, challenges in work (way of transportation, height of structure, number of floors or height where work is to be executed, working hours, security check etc.) before submitting their tender and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A tenderer shall deemed to have full knowledge of site, whether he inspects it or not and no extra charges con-sequent on any misunderstanding or otherwise shall be allowed.

1.10 Bidder shall be asked to provide the Sample of material to be provided/ supplied/ to used at any point before finalization of tender process. Vendor shall provide the sample free of cost without any liabilities on Institute. All expenditure to be incurred for testing of samples e.g. packaging, sealing, transportation, loading, unloading etc. including testing charges shall be

borne by the contractor.

1.11 In case of annual rate contracts, the Contract may be extended for another year depending upon the performance of the vendor. The contract extension is subject to approval of competent authority. As far as possible the Contract shall be extended over same terms and conditions. If any term, condition needs to be altered, omitted, added then this will be done with the mutual consent of both the parties with no financial implications.

In case vendor demands for increase in rate, Vendor shall submit the written request to Engineer In-charge. The competent authority shall take the decision. The extension of contract shall be limited for maximum two times.

1.12 Any statutory approval from local authorities, municipal approvals etc. shall be responsibility of the vendor.

1.13 Validity of Tender: The tender for the work shall remain open for acceptance for a period of 180 days from the last date of submission of tenders. If any tenderer with draws his/her tender before the said period, or before issue of Letter of Intent, whichever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the Department, then TISS shall forfeit the earnest money deposit of the bidder and the tenderer shall not be allowed to participate in the retendering process of the work.

1.14 All the tenders where in the prescribed conditions are not fulfilled or are in complete in any respect are liable to be rejected .Tenders received without EMD will be summarily rejected.

1.15 Levy / Taxes payable by contractor:

a. GST @18% on materials and services in respect of this contract shall be payable by the contractor.

b. The contractor shall deposit royalty and obtain necessary permit as required for excavation and transport of soil, supply of the sand, Aggregate, Stone etc. from local authorities. TISS shall not have any liabilities in this regard.

1.16 Notification of amendments to the tender document: If the technical specification requires any modification, suitable amendment to this tender document will be issued and the same will form part of the tender document. Prospective bidders are advised to regularly visit the TISS website or the CPP portal and Tender Wizard Portal for Corrigendum/amendments etc., if any, will be notified only on the TISS website /CPP portal/Tender Wizard Portal and no separate advertisement will be made for this.

1.17 Quoted rates to include all taxes (except GST): Sales tax, VAT, Purchase tax or any other tax on materials in respect of this contract, including state Sales tax and Turnover tax on transfer of property as per Works Contract Act etc. if any, shall be payable by the contractor and Government will not entertain any claim whatsoever in respect of the same. As per the directives of the Sales Tax Authorities, the tax due at the rates notified by the State Government from time to time, shall be deducted from the bills payable to the Contractors, for which TDS certificate shall be issued by the Department

2 TECHNICAL BID/ ELIGIBILITY CRITERIA

2.1 Experience of having successfully completed works during the last 7 years ending previous day of last date of submission of tenders .

2.2 Three similar completed works, each costing not less than the amount equal to Rs.3,00,000, or Two similar completed works, each costing not less than the amount equal to Rs.4,50,000 or One similar completed work of aggregate cost not less than the amount equal Rs. 6,00,000

2.3 Turnover: Average annual financial turnover on construction works should be at least Rs. 3,75,000 during the immediate last three consecutive financial years.

2.4 Profit/Loss : The bidder should not have incurred any loss (profit after tax should be positive)in more than two years during available last five consecutive balance sheet, duly audited and certified by the Chartered Accountant .

2.5 Solvency Certificate: Solvency of the amount equal to Rs.3,00,000/- or more

2.6 Notice Inviting Tender (NIT) along with all the conditions, terms of contract and bidder's instructions duly signed by the bidder.

2.7 List of Clients and on-going projects during last 3 years.

2.8 Earnest Money deposit of **Rs15,000**/= (interest free)

2.9 PAN Card copy.

2.10 GST registration copy.

2.11 The documents regarding the satisfactory performance of works, list of completed and ongoing works, personnel, establishment, plant, equipment, Registration certificate of CPWD, PWD, PSU, Government organizations, BMC, empanelment letter of reputed organizations/ institutions etc. may be incorporated.

Signature & Seal of Bidder

3 FINANCIAL BID

3.1 Mode of submission of bid is Online/ ~~Offline~~. Information for submission of online/ offline bid is given under conditions of contract. As the tender is **percentage rate contract** each bidder shall upload/fill the At par/ Above/ Below percentage **(in figures as well as in words)**over the estimated cost. This quoted percentage rate At par/ Above/ Below shall be applicable to each any every rate mentioned in BOQ. . Total amount shall be written clearly in Numeric as well as in words. Bidders shall refrain to make any overwriting in bid sheet. Bidder shall compulsorily mention the Name of firm/ bidder in the bid sheet.

3.2 The tender submitted shall be treated as invalid if:-

1. The contractor does not quote percentage above/below on the total amount of tender or any section/sub head of the tender.
2. The percentage above/below is not quoted in figures & words both on the total amount of tender or any section/sub head of the tender.
3. The percentage quoted above/below is different in figures & words on the total amount of tender or any section/sub head of the tender.

In case the lowest tendered amount (estimated cost + amount worked on the basis of percentage above/below) of two or more contractors is same, such lowest contractors will be asked to submit sealed revised offer in the form of letter mentioning percentage above/ below on estimated cost of tender including all sub sections/sub heads as the case may be, but the revised percentage quoted above/below on tendered cost or on each sub section/ sub head should not be higher than the percentage quoted at the time of submission of tender. The lowest tender shall be decided on the basis of revised offers. In case any of such contractors refuses to submit revised offer, then it shall be treated as withdrawal of his tender before acceptance and 50% of earnest money shall be forfeited. If the revised tendered amount of two more contractors received in revised offer is again found to be equal, the lowest tender, among such contractors, shall be decided by draw of lots in the presence of competent authority of the institute.

3.3 Rates mentioned in BOQ are excluding taxes.

3.4 While calculating percentage, vendor shall consider overheads and profit along with transportation and labour cost for installation.

Signature & Seal of Bidder

Selection of vendor

1) Works under this contract is categorised in five sectors,
    a) Hiring of Labour as well as Plants & Machinery.
    b) Civil work (includes excavation + Concrete work + Masonry +Finishing +Flooring +General repair and Maintenance + Dismantling and demolishing).
    c) Carpentry work.
    d) Painting work.
    e) Fabrication & roofing work.
2) Mainly, minor works and works of Additions and Alternations shall be dealt under this contract.

3) The rates quoted by first lowest tenderer, if beyond acceptable limit, shall be brought down to an acceptable level through negotiations.

4) All the other tenderers shall be given a counter offer to reduce their rates to the rates quoted (or negotiated rates) by first lowest tenderer.

5) A maximum of five agencies shall be selected among the agencies who agree to reduce their rates to the level of first lowest tenderer. In case the number of agencies who agree to do the work at rate of first lowest tenderer are more than five then the agencies shall be selected in the order of first lowest, second lowest; third lowest and so on till five agencies are available.

6) The selection of five agencies as stated above shall be same for 'hire charges of Labour as well as Plants & Machinery, Civil work, Painting work, Carpentry work, Fabrication & roofing work at TISS, Mumbai'. Such list shall be valid for complete financial year.

7) As and when requisition of a set of works/jobs is received, the same shall be assigned to one of the short listed agency by Assistant Engineer starting from original L1 on a work order slip.

8) The subsequent work shall be assigned to different agencies on rotation basis in the order of notionally L2, L3, L4 and L5 etc. Assistant Engineer shall balance the work distribution amongst these agencies based on quarterly difference of 25 %. The contractor shall raise the bills for work done & payments shall be made accordingly.

9) If an agency does not start the work or does not perform the assigned work properly and/or in time, it shall be dropped from the list of approved/short listed agencies and their deposits including performance guarantee etc. shall be forfeited. Such agencies shall be debarred for tendering for a period of two years within TISS all Campuses.

Signature & Seal of Bidder

4 CONDITIONS OF CONTRACT

4.1 Performance guarantee (Interest free):-

The contractor shall be required to deposit an amount equal to 5% of the tendered value of the contract as performance guarantee in the form of Demand Draft / Fixed Deposit Receipt / Bank Guarantee/ Banker's Cheque from Scheduled bank to be submitted within 14 days from the date of issue of work order or before commencement of work whichever is earlier. The performance guarantee shall be returned to the contractor, without any interest, after recording of the completion certificate for the work by the competent authority and submission of final bill by the contractor as per the joint measurement within 60 days.

4.2 Security deposit (Interest free):-

The Security Deposit at 5% of gross amount of the bill shall be deducted from each running bill as well as final bill of the contractor till the sum deducted will amount to Security Deposit of 5% of the tendered value of the work. Security deposit will be returned after completion of defect liability period.

4.3 Measurement and records:-

Vendors shall record all the measurements in standard format. Vendor shall maintain the attendance of workers for any kinds of services and works. Vendor shall click before and after photographs of works at the time of execution. In case of maintenance of plants, installations and machineries (Chillers, AHU, Circulation Pumps, Water pumps and motors, Sewage treatment plant, Solar water heaters, Fire fighting installations, VRF, Split and window AC, Dinning hall equipments, Diesel Generator etc.) vendor shall produce the service and maintenance report. Vendor shall obtain the signature of end user as user satisfaction report in prescribed format.

For Comprehensive/Non Comprehensive Maintenance work contractor shall maintain a work register and shall obtain the sign of end user at completion of work for every visit, register shall include date, executed work, quantity etc. Contractor shall produce the service report of each service as and when asked by Engineer In charge.

4.4 Inspection report :-

Vendor shall obtain the inspection report from Engineer In charge after completion or part completion of work.

4.5 Completion Certificate:-

Vendor shall complete the work in all aspect with desired quality. Vendor shall obtain completion certificate from Engineer In charge before submission of bill.

4.6 Contractor Liable for Damages, defects during defect liability Period:-

Six months in the case of work costing Rs. Ten lacs and below (except road work) and Twelve months in case of work costing more than Rs. Ten lacs. If the contractor or his working people or servants shall break, deface, injure or destroy any part of building in which they may be working, or any building, road, road kerb, fence, enclosure, water pipe, cables, drains, electric or telephone post or wires, trees, grass or grassland, or cultivated ground contiguous to the premises on which

the work or any part is being executed, or if any damage shall happen to the work while in progress, from any cause whatever or if any defect, shrinkage or other faults appear in the work within twelve months (six months in the case of work costing Rs. Ten lacs and below except road work) after a certificate final or otherwise of its completion shall have been given by the Engineer in- Charge as aforesaid arising out of defect or improper materials or workmanship the contractor shall upon receipt of a notice in writing on that behalf make the same good at his own expense or in default the Engineer-in-Charge cause the same to be made good by other workmen and deduct the expense from any sums that may be due or at any time thereafter may become due to the contractor, or from his security deposit or the proceeds of sale thereof or of a sufficient portion thereof. The security deposit of the contractor shall not be refunded before the expiry of twelve months (six months in the case of work costing Rs. Ten lacs and below except road work) after the issue of the certificate final or otherwise, of completion of work, or till the final bill has been prepared and passed whichever is later. In case of Maintenance and Operation works of E&M services, the security deposit deducted from contractors shall be refunded within one month from the date of final payment or within one month from the date of completion of the maintenance contract whichever is earlier.

4.7 Payment on intermediate certificate to be regarded as Advances:-

No payment shall be made for work, estimated to cost Rs. Five lac or less till after the whole of the work shall have been completed and certificate of completion given. For works estimated to cost over Rs. Five lac, the interim or running account bills shall be submitted by the contractor for the work executed on the basis of such recorded measurements.

All such interim payments shall be regarded as payment by way of advances against final payment only and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be rejected, removed, taken away and reconstructed or re-erected. Any certificate given by the Engineer-in-Charge relating to the work done or materials delivered forming part of such payment, may be modified or corrected by any subsequent such certificate(s) or by the final certificate and shall not by itself be conclusive evidence that any work or materials to which it relates is/are in accordance with the contract and specifications. Any such interim payment, or any part thereof shall not in any respect conclude, determine or affect in any way powers of the Engineer-in-Charge under the contract or any of such payments be treated as final settlement and adjustment of accounts or in any way vary or affect the contract.

4.8 Advance payment:-

Advance payment is prohibited. Vendor shall claim the full bill amount after successful completion of work or running amount bill for part completion of bill. Whereas advance payment may be granted in exceptional cases with approval of competent authorities.

a) Secured advance on material:- Advance shall be paid during the progress of the execution of the work up to 75% of the assessed value of any materials or an amount not exceeding 75% of the material element cost in the tendered rate of the finished item of the

work, whichever is lower, which are in the opinion of the Engineer-in- Charge nonperishable, non-fragile and non-combustible and are in accordance with the contract and which have been brought on the site in connection therewith and are adequately stored and/or protected against damage by weather or other causes but which have not at the time of advance been incorporated in the works. When materials on account of which an advance has been made under this sub-clause are incorporated in the work, the amount of such advance shall be recovered/ deducted from the next payment made under any of the clause or clauses of this contract.

1) Advance payment to supplier:-Ordinarily, payments for services rendered or supplies made should be released only after the services have been rendered or supplies made. However, it may become necessary to make advance payments for example in the following types of cases :-
   (i) Advance payment demanded by firms holding maintenance contracts for servicing of Air-conditioners, computers, other costly equipment, etc.
   (ii) Advance payment demanded by firms against fabrication contracts, turn-key contracts etc. Such advance payments should not exceed the following limits :
   (a) Thirty per cent. of the contract value to private firms;
   (b) Forty per cent. of the contract value to a State or Central Government agency or a Public Sector Undertaking; or
   (c) in case of maintenance contract, the amount should not exceed the amount payable for six months under the contract.

Vendor may require to submit the bank guarantee against the advance payment. Any other form of security like corporate Indemnity Bond, FDR shall require the approval of competent authority.

4.9 Bill submission & payment:-

In case of running account bills or bills against the Annual rate/maintenance contracts, vendor shall submit the bill on or before the 5th day of the month. Bills submitted after this time frame shall be processed in the next month. Vendor shall be fully responsible for the delay in payment due to late submission of bill.

Vendor shall produce copy of B2B certificate, GST payment challan, Measurements, attendance of labours and supervisors, before and after photographs of work and services, service and maintenance report of plants and machinery etc. along with the invoice. No bill shall be accepted without the attachment of the said documents. In case of Maintenance of plants, equipments and Machineries, report of satisfactory performance indicating no defect in the functioning of any equipments shall be produced with the submission of each bill over the letter head of the vendor. In the event of transfer of annual maintenance contact to the other vendor, The previous vendor shall handover the entire system in working condition to the new vendor. It is the responsibility of the new vendor to check and satisfy themselves for ‘no defect’ and healthy working condition of the plant, machinery, equipment, installation, system etc. Final bill and other payables shall not be settled for previous vendor until satisfactory handover of the system. If previous vendor fails to rectify defects in the system, same will be get rectified through the new vendor and the necessary rectification cost shall be deducted from the final settlement of the previous vendor.

In the event of the failure of the contractor to submit the bills, no claims whatsoever due to delays on payment including that of interest shall be payable to the contractor.

4.10 Warranty and quality of material:-

Any material/ fitting/ equipments to be installed in the institute shall be of ISI mark and IS standards unless and otherwise specified. No lower quality/grade material shall be allowed. Contractor shall surrender the removed material/fitting to Institute. Newly installed material shall be the property of institute and no claims shall be entertained.

Any material provides, delivered, supplied shall cover the manufactures warranty. If the OEM is the bidder minimum warranty shall be of one year. Replacement and repair of any material or installation is complete responsibility of the vendor at no extra cost. Warranty of any material or installation or equipment shall be considered as one year unless and otherwise specified.

4.11 Supply of Water & Electricity:

Water and electricity shall be supplied to the contractor by the Institute free of cost subject to the conditions:

i) The Source of Water and Power Supply will be given at one point. All other arrangements have to be arranged by Contractor.

Ii.) Contractor(s) shall make his/ their own arrangement of water/ electricity / connection and laying of pipelines/ connection from existing main of source of supply as directed by Engineer-In-charge.

iii.) Institute do not guaranty to maintain uninterrupted supply of water/ electricity and it will be incumbent on the contractor to make alternative arrangement for proper supply of the same at his/ their own cost in the event of any break down in the government water/ electricity mains so that the progress of his/ their work is not held up for the want of the same. No claim of damage or refund will be entertained on account of such break down.

4.12 Unrealistic rates and negotiation:-

In case of unrealistic rates submitted by the vendor in any individual item of bid, part of bid or full bid then tender shall be considered as unbalanced and in case the tenderer is unable to provide satisfactory explanation, such a tender shall be disqualified and tender will be rejected.

If the rates quoted by the vendor are too high than the estimated rates or market rates the lowest bidder shall be called for the negotiation. Lowest bidder is expected to be open for the negotiation and to provide best possible revised rate for the individual item of bid, any part of bid or full bid.

4.13 Determination of contract:-

Subject to other provisions contained in this clause, the Engineer-in- Charge may, without prejudice to his/her any other right or remedy against the contractor in respect of any delay, inferior workmanship, any claim for damages and /or any other provisions of this contract or otherwise, and whether the date for completion has or has not elapsed, by notice in writing absolutely determine the contract in any of the following cases:

i. If the contractor having been given by the Engineer-in-Charge a notice in writing to

rectify, reconstruct or replace any defective work or that the work is being performed in an inefficient or otherwise improper or un workman-like manner shall omit to comply with the requirements of such notice for a period of 7 days thereafter.

ii. If the contractor has, without reasonable cause, suspended the progress of the work or has failed to proceed with the work with due diligence so that in the opinion of the Engineer-in-Charge (which shall be final and binding) he/she will be unable to secure completion of the work by the date for completion and continue to do so after a notice in writing of 7 days from the Engineer-in-Charge.

iii. If the contractor fails to complete the work within the stipulated date or items of work with individual date of completion, if any stipulated, on or before such date(s) of completion and does not complete them within the period specified in a notice given in writing in that behalf by the Engineer-in-Charge.

iv. If the contractor persistently neglects to carry out his/her obligations under the contract and / or commits default in complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him/her in that behalf by the Engineer-in- Charge.

v. If the contractor shall obtain a contract elsewhere as a result of wrong tendering or other non-bonafide methods of competitive tendering.

vi. If the contractor assigns, transfers, sublets (engagement of labour on a piece-work basis or of labour with materials not to be incorporated in the work, shall not be deemed to be subletting) or otherwise parts with or attempts to assign, transfer, sublet or otherwise parts with the entire works or any portion thereof without the prior written approval of the Engineer-in-Charge.

vii. In case of unlawful activities, use of lower standard material/fittings, inferior work quality, breaks of contract etc.

When the contractor has made himself/herself liable for action under any of the cases aforesaid, the Engineer-in- Charge on behalf of the Registrar, Tata Institute of social sciences (TISS) shall have powers:

a. To determine the contract as aforesaid (of which termination notice in writing to the contractor under the hand of the Engineer-in-Charge shall be conclusive evidence) upon such determination, the Security Deposit already recovered and Performance Guarantee under the contract, shall be liable to be forfeited, and shall be absolutely at the disposal of TISS.

b. After giving notice to the contractor to measure up the work of the contractor and to take such whole, or the balance or part thereof, as shall be unexecuted out of his/her hands and to give it to another contractor to complete the work. The contractor, whose contract is determined as above, shall not be allowed to participate in the tendering process for the balance work.

viii. In the event of above courses being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of the contract. And in case action is taken under any of the provisions afore said, the contractor shall not be entitled to recover or be paid any sum for any work

thereof or actually performed under this contract unless and until the Engineer-in-Charge has certified in writing the performance of such work and the value payable in respect thereof and he/she shall only be entitled to be paid the value so certified.

The contract may be terminated due to administrative reasons specified in writing within a month from the side of the Institute with the issue of written notice.

The contract may be terminated with mutual consent with notice period of two months from the side of vendor and notice period of one month from the side of the Institute.

 Signature & Seal of Bidder

4.14 Contractor liable to pay compensation even if contract is not determined:

In any case in which any of the powers conferred upon the Engineer-in-Charge under the contract, shall have become exercisable and the same are not exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any future case of default by the contractor and the liability of the contractor for compensation shall remain unaffected. In the event of the Engineer-in- Charge putting in force all or any of the powers vested in him under the preceding clause he may, if he so desires after giving a notice in writing to the contractor, take possession of (or at the sole discretion of the Engineer-in-Charge which shall be final and binding on the contractor), use as on hire (the amount of the hire money being also in the final determination of the Engineer-in-Charge) all or any tools, plant, materials and stores, in or upon the works, or the site thereof, belonging to the contractor, or procured by the contractor and intended to be used for the execution of the work / or any part.

4.15 Termination of Contract on death of contractor:-

Without prejudice to any of the rights or remedies under this contract, if the contractor dies, the Engineer in Charge on behalf of Registrar, TISS shall have the option of terminating the contract without levy compensation to the contractor.

4.16 Work not to be sublet Action in case of in solvency:-

The contract shall not be assigned or sublet without the written approval of the Engineer-in Charge. And if the contractor shall assign or sublet his contract, or attempt to do so, or become insolvent or commence any insolvency proceedings or make any composition with his creditors or attempt to do so, or if any bribe, gratuity, gift, loan, perquisite, reward or advantage pecuniary or otherwise, shall either directly or indirectly, be given, promised or offered by the contractor, or any of his servants or agent to any public officer or person in the employ of Institute in any way relating to his office or employment, or if any such officer or person shall become in any way directly or indirectly interested in the contract, the Engineer-in-Charge on behalf Registrar, Tata Institute of social sciences shall have power to terminate the contract with immediate effect.

4.17 Compensation for delay of work (Liquidity damages):-

If the contractor fails to maintain the required progress or to complete the work and clear the site on or before the contract or justified extended date of completion he shall, without prejudice to any other right or remedy available under the law to the Government on account of such breach, pay as compensation the amount calculated at the suitable rates may decide on the amount of accepted Tendered Value of the work for every completed

day / month (as determined). Damage suffered due to stated delay on the part of Contractor, 1% to 10%per month of delay to be computed on per day basis on the accepted tendered value, based on quantum of damage suffered.

Provided always that the total amount of compensation for delay to be paid under this condition shall not exceed 10 % of the accepted Tendered Value of work.

4.18 Time Extension for delay:-

The time allowed for execution of the works as stipulated in the contract or the extended time in accordance with these conditions shall be the essence of the Contract. The execution of the works shall commence from such time period as mentioned in contract. If the Contractor commits default in commencing the execution of the work as aforesaid, TISS shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the performance guarantee absolutely. As soon as possible after the Contract is signed, the Contractor shall submit a Time and Progress Chart for each mile stone and get it approved by the Department. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Engineer-in-Charge and the Contractor within the limitations of time imposed in the Contract documents, and further to ensure good progress during the execution of the work, the contractor shall in all cases in which the time allowed for any work, exceeds one month (save for special jobs for which a separate programme has been agreed upon) to complete the work as per the mile stones given.

If the work(s) be delayed by:

a. Force majeure, or

b. Abnormally bad weather, or

c. Serious loss or damage by fire, or

d. Civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work, or

e. Delay on the part of other contractors or tradesmen engaged by Engineer-in-Charge in executing work not forming part of the Contract, or

f. Non-availability of stores, which are the responsibility of TISS to supplier.

g. Non-availability or break down of tools and plant to be supplied or supplied by TISS or

h. Any other cause which, in the absolute discretion of the Engineer-in-Charge is beyond the Contractor`s control, then upon the happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the Engineer-in-Charge but shall nevertheless use constantly his best endeavours to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-Charge to proceed with the works.

4.19 Deviations / Variations: Extent and Pricing:

The Engineer-in-Charge shall have power

(i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and

(ii) to omit a part of the works in case of non-availability of a portion of the site or for any

other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineer-in- Charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided.

4.20 Quantity deviation:

1. Deviation means increase or decrease in quantities of agreement items.
2. Deviations up to +/- 10% of agreement quantity will not require any sanction.
3. Items deviating beyond +/- 10% of agreement quantity needs sanction for total deviation (including initial +/- 10%)

All the deviated quantities shall be paid at agreement rates.

4.21 Price deviation:

The completion cost of any agreement for maintenance works including works of up gradation, aesthetic, special repair, addition/ alteration should not exceed two times the contract amount. Deviation up to 1.25 times of contract amount shall be approved by Engineer-in-Charge with recorded reasons. Deviation beyond 1.25 times of contract amount shall be approved by competent authority with recorded reasons.

4.22 Deviation and Time Extension:

The time for completion of the works shall, in the event of any deviations resulting in additional cost over the tendered value sum being ordered, will be extended, if requested by the contractor, as follows:

i. In the proportion which the additional cost of the altered, additional or substituted work, bears to the original tendered value, plus

ii. 25% of the time calculated in (i) above or such further additional time as may be considered reasonable by the Engineer-in-Charge.

4.23 Substituted Items and Pricing:

i. If the market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted) the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so increased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).

ii. If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted) the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).

4.24 Extra Items:-

Extra items are those which are not available in the contract. In the case of Extra Item(s) being the schedule items (Delhi Schedule of Rates items), these shall be paid as per the schedule rate plus cost index (at the time of tender) plus/minus percentage above/below quoted contract amount. Payment of Extra items in case of non-schedule items (Non-DSR items) shall be made as per the prevailing market rate. The rate(s) of extra items so determined by the Engineer-in-Charge shall be final and binding on the contractor, and shall not be arbitrable.

Signature & Seal of Bidder

4.25 Avoidance of sub-standard work:-

The contractors are required to execute all works according to the specifications laid down, and in a proper workman like manner. The motto of the Department is to maintain quality, speed and economy in cost in the execution of any work. There is no compromise on the quality of work.

When defects/deficiencies crop up during the maintenance period rectifying the same shall be done within the prescribed maintenance period. If the contractor does not rectify the defect or make good the deficiency, the work is got redone or rectified through another agency, or departmentally by employing skilled labourers, at the contractor's cost.

4.26 Acceptance of sub-standard work:-

In general, sub-standard works should not be allowed to occur, as they reflect poorly on the professional competence of the field staff and adversely affect the image of the Department. Acceptance of work below specifications and/or below acceptable levels of workmanship, and the resulting payment at reduced rates for such defective/deficient works is resorted to only for those items where materials conforming to the required specifications are not available, or where it is structurally impossible to get the work re-done or where in opinion of Engineer In charge, it is expedient to do so. Acceptance of sub-standard work at reduced rates is done only under exceptional circumstances by the Engineer In charge or by the next higher authority. The total value of quantities of items at agreement rate for which the Engineer In charge or the higher official accepts sub-standard work in a contract shall not exceed 5% of the contract value.

4.27 Action in case of work not done as per specifications:

All works under or in course of execution or executed in pursuance of the contract, shall at all times be open and accessible to the inspection and supervision of the Engineer-in- charge, his authorised subordinates in charge of the work and all the superior officers of the Department or any organization engaged by the Department for Quality Assurance and the contractor shall, at all times, during the usual working hours and at all other times at which reasonable notice of the visit of such officers has been given to the contractor, either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing, present for that purpose. Orders given to the Contractor's agent shall be considered to have the same force as if they had been given to the contractor himself.

If it shall appear to the Engineer-in-charge or his/her authorised subordinates in-charge of the work or his/her subordinate officers or the officers of the organization engaged by the Department, that any work has been executed with unsound, imperfect, or un-skillful

workmanship, or with materials or articles provided by him for the execution of the work which are unsound or of a quality inferior to that contracted or otherwise not in accordance with the contract, the contractor shall, on demand in writing which shall be made within twelve months (six months in the case of work costing Rs. 10 Lakh and below except road work) of the completion of the work from the Engineer-in-Charge specifying the work, materials or articles complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of the failing to do so within a period specified by the Engineer-in-Charge in his demand aforesaid, then the contractor shall be liable to

pay compensation at the agreed rate for this default in such case the Engineer-in-Charge may not accept the item of work at the rates applicable under the contract but may accept such items at reduced rates. Decision of the Engineer-in- Charge to be conveyed in writing in respect of the same will be final and binding on the contractor.

4.28 Suspension of work

TISS reserves the right to suspend the work with one day notice in case of unlawful activities, use of lower standard material/fittings, inferior work quality, break of contract etc. attributed on the part of Contractor. The work shall remain suspended until necessary rectifications are done and further intimation from Engineer In charge. No Compensation shall be given to the vendor for any loss incurred due to suspension of work.

The contractor shall, on receipt of the order in writing of the Engineer-in-Charge, (whose decision shall be final and binding on the contractor) suspend the progress of the works or any part thereof for such time and in such manner as the Engineer-in-Charge may consider necessary so as not to cause any damage or injury to the work already done or endanger the safety thereof for any of the following reasons:

(a) On account of any default on the part of the contractor or;

(b) For proper execution of the works or part thereof for reasons other than the default of the contractor; or

(c) For safety of the works or part thereof. The contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Engineer in- Charge.

4.29 Foreclosure of contract due to abandonment or reduction in scope of work:

If at any time after acceptance of the tender, TISS shall decide to abandon or reduce the scope of the works for any reason whatsoever and hence not require the whole or any part of the works to be carried out, the Engineer- in- charge or competent authority shall give notice in writing to that effect to the contractor and the contractor shall act accordingly in the matter. The contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he/she might have derived from the execution of the works in full but which he did not derive in consequence of the foreclosure of the whole or part of the works.

The contractor shall be paid at contract rates full amount for works executed at site.

4.30 Contractor to supply tools & equipment's etc.:

The contractor shall provide at his own cost all materials (except such special materials, if any, as may in accordance with the contract be supplied from the Engineer- in-Charge's stores), machinery, tools & equipment's. in addition to this, appliances, implements, other accessories, ladders, cordage, tackle and temporary works required for the proper execution of the work, whether original, altered or substituted and whether included in the specification or other documents forming part of the contract or referred to in these conditions or not, or which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer-in-Charge as to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with carriage therefore to and from the work.

The contractor shall also supply without charge the requisite number of persons with the means and materials, necessary for the purpose of setting out works, and counting, weighing and assisting

in the measurement or examination at any time and from time to time of the work or materials. Failing his/her so doing, the same may be provided by the Engineer-in- Charge at the expense of the contractor and the expenses may be deducted, from any money due to the contractor, under the contract and/or from his security deposit or the proceeds of sale thereof, or of a sufficient portion thereof.

4.31 Lump sum provision in tender:

When the estimate on which a tender is made include lump sums in respect of parts of the work, the contractor shall be entitled to payment in respect of the items of work involved or the part of the work in question at the same rates, as are payable under this contract for such items, or if the part of the work in question is not, in the opinion of the Engineer-in-charge payable of measurement, the Engineer-in-Charge may at his discretion pay the lump sum amount entered in the estimate, and the certificate in writing of the Engineer-in-Charge shall be final and conclusive against the contractor with regard to any sum or sums payable to him under the provisions of the clause.

4.32 Labour laws to be complied by the contractor:

The contractor shall obtain a valid license under the Contract Labour (R & A) Act, 1970 and the Contract Labour (Regulation and Abolition) Central Rules, 1971, before the commencement of the work, and continue to have a valid license until the completion of the work. The contractor shall also abide by the provision of the Child Labour Prohibition & Regulation) Act-1998. The contractor shall also comply with the provisions of the building and other Workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and other Workers Welfare Cess Act, 1996. Any failure to fulfil these requirements shall attract the penal provisions of this contract arising out of the resultant non execution of the work.

4.33 Minimum wages act to be compiled with:

The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, Contract Labour (Regulation and Abolition) Act, 1970 and rules framed there under and other labour laws affecting contract labour that may be brought into force from time to time.

4.34 Settlement of Disputes by Conciliation and Arbitration:-

All questions and disputes relating to the meaning of the specifications, designs, drawings and instructions hereinbefore mentioned and as to the quality of workmanship or materials used in the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as per the standard arbitration procedures by appointing the arbitrator. The Appointment of arbitrator shall be dependent on amount of claim and other allied parameter.

4.35 Confidential Information:

The drawings, specifications, proto-type, samples and such other information furnished to the contractor relating to the supply / work, sub-systems / equipment etc. are to be treated as confidential which shall be held by the contractor in confidence and shall not be divulged to any third party without the prior written consent of the Department. The contractor, therefore, binds himself, his successors, heirs, executors, administrators, employees and the permitted assignees or

such other persons or agents directly or indirectly concerned with the work / supply to the confidential nature of the drawings, specifications, proto-type samples etc. It is a further condition of the contract that the contractor shall not, without prior written permission from the Department, transmit, transfer, exchange, and gift or communicates any such confidential information, and also the component, sub assembly, products, by-products

4.36 Tendered rates to cover overheads and profit:

The rates quoted shall also cover the cost of necessary protection including labour, materials and equipment to ensure safety and protection against risk or accident, compensation for injury to life and damage to property if any, caused by the contractor's operations connected with this work. The rates shall be firm and shall not be subject to change due to variations during the entire period of execution of the work in cost of materials, labour and conditions, or any other conditions. No separate claim on this account will be entertained by the Department.

Unless otherwise stated in schedule of quantities, rates for item quoted by the tenderer should be for the complete work including supply and fixing with all materials and should be for all heights and depths, lifts and leads, lengths and widths involved in the work.

The contractor when called for by the Department should furnish detailed rate analysis in support of the rates quoted by him against each item of the tender. The Department reserves the right to utilize the analysis thus supplied in settling the rate of any deviations or claims arising in this contract.

4.37 Claims against the contractor:

Whenever any claim against the contractor for the payment of a sum or money arises out of or under the contract, Department shall be entitled to recover such sum by appropriating in part or whole, the security deposit of the contractor and to sell any Government promissory notes etc. forming the whole or part of such security. In the event of the security deposit having been taken from the contractor, the balance or the total sum recoverable, as the case may be, shall be deducted from any sum then due or which at any time thereafter may become due from the contractor, under this or any other contract with the Department. Should this sum be not sufficient to cover the full amount recoverable, the contractor shall pay the Department, on demand the balance remaining due department shall have the right to cause an audit and technical examination of the work and the final bill of the contractor including all supporting vouchers, abstracts etc. to be made after payment of the final bill and if as a result of the due audit and technical examination any sum is found to have been over paid in respect of any work done by the contractor under the contract or any work claimed by him to have been done under the contract and found not have been executed, the contractor shall be liable to refund the amount of the over payment and it shall be lawful for the Department to recover the same from him in the manner prescribed above or in any other manner legally permissible and if it is found that the contractor was paid less than what was due to him under the contract in respect of any work executed by him under it, amount of such under payment shall be duly paid by the Department to the contractor.

4.38 Mode of measurements:

Measurements for all hidden items once taken jointly and so accepted by the tenderer in the bills, in writing shall be final and binding. No re-recording of measurements for hidden items of work will be permitted. The contractor shall provide at his own cost suitable weighing and measuring arrangements at site for checking the weight / dimensions as may be necessary for execution of the work.

All measuring tapes (of steel), scaffolding and ladders which may be required for taking measurements shall be supplied by the contractor. If the contractor fails to accompany the Engineer-in-Charge or his duly authorised person to take measurements, then he shall be bound by the measurements, recorded by the Engineer-in-Charge or his representative.

4.39 Security regulations:

The contractors have to follow strictly the regulations of the Department at the work site regarding entry of personnel, material etc. and any other regulation that might be enforced from time to time. All materials and articles brought by the contractor to the work site shall have to be declared at the security gate. Similarly, no materials shall be taken out from the Departmental premises without proper gate pass, which will be issued by the Engineer-in-Charge to the contractor on written request. It is to be noted that loading of contractor's materials in vehicles and trucks shall be done in the presence of Departmental personnel.

For working on Sundays, Holidays and late hours, even though permission will be accorded by the Engineer-in-Charge, the contractor will have to make application to the Security Department also and keep them informed well in advance. The contractor, his agents, representatives, workmen etc. and his materials, carts, trucks or other means of transport etc. will be allowed to enter through and leave from such point of entry/exit at such times, the authorities in-charge of the area, at their sole discretion, may permit. The contractor, his agents and representatives are required to be in possession of the individual identity / muster cards or passes. The muster cards or passes are examined by the security staff at the time entry / exit inside the departmental area.

The contractor, his agents, representatives, workmen shall strictly observe the orders pertaining to prevailing fire precautions. In addition to the above, other security regulations as may be imposed by the Security authorities / Engineer-in- Charge shall be complied with / observed by the contractor and his workmen, in addition to the above. Any breach of above security regulations and rules in force from time to time will be viewed seriously. No claim whatsoever will be entertained by the Department on account of the observation of the Security regulations.

To take the materials out of the campus for disposal/ replacement it is the responsibility of the contractor to take prior approval and request for a valid GATE PASS for any such material.

4.40 Contractor to keep site clean:

When the works are carried out, the splashes and droppings from white washing, color washing, painting etc. on wall, floors, doors, windows etc. shall be removed and the surface cleaned simultaneously with the completion of these items of work in the individual rooms, quarters or premises etc. where the work is done without waiting for the actual completion of all the other items of work in contract. In case the contractor fails to comply with the requirements of this clause, the Engineer-in-Charge shall have the right to get this work done at the cost of the contractor either departmentally or through any other agency. Before taking such action, the Engineer- in-Charge shall give seven days notice in writing to the contractor.

4.41 Integrity Clause:-

a) It is hereby specifically agreed that the firm/vendor/contractor will not pay offer, demand or accept bribes of any sort and that they shall disclose all commissions and similar expenses paid to anybody in connection with the contract.
b) It is understood that violation of the aforesaid clause shall entail sanction, which could include loss or denial of contract, forfeiture of bid or performance security liability for damages, debarment for future contracts. Besides, action in accordance with law and

criminal or disciplinary action against any, employee of the institute, who seek, demands accepts bribes of any sort.

c) The vendor/ supplier /contractor shall declare that they have not been convicted by any court for any have not been formally investigated of a corruption crime and have not/will not resort to bribery or any other form of corruption in the context of the contract.

d) Any misinformation or wrong declaration shall provide the TISS the right to cancel the contract unconditionally.

e) Vendor shall start the work related to part 'A' within the seven days of receipt of work order and shall finish the work within 45 days from the date of commencement of the work.

Signature & Seal of Bidder

5 Standard Conditions

5.1 The contractor shall complete the work within stipulated time frame as per the accepted rates and specifications as and when required basis.

5.2 The entire work shall be carried out by contractor in accordance with the conditions and specifications stipulated in the schedule of quantity/quotation and in the best workmanship manner and as per standard practice.

5.3 Materials required for satisfactory completion of work shall be of best quality, make, grade, as mentioned in quotation and / or conforming to Indian standard specification (latest edition), wherever applicable, and approved by Engineer in- Charge.

5.4 Contractor to quote the rates including all taxes other than GST, Octroi, entry tax and all other taxes. Any other charges incurred by contractor but not payable as per this work order, will not be paid / reimbursed. GST will be paid in addition to the quoted rate soon production of B2B form.

5.5 Any damage to the Institute property will be made good at contractors risk and cost.

5.6 The Institute reserves the right to reject the bad work / or pay for the inferior quality work at reduced rates, as will be worked out by Institute. The Institute's decision in this regard will be final and binding on contractor.

5.7 Space for labour huts will not be provided in campus.

5.8 The Institute will not be held responsible for payment of any compensation to the laborers engaged by contractor .Contractor will pay all compensations etc. including accident compensations due to his laborers.

5.9 Implements / materials required for the work shall be provided by contractor. Institute's property/materials shall not be used by the contractor. A suitable penalty shall be charged if contractor fail to observe this condition.

5.10 Contractor shall follow all safety rules and security procedure that are in force and applicable during execution of work.

5.11 The contractor shall comply with the provisions of all acts, statutory rules and regulations etc., of the central and state governments the case may be that may apply to his case. And if necessary get himself duly registered as require by the said acts , statutes ,rules ,regulations etc.

5.12 The Institute will not be held responsible for payment of any compensation to the labourers engaged by contractor the labours cannot claim any right for employment in TISS.

5.13 The contractor shall submit he running / final bills. These bills shall be paid after proper and thorough scrutiny by the Institute Engineer after submission of bill.

 Signature & Seal of Bidder

5.14 The contractor shall not at any time cause or permit any nuisance on the site or adjoining areas or do anything, which shall cause unnecessary disturbances or inconveniences to the owner, residents ,guests ,students etc.

5.15 Contract or shall obtain necessary gate pass ; labor tokens from the security officer.

5.16 Contractor shall obtain prior permission for carrying out work on Sundays & holidays.

5.17 In case machine is not repairable in the premise, same shall be carried to your workshop at your own expenses with written permission of competent authority.

5.18 Method of work, specification, mode of measurement and other details wherever not mentioned should be followed as per Indian standard code of practice or as per engineer-in-charge's instructions.

5.19 Contractor shall intimate in advance and obtain prior approval before undertaking any extra items. The rate for such extra items, if approved will be based on calculate of existing market rates.

5.20 If there is any abnormal increase or reduction in quantum of work as mentioned in NIT ,no compensation or extra rate shall be paid on this accounts.

5.21 The owner will be at liberty to cancel some of the items from the contract. In such cases,the contractor cannot claim any compensation or percentage as profit.

5.22 The Contractor shall employ full-time technically qualified staff with adequate experience during the execution of the work.

5.23 The quality, time schedule for completion of work and well behavior with Client,and engineers of this project shall be essential & must for this project.

5.24 This contract shall be deemed to have been made in Mumbai and only the court of competent jurisdiction in Mumbai shall have jurisdiction to determine any question or dispute arising out of the contract.

5.25 On the completion of the works the contractor shall at his own cost clear away and remove from the site all construction material ,equipments, surplus materials ,rubbish and leave the entire site and works clean in a workmanship condition to the satisfaction of the employer.

5.26 Before starting of any work the contractor shall prepare detailed works schedule showing all mile stones in order to complete the work in time and to the satisfaction of Architect/Engineer-in-charge

5.27 Vendor must submit work methodology/method statement & checklist prior to starting the work. Vendor will not be permitted to work unless method statement is approved.

5.28 Safety of the labours is entirely contractor's responsibility.

 Signature & Seal of Bidder

ORGANIZATION INFORMATION

1) Name of Applicant/Firm/Organization:-

2) Address:-

3) Telephone:-

4) E-mail:-

5) GST Registration :-

6) PAN:-

7) ESI &EPF:-

8) Any registration (PWD/CPWD/BMC/any other organization):-

9) Bank Details:-

10) MSME Registration:-

11) Expertise:-

12) Ever worked with TISS:-

Signature & Seal of Bidder

TATA INSTITUTE OF SOCIAL SCIENCES
V.N. Purav Marg, Deonar, Mumbai 400 088

Tender No. **TISSAMC23-24**

Name of Work: for 'Annual rate contract for hire charges of Labour as well as Plants & Machinery, Civil work, Painting work, Carpentry work, Fabrication & roofing work at TISS, Mumbai'

Technical Bid : Eligibility criteria

Name Of The Tenderer		
Sr. No:	**Description**	**Documents Submitted Online (Required Documents Scan Copies Should be uploaded online) Yes /No**
	Technical Bid : Eligibility criteria	
1	Technical Bid : • Each bidder shall upload following documents including the tender document . Tender submitted without any of the following document will be disqualified from the bid process.	
2	Experience of having successfully completed works during the last 7 years ending previous day of last date of submission of tenders .	
3	Three **similar completed works**, each costing not less than the amount equal to Rs.3,00,000/- **or** Two similar completed works, each costing not less than the amount equal to Rs.4,50,000/- **or** One similar completed work of aggregate cost not less than the amount equal to Rs.6,00,000/-.	
4	**Turnover:** Average annual financial turnover on construction works should be at least 3,75,000/- during the immediate last three consecutive financial years.	

Signature & Seal of Bidder

5	**Profit/Loss :** The bidder should not have incurred any loss (profit after tax should be positive)in more than two years during available last five consecutive balance sheet, duly audited and certified by the Chartered Accountant .	
6	**Solvency Certificate:** Solvency of the amount equal to Rs.3,00,000/- or more	
7	Notice Inviting Tender (NIT) along with all the conditions, terms of contract and bidder's instructions duly signed by the bidder.	
8	List of Clients and on-going projects during last 3 years.	
9	Earnest Money deposit of Rs15,000/= (interest free)	
10	PAN Card copy.	
11	GST registration copy.	
12	The documents regarding the satisfactory performance of works, list of completed and ongoing works, personnel, establishment, plant, equipment, Registration certificate of CPWD, PWD, PSU, Government organizations, BMC, empanelment letter of reputed organizations/ institutions etc. may be incorporated.	

Vendor Address & Contact:-

Signature & Seal of Bidder

Tata Institue Of Social Science ,
V.N.Purav Marg, Deonar , Mumbai-400 088.
Telephone :91-22-25525000

Tender No: TISSAMC24-25

Tender Date : 09/1/2024

Name of the Work:'Annual rate contract for hire charges of Labour as well as Plants & Machinery, Civil work, Painting work, Carpentry work, Fabrication & roofing work at TISS, Mumbai'

Name of the Firm/Bidders	**.**

S C H E D U L E O F Q U A N T I T I E S

Sl.No.	Description	Hire chages for Labour as well as Plants & Machinery :Amount in (INR) ₹:	Civil work : Amount in (INR) ₹:	Carpentry work :Amount in (INR) ₹:	Painting work :Amount in (INR) ₹:	Fabrication & roofing work : Amount in (INR) ₹:	Non DSR Items
1	Estimated Cost put to tender (Rs.)	750,000.00	750,000.00	750,000.00	750,000.00	750,000.00	750,000.00
2							
3							
4							
5							
Total Amount		750,000.00	750,000.00	750,000.00	750,000.00	750,000.00	750,000.00
Estimated Cost put to tender (Rs.)		750,000.00	750,000.00	750,000.00	750,000.00	750,000.00	750,000.00

Signature & Seal of Bidder

Quoted Percentage above or below or at par the estimated cost.						
Contractor has to quote [in percentages % in Figures						
Final Amount [arrived after adjusting % quoted (Total Cost) { Net Quoted Tender Amount}	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Amount In Words						

Note: 1. Vendor has to be Enter the Full Company Name 2. Vendor Has to be Quote RED Clour Cell Only

I/We quote …….% (in words: - ……percent) Above*/ At Par* / Below* on hire charges of Labour as well as Plants & Machinery.

I/We quote ……..% (in words: - ……percent) Above*/ At Par* / Below* on Civil work."

"/We quote ……..% (in words: - ……percent) Above*/ At Par* / Below* on carpentry work."

"I/We quote ……..% (in words: - ……percent) Above*/ At Par* / Below* on painting work."

I/We quote ……..% (in words: - ……percent) Above*/ At Par* / Below* on fabrication and roofing work."

I/We quote ……..% (in words: - ……percent) Above*/ At Par* / Below* on Non DSR Items"

"This Is Electronic Spread Sheet Signature Is Not Required"

Signature & Seal of Bidder

BASIC RATES

0.1 HIRE CHARGES OF LABOUR, PLANTS & MACHINERY

Note :-	These rates are exclusive of GST, contractor's profit and over heads etc.		
Code No.	**Description**	**Unit**	**Basic rate**
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	900.00
0003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	3350.00
0005	Hire charges of Diesel Truck - 9 tonne (with POL)	day	4400.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	250.00
0010	Hire charges of Derrick monkey rope	day	850.00
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	800.00
0012	Vibrator (Needle type 40 mm)	day	400.00
0013	Machine for rubbing of floors	day	350.00
0014	Front end loader capacity 1.00 cum	day	6700.00
0015	Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories	day	3350.00
0017	Hire and running charges of tipper	day	4200.00
0018	Hire and running charges of loader	day	6700.00
0019	Hand Grinder for mirror polish	day	300.00
0020	Hydraulic Excavator (3D) with driver and fuel	day	7850.00
0021	Pin vibrator	day	300.00
0022	Surface Vibrator	day	350.00
0030	Generator 250 KVA	day	3350.00
0033	Paint applicator	day	900.00
0034	Cutting saw machine	day	1500.00
0038	Tractor with ripper attachment	day	1350.00
0039	Tractor with trolley	day	1350.00
0041	Joint cutting machine with 2-3 blades	day	900.00
0047	Concrete joint cutting machine	day	700.00
0051	Hydraulic Excavator of 1 cum bucket	hour	900.00
0052	Front end loader 1 cum bucket capacity (incl POL)	hour	1450.00
0054	Vibratory roller 8 to 10 tonne	hour	700.00
0055	Smooth Wheeled Roller 8 to 10 tonne	hour	350.00
0058	Air compressor	hour	250.00
0069	Generator 250 KVA	hour	450.00
0070	Generator 100 KVA/125 KVA	hour	350.00
0080	Hire and running charges of drill machine up to 400 mm dia (including cost of mobile oil, diesel consumption in ordinary soil and operator)	day	8400.00
0083	Hire charges of TATA 407 or equivalent for local shifting.	day	1550.00
0084	Hire charges of diesel truck - 9 tonne (witout POL)	day	2250.00
0088	Hire charges of Drill machine upto 30 mm dia	day	200.00
0090	Hire charges of compressor	day	550.00
0100	Bandhani	day	816.00
0101	Bhisti	day	816.00
0102	Blacksmith 1st class	day	897.00

0103	Blacksmith 2nd class	day	816.00
0111	Carpenter 1st class	day	897.00
0112	Carpenter 2nd class	day	816.00
0114	Beldar	day	736.00
0115	Coolie	day	736.00
0116	Fitter (grade 1)	day	897.00
0117	Assistant Fitter or 2nd class Fitter	day	816.00
0119	Glazier	day	816.00
0122	Mason (for plaster of paris work) 1st class	day	897.00
0123	Mason 1st class	day	897.00
0124	Mason 2nd class	day	816.00
0125	Mason (for plain stone work) 2nd class	day	816.00
0126	Mason (for ornamental stone work) 1st class	day	897.00
0128	Mate	day	816.00
0129	Sewer man	day	736.00
0130	Mistry	day	897.00
0131	Painter	day	816.00
0132	Rock Excavator	day	736.00
0133	Rock Breaker	day	736.00
0134	Rock Hole Driller	day	736.00
0135	Stone Chiseller	day	816.00
0139	Skilled Beldar (for floor rubbing etc.)	day	816.00
0141	White Washer	day	816.00
0155*	Mason (average)	day	857.00
0156*	Carpenter (average)	day	857.00
0157	Operator (Pile/ Special machine)	day	897.00
0159	Skilled torch operator for laying tack	day	897.00
0160	Technician	day	973.00
0161	Helper (Technician)	day	736.00
0162	Labour for fabrication of uPVC extruded casement/ sliding windows and doors including drilling holes, fixing of fittings & hardwares, hire charges of drill machine and electricity charges etc.	sqm	609.00
0163	Labour for installation of uPVC extruded casement/ sliding and doors including scaffolding windows	sqm	882.00
0167	Polisher 1st class	day	897.00
0168	Polisher 2nd class	day	816.00
0169	Specialized technicians	day	973.00

Note :- 1. Above hire - charges (from item code 0001 to 0083) include cost of services of operating staff, Cost of lubricating oil, diesel / Petrol/ Kerosene oil , other consumables for running the plant and machinery and excluding GST.

2. The hire charges of plant machinery on per day basis are for single shift of eight working hours.

EXCAVATION

Code no.	Description	Unit	Rate
2.1	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:		
	2.1.1 All kinds of soil	Sqm.	97.39
2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.		
	2.6.1 All kinds of soil	Cum	133.13
2.7	2.7.1 Ordinary rock	Cum	374.18
2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.		
	2.8.1 All kinds of soil	Cum	195.23
	2.9.1 Ordinary rock	Cum	474.71
2.10	Excavating trenches by mechinical / manual means of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, bottoms, for all depth, including getting out the excavated watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :		
	2.10.1 All kinds of soil		
	2.10.1.1 Pipes, cables etc, not exceeding 80 mm dia.	metre	161.70
	2.10.1.2 Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	metre	264.11

	2.10.1.3 Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm	metre	412.31

2.13	Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 1.5 m, including getting out the excavated ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50 m : materials, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50 m :		
	2.13.1 Ordinary rock :		
	2.13.1.1 Pipes, cables etc. not exceeding 80 mm dia	metre	302.48
	2.13.1.2 Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	metre	748.99
	2.13.1.3 Pipes, cables exceeding 300 mm dia but not exceeding 600 mm dia	metre	861.83
2.14	Extra for excavating trenches for pipes, cables, etc. in ordinary/hard rock exceeding 1.5 m in depth but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre)		
	2.14.1 Ordinary rock :		
	2.14.1.1 Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	metre	547.35
	2.14.1.2 Pipes, cables exceeding 300 mm dia but not exceeding 600 mm dia	metre	650.59
2.15	Extra for excavating trenches for pipes, cables, etc. in ordinary/hard rock exceeding 3m in depth but not exceeding 4.5 m. (Rate is over corresponding basic item for depth upto 1.5 metre)		
	2.15.1 Ordinary rock :		
	2.15.1.1 Pipes, cables exceeding 300 mm dia but not exceeding 600 mm dia	metre	1764.19
2.18	Close timbering over areas including strutting, shoring and packing cavities (wherever required) etc. complete. (Measurements to be taken of the face area timbered):		
	2.18.1 Depth not exceeding 1.5 m	Sqm.	94.35
	2.18.2 Depth exceeding 1.5 m but not exceeding 3 m	Sqm.	108.08
	2.18.3 Depth exceeding 3 m but not exceeding 4.5 m	Sqm.	122.36

2.19	Extra for planking, strutting and packing materials for cavities (in close timbering) if required to be left permanently in position. (Face area of timber permanently left to be measured).	Sqm.	1269.56
2.22	Open timbering over areas including strutting, shoring etc. complete. (Measurements to be taken of the face area timbered):		
	2.22.1 Depth not exceeding 1.5 m	Sqm.	33.64
	2.22.2 Depth exceeding 1.5 m but not exceeding 3 m	Sqm.	41.21
	2.22.3 Depth exceeding 3 m but not exceeding 4.5 m	Sqm.	53.48
2.23	Extra for planking and strutting in open timbering if required to be left permanently in position. (Face area of the timber permanently left to be measured).	Sqm.	654.41
2.28	Surface dressing of the ground including removing vegetation and in- equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.	Sqm.	25.61
2.30	Excavating holes more than 0.10 cum & upto 0.5 cum including getting out the excavated soil, then returning the soil as required in layers not exceeding 20cm in within a lead of 50 m and lift upto 1.5 m. depth, including consolidating each deposited layer by ramming, watering etc, disposing of surplus excavated soil, as directed		
	2.30.1 All kinds of soil	Each	61.84
	2.30.2 Ordinary rock	Each	145.69

CONCRETE WORK

Code No	Description	Column1	Unit	Rate
4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering			
	4.1.2 1:1.5:3 (1 Cement: 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)		cum	6255.64
	4.1.3 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)		cum	5908.88
	4.1.5 1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)		cum	5471.03
	4.1.8 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)		cum	5109.00
	4.1.10 1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)		cum	4888.95
4.3	Centering and shuttering including strutting, propping etc. and removal of form work			
	4.3.1 Foundations, footings, bases for columns	Sqm.	Sqm.	294.11
	4.3.2 Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	Sqm.	Sqm.	631.88
	4.3.3 Columns, piers, abutments, pillars, posts and struts	Sqm.	Sqm.	720.97
4.10	DAMP-PROOF COURSE Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5 mm nominal size derived from natural sources)		Sqm	308.14
4.12	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.		Per bag of 50kg cement used	13.61
5.90	**FORM work**:Centering, shuttering, including strutting, propping etc and removal of form for			
	5.9.3 Suspended floors, roofs, landings, balconies and access platform		sqm	695.44
	5.9.4 Shelves (Cast in situ)		sqm	695.44

	5.9.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	552.30
	5.9.6 Columns, Pillars, Piers, Abutments, Posts and Struts	sqm	720.97
	5.9.15 Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like	sqm	294.11
	5.9.17 Cornices and mouldings	sqm	642.60
5.22	**Steel reinforcement** for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.		0.00
	5.22.6 Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg.	80.89
5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level		0.00
	5.22A.6 Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg.	80.89
5.23	Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand).	Sqm.	225.34
5.47	Providing and fixing in position factory made precast RCC M-40 door and window frame fixing with hold fast embedded in 1:3:6 concrete block, having excellent smooth finish as per IS: 6523 with reinforcement of 3 Nos, 6 mm dia main bars tied with 3 mm M.S stirrups placed @ 200 mm C/C and 6 numbers high strength polymer blocks of required size for fixing hinges including providing 6 nos. specially designed M.S. galvanised sleeves for accomodating 6 mm dia fully threaded bolts for fixing hold fast on vertical members, providing suitable arrangement for recieving sliding door bolts and tower bolt etc. all complete, as per the direction of Engineer-in-charge. The frame shall be measured in running metre correct to two places of decimal.		
	5.47.1 Door frame 125 mmx 60 mm	Metre	611.14
	5.47.2 Door frame 100 mmx 60 mm	Metre	567.83
	5.47.3 Door frame 85 mmx60 mm	Metre	545.47

	MASONRY WORK		
Code No	**Description**	**Unit**	**Rate**
6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:		
	6.1.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	5527.99
	6.1.2 Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	5349.19
6.2	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in:		
	6.2.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	4878.68
	6.2.2 Cement Mortar 1:6 (1 cement : 6 coarse sand).	cum	4721.36
6.3	Brick work with common burnt clay machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 in superstructure above plinth level up to floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) :		
	6.3.1 With F.P.S.(non modular) bricks	cum	6974.93
	6.3.2 With Modular bricks	cum	6706.76
6.4	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 :		
	6.4.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	7008.26
	6.4.2 Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	6829.46
	HALF BRICK MASONRY		
6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :		
	6.12.1 Cement mortar 1:3 (1 cement : 3 coarse sand)	sqm	698.81
	6.12.2 cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	678.79
6.13	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.		
	6.13.1 Cement mortar 1:3 (1 cement :3 coarse sand)	sqm	862.88
	6.13.2 Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	842.85
6.14	Extra for half brick masonry in superstructure, above floor V level for every four floors or part thereof by mechanical means.	sqm	11.25
6.15	Extra for providing and placing in position 2 Nos 6 mm dia. M.S. bars at every third course of half brick masonry.	sqm	78.60
	BRICK TILE WORK		
6.16	Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in foundation and plinth in:		
	6.16.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	8409.38
	6.16.2 Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	8123.29
6.17	Tile brick masonry with common burnt clay machine moulded tile bricks of class designation 12.5 conforming to IS : 2690 (Part I) in foundation and plinth in cement mortar 1:6 (1 cement : 6 coarse sand).	cum	8496.38

6.18	Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10in cement mortar 1:6 (1 cement : 6 coarse sand)	cum	9662.29
6.20	Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in plain arch work in superstructure above plinth and upto floor five level in cement mortar 1:4 (1 cement : 4 coarse	cum	14231.36
6.21	Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in gauged arch work in superstructure above plinth and upto floor five level in cement mortar 1:4 (1 cement : 4 coarse sand) including centering and shuttering complete.	cum	17264.81
6.22	Tile brick masonry work 5 cm thick with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure above plinth and upto floor five level.	sqm	664.09
	HONEY COMB WORK		
6.23	Honey-comb brick work 10 / 11.4 cm thick with common burnt clay bricks of class designation 7.5 in super structure above plinth level upto floor V level with cement mortar 1:4 (1 cement : 4 coarse sand).	sqm	533.63
	EXPOSED BRICK WALL		
6.26	Brick work with common burnt clay selected F.P.S. (non modular) bricks of class designation 7.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand)		
	6.26.1 From ground level upto plinth level	cum	5521.01
	6.26.2 Above plinth level upto floor V level	cum	7079.81
6.27	Brick work with common burnt clay modular bricks of class designation 7.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).		
	6.27.1 From ground level upto plinth level	cum	4754.40
	6.27.2 Above plinth level upto floor V level	cum	6234.68
6.28	Brick work with common burnt clay machine moulded modular bricks of class designation 12.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).		
	6.28.1 From ground level upto plinth level	cum	5248.05
	6.28.2 Above plinth level upto floor V level	cum	6728.33
6.29	Brick work with common burnt clay machine moulded F.P.S. (non modular) bricks of class designation 12.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).		
	6.29.1 From ground level upto plinth level	cum	5685.86

6.30	Brick work with common burnt clay machine moulded perforated F.P.S. (non modular) bricks of class designation 12.5 conforming IS : 2222 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).		
	6.30.1 From ground level upto plinth level	cum	5527.73
	6.30.2 Above plinth level upto floor V level	cum	7008.00
6.31	Brick work with common burnt clay machine moulded perforated modular bricks of class designation 12.5 conforming to IS : 2222 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).		
	6.31.1 From ground level upto plinth level	cum	5274.04
	6.31.2 Above plinth level upto floor V level	cum	6754.31
6.32	Brick work with clay flyash F.P.S. (non modular) brick of class designation 7.5 in superstructure above plinth level up to floor five level in :		
	6.32.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	7000.09
	6.32.2 Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	6821.29
6.34	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :		
	6.34.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	6721.76
	6.34.2 Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	6564.41
	RANDOM RUBBLE MASONRY		
7.10	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :		
	7.1.1 Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	5483.44
7.20	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like.		

	7.2.1 Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	6956.59
7.40	Extra for random rubble masonry with hard stone in :		
	7.4.1 Square or rectangular pillars	cum	717.00
	7.4.2 Circular pillars	cum	1897.95
7.50	Extra for random rubble masonry with hard stone curved on plan for a mean radius not exceeding 6 m.	cum	784.65
	COURSED RUBBLE MASONRY		
7.60	Coursed rubble masonry (first sort) with hard stone in foundation and plinth with :		
	7.6.1 Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	6609.04
	7.7.1 Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	6148.91
7.80	Coursed rubble masonry with hard stone (first or second sort) in superstructure above plinth level and upto floor five level.		
	7.8.1 Masonry work (first sort), in cement mortar 1:6 (1 cement : 6 coarse sand)	cum	8056.20
	7.8.2 Masonry work(second sort), in cement mortar 1:6 (1 cement: 6 coarse sand)	cum	7596.08
7.10	Extra for coursed rubble masonry with hard stone (first or second sort) in:		
	7.10.1 Square or rectangular pillars	cum	795.38
	7.10.2 Circular pillars	cum	2155.65
7.11	Extra for coursed rubble masonry with hard stone (first or second sort) curved on plan for a mean radius not exceeding 6 m.	cum	850.24
	ASHLAR MASONRY		
7.12	Stone work in plain ashlar in super structure upto floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade :		
	7.12.1 One face dressed		
	7.12.1.1 Red sand stone	cum	51220.50
	7.12.1.2 White sand stone	cum	61888.50
	7.12.2 Both face dressed		
	7.12.2.1 Red sand stone	cum	68471.25

	7.12.2.2 White sand stone	cum	79139.25
7.13	Stone work plain ashlar in arches in super structure upto floor V level in cement mortar 1:3 (1 cement : 3 coarse sand) including centering, shuttering and pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.		
	7.13.1 One face dressed		
	7.13.1.1 Red sand stone	cum	56447.25
	7.13.1.2 White sand stone	cum	67115.25
	7.13.2 Both face dressed		
	7.13.2.1 Red sand stone	cum	73698.75
	7.13.2.2 White sand stone	cum	84366.00
7.14	Stone work plain ashlar in domes , in super structure upto floor V level in cement mortar 1:3 (1 cement : 3 coarse sand) including centering, shuttering and pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.		
	7.14.1 One face dressed		
	7.14.1.1 Red sand stone	cum	85707.75
	7.14.1.2 White sand stone	cum	96375.00
	7.14.2 Both face dressed		
	7.14.2.1 Red sand stone	cum	127464.75
7.15	Stone work ashlar punched (ordinary) in superstructure upto floor five level in cement mortar 1:6 (1 white cement : 6 coarse sand) including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.		
	7.15.1 One face dressed		
	7.15.1.1 Red sand stone	cum	48694.50
	7.15.1.2 White sand stone	cum	59362.50
	7.15.2 Both faced punched		
	7.15.2.1 Red sand stone	cum	63420.00
	7.15.2.2 White sand stone	cum	74088.00
7.16	Extra for stone work, random rubble / coursed rubble masonry / ashlar masonry above floor V level for every four floors or part thereof by mechnical means.	cum	127.09
7.17	Extra for plain ashlar or ashlar punched in :		
	7.17.1 Square or rectangular pillars	cum	2172.00
7.18	Extra for stone work; plain ashlar or ashlar punched curved on plan with a mean radius not exceeding 6 m.	cum	1510.50
7.19	Extra for additional cost of centering for arches exceeding 6m span including all strutting, bolting, wedging etc. and removal (area of soffit to be measured).	sqm	456.11

	SUNK, MOULDED, CARVED ASHLAR MASONRY		
7.20	Stone work ashlar sunk or moulded or sunk and moulded upto floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade :		
	7.20.1 Red sand stone	cum	70847.25
	7.20.2 White sand stone	cum	81514.50
7.21	Extra for stone work ashlar sunk or moulded or sunk and moulded or carved in :		
	7.21.1 Triangular or Square or rectangular pillars	cum	2834.25
	7.21.2 Circular or polygonal pillars	cum	8029.50
7.22	Extra for stone work ashlar sunk or moulded in cornices.	per metre per cm girth (60cm deep	227.63
	MISCELLANEOUS STONE WORK		
7.26	Providing and fixing stone dowels 10x5x2.50 cm cut to double wedge shape as per design in cement mortar 1:2 (1 cement : 2 coarse sand), including making the necessary chases finishing complete.	each	40.91
7.38	Stone tile work for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade.		
	7.38.1 8 mm thick (mirror polished and machine cut edge)		
	7.38.1.1 Granite stone of any colour and shade	sqm	2320.91
	7.38.1.2 Raj Nagar plain white marble/ Udaipur green marble/ Zebra black marble	sqm	2074.84
8.10	Marble work gang saw cut (polished and machine cut) of thickness 18 mm for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade (To be secured to the backing by means of cramps, which shall be		
	8.1.1 Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble.		
	8.1.1.1 Area of slab upto 0.50 sqm	Sqm.	4306.91
	8.1.1.2 Area of slab over 0.50 sqm	Sqm.	4453.50

8.20	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 of edges to give high gloss finish etc. complete at all levels.		
	8.2.1 Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble		
	8.2.1.1 Area of slab upto 0.50 sqm	Sqm.	2561.10
	8.2.1.2 Area of slab over 0.50 sqm	Sqm.	2308.80
	8.2.2 Granite stone slab of colour black, Cherry/Ruby red		
	8.2.2.1 Area of slab upto 0.50 sqm	Sqm.	4060.13
	8.2.2.2 Area of slab over 0.50 sqm	Sqm.	3852.23
	8.2.3 Granite stone slab of all colour and texture except black, Cherry/Ruby red		
	8.2.3.1 Area of slab upto 0.50 sqm	Sqm.	3128.03
	8.2.3.2 Area of slab over 0.50 sqm	Sqm.	2886.53
8.3	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.		
	8.3.1 Marble work	Metre	223.95
	8.3.2 Granite work	Metre	383.21
8.4	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.	Metre	426.41
8.5	Extra for providing opening of required size & shape for wash basin/including moulding, rubbing and polishing of cut edges etc. complete.	Each	734.03
8.6	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	Sqm.	380.03
8.31	Providing and fixing Ist 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	950.96

FINISHING

Code No	Description	Unit	Rate
	CEMENT PLASTER (IN FINE SAND)		
13.1	12 mm cement plaster of mix :		
	13.1.1 1:4 (1 cement: 4 fine sand)	sqm	260.29
	13.1.2 1:6 (1 cement: 6 fine sand)	sqm	250.01
13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :		
	13.2.1 1:4 (1 cement: 4 fine sand)	sqm	299.59
	13.2.2 1:6 (1 cement: 6 fine sand)	sqm	287.25
13.3	20 mm cement plaster of mix :		
	13.3.1 1:4 (1 cement: 4 fine sand)	sqm	353.51
	13.3.2 1:6 (1 cement: 6 fine sand)	sqm	337.50
	CEMENT PLASTER (IN COARSE SAND)		
13.4	12 mm cement plaster of mix :		
	13.4.1 1:4 (1 cement: 4 coarse sand)	sqm	268.01
	13.4.2 1:6 (1 cement: 6 coarse sand)	sqm	257.74
13.5	15 mm cement plaster on rough side of single or half brick wall of mix:		
	13.5.1 1:4 (1 cement: 4 coarse sand)	sqm	308.81
	13.5.2 1:6 (1 cement: 6 coarse sand)	sqm	296.51
13.6	20 mm cement plaster of mix :		
	13.6.1 1:4 (1 cement: 4 coarse sand)	sqm	365.55
	13.6.2 1:6 (1 cement: 6 coarse sand)	sqm	349.54
	CEMENT PLASTER WITH A FLOATING COAT OF NEAT CEMENT		
13.7	12 mm cement plaster finished with a floating coat of neat cement of mix :		
	13.7.1 1:3 (1 cement: 3 fine sand)	sqm	329.44
	13.7.2 1:4 (1 cement: 4 fine sand)	sqm	319.16
13.8	15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix :		
	13.8.1 1:3 (1 cement: 3 fine sand)	sqm	370.73
	13.8.2 1:4 (1 cement: 4 fine sand)	sqm	358.43
13.9	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.		
	13.9.1 12 mm cement plaster	sqm	337.16
	13.9.2 20 mm cement plaster	sqm	440.40
13.10	15 mm cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall.	sqm	379.95
	CEMENT PLASTER IN TWO COATS		
13.11	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	sqm	388.91
13.12	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with sponge.	sqm	403.09

Code No	Description	Unit	Rate
13.13	12 mm cement plaster 1:2 (1 cement : 2 stone dust).	sqm	284.03
13.14	15 mm cement plaster 1:2 (1 cement : 2 stone dust) on the rough side of single or half brick wall.	sqm	327.90
13.15	20 mm cement plaster 1:2 (1 cement : 2 stone dust).	sqm	390.41
	6 mm CEMENT PLASTER		
13.16	6 mm cement plaster of mix :		
	13.16.1 1:3 (1 cement : 3 fine sand)	sqm	225.34
13.17	6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.	sqm	297.49
13.18	Neat cement punning.	sqm	59.96
	ROUGH CAST PLASTER		
13.19	Rough cast plaster upto 10 m height above ground level with a mixture of sand and gravel or crushed stone from 6 mm to 10 mm nominal size, dashed over and including the fresh plaster in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10 mm cement plaster 1:3 (1 cement : 3 fine sand) mixed with 10% finely grounded hydrated lime by volume of cement.		
	13.19.1 Ordinary cement finish using ordinary cement	sqm	664.95
	PEBBLE DASH PLASTER		
13.20	Pebble dash plaster upto 10 m height above ground level with a mixture of washed pebble or crushed stone 6 mm to 12.5 mm nominal size, dashed over and including fresh plaster in two layers under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10 mm cement plaster with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 10% finely grounded hydrated lime by volume of cement.	sqm	622.46
13.21	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	per bag of 50kg cement used in the mix	16.58
13.22	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.	sqm	65.33
13.23	Extra for plastering on circular work not exceeding 6 m in radius:		
	13.23.1 In one coat	sqm	35.74
	13.23.2 In two coats	sqm	54.23
13.24	Extra for plastering done on moulding, cornices or architraves including neat finish to line and level:		
	13.24.1 In one coat	sqm	534.90
	13.24.2 In two coats	sqm	881.81
13.25	Extra for plastering:		
	13.25.1 Spherical ceiling	sqm	133.20
	13.25.2 Groined ceiling	sqm	144.23
	13.25.3 Flewing soffits	sqm	88.24
13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	sqm	197.03

	ARTIFICIAL STONE PLASTER		
13.27	Extra for lining out plaster to imitate stone or concrete blocks walling.	sqm	85.43
	POINTING ON BRICK WORK		
13.31	Pointing on brick work or brick flooring with cement mortar 1:3 (1 cement : 3 fine sand):		
	13.31.1 Flush / Ruled/ Struck or weathered pointing	Sqm	193.01
	13.31.2 Raised and cut pointing	Sqm	314.93
	POINTING ON TILE BRICK WORK		
13.32	Pointing on tile brick work with cement mortar 1:3 (1 cement : 3 fine sand):		
	13.32.1 Flush/ Ruled/ Struck or weathered pointing	Sqm	262.65
	POINTING ON STONE WORK		
13.33	Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) :		
	13.33.1 Flush/ Ruled pointing	Sqm	289.05
	13.33.2 Raised and cut pointing	Sqm	525.79
13.34	Raised and cut pointing on stone work in white cement mortar 1:3 (1 white cement : 3 marble dust).	Sqm	537.71
13.35	Pointing on stone slab ceiling with cement mortar 1:2 (1 cement : 2 fine sand):		
	13.35.1 Flush/ Ruled pointing	Sqm	160.65
13.36	Extra for pointing on walls on the outside at height more than 10 m from ground level for every additional height of 3 m or part there of.	Sqm	6.49

FLOORING

Code No	Description	Unit	Rate
11.3	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.		
	11.3.1 40 mm thick with 20 mm nominal size stone aggregate	sqm	460.65
	11.6.1 18 mm thick	sqm	496.54
11.7	Cement concrete pavement with 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete.	cum	6446.36
11.8	Extra for making chequers of approved pattern on cement concrete floors, steps, landings, pavements etc.	sqm	62.89
	TERRAZO FLOORING		
11.9	40 mm thick marble chips flooring rubbed and polished to granolithic finish, under layer 34 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand 4 graded stone aggregate 12.5 mm nominal size) and top layer 6 mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from 1 mm to 4 mm nominal size, laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 marble chips) by volume, including cement slurry etc. complete :		
11.9.1 Dark shade		sqm	799.31
11.9.2 Light shade		sqm	819.38
11.9.3 Medium shade		sqm	806.33
	11.9.4 White cement without any pigment	sqm	800.63
	11.9.5 Light shade pigment with ordinary cement	sqm	796.28
	11.9.6 Ordinary cement without any pigment	sqm	775.69
11.13	Providing and fixing glass strips in joints of terrazo/ cement concrete flooring		
	11.13.1 40mm wide and 4mm thick	meter	68.81
11.2	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).		
	11.20.1 Light shade pigment using white cement	Sqm.	1051.50
	11.20.2 Medium shade pigment using 50% white cement 50% Grey cement	Sqm.	996.26
	11.20.3 Dark shade pigment using ordinary cement	Sqm.	839.63
	11.20.4 Ordinary cement without any pigment	Sqm.	792.26
11.21	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.		
	11.21.1 In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)		
	11.21.1.1 Acid and alkali resistant tile	Sqm.	1303.61

	11.21.2 In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)		
	11.21.2.1 Acid and alkali resistant tile	Sqm.	1413.68
11.22	Tile work in skirting, risers of steps and dado up to 2 m height over 12 mm thick bed of cement mortar 1:3 (1 cement :3 coarse sand) and jointed with grey cement slurry @ 3.3 kg/sqm, including pointing in white cement mixed with pigment of matching shade complete.		
	11.22.1 Marble tiles (polished) Raj Nagar		
	11.22.1.1 8 mm thick	Sqm.	1106.51
	STONE FLOORING		
11.23	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 :		
	11.23.1 Makrana white second quality	Sqm.	2803.09
	11.23.2 Raj Nagar plain	Sqm.	1760.10
	11.23.3 Agaria White	Sqm.	2373.60
	11.23.4 Black Zebra	Sqm.	2250.90
	11.23.5 Udaipur green marble	Sqm.	1821.45
	11.23.6 Pink plain marble	Sqm.	1882.80
11.24	Extra for pre finished nosing to treads of steps of marble stone.	Metre	539.93
11.25	Extra for marble stone flooring in treads of steps and risers using single length up to 2.00 metre.	Sqm.	638.85
	KOTA STONE FLOORING		
11.26	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):		
	11.26.1 25 mm thick	Sqm.	1461.19
11.27	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.	1766.03
	SAND STONE FLOORING		
11.28	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand) with joints finished flush.		
	11.28.1 Red sand stone	Sqm.	960.08
	11.28.2 White sand stone	Sqm.	1006.99
11.31	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	Metre.	143.55

11.32	Extra for Kota stone/ sand stone in treads of steps and risers using single length above normal size up to 2.00 metre.	Sqm.	33.11
	WOODEN FLOORING		
11.33	25 mm wooden planking, tongued and grooved in flooring, including fixing with iron screws complete with :		
	11.33.1 Second class teak wood	Sqm.	3381.71
	11.33.2 Second class deodar wood	Sqm.	2272.31
	CERAMIC GLAZED TILES		
11.37	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 @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm.	822.41
11.37A	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.	84.53
11.38	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 @ 3.3 kg/ sq.m including pointing the joints with white cement and matching pigments etc., complete.	Sqm.	986.48
	VITRIFIED FLOOR TILES		
14.41	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 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete		
	11.41.1 Size of Tile 500x500 mm	Sqm.	1143.23
	11.41.2 Size of Tile 600x600 mm	Sqm.	1165.09
	11.41.3 Size of Tile 800x800 mm	Sqm.	1414.13
	11.41.4 Size of Tile 1000x1000 mm	Sqm.	1567.24

11.41A	Providing and laying Vitrified tiles in floor 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, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.		
	11.41A.1 Double charge vitrified tile polished finish of size		
	11.41A.1.1 Size of Tile 600 x 600 mm	sqm	1090.24
	11.41A.1.2 Size of Tile 800 x 800 mm	sqm	1151.14
	11.41A.1.3 Size of Tile 600 x 1200 mm	sqm	1182.86
	11.41A.1.4 Size of Tile 800 x 1600 mm	sqm	1402.69
	11.41A.1.5 Size of Tile 1000 x 1000 mm	sqm	1351.28
	11.41A.2 Glazed vitrified floor tiles polished finish of size		
	11.41A.2.1 Size of Tile 600 x 600 mm	sqm	1127.06
	11.41A.2.2 Size of Tile 600 x 1200 mm	sqm	1349.10
	11.41A.2.3 Size of Tile 800 x 800 mm	sqm	1296.60
	11.41A.2.4 Size of Tile 800 x 1200 mm	sqm	1542.68
	11.41A.2.5 Size of Tile 1200 x 1200 mm	sqm	1905.75
	11.41A.3 Glazed Vitrified tiles Matt/Antiskid finish of size		
	11.41A.3.1 Size of Tile 600 x 600 mm	sqm	1098.64
	11.41A.3.2 Size of Tile 600 x 1200 mm	sqm	1347.98
	11.41A.3.3 Size of Tile 800 x 800 mm	sqm	1293.30
	11.41A.3.4 Size of Tile 800 x 1200 mm	sqm	1542.68
	11.41A.3.5 Size of Tile 1200 x 1200 mm	sqm	2128.88
11.43	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3 mm thickness.	Sqm.	564.94
11.44	Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm , mixing fibre @ 125 grams per 50 kg of cement in cement mortar, including cement, all complete as per direction of Engineer-in-charge.	Sqm.	715.61
11.45	Providing and laying 500x500x40 mm thick Turf paver (Turfpave XD) on 150 mm thick sub grade of compacted bed of 20 mm thick nominal size stone aggregate and base course and filling with 150 mm thick Jamuna sand, including spreading, well ramming, consolidating and finishing smooth etc. all complete as per direction of Engineer-in-charge.	Sqm.	1281.08

11.46	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 @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.	Sqm.	
	11.46.1 Size of Tile 500x500 mm	sqm	1195.43
	11.46.2 Size of Tile 600x600 mm	sqm	1217.29
	11.46.3 Size of Tile 800x800 mm	sqm	1468.84
	11.46.4 Size of Tile 1000x1000 mm	sqm	1621.95
11.46A	Providing and fixing glazed screen printed border tile 75 mm wide having thickness Smm, of approved quality & make, in all shades, design and prints, in dado, over 12 mm thick bed of cement mortar 1:3 (1 Cement : 3 Coarse sand) and jointing with grey cement slurry @ 3.3 kg/sqm including pointing with white cement mixed with pigment of matching shade, all complete as approved by Engineer - in - Charge	Metre	162.15
11.47	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).		
	11.47.1 Size of Tile 500x500 mm	Sqm.	1398.56
	11.47.2 Size of Tile 600x600 mm	Sqm.	1420.43
	11.47.3 Size of Tile 800x800 mm	Sqm.	1671.94
	11.47.4 Size of Tile 1000x1000 mm	Sqm.	1825.05
11.49	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).		
	11.49.1 Size of Tile 500x500 mm	sqm	1272.15
	11.49.2 Size of Tile 600x600 mm	sqm	1294.01
	11.49.3 Size of Tile 800x800 mm	sqm	1545.56
	11.49.4 Size of Tile 1000x1000 mm	sqm	1698.68
11.49A	Providing and laying full body vitrified tile in floor of minimum thickness 15 mm with water absorption less than 0.06% and conforming to IS:15622, of approved make, brand and manufacturer, laid on 20 mm thick base cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.30 kg / sqm including grouting the joints with white cement and matching pigments etc. The slab must be cut with the zero chipping diamond cutter only. Laying of slab will be done with the help of notch trowel, wedge, clips of required thickness, vacuum cups for lifting, leveling system and rubber mallet for placing the slab gently and easily.Size of tile 800x2400 mm of all colours and shades.	Sqm.	2717.96

11.52	Providing and laying machine cut, mirror polished Marble stone flooring, in required design (Simple geometrical, abstract etc.) and in patterns in combination with Italian marble stones of different colours, shades and finished surface texture etc., in linear portions of the building, all complete as per the architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm, including pointing with white cement slurry admixed with pigment to match the marble shade, including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.		
	11.52.1 18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc.	Sqm.	5195.51
11.53	Providing and fixing Glass mossaic tiles on finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design , fixing in customize design as per direction of Engineer-in- Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in- Charge:	Sqm.	2918.36
11.55	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :		
	11.55.1 Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sqm.	2390.03
11.56	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.		
	11.56.1 Polished Granite stone slab of colour Black, Cherry/Ruby Red or equivalent	Sqm.	3360.98
	11.56.2 Polished Granite stone slab of all colour and texture except Black, Cherry/Ruby Red	Sqm.	2303.29

General Repair and Maintenance work

Code No	Description	Unit	Rate
14.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.		
14.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	sqm	410.55
14.1.2	With cement mortar 1:4 (1cement: 4 coarse sand)	sqm	420.38
14.2	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.		
14.2.1	Door chowkhats	each	1336.91
14.2.2	Window chowkhats	each	843.86
14.2.3	Clerestory window chowkhats	each	638.25
14.4	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface including disposal of mulba/ rubbish to the nearest municipal dumping ground, all complete as per direction of Engineer-in-Charge.		
14.4.1	For door/ window/ clerestory window	sqm	948.26
14.5	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:		
14.5.1	Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	sqm	817.99
14.5.2	Float glass panes of nominal thickness 5 mm (weight not less than 12.5kg/sqm)	sqm	1062.11
14.6	Renewing glass panes, with wooden fillets wherever necessary:		
14.6.1	Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	sqm	1185.68
14.6.2	Float glass panes of nominal thickness 5 mm (weight not less than 12.5kg/sqm)	sqm	1429.80
14.7	Renewing glass panes and refixing existing wooden fillets:		
14.7.1	Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	sqm	920.48
14.7.2	Float glass panes of nominal thickness 5 mm (weight not less than 12.5kg/sqm)	sqm	1164.56

Code No	Description	Unit	Rate
14.9	Renewal of old putty of glass panes (length)	metre	42.11
14.10	Refixing old glass panes with putty and nails	sqm	547.39
14.11	Fixing old glass panes with wooden fillets (excluding cost of fillets)	sqm	509.70
14.12	Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab, including cutting chase, anchoring clamp to reinforcement bar, including cleaning, refilling, making good the chase with matching concrete, plastering and painting the exposed portion of the clamps complete.	each	422.93
14.15	Renewing wooden battens in roofs, including making good the holes in wall and painting with oil type wood preservative of approved brand and manufacture complete, including removal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.		
	14.15.1 Sal wood battens	cum	74240.49
14.16	Renewing wooden beams in roofs including making good the holes in walls and painting with oil type wood preservative of approved brand and manufacture complete, including removal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.		
	14.16.1 Not exceeding 4.00 metres in length.		
	14.16.1.1 Sal wood beams	cum	78430.46
	14.16.1.2 Hollock wood beams	cum	52703.78
	14.16.2 Above 4.00 metres and upto 5.00 metres length.		
	14.16.2.1 Sal wood beams	cum	80490.00
	14.16.2.2 Hollock wood beams	cum	54740.44
14.17	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.	sqm	54.34

Code No	Description	Unit	Rate
14.21	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	224.14
14.22	Renewing Wrought iron or M.S. Wheel or roller of steel door or gate and fitting and fixing the same with necessary clamps, nuts and bolts/welding and erection etc. complete.		
	14.22.1 Wheel 50 mm dia and below	per wheel	92.78
	14.22.2 Wheel above 50 mm dia	per wheel	228.41
	EARTH WORK		
14.23	Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like.	kilo litre	173.29
	BRICK WORK		
14.25	Brick work with common burnt clay bricks of class designation 7.5 in mud mortar	cum	4655.44
	WOOD WORK		
14.26	Providing and fixing 25 mm thick shutters for cup board etc. :		
	14.26.1 Panelled or panelled & glazed shutters :		
	14.26.1.1 Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	sqm	3845.25
	14.26.1.2 Ist class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	sqm	3363.64
	14.26.2 Glazed shutters :		
	14.26.2.1 Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	sqm	3790.54
	14.26.2.2 Ist class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	sqm	3271.84
14.27	Providing and fixing plain jaffri door and window shutters including bright or/and black enamelled M.S. butt hinges with necessary screws 35x10 mm laths placed 35 mm apart (frames to be paid separately), including fixing 50x12 mm beading complete with :		
	14.27.1 Second class teak wood	sqm	3451.99
14.28	Providing and fixing brass curtain rods of wall thickness 1.25 mm with two brass brackets fixed with brass screws and wooden plugs etc. wherever necessary complete.		
	14.28.1 20 mm diameter.	metre	257.63
	14.28.2 25 mm diameter.	metre	316.31
14.29	Providing and fixing M.S. round or square bars with M.S. flats at required spacing in wooden frames of windows and clerestory windows.	kg	90.56
14.30	Providing joists (karries) including hoisting, fixing in position and applying wood preservative on unexposed surface etc. complete with :		
	14.30.1 Sal wood	cum	73483.73
	14.30.2 Hollock wood	cum	48017.14

Code No	Description	Unit	Rate
14.72	Providing and fixing double scaffolding system (cup lock type) on the exterior side 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 Engineer-in-charge. The elevational area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding.	sqm	253.69
	Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done.		
14.75	Repair to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In-Charge.	sqm	503.21
	ROUTINE MAINTENANCE WORK		
14.75A	Cleaning of terrace/loft water storage tank (inside surface area) upto 2000 litre capacity at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba all complete as per direction of Engineer- in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre) (if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)	litre	0.38
14.76	Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.	each	81.23
14.77	Cleaning of chocked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150 mm dia upto 300 mm	metre	255.56

Code No	Description	Unit	Rate
14.78	Cleaning of under ground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:- (i) Tank shall be emptied of water by pumping & bottom shall be cleaned of silt and other deposits. (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. (iii) Chlorination of RCC internal surface by liquid chlorine. (iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface. (v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge.	sqm	422.70
14.79	Disconnecting damaged overhead/terrace PVC water storage tank of any size from water supply line and removing from the terrace including		

Code No	Description	Unit	Rate
	shifting at ground level as per direction of Engineer-in-charge.	each	325.31
14.80	Providing & fixing White vitreous china water closet squatting pan (Indian type) along with "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary materials, labour and disposal of dismantled material including malba, all complete as per the direction of Engineer-in charge.		
	14.80.1 Long pattern W.C Pan of size 580x440 mm	each	2626.28
	14.80.2 Orissa pattern W.C Pan of size 580x440 mm	each	3359.06
14.81	Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge.	each	216.08
14.82	Dismantling W.C. Pan of all sizes including disposal of dismantled materials including malba all complete as per directions of Engineer-in-Charge.	each	100.58
14.83	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	sqm	2.59
14.84	Dismantling 15 to 40 mm dia G.I. pipe including stacking of dismantled pipes (within 50 metres lead) as per direction of Engineer-in-Charge.		
	(a) Internal Work- Exposed on wall	metre	2.44
14.85	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	321.83
14.86	Providing and laying in situ seven course water proofing treatment with APP (Atactic poly-propylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 litre per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 1.5 mm thick of 2.25 Kg/sqm weight consisting of five layers prefabricated with centre core as 20 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately).	sqm	547.91

Code No	Description	Unit	Rate
14.91	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 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 :		
	14.91.1 3 mm thick	sqm	420.71
14.92	Extra for covering top of membrane with Geotextile, 120 gsm non woven, 100% polyester of thickness 1 to 1.25 mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation.	sqm	66.68

DISMANTLING AND DEMOLISHING

Code No	Description	Unit	Rate
15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.		
15.2.1	Nominal concrete 1:3:6 or richer mix (including equivalent design mix)	cum	1825.69
15.2.2	Nominal concrete 1:4:8 or leaner mix (including equivalent design mix)	cum	1127.70
15.7	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.		
15.7.1	In cement mortar	cum	1545.15
15.8	Demolishing stone rubble masonry 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 :		
15.9.2	In cement mortar	cum	1844.21
15.10	Dismantling dressed stone work ashlar face stone work, marble work or precast concrete work manually/ by mechanical means including stacking of serviceable and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :		
15.10.2	In cement mortar	cum	2158.31
15.11	Removing mortar from and cleaning stones and concrete articles (net quantity of stacks of cleaned materials will be measured):		

Code No	Description	Unit	Rate
	15.11.2 In cement mortar	cum	516.90
15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :		
	15.12.1 Of area 3 sq. metres and below	each	275.40
	15.12.2 Of area beyond 3 sq. metres	each	377.06
15.13	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :		
	15.13.1 Of area 3 sq. metres and below	each	107.63
	15.13.2 Of area beyond 3 sq. metres	each	141.68
15.14	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 :		
	15.14.1 Of sectional area 40 square centimetres and above	cum	3344.33
	15.14.2 Of sectional area below 40 square centimetres	metre	13.39
15.15	Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional span of one metre or part thereof beyond 10 metres :		
	15.15.1 Of sectional area 40 square centimetres and above	cum per metre span	442.16
	15.15.2 Of sectional area below 40 square centimetres	metre per metre span	1.24
15.16	Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional height of one metre or part thereof beyond 5 metres :		
	15.16.1 Of sectional area 40 square centimetres and above	cum per metre height	642.75
	15.16.2 Of sectional area below 40 square centimetres	metre per metre height	2.55
15.17	Dismantling steel work in single sections including dismembering and stacking within 50 metres lead in:		
	15.17.1 R.S. Joists	kg	2.55
	15.17.2 Channels, angles, tees and flats	kg	1.73
15.18	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead.	kg	4.24
15.19	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per direction of Engineer-in-charge.	kg	2.89
15.20	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional span of one metre or part thereof beyond 10 metres	kg per metre span	0.64
15.21	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional height of one metre or part thereof beyond 5 metres.	kg per metre height	0.64
15.22	Extra for marking of structural steel work required to be re-erected.	kg	3.49

Code No	Description	Unit	Rate
15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.		
	15.23.1 For thickness of tiles 10 mm to 25 mm	sqm	55.05
	15.23.2 For thickness of tiles above 25 mm and up to 40 mm	sqm	85.01
15.24	Demolishing dry brick pitching in floors, drains etc. including stacking of serviceable material and disposal of unserviceable material within 50 metres lead :	cum	988.24
15.28	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:		
	15.28.1 G.S. Sheet	sqm	123.71
	15.28.2 Asbestos Cement sheet	sqm	57.98
15.31	Dismantling tiled roofing with battens, boarding etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	sqm	157.43
15.33	Dismantling wooden ballies in posts and struts including stacking within 50metres lead.	metre	15.71
15.34	Dismantling and stacking within 50 metres lead, fencing posts or struts including all earth work and dismantling of concrete etc. in base of:		
	15.34.1 T' or 'L' iron or pipe	each	173.18
	15.34.2 R.C.C.	each	182.48
15.36	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.	kg	27.60
15.39	Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead :		
	15.39.1 Up to 10 mm thick	sqm	45.75
	15.39.2 Thickness above 10 mm up to 25 mm	sqm	58.31

Code No	Description	Unit	Rate
15.39.3	Thickness above 25 mm up to 40 mm	sqm	67.76
15.41	Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50 metres lead.	sqm	42.26
15.43	Dismantling 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 :		
15.43.1	Water bound macadam road	sqm	163.09
15.43.2	bituminous road	sqm	321.38
15.44	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :		
15.44.1	15 mm to 40 mm nominal bore	metre	112.35
15.44.2	Above 40 mm nominal bore	metre	121.05
15.45	Dismantling C.I. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metre lead as per direction of Engineer-in-charge:		
15.45.1	Up to 150 mm diameter	metre	249.30
15.45.2	Above 150 mm dia up to 300 mm dia	metre	342.49
15.45.3	Above 300 mm diameter	metre	460.73
15.48	Taking out C.I. cover with frame from R.C.C. top slab of manholes of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-in-charge.	each	523.05

Code No	Description	Unit	Rate
15.49	Taking out C.I. cover with frame from R.C.C. top slab of inspection chambers of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-in-charge.	each	305.06
15.56	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	40.99
15.57	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	42.26
15.58	Demolishing R.C.C. work by mechanical means and stockpiling at designated locations and disposal of dismantled materials up to a lead of 1 kilometre, stacking serviceable and unserviceable material separately including cutting reinforcement bars.	cum	2114.18
15.59	Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilometre, as per direction of Engineer-in-charge.	cum	315.60
15.60	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	197.96

CARPENTRY WORK

Code No	Description	Unit	Rate
	FRAMES AND TRUSSES		
9.1	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).		
	9.1.1 Second class teak wood	cum	100064.8
	9.1.2 Sal wood	cum	81564.21
	9.1.3 Kiln seasoned and chemically treated hollock wood	cum	58364.64
9.2	Providing laminated veneer lumber conforming to IS:14616 and TAD -15: 2001 (Part B) in factory made frames of doors, windows, clerestory windows and other frames, wrought framed and fixing 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).	cum	92386.77
9.3	Providing wood work in frames of false ceiling, partitions etc. sawn and fixed in position with necessary stainless steel screws etc.		
	9.3.1 Sal wood	cum	73328.05
	9.3.2 Kiln seasoned and chemically treated hollock wood	cum	49936.5
9.4	Extra for additional labour for circular works, such as in frames of fan light		
	9.4.1 Second class teak wood	cum	10006.47
	9.4.2 Sal wood	cum	8156.44
	9.4.3 Kiln seasoned and chemically treated hollock wood	cum	5836.67
9.5	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note: Butt hinges and necessary screws shall be paid separately)		
	9.5.1 Second class teak wood		
	9.5.1.1 35 mm thick shutters	sqm	2878.37
	9.5.1.2 30 mm thick shutters	sqm	2623.11
	9.5.2 Kiln seasoned and chemically treated hollock wood		
	9.5.2.1 35 mm thick shutters	sqm	2008.37
	9.5.2.2 30 mm thick shutters	sqm	1873.80
	9.5.3 Kiln seasoned selected planks of sheesham wood		
	9.5.3.1 35 mm thick shutters	sqm	2546.85
	9.5.3.2 30 mm thick shutters	sqm	2337.06
9.6	Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to IS : 14616 and TADS 15:2001 (Part B), fixing with butt hinges of required size with necessary screws, all complete as per directions of Engineer- in-charge and panelling with panels of : (Note:- Butt hinges and necessary screws shall be paid separately)		
	9.6.1 12 mm thick plain grade -1, medium density flat pressed three layer particle board FPT - I or graded wood particle board FPT- I, IS : 3087 marked, bonded with BWP type synthetic resin adhesive as per IS : 848 :	sqm	2148.34

Code No		Description	Unit	Rate
	9.6.2	12 mm thick pre-laminated particle board (decorative lamination on both sides) grade -1, medium density flat pressed, three layer particle board FPT- I or graded wood particle board FPT- I, conforming to IS : 3087, bonded with BWP type synthetic resin adhesive as per IS : 848 and pre-laminated conforming to IS : 12823, Grade 1, Type - II marked.	sqm	2248.89
	9.6.3	12 mm thick one side Pre-laminated particle board (decorative lamination on one side and other sides balancing lamination) grade -1, medium density flat pressed, three layer particle board FPT - I or graded wood particle board FPT-1 conforming to IS : 3087 bonded with BWP type synthetic resin adhesive as per IS : 848 and pre-laminated conforming to IS : 12823, Grade -1, Type II marked.	sqm	2415.21
9.7		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.		
	9.7.1	Second class teak wood	sqm	2326.24
	9.7.2	Kiln seasoned and chemically treated hollock wood	sqm	1628.97
	9.7.3	Ply wood 5 ply, 9 mm thick		
	9.7.3.1	Decorative plywood both side decorative veneer (Type - I) conforming to IS 1328 BWR type	sqm	1906.98
	9.7.3.2	Decorative plywood one side decorative veneer and commercial veneer on other face (Type 1) conforming to IS 1328 BWR Type	sqm	1888.88
	9.7.4	Ply wood 7 ply, 9 mm thick		
	9.7.4.1	Decorative plywood one side decorative veneer and commercial veneer on other face (Type 1) conforming to IS 1328 BWR Type	sqm	2034.94
	9.7.5	Particle Board 12 mm thick		
	9.7.5.1	Plain particle board flat pressed, 3 layer or graded wood particle board medium density Grade I, IS : 3087 marked	sqm	1185.10
	9.7.5.2	Veneered flat pressed three layer or graded wood particle board with commercial veneering on both sides conforming to IS:3097, grade I	sqm	1408.44
	9.7.5.3	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side, Grade I, Type II IS: 12823 marked	sqm	1456.74
	9.7.5.4	Pre-laminated particle board with decorative lamination on both sides, Grade I, Type II, IS:12823 marked	sqm	1437.42
	9.7.6	Coir Veneer Board (conforming to IS 14842)		
	9.7.6.1	12 mm thick	sqm	1577.42
	9.7.7	Float glass panes		
	9.7.7.1	4 mm thick glass pane (weight not less than 10 kg/sqm).	sqm	1569.26

Code No	Description	Unit	Rate
	9.7.7.2 5.0 mm thick glass panes (weight not less than 12.50 kg/sqm). .	sqm	1820.32
	9.7.8 Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia. wire and 1.4 mm wide aperture with matching wood beading	sqm	1260.32
9.9	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes (weight not less than 10 kg per sqm) fixing with ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws.		
	9.9.1 Second class teak wood		
	9.9.1.1 35 mm thick	sqm	3458.14
	9.9.1.2 30 mm thick	sqm	3166.38
	9.9.2 Kiln seasoned and chemically treated hollock wood		
	9.9.2.1 35 mm thick	sqm	2467.40
	9.9.2.2 30 mm thick	sqm	2313.64
	9.9.3 Kiln seasoned selected planks of sheesham wood		
	9.9.3.1 35 mm thick	sqm	3081.09
	9.9.3.2 30 mm thick	sqm	2841.34
9.10	Providing and fixing factory made laminated veneer lumber glazed shutter conforming to IS: 14616 and TADS 15:2001 (Part B), using 4 mm thick float glass panes for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, all as per directions of Engineer-in-charge (Note:- Butt hinges and necessary screws shall be paid separately)		
	9.10.1 30 mm thick shutters	sqm	2146.34
9.11	Extra for providing heavy sheet float glass panes instead of ordinary float glass in glazed doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured)		
	9.11.1 5.0 mm thick (weight not less than 12.50 kg per sqm) instead of 4 mm thick (weight not less than 10 kg per sqm).	sqm	207.13
9.12	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	123.48
9.13	Deduct for providing pin headed glass panes instead of ordinary float glass panes 4 mm thick (weight not less than 10 kg per sqm) in doors, windows and clerestory windows shutters (Area of opening for glass panes excluding portion inside rebate shall be measured).	sqm	51.77
9.14	Extra for providing ISI marked Stainless Steel butt hinges instead of M.S. pressed butt hinges bright finished of required size with necessary screws. (Shutter area to be measured).	sqm	135.49
9.15	Deduct for not providing hinges in doors, windows or clerestory window shutters with :		
	9.15.1 ISI marked Stainless steel butt hinges with stainless steel screws :		
	9.15.1.1 For 2nd class teak wood and other class of wood shutters	sqm	177.31

Code No	Description	Unit	Rate
	9.15.2 ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws.		
	9.15.2.1 For 2nd class teak wood and other class of wood shutters	sqm	41.86
9.16	Providing and fixing 25 mm thick shutters for cup board etc. :		
	9.16.1 Panelled or panelled & glazed shutters :		
	9.16.1.1 Second class teak wood including ISI marked anodised aluminium butt hinges with necessary screws	sqm	3082.00
	9.16.1.2 Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	sqm	3180.03
	9.16.2 Glazed shutters :		
	9.16.2.1 Second class teak wood including ISI marked anodized aluminium butt hinges with necessary screws	sqm	2935.28
	9.16.2.2 Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	sqm	2968.81
9.17	Providing and fixing flat pressed three layer particle or graded plain wood board medium density exterior grade (Grade I) FPT-I, conforming and marked to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately):		
	9.17.1 12 mm thick	sqm	562.07
	9.17.2 18 mm thick	sqm	714.67
9.18	Providing and fixing Pre-laminated flat pressed 3 layer (medium density) particle board or graded wood particle board IS : 3087 marked, with one side decorative and other side balancing lamination Grade I, Type II exterior grade IS : 12823 marked, in shelves with screws and fittings wherever required, edges to be painted with polyurethane primer (fittings to be paid separately).		
	9.18.1 18 mm thick	sqm	872.03
	9.18.2 25 mm thick	sqm	1200.64
9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.		
	9.20.1 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	2431.70
	9.20.2 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	2213.57
	9.20.3 25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary screws	sqm	1973.48
9.21	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:		

Code No	Description	Unit	Rate
9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	1674.86
9.21.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	1520.47
9.21.3	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	sqm	1465.59
9.22	Extra for Providing and fixing flush doors with decorative veneering instead of non decorative ISI marked flush door shutters conforming to IS: 2202 (Part I)		
9.22.1	On one side only	sqm	334.60
9.23	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	323.65
9.24	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):		
9.24.1	Rectangular or square	sqm	139.41
9.24.2	Circular	sqm	144.41
9.25	Extra if louvers (not exceeding 0.2 sqm) are provided in flush door shutters (overall area of door shutters to be measured).		
9.25.1	Decorative type door	sqm	283.82
9.26	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	sqm	74.69
9.27	Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws :		
9.27.1	35 mm thick shutters		
9.27.1.1	with ISI marked M.S. pressed butt hinges bright finished of required size		
9.27.1.1.1	Second class teak wood	sqm	3396.61
9.27.1.1.2	Kiln seasoned and chemically treated hollock wood	sqm	2519.44
9.27.1.1.3	Kiln seasoned selected class of sheesham wood	sqm	3062.50
9.27.1.2	With ISI marked stainless steel butt hinges of required size		
9.27.1.2.1	Second class teak wood	sqm	3532.10
9.27.1.2.2	Kiln seasoned and chemically treated hollock wood	sqm	2651.93
9.27.1.2.3	Kiln seasoned selected class of sheesham wood	sqm	3197.95
9.27.2	30 mm thick shutters		
9.27.2.1	with ISI marked M.S. pressed butt hinges bright finished of required size		
9.27.2.1.1	Second class teak wood	sqm	3028.76

Code No	Description	Unit	Rate
	9.27.2.1.2 Kiln seasoned and chemically treated hollock wood	sqm	2277.98
	9.27.2.1.3 Kiln seasoned selected class of sheesham wood	sqm	2742.71
	9.27.2.2 With ISI marked stainless steel butt hinges of required size		
	9.27.2.2.1 Second class teak wood	sqm	3164.21
	9.27.2.2.2 Kiln seasoned and chemically treated hollock wood	sqm	2413.46
	9.27.2.2.3 Kiln seasoned selected class of sheesham wood	sqm	2878.19
9.31	Providing and fixing wire gauge laminated veneer lumber shutters conforming to IS : 14616, and as per TADS 15 :2001 (Part B) using galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm as per IS :1568, for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, as per directions of Engineer-in-charge: (Note:- Butt hinges and necessary screws shall be paid separately)		
	9.31.1 35 mm thick shutters	sqm	2146.34
	9.31.2 30 mm thick shutters	sqm	1962.10
	MISCELLANEOUS-WOOD WORK		
9.40	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete :		
	9.40.1 2nd class teak wood		
	9.40.1.1 50x12 mm	metre	154.77
	9.40.1.2 50 x 20 mm	metre	190.23
	9.40.2 Kiln seasoned and chemically treated hollock wood		
	9.40.2.1 50x12 mm	metre	130.17
	9.40.2.2 50x20 mm	metre	149.24
9.41	Providing and fixing plain jaffri of 35x10 mm laths placed 35 mm apart (frames to be paid separately), including fixing 50x12 mm beading complete with :		
	9.41.1 Second class teak wood	sqm	2061.57
9.42	Providing and fixing 18 mm thick, 150 mm wide pelmet of flat pressed three layer or graded plain wood particle board medium density grade I, ISI marked and conforming to IS : 3087 marked, including top cover of 6 mm commercial ply wood conforming to IS: 303 BWR grade, nickel plated M.S. pipe 20 mm dia (heavy type) curtain rod with nickel plated brackets, including fixing with 25x3 mm M.S. flat 10 cm long fixed to pelmet with hollock wood cleats of size 100 mm x 40 mm x 40 mm on both inner side of pelmet and rawl plugs 75 mm long etc. all complete.	metre	420.39
9.43	Providing and fixing 18 mm thick, 150 mm wide pelmet of coir veneer board ISI marked IS : 14842, including top cover of 6 mm coir veneer board, nickle plated M.S. Pipe 20 mm dia. (heavy type) curtain rod with nickel plated brackets, including fixing with 25x3 mm M.S. Flat 10 cm long fixed to pelmet with hollock wood cleats of size 100 mm x 40 mm x 40 mm on both inner side of pelmet and rawl plugs 75 mm long etc. all complete.	metre	508.10

Code No	Description	Unit	Rate
9.44	Extra for using veneered particle board conforming to IS 3097 Grade I, in item of pelmet 18 mm thick 150 mm wide.		
	9.44.1 Non decorative veneer on both sides	metre	27.09
	9.44.2 Particle board with decorative veneering on both sides	metre	87.64
9.45	Providing and fixing teak wood lipping of size 25x3 mm in pelmet.	metre	51.59
9.46	Providing and fixing chromium plated brass curtain rod having wall thickness of 1.25 mm with two chromium plated brass brackets fixed with C.P. brass screws and PVC sleeves etc., wherever necessary complete :		
	9.46.1 12 mm dia	metre	199.57
	9.46.2 20 mm dia	metre	275.28
	9.46.3 25 mm dia	metre	367.89
9.47	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets :		
	9.47.1 20 mm dia (heavy type)	metre	122.50
	9.47.2 25 mm dia (heavy type)	metre	130.48
9.48	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.		
	9.48.1 Fixed to steel windows by welding	Kg	153.37
	9.48.2 Fixed to openings /wooden frames with rawl plugs screws etc.	kg	166.85
9.49	Providing and fixing expanded metal 20x60 mm strands 3.25 mm wide and 1.6 mm thick for windows etc. including 62 x19 mm beading of second class teak wood and priming coat with approved steel primer all complete.	sqm	995.37
9.50	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	1148.81
9.51	Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.		
	9.51.1 With second class teak wood beading 62X19 mm	sqm	915.87
	9.51.2 With 12 mm mild steel U beading	sqm	657.44
9.52	Deduct for fixing 75x25 mm hard drawn steel wire fabric of weight not less than 7.75 Kg per sqm in panelled and glazed door and window shutter instead of glass sheet 4 mm thick (weight not less than 10 kg per sqm)	sqm	108.57
9.53	Providing 40x5 mm flat iron hold fast 400 mm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 300x100x150 mm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	each	160.20
9.54	Providing beams including hoisting, fixing in position and applying wood preservative for the unexposed surfaces, etc. complete with :		
	9.54.1 Sal wood	cum	72198.07
	9.54.2 Hollock wood	cum	48424.64
	BRIGHT FINISHED M.S. FITTINGS		
9.55	Providing and fixing ISI marked IS:1341 M.S. pressed butt hinges bright finished with necessary screws etc. complete :		

Code No		Description	Unit	Rate
	9.55.1	125x65x2.12 mm	each	37.10
	9.55.2	100x58x1.90 mm	each	31.50
	9.55.3	75x47x1.70 mm	each	27.51
	9.55.4	50x37x1.50 mm	each	13.20
9.56		Providing and fixing ISI marked, IS : 1341, M.S. heavy weight bright finished butt hinges with necessary screws etc. complete :		
	9.56.1	125x90x4.00 mm	each	49.88
	9.56.2	100x75x3.50 mm	each	43.44
	9.56.3	75x60x3.10 mm	each	33.71
	9.56.4	50x40x2.50 mm	each	19.25
		Note: - In coastal areas, M.S. heavy weight butt hinges or stainless steel hinges shall be used.		
		COPER OXIDISED MILD STEEL FITTINGS (COPPER OXIDISED AS PER IS: 1378)		
9.57		Providing and fixing ISI marked IS:1341 oxidised M.S. pressed butt hinges with necessary screws etc. complete. (Copper oxidised as per IS 1378)		
	9.57.1	125x65x2.12 mm	each	39.03
	9.57.2	100x58x1.90 mm	each	33.74
	9.57.3	75x47x1.70 mm	each	28.35
	9.57.4	50x37x1.50 mm	each	14.00
9.58		Providing and fixing ISI marked IS: 1341 oxidised M.S. pressed Parliamentary hinges with necessary screws etc. complete (Copper oxidised as per IS 1378)		
	9.58.1	150x125x27x2.80 mm	each	64.19
	9.58.2	125x125x27x2.80 mm	each	60.20
	9.58.3	100x125x27x2.80 mm	each	52.75
	9.58.4	75x100x20x2.24 mm	each	46.66
9.59		Providing and fixing ISI marked oxidised M.S. single acting spring hinges with necessary screws etc. complete (Copper oxidised as per IS 1378)		
	9.59.1	150 mm	each	203.95
	9.59.2	125 mm	each	184.03
	9.59.3	100 mm	each	162.89
9.60		Providing and fixing ISI marked IS: 453 oxidised M.S. double acting spring hinges with necessary screws etc. complete (Copper oxidised as per IS 1378)		
	9.60.1	150 mm	each	228.83
	9.60.2	125 mm	each	203.95
	9.60.3	100 mm	each	182.81
9.61		Providing M.S. Piano hinges ISI marked IS : 3818 finished with nickel chromium plating grade 1 as per IS: 1068 and fixing with necessary screws etc., complete.		
	9.61.1	Overall width 35 mm	metre	235.52
	9.61.2	Overall width 50 mm	metre	236.53
	9.61.3	Overall width 65 mm	metre	250.46

Code No	Description	Unit	Rate
9.62	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete (Copper oxidised as per IS 1378)		
9.62.1	300x16 mm	each	151.59
9.62.2	250x16 mm	each	135.59
9.63	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete (Copper oxidised as per IS 1378)		
9.63.1	250x10 mm	each	58.73
9.63.2	200x10 mm	each	48.58
9.63.3	150x10 mm	each	41.62
9.63.4	100x10 mm	each	31.09
9.64	Providing and fixing ISI marked 85x42 mm oxidised M.S. pull bolt lock conforming to IS : 7534 with necessary screws bolts, nut and washers etc. complete (Copper oxidised as per IS 1378).	each	85.51
9.65	Providing and fixing ISI marked oxidised M.S. door latches conforming to IS:5930 with screws etc. complete (Copper oxidised as per IS 1378)		
9.65.1	300x20x6 mm	each	68.85
9.65.2	250x20x6 mm	each	55.90
9.66	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete (Copper oxidised as per IS 1378)		
9.66.1	125 mm	each	27.97
9.66.2	100 mm	each	22.79
9.66.3	75 mm	each	20.79
9.67	Providing and fixing oxidised M.S. hasp and staple (safety type) conforming to IS : 363 with necessary screws etc. complete (Copper oxidised as per IS 1378)		
9.67.1	150 mm	each	23.17
9.67.2	115 mm	each	20.79
9.67.3	90 mm	each	17.71
9.68	Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete (Copper oxidised as per IS 1378)		
9.68.1	300 mm weighing not less than 330 grams	each	47.18
9.68.2	250 mm weighing not less than 280 grams	each	42.74
9.68.3	200 mm weighing not less than 240 grams	each	37.77
9.69	Providing and fixing oxidised M.S. Safety chain with necessary fixtures for doors, (weighting not less than 450 gms) and Copper oxidised as per IS 1378	each	70.42
	STAINLESS STEEL FITTINGS		
9.70	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete :		
9.70.1	125x64x1.90 mm	each	82.74
9.70.2	100X58X1.90 mm	each	74.97
9.70.3	75x47x1.80 mm	each	56.04
9.70.4	50x37x1.50 mm	each	30.67
9.71	Providing and fixing IS : 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete :		

Code No	Description	Unit	Rate
	9.71.1 125x64x2.50 mm	each	90.90
	9.71.2 100x60x2.50 mm	each	74.45
	9.71.3 75x50x2.50 mm	each	62.51
	BRASS FITTINGS		
9.72	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete :		
	9.72.1 125x85x5.5 mm (heavy type)	each	188.06
	9.72.2 125x70x4 mm (ordinary type)	each	129.61
	9.72.3 100x85x5.5 mm (heavy type)	each	144.48
	9.72.4 100x70x4 mm (ordinary type)	each	103.78
	9.72.5 75x65x4 mm (heavy type)	each	121.38
	9.72.6 75x40x2.5 mm (ordinary type)	each	71.30
	9.72.7 50x40x2.5 mm (ordinary type)	each	28.63
9.73	Providing and fixing bright finished brass parliamentary hinges with necessary screws etc. complete :		
	9.73.1 150x125x27x5 mm	each	324.21
	9.73.2 125x125x27x5 mm	each	290.22
	9.73.3 100x125x27x5 mm	each	267.43
	9.73.4 75x100x20x3.2 mm	each	237.44
9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :		
	9.74.1 250x10 mm	each	309.12
	9.74.2 200x10 mm	each	250.88
	9.74.3 150x10 mm	each	201.08
	9.74.4 100x10 mm	each	138.25
9.75	Providing and fixing bright finished brass door latch with necessary screws etc. complete :		
	9.75.1 300x16x5 mm	each	225.54
	9.75.2 250x16x5 mm	each	215.60
9.76	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	each	548.26
9.77	Providing and fixing bright finished brass 100 mm mortice latch with one dead bolt and a pair of lever handles of approved quality with necessary screws etc. complete.	each	508.62
9.78	Providing and fixing bright finished brass night latch of approved quality including necessary screws etc. complete.	each	828.31
9.79	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.		
	9.79.1 40 mm	each	217.84
	9.79.2 50 mm	each	249.73
	9.79.3 65 mm	each	253.68
	9.79.4 75 mm	each	270.62
9.80	Providing and fixing 50 mm bright finished brass cup board or wardrobe knob of approved quality with necessary screws.	each	51.98

Code No	Description	Unit	Rate
9.81	Providing and fixing bright finished brass handles with screws etc. complete:		
	9.81.1 125 mm	each	179.66
	9.81.2 100 mm	each	164.29
	9.81.3 75 mm	each	129.47
9.82	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	each	85.16
9.83	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	each	787.40
9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISi, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	each	688.21
9.85	Providing and fixing bright finished brass casement window fastener with necessary screws etc. complete.	each	62.30
9.86	Providing and fixing bright finished brass casement stays (straight peg type) with necessary screws etc. complete :		
	9.86.1 300 mm weighing not less than 330 gms	each	152.71
	9.86.2 250 mm weighing not less than 280 gms	each	123.06
	9.86.3 200 mm weighing not less than 240 gms	each	117.08
9.87	Providing and fixing bright finished brass hasp and staple (safety type) with necessary screws etc. complete :		
	9.87.1 150 mm	each	97.37
	9.87.2 115 mm	each	88.20
	9.87.3 90 mm	each	77.74
	CHROMIUM PLATED BRASS FITTINGS		
9.88	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	each	698.85
9.89	Providing and fixing chromium plated brass night latch of approved quality including necessary screws etc. complete.	each	666.96
9.90	Providing and fixing special quality chromium plated brass cupboard locks with six levers of approved quality including necessary screws etc. complete.		
	9.90.1 Size 40 mm	each	223.83
	9.90.2 Size 50 mm	each	233.77
	9.90.3 Size 65 mm	each	260.68
	9.90.4 Size 75 mm	each	286.55
9.91	Providing and fixing chromium plated brass 50 mm cupboard or wardrobe knobs with nuts complete.	each	105.74
9.92	Providing and fixing chromium plated brass handles with necessary screws etc. complete:		
	9.92.1 125 mm	each	161.74
	9.92.2 100 mm	each	144.38
	9.92.3 75 mm	each	123.48

Code No	Description	Unit	Rate
9.93	Providing and fixing chromium plated brass casement window fastener with necessary screws etc. complete.	each	108.82
9.94	Providing and fixing chromium plated brass casement stays (straight peg type) with necessary screws etc. complete :		
9.94.1	300 mm weighing not less than 330 gms	each	150.64
9.94.2	250 mm weighing not less than 280 gms	each	133.70
9.94.3	200 mm weighing not less than 240 gms	each	116.76
	ANODISED ALUMINIUM FITTINGS (ALL FITTINGS SHALL BE ISI MARKED)		
9.95	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:		
9.95.1	125x75x4 mm	each	105.07
9.95.2	125x63x4 mm	each	88.66
9.95.3	100x75x4 mm	each	80.78
9.95.4	100x63x4 mm	each	73.33
9.95.5	100x63x3.2 mm	each	67.83
9.95.6	75x63x4 mm	each	61.53
9.95.7	75x63x3.2 mm	each	57.05
9.95.8	75x45x3.2 mm	each	53.55
	Note :- Aluminum hinges shall not be used in wooden shutters, stainless steel hinges shall be preferred.		
9.96	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 :		
9.96.1	300x16 mm	each	212.28
9.96.2	250x16 mm	each	182.42
9.97	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 :		
9.97.1	300x10 mm	each	91.07
9.97.2	250x10 mm	each	80.61
9.97.3	200x10 mm	each	69.79
9.97.4	150x10 mm	each	57.79
9.97.5	100x10 mm	each	45.29
9.98	Providing and fixing aluminium pull bolt lock, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws bolts, nut and washers etc. complete.	each	70.56
9.99	Providing and fixing 50 cm long aluminium kicking plate of size 100x3.15 mm, 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.	each	167.58
9.100	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 :		
9.100.1	125 mm	each	46.38
9.100.2	100 mm	each	47.69

Code No	Description	Unit	Rate
	9.100.3 75 mm	each	36.23
9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.		
	9.101.1 Single rubber stopper	each	27.72
	9.101.2 Twin rubber stopper	each	50.65
9.102	Providing and fixing aluminium casement stays, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.	each	50.05
9.103	Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete.	each	608.27
9.104	Providing and fixing aluminium tee channels (heavy duty) with rollers & stop end in pelmets as curtain rod.	metre	112.25
	GYPSUM BOARD PARTITIONS		
9.105	Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/sqm(both side inclusive), consisting of floor and ceiling channel 50 mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete.		
	9.105.1 75 mm overall thickness partition with 12.5 mm thick double skin fire rated Glass Reinforced Gypsum (GRG) plaster board conforming to IS: 2095: part 3 (Board with BIS certification marks)	sqm	1491.77
	9.105.2 75 mm overall thickness partition with 12.5 mm thick double skin tapered edged plain Gypsum plaster board conforming to IS: 2095: (part I): 2011 (Board with BIS certification marks)	sqm	1272.71
	9.105.3 66 mm overall thickness Partition with 8 mm thick double skin Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process with Compressive Strength 225 kg/sq.cm, Bending Strength 100 kg./ sq.cm	sqm	1557.50

Code No		Description	Unit	Rate
	9.105.4	66 mm overall thickness partition using 8 mm thick, double skin multipurpose cement board Type-B, Category-III as per IS: 14862 : 2000 reinforced with cellulose fibre manufactured through autoclaving process (High pressure steam cured) with suitable fibre cement screws	sqm	1444.00
	9.105.5	66 mm overall thickness partition using 8 mm thick double skin multipurpose cement bonded wood particle board manufactured as per IS: 14276 with suitable cement bonded board screws	sqm	1424.08
9.106		Providing and fixing PTMT handles with necessary screws etc. complete.		
	9.106.1	125x34x24 mm weighing not less than 23 gms	each	30.07
	9.106.2	150x34x24 mm weighing not less than 26 gms	each	29.09
9.107		Providing and fixing PTMT Butt hinges with necessary screws etc. complete.		
	9.107.1	75x60x10 mm fitted with 5.5 mm dia M.S. Bright Bar Rod weighing not less than 34 gms	each	53.13
	9.107.2	100x75x10 mm fitted with 5.5 mm dia MS Bright Bar Rod weighing not less than 53 gms	each	62.37
9.108		Providing and fixing PTMT Tower Bolts with 12 mm one piece rod inside and necessary screws etc., complete.		
	9.108.1	152x42x18 mm weighing not less than 60 gms	each	48.83
	9.108.2	202x42x18 mm weighing not less than 78 gms	each	74.31
9.109		Providing and fixing PTMT door catcher of length 72 mm and dia. of 42 mm with suitable washers weighing not less than 33 gms	each	28.04
9.110		Providing and fixing Bamboo jaffery/ fencing consisting of superior quality 25 mm dia (Average) half cut bamboo placed vertically and fixed together with three numbers horizontal running members of hollock wood in scantling of section 50X25 mm, fixed with nails and G.I wire on existing support complete as per direction of Engineer-in-charge.	sqm	482.58
9.111		Providing and fixing wooden moulded corner beading of triangular shape to the junction of panelling etc. with iron screws, plugs and priming coat on unexposed surface etc. complete 2nd class teak wood.		
	9.111.1	50x50 mm (base and height)	metre	248.05
9.112		Providing and fixing 2nd class teak wood lipping/ moulded beading or taj beading of size 18X5 mm fixed with wooden adhesive of approved quality and screws/nails on the edges of the Pre-laminated particle board as per direction of Engineer-in-charge.	metre	71.51
9.113		Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineer- in-charge.	each	595.04
9.114		Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. complete.		
	9.114.1	Triple strip vertical type	each	36.05
	9.114.2	Double strip (horizontal type)	each	27.79
9.115		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	289.94
9.116		Providing and fixing sliding arrangement in racks/ cupboards/cabinets shutter with stainless steel rollers to run inside C or E aluminium channel section (The payment of C or E channel shall be made separately)	each	14.28

Code No	Description	Unit	Rate
9.117	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ±1mm), with wall thickness 2.0 mm (± 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 1 mm (± 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		
9.117.1	Extruded section profile size 48x40 mm	metre	189.14
9.117.2	Extruded section profile size 42x50 mm	metre	231.95
9.118	Providing and fixing to existing door frames.		
9.118.1	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).	sqm	2078.48
9.118.2	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 (± 0.2 mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (± 0.2 mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.	sqm	2277.66

Code No		Description	Unit	Rate
	9.118.3	25 mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762 mm X 25 mm or less as per requirement with an average wall thickness of 1 mm (± 0.3 mm). PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm (± 0.1 mm) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25 mm X 11 mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufacturer's specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places	sqm	2148.20
9.119		Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer-in-Charge.	metre	344.89
9.120		Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.		
	9.120.1	30 mm thick plain PVC door shutters	sqm	2228.07
	9.120.2	30 mm thick pre laminated PVC door shutters	sqm	2564.66
9.121		Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	metre	399.67
9.122		Providing and fixing to existing door frames.		

Code No		Description	Unit	Rate
	9.122.1	30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.	sqm	2604.53
	9.122.2	30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856, complete as per direction of Engineer-in-charge.	sqm	3142.27
9.123		Providing and fixing factory made door frame (single rebate) made out of solid foam PVC extruded profile of minimum 60 mm width and minimum 30 mm thickness, having homogenous fine cellular structure and integral smooth outer skin. The frame's vertical and horizontal members to be mitered cut and joined together with PVC solvent adhesive / cement and both corners strengthened with fully threaded steel screws (of required size) fixed diagonally. The door frame is to be fixed to door jambs using 6 Nos. SS 304 grade minimum 8 mm dia CSK Phillips stainless steel self tapping screws/fasteners with PA6 grade polyamide sleeves both of required size, and gap if any between the door frame and the jamb must be filled with clear silicon, complete as per direction of the Engineer-in-Charge.	metre	487.20
9.123A		Providing PVC moulding / architrave for door frame made up of extruded solid foam PVC profile having homogenous fine cellular structure with smooth outer integral skin, minimum 30 mm width and minimum 12 mm thick suitable for fixing to frame. The molding shall be snap fitted in the groove provided in the frame & fixed with PVC solvent adhesive / cement and self tapping screws (of required size) complete as per direction of Engineer-in-Charge.	metre	95.06
9.124		Providing and fixing factory made PVC door shutter made of solid foam PVC profiles of thikness 5 mm and 15 mm at edges integrally extruded for vertical style and horizontal (top/ bottom/ lock) rails of minimum cross section of 70mmx 28mm, of shape and design as per manufacturer's specifications having homogenous fine cellular structure and smooth integral outer skin, inserted with G.I. 'C' section/ rectangular tube profile of minimum 0.30 mm thickness with 120 gsm coating as stiffeners as per manufacturer's specifications Mitred cut joints for styles and rails provided with telescopic polymeric 'L' corners are jointed together using solvent adhesive and strenghtened with fully threaded stainless steel screws (of required size) through reinforced stiffener with paneling of specified solid foam PVC board/ high pressure laminate of required thickness and of approved design and shade (matching the styles and rails), secured within styles and rails with specially designed solid foam PVC moulded beadings of required size using PVC solvent adhesive/ cement. The finished door shutter including SS hardware, 1 no. ss sliding bolt 200 x 10mm, 1 no. SS tower bolt 200 x 10 mm and 2 nos. SS handles 125mm, shall be fixed to frame with 3 nos. stainless steel hinges of minimum size 100x58x1.9 mm and stainless steel screws of required size complete as per direction of the Engineer-in-Charge. (Cost of above hardware is inclusive in rates)		

Code No	Description	Unit	Rate
9.124.1	5 mm thick solid foam PVC panel of required size with moulded/ extruded beading of appropriate design shape and size as per manufacturer's specifications (to secure the panel insert tight in place within the style and rails of shutter) matching the colour and shade of shutter frame. Non decorative type.	sqm	2627.94
9.124.2	5 mm thick solid foam PVC panel of required size with moulded/ extruded beading of appropriate design shape and size as per manufacturer's specifications (to secure the panel insert tight in place within the style and rails of shutter) matching the colour and shade of shutter frame. Decorative type.	sqm	2896.85
9.124.3	3 mm thick high pressure laminate (decorative type) with moulded/ extruded beading of appropriate design shape and size as per manufacturer's specifications (to secure the panel insert tight in place within the style and rails of shutter) matching the colour and shade of shutter frame. Non decorative type.	sqm	3275.27
9.126	Providing and fixing 12 mm thick 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.		
	9.126.1 Marine plywood conforming to IS: 710	sqm	1740.38
	9.126.2 Fire retardant plywood conforming to IS: 5509	sqm	1944.39
9.127	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.		
	9.127.1 1.5 mm thick	sqm	732.17
	9.127.2 1.0 mm thick	sqm	628.11
9.128	Providing and fixing factory made Fiberglass Reinforced plastics (F.R.P.) chajja 4 mm thick of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradual slope curvature for easy drainage of water and duly reinforced by 2 nos vertically and 1 nos horizontally 50x2 mm thick M.S. flat with 12 mm in built hole for grouting on the existing wall along with the 50 mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically, including all necessary fittings . The FRP Chajja should be manufactured using unsaturated Polyester resin as per IS: 6746, duly reinforced with fibre glass chopped strand mat (CSM) as per IS: 11551 complete with protective Gel coat U/V coating on Top for complete resistance from the extreme of temperature, weather & sunlight (Only plan area of chajjas shall be measured for making payment).	sqm	3645.22
9.129	Providing and fixing cup board shutters 25 mm thick, with Pre-laminated flat pressed three layer particle board or graded wood particle board IS: 12823 marked, exterior grade (Grade I Type II), having one side decorative lamination and other side balancing lamination, including IInd class teak wood lipping of 25 mm wide x12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of the Engineer-in-Charge	sqm	1615.15

Code No	Description	Unit	Rate
9.130	Providing and fixing cup board shutters with 25 mm thick veneered particle board IS : 3097 marked, exterior grade (Grade I), of approved make, including IInd class teak wood lipping of 25 mm wide x 12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of Engineer-in-Charge.		
9.130.1	With decorative veneering on one side and commercial veneering on other side	sqm	1349.25
9.130.2	With non decorative veneering on both sides	sqm	1266.58
9.131	Providing and fixing factory made shutters of Pre-laminated particle board flat pressed three layer or graded wood particle board with one side decorative finish and other side balancing lamination conforming to IS: 12823 Grade I Type II, of approved design, and edges sealed with water resistant paint and lipped with aluminium 'U' type edge beading all- round the shutter, including fixing with angle cleat, grip strip, cadmium plated steel screws, including fixing of aluminium hinges 100x63x4 mm etc. complete as per architectural drawing and direction of Engineer-in-Charge (Cost of 'U' beading and hinges will be paid for separately).		
9.131.1	25 mm thick	sqm	1261.12
9.132	Providing and fixing aluminum U beading of required size to Pre-laminated/flush door shutter, including fixing etc. complete as per direction of Engineer-in-charge.	kg	417.31
9.133	Providing and fixing, in position concealed G.I. section for wall paneling using board of required thickness fixed on the 'W' profile (0.55 mm thick) having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm, placed @ 610 mm C/C in perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm. Perimeter channel is fixed on the floor and the ceiling with the nylon sleeves @ 610 mm C/C with fully threaded self-tapping dry wall screws. Board is fixed to the 'W' profile with 25 mm countersunk ribbed head screws @ 200 mm C/C., all complete as per the drawing & directions of engineer-in-charge, the joints of the boards are finished with specially formulated jointing compound and 48 mm wide jointing tape to provide seamless finish.		
9.133.1	Tapered edge calcium silicate board made with calcareous & siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with compressive strength 225 kg/ sq.cm, Bending strength 100 kg/sq.cm.		
9.133.1.1	10 mm thick	sqm	1253.67
9.133.2	Multipurpose cement board reinforced with suitable fibre cement screw.		
9.133.2.1	8 mm thick cement fibre board, Type- B, Category- III as per IS: 14862 : 2000	sqm	1010.42
9.133.2.2	8 mm thick Cement bonded wood particle board as per IS:14276	sqm	999.46
9.133.3	Plain Gypsum plaster board conforming to IS: 2095 Part -1:2011 (Board with BIS certification marks)		
9.133.3.1	12.5 mm thick	sqm	916.20
9.134	Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws :		

Code No	Description	Unit	Rate
9.134.1	35 mm thick shutters		
9.134.1.1	with ISI marked M.S. pressed butt hinges bright finished of required size		
9.134.1.1.1	Second class teak wood	sqm	3516.91
9.134.1.1.2	Kiln seasoned and chemically treated hollock wood	sqm	2639.70
9.134.1.1.3	Kiln seasoned selected class of sheesham wood	sqm	3182.76
9.134.1.2	With ISI marked stainless steel butt hinges of required size		
9.134.1.2.1	Second class teak wood	sqm	3652.36
9.134.1.2.2	Kiln seasoned and chemically treated hollock wood	sqm	2775.19
9.134.1.2.3	Kiln seasoned selected class of sheesham wood	sqm	3318.21
9.134.2	30 mm thick shutters		
9.134.2.1	with ISI marked M.S. pressed butt hinges bright finished of required size		
9.134.2.1.1	Second class teak wood	sqm	3149.02
9.134.2.1.2	Kiln seasoned and chemically treated hollock wood	sqm	2398.24
9.134.2.1.3	Kiln seasoned selected class of sheesham wood	sqm	2863.00
9.134.2.2	With ISI marked stainless steel butt hinges of required size		
9.134.2.2.1	Second class teak wood	sqm	3284.47
9.134.2.2.2	Kiln seasoned and chemically treated hollock wood	sqm	2533.72
9.134.2.2.3	Kiln seasoned selected class of sheesham wood	sqm	2998.45
9.135	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete.		
9.135.1	With 2nd class teak wood beading 62X19 mm	sqm	1118.01
9.135.2	With 12 mm mild steel U beading	sqm	859.60
9.136	Providing and fixing fire resistant door frame of section 143 x 57 mm having built in rebate made out of 16 SWG G.I. sheet (zinc coating not less than 120 gm/sqm) duly filled with vermuculite based concrete mix, suitable for mounting 60 minutes fire rated door shutters. The frame is fitted with intumuscent fire seal strip of size 10x4 mm (minimum) alround the frame and fixing with dash fastener of approved size and make, including applying a coat of approved brand fire resistant primer etc. complete as per direction of Engineer-in-charge (Dash fastener to be paid for separately).	metre	1196.48

Code No	Description	Unit	Rate
9.137	Providing and fixing 50 mm thick glazed fire resistant door shutters of 60 minutes fire rating conforming to IS:3614 (Part-II), tested and certified as per laboratory approved by Engineer-in-charge, with suitable mounting on door frame, consisting of vertical styles, lock rail, top rail 100 mm wide, bottom rail 200 mm wide, made out of 16 SWG G.I.sheet (zinc coating not less than 120 gm/sqm) duly filled FR insulation material and fixing with necessary stainless steel ball bearing hinges of approved make, including applying a coat of approved fire resistant primer etc. all complete as per direction of Engineer-in-charge (panneling to be paid for separately).	sqm	5273.24
9.138	Providing and fixing glazing in fire resistant door shutters, fixed panels & partitions etc., with G.I. beading made out of 1.6 mm thick G.I. sheet (zinc coating not less than 120 gm/sqm) of size 20 x 33 mm screwed with M4 x 38 mm SS screws at distance 75 mm from the edges and 150 mm c/c , including applying a coat of approved fire resistant primer/ powder coating of not less than 30 micron on G.I. beading, & special ceramic tape of 5 x 20 mm size etc complete in all respect as per NBC 2016, IS 16231 (Part 3):2016 and as per direction of Engineer-in-charge with glass of required thickness having 60 minutes of fire resistance both integrity & radiation control (EW60) and minimum 20 minutes of insulation (EI20). The manufacturer have to give test report/certification of fire glass and the glass should have the stamp showing the value of E, EW & EI. The glass shall be tested in approved NABL accredited lab or by any other accreditation body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IEC 17025 for testing and calibration scopes shall be eligible. The maximum glazing size shall not be more than 1100x2200 mm (w x h) or 2.42 sqm.	sqm	28283.89
9.139	Providing and fixing panic bar / latch (Double point) fitted with a single body, Trim Latch & Lock on back side of the Panic Latch of reputed brand and manufacture to be approved by the Engineer- in- charge, all complete.	each	5856.31
9.140	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).		
	9.140.1 12 mm thick commercial ply conforming to IS : 1328 BWR type	sqm	857.26
9.141	Providing and fixing PVC Door Frame of size 50x47 mm with a wall thickness of 5 mm (± 0.2 mm), made out of single piece extruded PVC profile, with mitred cut joints and joint with 2 nos of PVC bracket of size 190 mm x 100 mm long arms of cross section size 35 x 15 mm & self driven self taping screws, the vertical door profiles to be reinforced with 40x20 mm M.S. rectangular tube of 0.8 mm , including providing EPDM rubber gasket weather seal throughout the frame, including jointing 5 mm PVC frame strip with PVC solvent cement on the back of the profile. The door frame to be fixed to the wall using 8 x100 mm long anchor fasteners complete, all as per manufacturer's specification and direction of Engineer -in- charge.	metre	401.42

Code No	Description	Unit	Rate
9.142	35 mm thick factory made Solid panel PVC Door shutter, made out of single piece extruded soild PVC profiles, 5 mm (± 0.2 mm) thick, having styles & rails (except lock rail) of size 95 mmx 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm X 20 mm x 1 mm, joints of styles & rails to be mitered cut & joint with the help of PVC solvent cement, self driven self tapping screws & M.S. rectangular pipes bracket of size 190 mm X 100 mm of cross section size 35 mm x 17 mm x 1 mm at each corner. Single piece extruded 5 mm thick solid PVC Lock rail of size 115 mm x 35 mm, out of which 75 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles & rails with the help of solvent and self driven self tapping screws of 125 mm x 11 mm, including providing 5 mm Single piece solid PVC extruded sheet inserted in the door as panel, all complete as per manufacturer's specification and direction of Engineer-in-charge.		
	9.142.1 Non decorative finish (matt finish)	sqm	2798.22
	9.142.2 Decorative finish (wood grained finish)	sqm	3299.14
9.143	Providing and Fixing factory made uPVC door frame, made of uPVC exturded sections, of size 65 mm x 55 mm with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be mitred cut and jointed with plastic brackets and stainless steel screws, reinforcing hinge side vertical of the frames with PVC profile of Size 28 mm x 30 mm having wall thickness 2 mm (±0.2 mm), including providing & fixing 3 nos of 125 mm long stainless steel hinges to the frame, fixing the frame with jamb with required number & size of anchor dash fastners, all complete as per manufacturer's specification and direction of Engineer-in-charge.	metre	436.10
9.144	Providing and fixing 37 mm thick factory made PVC door shutter, styles and rails made of PVC hollow section of size 100 mm x 37 mm with wall thickness 2 mm (± 0.2 mm), with inbuilt bead on one side, styles and rails mitered cut and joint at the corners by means of 2 nos of plastic brackets of size 75 mm x 220 mm at each corner and stainless steel screws, reinforcing the hinge side of style by inserting PVC profile of size 28 mm x 30 mm, with wall thickness 2 mm (± 0.2 mm). Lockrail of size 100 mm x 37 mm, wall thickness 2 mm (+ 0.2 mm) will be fixed to the vertical styles. Providing with PVC snapfit beads and panel of size 100 mm x 20 mm, and inserting 2 nos tie bar of 6 mm dia and fastening with nuts and washers complete, all as per manufacturer's specification and direction of Engineer-in-charge.	sqm	2853.24
9.145	Providing and Fixing factory made PVC door frame made of PVC extruded sections of size 75 mm x 53 mm, having wall thickness 2.0 mm (± 0.2 mm). Both vertical sides of the frame reinforced with PVC profile of cross section size 28 mm x 30 mm x 2 mm thickness (± 0.2 mm) and 75 mm x 200 mm long, including reinforcing both ends of the top frame with PVC profile. PVC Door Frame and PVC reinforcement profile to be mitred cut, jointed and fusion welded together, including providing and fixing 3 nos of 125 mm long stainless steel hinges to frame, fixing the frame with jamb with required nos & sizes of anchor dash fastener, all complete as per manufacturer's specification and direction of engineer- in-charge.	metre	534.70

Code No	Description	Unit	Rate
9.146	Providing and fixing 37 mm thick factory made PVC Door shutter, styles and rails made of PVC hollow extruded printed and laminated section having overall dimension 115 mm x 37 mm with wall thickness 2 mm (± 0.2 mm) with inbuilt beading on one side, the styles and rails mitred cut and joint at corners by inserting 2 nos PVC profile reinforcement of size 75 mm x 200 mm long with cross section size of 28 mm x 30 mm having wall thickness 2 mm (± 0.2 mm). Styles, rails and reinforcements to be fusion welded together. Only hinge side vertical style to be reinforced with PVC profile reinforcement in full length. Printed and laminated PVC lock rail of size 110 mm x 37 mm having wall thickness 2 mm (± 0.2 mm) to be welded horizontally with the vertical styles after inserting PVC profile reinforcement as in styles and rails, providing with PVC snap fit beading, panels of 100 x 20 mm printed & laminated and inserting 2 nos 6 mm dia bright steel rod horizontally with both side threaded and tightened with check nuts and washers complete, all as per manufacturer's specification and direction of engineer-in-charge.	sqm	3053.40
9.147A	Providing and fixing factory made uPVC glazed/wire mesh windows/ doors comprising of lead free uPVC multi-chambered frame, sash and mullion/coupler (where ever required) extruded profiles having minimum wall thickness of 1.70 mm for Series R1 and R2 profiles and 2.10 mm for Series R3 and R4 profiles conforming to EN: 12608 in any shape, colour and design duly reinforced with galvanized mild steel section made of required shape & size as per CPWD Specification, uPVC extruded glazing beads, interlocks and Inline sash adaptor (where ever required) of appropriate dimension, EPDM gasket, hardware, SS 304 grade fasteners of minimum 8 mm dia with countersunk head, comprising of matching polyamide PA6 grade sleeve for fixing frame to finished wall as per IS 1367 : Part 1 to 14, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame, sash & mullion (if required) shall be mitred cut and fusion welded/mechanically jointed duly sealed at all corners, including drilling of holes for fixing hardware and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of approved size and quality, all complete as per approved drawing conforming to CPWD specification & direction of Engineer-in-Charge. Section of steel reinforcement and cross sections of uPVC profiles to be as per design approved by Engineer-in-Charge. Wire mesh / Glazing of plain/ toughened/ laminated/ double glass unit with / without high performance coatings as per design requirements and conforming to IS: 3548 & IS: 16231 shall be paid separately. Note:- Structural design proof checked from a Government Engineering Institute, to be provided by the manufacturer for : (i) Sites with basic wind speed > 45 m/sec as per IS 875 – Part 3 (ii) Sites with structure height more than 20m for all wind speeds		
9.147.A1	Two track two panels sliding window with Aluminium channel for roller track, wool pile, nylon rollers with SS 304 body.		
9.147.A1.1	Using R2 series with frame (40 mm & above) x (40 mm & above) & sash (25 mm & above) x (50 mm & above) with zinc alloy (zamak) powder coated touch locks with hook (Height upto 1.2 metre).	sqm	5809.20

Code No	Description	Unit	Rate
9.147.A1.2	Using R3 series with frame (55 mm & above) x (40 mm & above) & sash (30 mm & above) x (55 mm & above) with zinc alloy (zamak) powder coated handle on every panel along with multi-point locking system (Height upto 1.8m).	sqm	6159.48
9.147.A1.3	Using R4 series with frame (64 mm & above) x (45 mm & above) & sash (44 mm & above) x (55 mm & above) with zinc alloy (zamak) powder coated handle on every panel along with multi-point locking system (Height above 1.8m).	sqm	6740.02
9.147.A2	Two track four panels sliding windows with Aluminium channel for roller track, wool pile, zinc alloy (zamak) powder coated handle on three panels along with multi-point locking system, nylon rollers with SS 304 body.		
9.147.A2.1	Using R3 series with frame (55 mm & above) x (40 mm & above) & sash (30 mm & above) x (55 mm & above) (Height upto 1.8m).	sqm	5502.25
9.147.A2.2	Using R4 series with frame (64 mm & above) x (45 mm & above) & sash (44 mm & above) x (55 mm & above) (Height above 1.8m).	sqm	6005.69
9.147.A3	Two and half track three panels sliding window with two glazed & one wire mesh panels with Aluminium channel for roller track, wool pile, nylon rollers with SS 304 body.		
9.147.A3.1	Using R2 series with frame (65 mm & above) x (40 mm & above) & glazed sash (25 mm & above) x (50 mm & above) & fly screen sash (18 mm & above) x (40 mm & above) with zinc alloy (zamak) powder coated touch locks with hook (Height upto 1.2 metre).	sqm	6911.14
9.147.A3.2	Using R3 series with frame (85 mm & above) x (40 mm & above) & glazed sash (30 mm & above) x (55 mm & above) & fly screen sash (20 mm & above) x (50 mm & above) with zinc alloy (zamak) powder coated handle on every glazed panel along with multi-point locking system. (Height upto 1.8 metre).	sqm	6978.09
9.147.A4	Three track three panels sliding window with two glazed & one wire mesh panels with Aluminium channel for roller track, wool pile, nylon rollers with SS 304 body.		
9.147.A4.1	Using R2 series with frame (70 mm & above) x (40 mm & above) & both glazed and fly screen sash (25 mm & above) x (50 mm & above) with zinc alloy (zamak) powder coated touch locks with hook. (Height upto 1.2 metre).	sqm	7695.49
9.147.A4.2	Using R3 series with frame (98 mm & above) x (40 mm & above) & both glazed and fly screen sash (30 mm & above) x (55 mm & above) with zinc alloy (zamak) powder coated handle on every glazed panel along with multi-point locking system. (Height upto 1.8m).	sqm	7611.94

Code No	Description	Unit	Rate
9.147.A4.3	Using R4 series with frame (115 mm & above) x (45 mm & above) & both glazed and fly screen sash (44 mm & above) x (55 mm & above) with zinc alloy (zamak) powder coated handle on every glazed panel along with multi-point locking system. (Height above 1.8m)	sqm	8660.58
9.147.A5	Three track three panels sliding window with Aluminium channel for roller track, wool pile, nylon rollers with SS 304 body.		
9.147.A5.1	Using R2 series with frame (70 mm & above) x (40 mm & above) & sash (25 mm & above) x (50 mm & above) with zinc alloy (zamak) powder coated touch locks with hook. (Height upto 1.2 metre).	sqm	6123.85
9.147.A5.2	Using R3 series with frame (98 mm & above) x (40 mm & above) & sash (30 mm & above) x (55 mm & above) with zinc alloy (zamak) powder coated handle on two end panels along with multi-point locking system (Height upto 1.8 metre).	sqm	5980.52
9.147.A5.3	Using R4 series with frame (115 mm & above) x (45 mm & above) & sash (44 mm & above) x (55 mm & above) with zinc alloy (zamak) powder coated handle on two end panels along with multi-point locking system. (Height above 1.8 metre).	sqm	6921.85
9.147.B1	Two track two panels sliding door with Aluminium channel for roller track, wool pile, zinc alloy (zamak) powder coated handle on every panel along with multi-point locking system, adjustable nylon rollers with SS 304 body.		
9.147.B1.1	Using R3 series with frame (55 mm & above) x (40 mm & above) & sash (30 mm & above) x (74 mm & above). (Height upto 2.5 metre).	sqm	5674.41
9.147.B1.2	Using R4 series with frame (64 mm & above) x (45 mm & above) & sash (44 mm & above) x (85 mm & above). (Height above 2.5 metre).	sqm	5418.00
9.147.B2	Two track four panels sliding door with Aluminium channel for roller track, wool pile, zinc alloy (zamak) powder coated handle on three panels along with multi-point locking system, adjustable nylon rollers with SS 304 body.		
9.147.B2.1	Using R3 series with frame (55 mm & above) x (40 mm & above) & sash (30 mm & above) x (74 mm & above). (Height upto 2.5 metre).	sqm	5141.75
9.147.B2.2	Using R4 series with frame (64 mm & above) x (45 mm & above) & sash (44 mm & above) x (85 mm & above). (Height above 2.5 metre).	sqm	5037.69
9.147.B3	Three track three panels sliding door with two glazed & one wire mesh panels with Aluminium channel for roller track, wool pile, zinc alloy (zamak) powder coated handle on two panels along with multi-point locking system, adjustable nylon rollers with SS 304 body.		

Code No		Description	Unit	Rate
	9.147.B3.1	Using R3 series with frame (98 mm & above) x (40 mm & above) & both glazed and fly screen sash (30 mm & above) x (74 mm & above). (Height upto 2.5 metre).	sqm	7055.27
	9.147.B3.2	Using R4 series with frame (115 mm & above) x (45 mm & above) & both glazed and fly screen sash (44 mm & above) x (85 mm & above). (Height above 2.5 metre).	sqm	6926.36
9.147.B4		Three track three panels sliding door with Aluminium channel for roller track, wool pile, zinc alloy (zamak) powder coated handle on two panels along with multi-point locking system, adjustable nylon rollers with SS 304 body.		
	9.147.B4.1	Using R3 series with frame (98 mm & above) x (40 mm & above) & sash (30 mm & above) x (74 mm & above). (Height upto 2.5 metre).	sqm	5800.94
	9.147.B4.2	Using R4 series with frame (115 mm & above) x (45 mm & above) & sash (44 mm & above) x (85 mm & above). (Height above 2.5 metre).	sqm	5560.77
9.147.C1		Fixed window / ventilator without mullion / transom.		
	9.147.C1.1	Using R1 series with frame (33 mm & above) x (35 mm & above). (Height upto 0.90 metre)	sqm	5773.08
	9.147.C1.2	Using R2 series with frame (39 mm & above) x (39 mm & above). (Height upto 1.2 metre)	sqm	5638.33
	9.147.C1.3	Using R3 series with frame (55 mm & above) x (45 mm & above). (Height upto 2.5 metre)	sqm	4956.04
	9.147.C1.4	Using R4 series with frame (64 mm & above) x (50 mm & above). (Height above 2.5 metre)	sqm	4223.00
9.147.C2		Fixed window / ventilator with mullion / transom.		
	9.147.C2.1	Using R1 series with frame (33 mm & above) x (35 mm & above) & mullion (33 mm & above) x (50 mm & above). (Height upto 0.90 metre)	sqm	6408.64
	9.147.C2.2	Using R2 series with frame (39 mm & above) x (39 mm & above) & mullion (39 mm & above) x (60 mm & above). (Height upto 1.2 metre)	sqm	6135.78
	9.147.C2.3	Using R3 series with frame (55 mm & above) x (45 mm & above) & mullion (55 mm & above) x (65 mm & above). (Height upto 2.5 metre)	sqm	5479.43
	9.147.C2.4	Using R4 series with frame (64 mm & above) x (50 mm & above) & mullion (64 mm & above) x (70 mm & above). (Height above 2.5 metre)	sqm	4570.16
9.147.D1		Ventilator Casement window single panel with or without fixed panel with S.S. 304 friction hinges as per size and weight of sash, single point locking zinc alloy (zamak) powder coated handles.		
	9.147.D1.1	Using R1 series with frame (33 mm & above) x (35 mm & above) & sash /mullion (33 mm & above) x (50 mm & above). (Height upto 0.90 metre).	sqm	9240.84

Code No		Description	Unit	Rate
	9.147.D1.2	Using R2 series with frame (39 mm & above) x (39 mm & above) & sash /mullion (39 mm & above) x (60 mm & above). (Height upto 1.2 metre)	sqm	8578.43
	9.147.D1.3	Using R3 series with frame (55 mm & above) x (45 mm & above) & sash /mullion (55 mm & above) x (65 mm & above). (Height above 1.2 metre)	sqm	8343.90
9.147.E1		Casement window single panel with S.S. 304 friction hinges as per size and weight of sash, multi-point locking system, zinc alloy (zamak) powder coated handles.		
	9.147.E1.1	Using R2 series with frame (39 mm & above) x (39 mm & above) & sash (39 mm & above) x (60 mm & above). (Height upto 1.2 metre)	sqm	10114.48
	9.147.E1.2	Using R3 series with frame (55 mm & above) x (45 mm & above) & sash (55 mm & above) x (65 mm & above). (Height upto 1.8 metre)	sqm	9371.01
	9.147.E1.3	Using R4 series with frame (64 mm & above) x (50 mm & above) & sash (64 mm & above) x (70 mm & above). (Height above 1.8 metre)	sqm	10210.94
9.147.E2		Casement window double panels with fixed mullion with S.S. 304 friction hinges as per size and weight of sash, multi-point locking system, zinc alloy (zamak) powder coated handles.		
	9.147.E2.1	Using R2 series with frame (39 mm & above) x (39 mm & above) & sash (39 mm & above) x (60 mm & above) & mullion (39 mm & above) x (60 mm & above). (Height upto 1.2 metre).	sqm	9155.09
	9.147.E2.2	Using R3 series with frame (55 mm & above) x (45 mm & above) & sash (55 mm & above) x (65 mm & above) & mullion (55 mm & above) x (65 mm & above). (Height upto 1.8 metre).	sqm	8731.07
	9.147.E2.3	Using R4 series with frame (64 mm & above) x (50 mm & above) & sash (64 mm & above) x (70 mm & above) & mullion (64 mm & above) x (70 mm & above). (Height above 1.8 metre).	sqm	9433.97
9.147.E3		Casement window double panels with French (False) Mullion with S.S. 304 friction hinges as per size and weight of sash, multi-point locking system, zinc alloy (zamak) powder coated handles.		
	9.147.E3.1	Using R2 series with frame (39 mm & above) x (39 mm & above) & sash (39 mm & above) x (60 mm & above) & French (False) mullion (39 mm & above) x (60 mm & above). (Height upto 1.2 metre).	sqm	8201.17
	9.147.E3.2	Using R3 series with frame (55 mm & above) x (45 mm & above) & sash (55 mm & above) x (65 mm & above) & French (False) mullion (55 mm & above) x (60 mm & above). (Height upto 1.8 metre).	sqm	8026.76

Code No		Description	Unit	Rate
	9.147.E3.3	Using R4 series with frame (64 mm & above) x (50 mm & above) & sash (64 mm & above) x (70 mm & above) & French (False) mullion (64 mm & above) x (60 mm & above) . (Height above 1.8 metre).	sqm	8747.41
9.147.E4		Casement cum fixed panel window having one single casement panel & one fixed panel with S.S 304 friction hinges as per size and weight of sash, multi-point locking system, zinc alloy (zamak) powder coated handles.		
	9.147.E4.1	Using R2 series with frame (39 mm & above) x (39 mm & above) & sash (39 mm & above) x (60 mm & above) & mullion (39 mm & above) x (60 mm & above). (Height upto 1.2 metre; each openable shutter upto 0.8m width)	sqm	6909.11
	9.147.E4.2	Using R3 series with frame (55 mm & above) x (45 mm & above) & sash (55 mm & above) x (65 mm & above) & mullion (55 mm & above) x (65 mm & above). (Height upto 1.8 metre; each openable shutter upto 0.8m width)	sqm	6515.60
	9.147.E4.3	Using R4 series with frame (64 mm & above) x (50 mm & above) & sash (64 mm & above) x (70 mm & above) & mullion (64 mm & above) x (70 mm & above). (Height above 1.8 metre; each openable shutter upto 0.8m width)	sqm	7148.82
9.147.E5		Casement cum fixed panel window having single casement panel at both ends & middle fixed panel with S.S 304 friction hinges as per size and weight of sash, multi-point locking system, zinc alloy (zamak) powder coated handles.		
	9.147.E5.1	Using R2 series with frame (39 mm & above) x (39 mm & above) & sash (39 mm & above) x (60 mm & above) & mullion (39 mm & above) x (60 mm & above). (Height upto 1.2 metre; each openable shutter upto 0.8m width)	sqm	7331.84
	9.147.E5.2	Using R3 series with frame (55 mm & above) x (45 mm & above) & sash (55 mm & above) x (65 mm & above) & mullion (55 mm & above) x (65 mm & above). (Height upto 1.8 metre; each openable shutter upto 0.8m width)	sqm	7035.84
	9.147.E5.3	Using R4 series with frame (64 mm & above) x (50 mm & above) & sash (64 mm & above) x (70 mm & above) & mullion (64 mm & above) x (70 mm & above). (Height above 1.8 metre; each openable shutter upto 0.8m width)	sqm	7140.53
9.147.E6		Casement Window with Double Rebate Frame with one Side Hung Glazed Panel and one Side Hung wire mesh Panel with S.S. 304 friction hinges as per size and weight of sash, multi-point locking system, zinc alloy (zamak) powder coated handles on both glazed and fly screen panel		

Code No	Description	Unit	Rate
	9.147.E6.1 Using R3 series with frame (110 mm & above) x (45 mm & above) & glazed sash (55 mm & above) x (65 mm & above) & fly screen sash (30 mm & above) x (55 mm & above) & metal grill (if required to be paid separately). (Height upto 1.8 metre)	sqm	15949.75
9.147.E7	Casement Window with Double Rebate Frame with two Side Hung Glazed Panel and two Side Hung wire mesh Panel and Fixed Mullion with S.S. 304 friction hinges as per size and weight of sash, multi-point locking system, zinc alloy (zamak) powder coated handles on both glazed and fly screen panel.		
	9.147.E7.1 Using R3 series with frame (110 mm & above) x (45 mm & above) & glazed sash (55 mm & above) x (65 mm & above) & fly screen sash (30 mm & above) x (55 mm & above) & mullion (55 mm & above) x (65 mm & above) & metal grill (if required to be paid separately). (Height upto 1.8 metre)	sqm	14403.41
9.147.E8	Casement Window with Double Rebate Frame with two Side Hung Glazed Panel on outside and two Side Hung wire mesh Panel on inside and French (False) Mullion with S.S. 304 friction hinges as per size and weight of sash, multi-point locking system, zinc alloy (zamak) powder coated handles with shoot bolt on both glazed and fly screen panel.		
	9.147.E8.1 Using R3 series with frame (110 mm & above) x (45 mm & above) & glazed sash (55 mm & above) x (65 mm & above) & fly screen sash (30 mm & above) x (55 mm & above) & French (False) mullion (55 mm & above) x (60 mm & above) & metal grill (if required to be paid separately). (Height upto 1.8 metre).	sqm	13333.32
9.147.F1	Casement door single panel with zinc alloy (zamak) 3D hinges, multi-point locking system with cylinder, zinc alloy (zamak) powder coated handles on both sides.		
	9.147.F1.1 Using R3 series with frame (55 mm & above) x (50 mm & above) & sash (55 mm & above) x (85 mm & above) (Height upto 2.5 metre).	sqm	8747.24
	9.147.F1.2 Using R4 series with frame (64 mm & above) x (55 mm & above) & sash (64 mm & above) x (100 mm & above). (Height above 2.5 metre).	sqm	8718.08
9.147.F2	Casement door double panel with French (False) Mullion with zinc alloy (zamak) 3D hinges, multi-point locking system with cylinder, zinc alloy (zamak) powder coated handles on both sides.		
	9.147.F2.1 Using R3 series with frame (55 mm & above) x (50 mm & above) & sash (55 mm & above) x (85 mm & above) & French (False) mullion (55 mm & above) x (60 mm & above). (Height upto 2.5 metre).	sqm	8332.63

Code No	Description	Unit	Rate
	9.147.F2.2 Using R4 series with frame (64 mm & above) x (55 mm & above) & sash (64 mm & above) x (100 mm & above) & French (False) mullion (64 mm & above) x (60 mm & above). (Height above 2.5 metre).	sqm	8273.27
	9.147.F3 Casement Door with Double Rebate Frame with one Side Hung Glazed Panel and one Side Hung wire mesh Panel with zinc alloy (zamak) 3D hinges, multi-point locking system with cylinder, zinc alloy (zamak) powder coated handles on both sides of glazed panel and zinc alloy (Zamak) powder coated handle along with multi-point locking system on one side of fly screen panel.		
	9.147.F3.1 Using R3 series with frame (110 mm & above) x (45 mm & above) & glazed sash (55 mm & above) x (85 mm & above) & fly screen sash (55 mm & above) x (65 mm & above). (Height upto 2.5 metre).	sqm	13996.08
9.148	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.		
	9.148.1 200 x 19 x 1.9 mm	each	266.91
	9.148.2 250 x 19 x 1.9 mm	each	295.79
	9.148.3 300 x 19 x 1.9 mm	each	321.69
	9.148.4 350 x 19 x 1.9 mm	each	437.22
	9.148.5 400 x 19 x 1.9 mm	each	427.25
9.149	Providing and fixing casement handle made of zinc alloyed (white powder coated) for uPVC casement window with necessary screws etc. complete.	each	161.74
9.150	Providing and fixing zinc alloyed (white powder coated) touch lock for uPVC sliding window with necessary screws etc. complete.	each	142.80
9.151	Providing and fixing steel roller for uPVC sliding window with necessary screws etc. complete.	each	81.06
9.152	Providing and fixing steel roller for uPVC sliding door with necessary screws etc. complete.	each	129.85
9.153	Providing and fixing steel (white power coated) crescent lock for uPVC sliding window/ door with necessary screws etc. complete.	each	138.81
9.154	Providing and fixing frame work for partitions/ wall lining etc. made of 50x50x1.6 mm hollow MS tube, placed along the walls, ceiling and floor in a grid pattern with spacing @ 60 cm centre to centre both ways (vertically & horizontally) or at required spacing near opening, with necessary welding at junctions and fixing the frame to wall/ ceiling/ floors with steel dash fasteners of 8 mm dia, 75 mm long bolt, including making provision for opening for doors, windows, electrical conduits, switch boards etc., including providing with two coats of approved steel primer etc. complete, all as per direction of Engineer-in-charge.	kg	116.76
9.155	Providing and fixing panelling or paneling 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 rebated to be measured). Panelling for panelled and glazed shutters 25 mm to 40 mm thick: Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick conforming to IS:14587	sqm	1369.83

Code No	Description	Unit	Rate
9.156	Providing and fixing Pre -laminated medium density fibre board exterior grade (Grade-I) IS:14587:1998 marked, to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately).		
	9.156.1 Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick conforming to IS:14587	sqm	722.05
	9.156.2 Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 18 mm thick conforming to IS:14587	sqm	873.60
9.157	Providing and fixing Pre-laminated medium density fibre board IS: 14587:1998 marked, with one side decorative lamination other side balancing lamination Grade-I (exterior grade) in shelves with screws and fittings wherever required, edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand (fittings to be paid separately).		
	9.157.1 Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick conforming to IS:14587	sqm	990.99
	9.157.2 Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick conforming to IS:14587	sqm	1312.29
9.158	Providing and fixing in wall lining medium density fibre board IS: 14587:1998 marked, Pre-laminated one side decorative lamination and other side balancing lamination, with necessary fixing arrangement and screws etc. complete.		
	9.158.1 12 mm thick.	sqm	848.93
	9.158.2 18 mm thick.	sqm	1005.59
	9.158.3 25 mm thick.	sqm	1338.58
9.159	Providing and fixing 25 mm thick pre-laminated medium density fibre board exterior grade (Grade-I) IS:14587:1998 marked with one side decorative and other side balancing lamination for cupboard shutters edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand including ISI marked nickel plated bright finishing M.S. piano hinges conforming to IS:3818 marked with necessary screw etc all complete.	sqm	1494.68
9.160	Providing and fixing skirting with Pre-laminated medium density fibre board exterior grade (Grade-I) conforming to IS: 14587:1998 marked, with (one side decorative and other side balancing lamination and edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand with necessary fixing arrangements and screws, including drilling necessary holes for rawl plugs etc. all complete.		
	9.160.1 18 mm thick.	sqm	1453.66
	9.160.2 25 mm thick.	sqm	1786.68
9.161	Providing and fixing fire resistant door frame of section 50 x 60 mm on horizontal side & 35 x 60 mm on vertical sides having built in rebate made out of 1.6 mm thick GI sheet (Zinc coating not less than 120 gm/sqm) suitable for mounting 120 minutes Fire Rated Glazed Door Shutters. The frame shall be filled with mineral wool Insulation having density minimum 96Kg/sqm. The frame will have a provision of G.I. anchor fastners 14 nos (5 each on vertical style & 4 on horizontal style of size M10 x 80) suitable for fixing in the opening along with factory made template for SS ball bearing		

Code No	Description	Unit	Rate
	hinges of size 100x89x3 mm for fixing of fire rated glazed shutter. The frame shall be finished with an approved fire resistant primer or powder coating of not less than 30 micron in desired shade as per the directions of Engineer - in- Charge. (Cost of SS ball bearing hinges is excluded).	metre	1542.03
9.162	Providing and fixing 60 mm thick glazed fire resistant door shutters of 120 minutes Fire rating conforming to IS:3614 (Part II) or EN1634-1:1999, tested and certified as per laboratory approved by Engineer-in-Charge, with suitable mounting on door frame, consisting of vertical styles, top rail & side rail 60 mm x 60 mm wide and bottom rail of 110 mm x 60 mm made out of 1.6 mm thick G.I. sheet (zinc coating not less than 120 gm/ sqm) duly filled mineral wool insulation having density minimum 96 kg/ cum and fixing with necessary stainless steel ball bearing hinges of size 100x89x3 mm of approved make, including applying a coat of approved fire resistant primer or powder coating not less than 30 micron etc all complete as per direction of Engineer-in-Charge (panelling to be paid for seperately).	sqm	8412.53
9.163	Providing and fixing non load bearing fixed frame for fire resistant glazed partition for 120 minutes fire rating, made out to a profile of dimension 60 mm x 70 mm of 1.6 mm thick galvanised steel sheet as per test evidence suitable for fixing fire rated glass for 120 minutes of both integrity & radiation control (EW120) & minimum 20 minutes of insulation (EI20).The profile has to be fixed to the supporting construction by means of anchor fasteners of size M10 x 80, every 150 mm from the edges and every 500 mm (approx) c/c. Linear measurement of frame shall be measured for payment. The frame shall be filled with mineral wool insulation of density minimum 96kg/ cum and finished with a approved fire resistant primer or powder coating of not less than 30 micron in desired shade as per NBC 2016, IS 16231 (Part 3):2016 and directions of Engineer - in- Charge.	metre	1542.03
9.164	Providing and fixing glazing in fire resistant door shutters, fixed panels & partitions etc., with G.I. beading made out of 1.6 mm thick G.I. sheet (zinc coating not less than 120 gm/sqm) of size 20 x 33 mm screwed with M4 x 38 mm SS screws at distance 75 mm from the edges and 150 mm c/c , including applying a coat of approved fire resistant primer/ powder coating of not less than 30 micron on G.I. beading, & special ceramic tape of 5 x 20 mm size etc complete in all respect as per NBC 2016, IS 16231 (Part 3):2016 and as per direction of Engineer-in-Charge with glass of required thickness having 120 minutes of fire resistance both integrity & radiation control (EW120) and minimum 20 minutes of insulation (EI20). The manufacturer have to give test report/certification of fire glass and the glass should have the stamp showing the value of E, EW & EI. The glass shall be tested in approved NABL accredited lab or by any other accreditation body which operates in accordance with ISO/IEC 17011 and accredited labs as per ISO/IEC 17025 for testing and calibration scopes shall be eligible. The maximum glazing size shall not be more than 1100x2200 mm (w x h) or 2.42 sqm.	sqm	3057.36
9.165	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.		
	9.165.1 125 mm	each	83.44
	9.165.2 100mm	each	63.32
	9.165.3 75 mm	each	41.13

Code No	Description	Unit	Rate
9.166	Providing and fixing 18 mm thick both sides Pre-laminated cement bonded wood particle board as per IS : 15786:2008 of approved brand and shade with suitable full threaded steel screws etc. in partitions, boxes, shelves, racks and cupboard, kitchen cabinet under kitchen counter etc. all complete as per direction of Engineer-in-charge (Note: Fittings to be paid separately).		
	9.166.1 18 mm thick	sqm	953.61
9.167	Providing and fixing 6 mm thick both sides Pre-laminated cement bonded wood particle board as per IS : 15786:2008 of approved brand and shade with suitable full threaded steel screws etc. on the backing of racks, drawer, cupboard, kitchen cabinet under kitchen counter etc. all complete as per direction of Engineer-in-charge.	sqm	707.42
9.168	Providing and fixing cupboard shutter with 19 mm thick one side decorative and other side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand including 2 mm thick PVC edge banding tape with hot glue by edge bending machine etc. with auto closing spring loaded hinges (hydraulic type) etc. complete as per direction of Engineer-in-charge. (Payment of providing and fixing auto closing hinges shall be paid separately)	sqm	1980.48
9.169	Providing and fixing 19 mm thick both side balancing lamination factory pressed BWP grade marine ply as per IS : 710 of approved brand boxes,shelves,racks,almirah,cupboard and drawer etc. including necessary nails,screws etc. complete as per direction of Engineer-in-charge.	sqm	1815.21
9.170	Providing and fixing stainless steel fancy handle of approved make fixed with SS screws etc. complete as per direction of Engineer-in-charge.		
	9.170.1 200 mm	each	130.66
9.171	Providing and fixing stainless steel soft closing spring hinges at 0 degree hinges (hydraulic type) of approved make/brand to cupboard shutters with full threaded steel screws including making necessary recess in board and finished etc. complete as per direction of Engineer-in-charge.	each	190.40
9.172	Providing and fixing stainless steel soft closing heavy type telescopic drawer channels of approved make 500 mm long with screws etc. complete as per direction of Engineer- in-charge.	one set	619.57
9.173	Providing and fixing ready made 304 grade stainless steel Modular kitchen basket and accessories such as right angle basket (Plain Cup & Saucer, plant, Partition, Bottle rack, Thali, Cutlery) kitchen utensil basket, Dinner set basket, kitchen grain basket, Multipurpose basket as per site requirement including finishing (wherever required) and fittings. The same shall be fixed with necessary stainless steel nuts & bolts, Stainless Steel screws & telescopic channel etc. as per direction of Engineer-in-charge. (For payment purpose only weight of Stainless steel basket shall be considered excluding weight of all fixing accessories such as nuts, bolts, fasteners telescopic basket channels etc. Payment of providing and fixing telescopic channel shall be paid separately)	kg	373.28
9.174	Providing and fixing 2 mm thick 16 to 19 mm wide PVC edge binding tape of approved quality for cupboard/wardrobe shutters including necessary synthetic resin hot pressed to edges on binding machine etc. complete as per direction of Engineer- in-charge.	metre	30.66

PAINTING

INTERIOR FINISHING

13.37	Whitewashing with lime to give an even shade :		
13.37.1	Newwork(threeormorecoats)	sqm	13.67
13.38	Satnalime wash on walls with one coat.	sqm	5.51

	Colourwashingsuchasgreen,blueorbufftogiveanevenshade:		
13.39			
	13.39.1 Newwork(twoormorecoats)withabasecoatofwhite washingwith lime	sqm	18.66
	13.39.2 Newwork(twoormorecoats)withabasecoatofwhiting	sqm	18.46
13.41	Distempering with 1st quality acrylic distemper (ready mixed) having VOCcontent less than 50 gram/litre, of approved manufacturer and of requiredshadeandcolour all complete to achieve even shade and colour :		
	13.41.1Newwork(twoormorecoats)overandincludingwaterthinnablepriming coatwithcementprimerhavingVOCcontentless than50 gram/litre	sqm	64.98
	EXTERIOR FINISHING		
13.44	Finishingwallswithwaterproofingcementpaintofrequiredshade:		
	13.44.1 Newwork(Twoormorecoatsapplied@3.84kg/10sqm)	sqm	40.92
13.45	Finishingwalls with textured exterior paint of required shade :		
	13.45.1Newwork(Twoormorecoatsapplied@3.28ltr/10sqm)over and including priming coat of exterior primer applied @2.20kg/10 sqm	sqm	78.26
13.46	Finishingwalls withAcrylic Smooth exterior paint of required shade :		
	13.46.1 New work (Two or more coat applied @ 1.67 ltr/10 sqm overand including priming coat of exterior primer applied @ 0.90litre/10sqm)	sqm	56.21
13.47	FinishingwallswithPremiumAcrylicSmoothexteriorpaintwithSiliconeadditives ofrequired shade:		
	13.47.1New work (Two or more coats applied @ 1.43 ltr/10 sqm overand including priming coat of exterior primer applied @ 0.90litre/10sqm)	sqm	59.89
13.48	FinishingwithDeluxeMultisurfacepaintsystemforinteriorsandexteriors usingPrimeraspermanufacturersspecifications:		
	13.48.1 Twoormorecoatsappliedonwalls@1.25ltr/10sqmoverandi ncludingonecoatofSpecialprimerapplied@0.75ltr /10sqm	sqm	67.80
	13.48.2PaintingwoodworkwithDeluxeMultiSurfacePaintofrequiredshade. Two or more coat applied @ 0.90 ltr/10 sqm over anunder coat of primer applied @0.75 ltr/10 sqm of approvedbrand and manufacture	sqm	61.69
	13.48.3Painting Steel work with Deluxe Multi Surface Paint to give anevenshade.Twoormorecoatapplied@0.90ltr/10sqmoveranu ndercoatofprimerapplied@0.80ltr/10sqmofapprovedbrand and manufacture	sqm	59.75
13.48A	Finishing walls with ready mixed Premium acrylic emulsion paint (CompanyDepot Tinted) having VOC less than 50 gm/litre and UV resistance as perIS 15489:2004, Alkali & fungal resistance, dirt resistance exterior paint ofrequired shadewith silicon additives.		

	13.48A.1 Newwork(Twoormorecoatsapplied@1.43litre/10sqmover andincludingprimingcoatofexteriorprimerapplied@ 0.90litre/10 sqm.	sqm	63.44
13.50	Applyingpriming coat:		
	13.50.2 Withreadymixedaluminiumprimerofapprovedbrandandmanufactureon resinous wood and plywood	sqm	26.13
	13.50.3 Withreadymixedredoxidezincchromateprimerofapprovedbrandand manufacture on steel galvanised iron/ steel works	sqm	23.59
	13.50.4 Withreadymixedredoxidezincchromateprimerofapproved brandandmanufactureonsteelwork(secondcoat)	sqm	12.64
13.52	Finishing with Epoxy paint (two or more coats) at all locations preparedand applied as per manufacturer's specifications including appropriatepriming coat,preparation of surface, etc. complete.		
	13.52.1 Onsteel work	sqm	84.61
	13.52.2 Onconcrete work	sqm	82.30
13.53	PaintingonG.S.sheetwithsyntheticenamelpaintofapprovedbrandandmanufactureof required colour to give an even shade :		
	13.53.1 Newwork(twoormorecoats)includingacoatofapproved steelprimer but excluding a coat of mordant solution	sqm	63.30
13.57	Painttingwithoiltypewoodpreservativeofapprovedbrandand manufacture:		
	13.57.1 Newwork(twoormorecoats)	sqm	19.04
13.58	Providingandapplyingtwocoatsoffireretardantpaintoncleanedwood / ply surface @ 3.5 sqm per litre per coat including preparation of basesurface as per recommendations of manufacturer to make the surface fireretardant.	sqm	117.08

13.62	Paintingwithsyntheticenamelpaintofapprovedbrandandmanufactureof requiredcolour to give an even shade :		
	13.62.1 Twoormorecoatsonnewworkoveranundercoatofsuitableshadewithordinarypaintofapprovedbrandandmanufacture	sqm	79.19
13.67	Varnishingwithvarnishofapprovedbrandandmanufacture:		
	13.67.1 Twoormorecoatsofgluesizingwithcopalvarnishoveranundercoatofflattingvarnish	sqm	81.83
	13.67.2 Twoormorecoatsgluesizingwithsparvarnishoranundercoatofflatting varnish	sqm	82.92
13.68	Frenchspirit polishing :		
	13.68.1 Twoormorecoatsonnewworksincludingacoatofwoodfiller	sqm	156.19
13.69	Polishingonwoodworkwithreadymixedwaxpolishofapprovedbrandand manufacture :		
	13.69.1 Newwork	sqm	69.18
13.70	Floorpolishingonmasonryorconcretefloorswithwaxpolishofapproved brandand manufacture.	sqm	33.64
13.71	Letteringwith black Japan paint of approved brand and manufacture	per letterper cmheight	2.15

Code No	Description	Unit	Rate
13.76	Providingandapplying12mmthick(average)premixedformulatedone coat gypsum lightweight plaster having additives and light weightaggregatesasvermiculite/perliterespectivelyconformingtoIS:2547(Part - 1&II)1976,appliedonhacked/unevenbackgroundsuchasbarebrick/block/RCCworkonwalls&ceilingatallfloorsandlocations,finishedin smoothline and level etc. complete.	sqm	164.12
13.77	ExtraforadditionofsyntheticPolyestertriangularfibreoflength6mm,effectivediameter10-40micronsandspecificgravityof1.34to1.40in cement plaster/mortar by using 125 gms. of synthetic Polyester triangularfibre for 50 Kgs. cement used in cement mortar as per directions ofEngineer-in-Charge.	per bagof50kgof cement	27.42
13.78	Providing and applying white cement based putty of average thickness 1mm,ofapprovedbrandandmanufacturer,overtheplasteredwallsurface toprepare the surface even and smooth complete.	sqm	54.62
13.79	Distempering with 1st quality acrylic distemper (ready mixed) having VOC(VolatileOrganicCompound)contentlessthan50gram/litre,ofapprovedbrand and manufacturerincluding applying additional coats whereverrequiredto achieve even shade and colour		
	13.79.1 Oldwork(one ormore coats)	sqm	21.95
13.80	Wall painting with acrylic emulsion paint, having VOC (Volatile OrganicCompound) content less than 50 grams/ litre, of approved brand andmanufacture, including applying additional coats wherever required, toachieveeven shade and colour.		
	13.80.1 One coat	sqm	32.20
	13.80.2 Twocoats	sqm	48.11
13.81	Wall painting with premium acrylic emulsion paint of interior grade, havingVOC (Volatile Organic Compound) content less than 50 grams/ litre ofapprovedbrandandmanufacture,includingapplyingadditionalcoatswhererrequired to achieveeven shade and colour.		
	13.81.1 One coat	sqm	33.41
	13.81.2 Twocoats	sqm	49.98
13.85	Applyingprimingcoatswithprimerofapprovedbrandandmanufacture, havinglowVOC(VolatileOrganicCompound)content.		
	13.85.1 Withreadymixedpinkorgreyprimeronwoodwork(hardand softwood)havingVOCcontentlessthan50grams/litre	sqm	24.62
	13.85.3 Withwaterthinnablecementprimeronwallsurfacehaving VOCcontentlessthan50grams/litre	sqm	25.88
13.86	6mmplasteroncementconcreteorreinforcedcementconcreteworkwith whitecementbasedpolymermodifiedselfcuringmortarofapprovedmake asper the direction of Engineer-In-Charge.	sqm	94.20
13.87	Whitewashing with lime to give an even shade :		
	13.87.1 Oldwork(two ormore coats)	sqm	8

Code No	Description	Unit	Rate
	13.87.2 Oldwork(one ormorecoats)	sqm	4.87
13.88	Removing white or colour wash by scrapping and sand papering andpreparingthesurfacesmoothincludingnecessaryrepairstoscratchesetc. complete	sqm	6.91
13.91	Removingdryoroilbounddistemper,waterproofingcementpaintandthe like by scrapping, sand papering and preparing the surface smoothincludingnecessary repairs to scratches etc. complete.	sqm	8.80
13.92	PaintingonG.S.sheetwithsyntheticenamelpaintofapprovedbrandandmanufactureof required colour to give an even shade :	sqm	
	13.92.1 Oldwork(one ormorecoats)	sqm	32.66
13.97	Paintingwithoil typewoodpreservative ofapprovedbrand andmanufacture:		
	13.97.1 Oldwork(one ormorecoats)	sqm	14.42
13.99	Paintingwithsyntheticenamelpaintofapprovedbrandandmanufactureofrequiredcolour to give an even shade :		
	13.99.1 Oneor more coats on old work	sqm	35.98

Code No	Description	Unit	Rate
13.103	Frenchspirit polishing :		
	13.103.1 Oneor more coats on old work	sqm	78.68
13.104	Polishingonwoodworkwithreadymadewaxpolishofapprovedbrandand manufacture :		
	13.104.1 Oldwork	sqm	34.93
13.105	Re-letteringwith black Japan paint of approved brand and manufacture.	per letterper cmheigh t	1.35
13.106	Painting(oneormorecoats)withblackJapanpaintofapprovedbrandand manufactureto give an even shade.	sqm	33.53
13.107	ProvidingandfixingC.P.brasschainandrubberplugcompleteforsinkor washbasin:		
	13.107.1 32mm dia	each	28.04
	13.107.2 40mm dia	each	27.53
13.109	Finishingwallswithwaterproofingcementpaintofrequiredshade:		
	13.109.1Old work (one or more coats applied @ 2.20 kg/10 sqm) overpriming coat of primer applied @ 0.80 litrs/10 sqm completeincludingcostof Priming coat.	sqm	39.52
	13.109.2 Oldwork(one ormorecoats @2.20kg/10sqm)complete.	sqm	26.53
13.110	Finishingwalls with textured exterior paint of required shade :		
	13.110.1 Oldwork(Twoormorecoatsonexistingcementpaintsurfacea pplied @ 3.28ltr/10 sqm.	sqm	59.22
	13.110.2 Oldwork(Oneormorecoats)applied@1.82ltr/10sqm.	sqm	38.19
13.111	Finishingwalls withAcrylic Smooth exterior paint of required shade :		
	13.111.1 Oldwork(Twoormorecoatapplied@1.67ltr/10sqm)on existingcement paint surface	sqm	42.26
	13.111.2 Oldwork(Oneormorecoatapplied@0.90ltr/10sqm).	sqm	28.23
13.112	FinishingwallswithPremiumAcrylicSmoothexteriorpaintwithSiliconeadditives ofrequired shade		
	13.112.1 Oldwork(Twoormorecoatsapplied@1.43ltr/10sqm)over existingcement paint surface	sqm	45.96
	13.112.2 Oldwork(oneormorecoatsapplied@0.83ltr/10sqm).	sqm	30.99
13.113	Varnishingwithvarnishofapprovedbrandandmanufacture:		
	13.113.1 Oneor more coats with copal varnish	sqm	33.11
	13.113.2 Oneor more coats with spar varnish	sqm	33.27
13.114	Melaminepolishingonwoodwork(oneormorecoat).	sqm	417.31
13.115	Varnishingwithflattingvarnishofapprovedbrandandmanufactureoneor morecoats on old work.	sqm	34.90

FABRICATION WORK

Code No	Description	Unit	Rate
10.1	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	105.62
10.2	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	120.33
10.3	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	10295.64
10.4	Providing and fixing 1 mm thick M.S. sheet sliding-shutters, with frame and diagonal braces of 40x40x6 mm angle iron, 3 mm M.S. gusset plates at the junctions and corners, 25 mm dia pulley, 40x40x6 mm angle and T-iron guide at the top and bottom respectively, including applying a priming coat of approved steel primer	sqm	5909.58
10.5	Providing and fixing 1 mm 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.		
	10.5.1 Using M.S. angels 40x40x6 mm for diagonal braces	sqm	5223.92
	10.5.2 Using flats 30x6 mm for diagonal braces and central cross piece	sqm	5007.38
10.6	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.		
	10.6.1 80x1.25 mm M.S. laths with 1.25 mm thick top cover	sqm	3287.88
	10.6.2 80x1.20 mm M.S. laths with 1.20 mm thick top cover	sqm	2976.35
	10.6.3 80x0.90 mm M.S. laths with 0.90 mm thick top cover	sqm	2872.22
10.7	Providing and fixing ball bearing for rolling shutters.	each	443.12
10.8	Extra for providing mechanical device chain and crank operation for operating rolling shutters.		
	10.8.1 Exceeding 10.00 sqm and upto 16.80 sqm in the area	sqm	1153.22
	10.8.2 Exceeding 16.80 sqm in area	sqm	1063.62
10.9	Extra for providing grilled rolling shutters manufactured out of 8 mm dia M.S. bar instead of laths as per design approved by Engineer-in- charge, (area of grill to be measured).	sqm	691.43
10.10	Fixing standard steel glazed doors, windows and ventilators in walls, including fixing of float glass panes with glazing clips and special metal-sash putty of approved make, or metal beading with screws, (only steel windows, glass panes cut to size and glazing clips or metal beading with screws, shall be supplied by department free of cost).		

Code No	Description	Unit	Rate
10.10.1	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	74.21
10.10.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	kg	36.72
10.11	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D,F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, priming coat of approved steel primer, but excluding the cost of other fittings,glass panes complete all as per approved design, (sectional weight of only steel members shall be measured for payment).		
10.11.1	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	117.95
10.11.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	kg	115.43
10.12	Extra for providing and fixing steel beading of size 10 x 10 x 1.6 mm (box type), approved shape and section with screws instead of glazing clips and metal sash putty, in steel doors, windows, ventilators and composite units.	metre	44.64
10.13	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.		
10.13.1	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	127.53
10.13.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	kg	122.40
10.14	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:		
10.14.1	Profile B		
10.14.1.1	Fixing with adjustable lugs with split end tail to each jamb	metre	524.97
10.14.1.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	metre	513.36
10.14.2	Profile C		
10.14.2.1	Fixing with adjustable lugs with split end tail to each jamb	metre	550.58

Code No	Description	Unit	Rate
	10.14.2.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	metre	538.97
	10.14.3 Profile E		
	10.14.3.1 Fixing with adjustable lugs with split end tail to each jamb	metre	576.18
	10.14.3.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	metre	564.57
10.15	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.		
	10.15.1 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	175.68
	10.15.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	kg	163.13
10.16	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.		
	10.16.1 Hot finished welded type tubes	kg	174.96
	10.16.2 Hot finished seamless type tubes	kg	185.72
	10.16.3 Electric resistance or induction butt welded tubes	kg	174.96
10.17	Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete.	each	203.40
10.18	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	each	198.59
10.19	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	kg	87.48
10.20	Providing and fixing bolts including nuts and washers complete.	kg	143.42
10.21	Providing and fixing M.S. rivets of sizes in position.	kg	250.47
10.22	Welding by gas or electric plant including transportation of plant at site etc. complete.	cm	3.33
10.25	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.		
	10.25.1 In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	kg	111.24
	10.25.2 In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	kg	155.34

Code No	Description	Unit	Rate
10.26	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.		
	10.26.1 M.S. tube	kg	177.12
	10.26.2 E.R.W. tubes	kg	185.18
	10.26.3 G.I. pipes	kg	182.75
10.27	Providing and fixing carbon steel galvanised (minimum coating 5 micron) dash fastener of 10 mm dia double threaded 6.8 grade (yield strength 480 N/mm2), counter sunk head, comprising of 10 mm dia polyamide PA 6 grade sleeve, including drilling of hole in frame , concrete/ masonry, etc. as per direction of Engineer-in-charge.		
	10.27.1 10 x 60 mm	each	117.99
	10.27.2 10 x 80 mm	each	123.89
	10.27.3 10 x 120 mm	each	153.86
	10.27.4 10 x 140 mm	each	163.98
	10.27.5 10 x 160 mm	each	202.05
10.28	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	695.16
10.29	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.		
	10.29.1 Galvanised M.S. Wire gauze with 0.63 mm dia wire and 1.4 mm aperture on both sides	sqm	760.24
	10.29.2 Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	sqm	1020.20
10.30	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :		
	10.30.1 4.0 mm thick glass panes	sqm	958.19
	10.30.2 5.5 mm thick glass panes	sqm	1251.14
10.31	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	117.45

ROOFING

Code No	Description	Unit	Rate
12.1	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.		
	12.1.1 1.00 mm thick with zinc coating not less than 275 gm/m	sqm	1311.44
	12.1.2 0.80 mm thick with zinc coating not less than 275 gm/m	sqm	1131.80
	12.1.3 0.63 mm thick with zinc coating not less than 275 gm/ m	sqm	978.89
12.4	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.		
	12.4.1 0.80 mm thick with zinc coating not less than 275 gm/Sqm.	Meter	974.97
	12.4.2 0.63 mm thick with zinc coating not less than 275 gm/Sqm.	Meter	882.45
12.8	Providing reinforced by organic fibres and/or inorganic synthetic fibres cement 6 mm thick corrugated sheets (as per IS: 14871) roofing up to any pitch and fixing with polymer coated J or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM	Sqm	482.76
12.1	Extra for providing and fixing wind ties of 40x 6 mm flat iron section.	Meter	176.04
	12.12.1 Corrugated serrated adjustable ridges	Meter	470.66
12.2	Painting top of roofs with bitumen of approved quality @ 17kg per 10 sqm impregnated with a coat of coarse sand at 60 cudm per 10 sqm, including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete :		
	12.15.1 With residual type petroleum bitumen of grade VG -10	Sqm	149.58
12.2	Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete.	Sqm.	638.78

Code No	Description	Unit	Rate
12.2	Providing sand stone slab for roofing and laying them in cement mortar 1 : 4 (1 cement : 4 coarse sand) over wooden karries or R.C.C. battens or structural steel sections (Karries or battens or structural steel sections to be paid separately), including pointing the ceiling joints with cement mortar 1:3 (1 cement : 3 fine sand) complete :		
	12.23.2 White sand stone slab		
	12.23.2.1 40 to 50 mm thick	Sqm.	996.21
12.2	Providing and fixing insulating board ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately):		
	12.24.1 Natural colour insulating board		
	12.24.1.1 12 mm thick	Sqm.	831.92
	12.24.2 White face insulating board		
	12.24.2.1 12 mm thick	Sqm.	869.94
	12.24.3 Flame retardant face insulating board		
	12.24.3.1 12 mm thick	Sqm.	109.40
12.3	Providing and fixing plain multipurpose cement board(Hight pressure steam cured) with suitable screws for cement particle board in ceiling etc. complete (frame work to be paid seperatately).		
	12.26.1 6 mm thick Cement fiber board, Type-B, Category-III as per IS: 14862 : 2000	Sqm.	829.76
12.4	12.35 Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8183. Density 16 kg/m*, 50 mm thick, wrapped in 200G Virgin Polythene bags placed over existing false ceiling and held in position by criss-crossing GI wire.	Sqm.	267.53

Code No	Description	Unit	Rate
12.5	Providing and fixing false ceiling at all heights 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 50 mm long with 6 mm 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 25 mm 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 :		
	12.45.1 12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I):2011 (Board with BIS certification marks)	Sqm.	1220.22
	12.45.2 12.5 mm thick tapered edge Glass Reinforced Gypsum (GRG) board conforming to IS: 2095- (Part 3):1996 (Boards with BIS certification marks)	Sqm.	1368.09
	12.45.3 12.5 mm thick tapered edge gypsum moisture resistant board	Sqm.	1376.19
	12.45.4 Fully Perforated Gypsum Plaster Board of size 1200 x 2400x12.5 mm having approx. 15 % perforated area with perforation size and pattern as approved by the Engineer- in-charge and as per manufacturer's specification, with all 4 sides tapered and backed by acoustical tissue with NRC value not less than 0.60	Sqm.	1569.74
12.5	Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8 mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866.The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.		

Code No	Description	Unit	Rate
	12.47.1 2 mm thick corrugated (2.5” or 4.2” or 6”) or step-down (2” or 3” or 6”) as specified	Sqm.	1261.22
	12.47.2 2 mm thick flat	Sqm.	1121.09
12.5	Providing & fixing on roof pressed clay tile (Mangalore tile) of 20 mm nominal thickness and of approved size and as per approved pattern on steel / woodenframe work complete (frame work to be paid separately).	Sqm.	390.11
12.5	Providing & laying on roof pressed clay tile ridge (Mangalore tile) of 20 mm thickness and of approved pattern on steel frame work complete	Sqm.	87.21
12.5	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-Charge) of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05mm) 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 /seIf 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.	664.79

Code No	Description	Unit	Rate
12.5	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.		
	12.52.1 GI Metal Ceiling Lay in plain Tegular edge Global white colour tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.	Sqm.	1712.66
	12.52.2 GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation and backed with a black Glass fiber acoustical fleece.	Sqm.	1861.88
	12.52.3 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 0.16 mm thick fire retardant PVC film on the face side and 12 micron 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.	1993.64

Code No	Description	Unit	Rate
	12.52.4 12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS: 2095 part I, of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm, backed with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.79, with 50 mm resin bonded glass wool backing.	Sqm.	1375.20
12.5	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T'. Bottom exposed with 24 mm of all T-sections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge. **Note :-** Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection >	Sqm.	1942.34
12.6	Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8183 having density 24 kg/m3, 50 mm thick, wrapped in 200G Virgin Polythene Bags fixed to wall with screw, rawel plug & washers and held in position by criss crossing GI wire etc. complete as per directions of Engineer-in-Charge.	Sqm.	322.65

Code No	Description	Unit	Rate
12.6	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on interlocking 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 galvanized 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.		
	12.58.1 8 mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm , of size 595x595 mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg /cum backing.	Sqm.	1610.51

Code No	Description	Unit	Rate
12.6	Providing & fixing at all heights, levels and locations colour finish Aluminium alloy roofing sheets of alloy IS designation 31500, temper Hx8 conforming to IS 737 and dimensions as per IS code 2676 with characteristics of good formability and corrosion resistance. The profile sheets shall be fixed to truss members in slope or required pitch or curvature with Hex cap headed self drilling/tapping Stainless steel screws M6, 50 mm long with 3 mm EPDM seal washer etc. all inclusive of labour, scaffolding, T&P and sundries etc. complete as per directions of the Engineer-In-Charge. (Cost of truss/frame work shall be paid separately).		
	12.64.1 0.56 mm, Aluminium troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092	Sqm.	930.69
12.7	Providing & fixing at all heights, levels and locations colour finish Aluminium alloy roofing sheets of alloy IS designation 31500, temper Hx8 conforming to IS 737 and dimensions as per IS code 2676 with characteristics of good formability and corrosion resistance. The profile sheets shall be fixed to truss members in slope or required pitch or curvature with Hex cap headed self drilling/tapping Stainless steel screws M6, 50 mm long with 3 mm EPDM seal washer etc. all inclusive of labour, scaffolding, T&P and sundries etc. complete as per directions of the Engineer-In-Charge. (Cost of truss/frame work shall be paid separately).		
	12.65.1 0.56 mm, Aluminium Colour coated troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000 mm.	Sqm.	1059.03
	12.65.2 0.71 mm, Aluminium Colour coated troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000 mm.	Sqm.	1287.18
	12.65.3 0.91 mm, Aluminium Colour coated troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000 mm.	Sqm.	1617.98
	12.65.4 0.56 mm Aluminium Colour profile with center to center pitch of 175 mm, depth of 46 mm, top crest width of 41 mm, bottom valley width of 80 mm, overall profile width of 1144 mm, cover width 1050 mm.	Sqm.	1335.60
	12.65.5 0.71 mm Aluminium Colour coated profile with center to center pitch of 175 mm, depth of 46 mm, top crest width of 41 mm, bottom valley width of 80 mm, overall profile width of 1144 mm, cover width 1050 mm.	Sqm.	1679.04
	12.65.6 0.91 mm Aluminium Colour coated profile with center to center pitch of 175 mm, depth of 46 mm, top crest width of 41 mm, bottom valley width of 80 mm, overall profile width of 1144 mm, cover width 1050 mm	Sqm.	2101.91

NON DSR ITEMS			
No.	**Particulars**	**unit**	**Rate**
Fixed Partition Panels (Aluminium sash Must be heavy duty, 16 guage, (min section 1.5" * 2.5"), anodised/powder coated of approved shed with all gaskets, hardware, locks , handles and any other accessories complete			
ND1	Prelaminated Particle board panel 10mm thk	Sq.Ft.	450
ND2	Prelaminated both side plywood panel 6mm	Sq.Ft.	550
ND3	Prelaminated both side plywood panel 12mm	Sq.Ft.	580
ND4	MDF / HDF / HDHMR board 12mm thk	Sq.Ft.	380
ND5	Tuffen glass 6mm thk	Sq.Ft.	650
ND6	ACP sheets (4mm. Min) and glass	Sq.Ft.	475
ND7	With hardner 4mm thk panel	Sq. Ft.	350
ND8	6mm thk clear glass	Sq ft	450
ND9	8mm thk tinted glass	Sq ft	510
Teak Wood framed partition in 2”X1.5” T W battens inserted with panel including all brass fittings etc complete.			
ND10	6mm thk both side laminated plywood panel	Sq.Ft.	750
Sliding window with sliding series 18mm/25mm/32mm with glass (4mm-6mm) trackes and shashes with heavy duty profile, Shutter & tracks offered with heavy duty imported polypropylene weather strips to avoid noise, air and water infiltration, Spring loaded locking arrangement,embedded glass 4-			
ND11	Mosquito net ebeded window panel with	Sq. Ft.	160
ND12	Aluminium anodised Louver window	Sq ft	450
Lamination			
ND13	Provision and fixing of vinyl flooring (2-3mm thk) of approved make with necessary glue,nailing or suitable method	Sq.Ft.	115
ND14	Provision and fixing of wooden planket flooring with necessary glue,nailing or suitable method	Sq.Ft.	210
ND15	Provision and fixing of veneer of required design with necessary glue,nailing or suitable method (basic rate of vineer – Rs60/- per sft	Sq.Ft.	150
ND16	Malamine polish with machine with required glossy / mat finish	Sq.Ft.	120

Blinds (Provision and installation with necessary arrangements)			
ND17	Vertical Pvc Blinds	Sq.Ft.	200
ND18	Vertical fabric blinds	Sq. Ft.	120
ND19	Vertical bamboo chick Blinds	Sq.Ft.	280
ND20	Roller Pvc Blinds	Sq.Ft.	200
ND21	Roller bamboo chick Blinds	Sq.Ft.	280
Provision and installation / fixing of (material should be of Standard make)			
ND22	Hard plastic pigeon net	Sq.Ft.	50
ND23	Mosquito net	Sq.Ft.	65
ND24	glass for louvres (5-6mm glass)	No.s	100
ND25	fibre louvre	No.s	50
ND26	Aluminium louver	No.s	22
ND27	16 gauge GI metal sheet (PATRA) at door bottoms	Sq.Ft.	150
ND28	1C Grade Aluminum Patti for porta cabins	kg	300
ND29	Pin-up board – approved fabric with soft board on hard backing hard backing and aluminium border	Sq.Ft.	225
ND30	cork board	Sq.Ft.	160
ND31	Pop up box	No.	3000
ND32	metalic Cable manager	No.	150
ND33	illusion type Nylon Carpet	SqFt.	75
ND34	Providing and fixing of ultra safety & security film like Birla 3M SCLARL 150 having thickness of 0.51mm for glass etc. all complete as per Doc. no.A-6235-110- 004-Rev 1 of sec-4 Vol III of specification.	Sq.Ft.	60
ND35	Providing Executive Revolving Chair Mesh Back /With Synchro Mechanism /Gas lift for up and down movement / required Coloured Metal Stand / Adjustable handle / Back support adjustable	No.	7500

ND36	WORKSTATION of required size and shape with fixed 3 drawer Pedestral / Softboard / Wire Manager/ side frosted glass Partition and 8 model Electrical Socket along with telephone and internet connection box made in 18mm ply (BSL) Both Side Laminate. (Top surface area will be considered for measurement)	Sqft	1650
ND37	filing unit or floor filing unit or hanging uint of required design Size and shape all make in 18mm Ply with (BSL) Both Side Laminate	Cft	900
ND38	Wiring for light point/ fan point/ exhaust fan point / call point with 1.5 Sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc. as required.	No.	850
ND39	2.5 main circuit wire	Rft	160
ND40	MCB	No.	800
	FENCING		
ND41	Providing and fixing S.S fencing (Jali) at required locations.	Sq.Ft.	75
ND42	Providing and fixing M.S. fencing (Jali) at required locations.	Sq.Ft.	65
ND43	Concertina coil (2 FT) Normal blade	Rft	150
	ROOFING		
ND44	Providing and fixing with UPVC profile roofing of desired colour with minimum rhickness 3mm to 6mm	Sqft.	122
Supply and Installation of BWP (marine) PLY with necessary arrangements like glue, screw etc.			
ND45	6mm	Sqft.	100
ND46	12mm	Sqft.	125
ND47	18mm	Sqft.	145
	SCAFFOLDING		
ND48	Bamboo scaffolding at desired location with all necessary arrangements	Sqft.	3