



INDIAN STATISTICAL INSTITUTE, DELHI CENTRE
7 S.J.S MARG, KATWARIA SARAI
NEW DELHI 110016

NOTICE INVITING e-TENDER

NIT No- D/ISI/Civil Work/2019-20/433

Dated : - 20/08/2019

Subject : Item wise Annual Rate Contract for Miscellaneous works related to Maintenance/minor works(addition/alteration/replacement) of buildings in Indian Statistical Institute, Delhi Centre, New Delhi – 110016 for a period of one year from the date of commencement of the contract

Online Tenders in Single bid system are invited from all eligible bidders for the following work at Indian Statistical Institute, 7, SJS, Sansanwal Marg, New Delhi 110 016. The Tender notice will be available on www.eprocure.gov.in/ www.isid.ac.in under Administrative Announcements and Tenders

Name of the Work: Miscellaneous works related to Maintenance/minor works (addition/alteration/replacement) of buildings in Indian Statistical Institute, Delhi Centre, New Delhi – 110016

Place of the Work: Indian Statistical Institute, Delhi Centre, 7, SJS Sansanwal Marg, New Delhi 110 016

Scope of the Work: The scope of work includes the works mentioned in the Schedule of Requirements

Duration of Contract: Initially for a period of 01 (one) year extendable on yearly basis for a maximum of two more years depending on the performance of the agency and need of the Institute and compliance with Terms and Conditions by the contractor.

Please refer to the tender document for further details.

Deputy Chief Executive (Admn)

Notice Inviting e-Tender (NIT) for Item wise Annual Rate Contract for Miscellaneous works related to Maintenance/minor works (addition/alteration/replacement) of buildings in Indian Statistical Institute, Delhi Centre, New Delhi – 110016 for a period of one year from the date of commencement of the contract

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INSTRUCTIONS TO BIDDERS

1. The interested bidders are advised to go through the tender document carefully and satisfy themselves against the eligibility criteria laid down therein.
2. Single bid system shall be followed for this tender. The bidders shall submit the “**Details of the Bidder**” in Annexure-A and “**Price Schedule**” in Annexure-B duly signed and stamped along with other self attested documents as mentioned in the NIT. Tender should be downloaded from www.eprocure.gov.in/ www.isid.ac.in under Administrative Announcements and Tenders.
3. The details provided in Annexure A & B, along with all enclosures, certificates etc. and corrections in the tender, if any, should be signed and stamped by the bidder before submission.
4. All the details should be provided in ink. Overwriting/applying correction fluid should be avoided.
5. The quotation shall remain valid for a period of **90 (Ninety) days** from the date of opening the bid.
6. The acceptance of the tender in part or whole shall rest with the Competent Authority of the Institute, who reserves to himself/herself the authority to reject any or all the tenders received without assigning any reason thereof.
7. Bids, which do not fulfill any of the conditions mentioned hereinabove or hereinbelow or are incomplete in any respect, will be rejected.
8. Bidders must have the experience of execution of at least one similar type of work of an amount not less than RS 5 Lakhs during the last three years.
9. Bidders must have GST registration, valid PAN card.
10. The participating agencies shall submit the following self-attested documents along with their bids signed on each page:
 - (i) Photocopy of PAN Card.
 - (ii) Photocopy of GST Registration Certificate
 - (iii) Photocopy of Income Tax Return for the last three years
 - (iv) Photocopy of Work Order/Completion certificate of having executed at least one other similar type of work of an amount not below Rs. 5,00,000/- (Rs. Five Lakhs) during the last three years
 - (v) Details of the previous clients including Name, Address of the Firm and Contact number.
 - (vi) The original documents of PAN card, GST registration certificate, ITR, Completion Certificate and Firm details shall have to be produced by the successful bidder for verification before award of contract
11. Incomplete bids / conditional bids, bids received in any other mode except those mentioned in Instruction No. 2 or bids received after the last date will not be entertained and will be summarily rejected.
12. Before submitting the Bid, it is advisable that the tenderer acquaint himself with the premises so as to get an idea of the site he will be working at.
13. Bidders are asked to refer the Crucial Dates as given below for further information. Corrigendum to the Tender notice, if any, will also appear on www.eprocure.gov.in/ www.isid.ac.in.

While submitting the Tender for this work, the tenderers will be deemed to have read, understood and accepted all the terms and conditions laid down in the Tender document. Any doubts or clarifications with regard to the interpretation of the Terms and Conditions stipulated in this Tender enquiry, may be got clarified from Engineer (Civil), ISI, Delhi Centre, within the dates mentioned hereunder. Requests for postponing the Tender opening date for the same will not be accepted.

CRUCIAL DATES

Sl. No.	Notice	Date	Time
1.	Publication of Tender notice	22/08/2019	01:00 PM
2.	Starting Date for Downloading of Documents	23/08/2019	10:00 AM
3.	Bid Submission Start Date	23/08/2019	10:00 AM
4.	Clarification Start Date	23/08/2019	10:00 AM
5.	Clarification End Date	30/08/2019	05:00 PM
6.	Pre Bid Meeting Date	03/09/2019	02:00 PM
6.	Last Date of Downloading of Documents	13/09/2019	03:00 PM
7.	Bid Submission End Date	13/09/2019	03:00 PM
8.	Bid Opening Date	16/09/2019	11:00 AM

SCHEDULE OF REQUIREMENTS (SCOPE OF WORK)

The scope of work of the successful bidder (hereinafter referred to as contractor) at ISI Delhi Centre (hereinafter referred to as ISID) under the tender includes:

1. Miscellaneous works related to Maintenance/minor works (addition/alteration/replacement) of buildings in Indian Statistical Institute, Delhi Centre, New Delhi – 110016
2. Civil Maintenance will also include in its scope works such as – Earth work, Concrete work, Brick work, Mortar and Granite work, Wood and PVC work, Steel work, Flooring work, Roofing work, Finishing work, Repairs to buildings, Dismantling and demolishing work, Sanitary installation work, Water supply work, Aluminium work, Water-proofing work etc.
3. The contractor shall deploy his own material, manpower, tools and equipment.
4. The deployed agency or its deployed manpower will not be provided with any residential accommodation at the work place or transportation to or from workplace.
5. No freight charges for transport of materials to ISID premises or cost of labour will be provided by ISID.
6. Store room, if required, may be provided to the contractor as per the convenience of ISID.

TERMS AND CONDITIONS OF CONTRACT

1. PERIOD OF VALIDITY OF THE CONTRACT

The contract shall remain valid for a period of one year from the date of commencement of the contract, extendable on yearly basis for a maximum period of two more years, depending upon the performance of the agency and need of ISID and compliance with Terms and Conditions by the contractor.

2. ELIGIBILITY CRITERIA

In order to be eligible for bidding, the Tendering firm must possess the following :

- a) A valid PAN card
- b) A valid GST Registration Certificate
- c) Copies of Income Tax Returns filed in the last 3 years
- d) Work Order/Completion Certificate of execution of one similar type of work of Civil maintenance of a contract value not less than Rs. 5 (Five) lakhs during the last three years
- e) Details of the previous clients including Name, Address of the Firm and Contact Number.

3. TERMS OF PAYMENT

Payment will be released to the contractor on job basis/monthly basis within 07 (seven) days of receipt of bill after the execution of awarded work, subject to satisfactory performance and submission of all relevant documents including a Completion Certificate from Engineer (Civil), ISID,4 as mentioned in the contract. No advance payment will be made to the contractor under any circumstances.

4. EMD

The EMD amount of Rs. 24,000/- (Rs. Twenty Four Thousand only) has to be submitted by way of Demand Draft drawn on any Scheduled Commercial Bank in favour of **Indian Statistical Institute, Delhi Centre**. Payment by any other mode will not be accepted. The DD shall be sent in a closed cover superscribing the words "EMD for Civil AMC Tender at ISI Delhi Centre" well in advance so as to reach the D.C.E (Admin), Indian Statistical Institute, Delhi Centre, 7, S.J.S. Sansanwal Marg, New Delhi – 110016 before the last date of submission of Tender. EMD of the tendering firms who submit the Tender but withdraw the same before expiry of the Tender validity date may be forfeited at the discretion of ISID.

5. SECURITY DEPOSIT

Payments shall be made based on the satisfactory actual work done and based on the actual measurement, after deduction of 5%, which shall be kept as security to cover the defects liability for a period of six months from the date of completion. During this period, in case any defect is detected in the executed job then the same shall be got rectified immediately by the contractor at no extra payment. The security deposit so submitted shall bear no interest. The Security Deposit will be forfeited if the contractor fails to execute the work partially or fully according to the terms and conditions of LOI/ Work Order for any reason whatsoever.

6. RATES

The rates quoted in Annexure B are as per CPWD's DSR-2018. Rates should be quoted on **% above/below** basis in the enclosed Performa as per Annexure B attached with the Tender document. For items not covered within the scope of the Tender, the rates should be **% above/below DSR rates** as quoted in the tender document. All rates should be inclusive of GST. Rates will remain fixed during the currency of the contract, even if there is a variation in the Cost Index.

7. EMPLOYMENT OBLIGATION

There will be no Employer-Employee relationship whatsoever between ISID and the workers to be deployed by the contractor under the contract and no claim for any employment will be entertained or tenable. The contractor shall render the services to ISID as an independent contractor and it shall be the sole responsibility of the contractor to regulate their terms of employment with the engaged persons without any liability whatsoever on ISID. The contractor shall comply with all the relevant Acts, Rules, Laws and other statutory provisions, regulations, by-laws etc. in connection with execution of the work which are currently in force or to be enforced/revised by the Government from time to time.

8. AWARD OF CONTRACT

ISID will award the contract to the bidder whose Bid has been determined to be substantially responsive and who has offered the lowest evaluated tender price.

Notwithstanding the above, ISID reserves the right to seek previous Work Orders, references etc. and to accept or reject any quotations and to cancel the process and reject all tenders at any time prior to award of contract.

The bidder whose rate is accepted will be notified for the award of contract by ISID prior to expiry of the Tender validity period. The terms and conditions stipulated in the Tender document shall be fully applicable to the resultant contract and taken as an integral part of the contract concluded on the basis of this Tender Enquiry.

Contract will be awarded to the firm offering the lowest/Net Bundled price and not with the reference to the lowest prices quoted for the sub-items. The issuance of Work Order will depend upon the requirement of the ISID and on actual basis.

In case two firms quote the same rate (that is, % above/below to CPWD's DSR-2018), then the total tendering process will be cancelled.

9. DISCIPLINE

The contractor shall maintain strict discipline among their workforce and shall review their performance at regular intervals. Personnel employed by the contractor, who are found to be indisciplined or whose performance is not satisfactory, as noticed by the contractor or as reported by the authorized officer of ISID, shall be replaced by the contractor immediately without causing any disruption in the assigned work. The contractor shall be solely and fully responsible and liable for the act, conduct and behavior of their personnel. In case of any misconduct and/or criminal activities by any of their personnel, the matter will be brought to the notice of the contractor by ISID for necessary action. The contractor shall remain liable for any damage caused to the property or person of ISID by any person engaged by him. In addition, ISID reserves the right to initiate legal proceedings against such person or persons and/or the contractor for recovery of damages so caused.

10. PENALTY

In the event the contractor fails to comply with any of the clauses of the contract or any other statutory requirement that is binding upon him, ISID shall deduct an amount equal to 10% from the running bill.

In case of financial loss/liability incurred due to negligence/default on the part of the contractor or his staff, non-compliance of the provisions of the applicable Acts/statutes/Legislation/Rules or regulations relevant to the contract, ISID reserves the right to recover such monetary losses from the running bills/security deposit of the contractor.

The contractor shall maintain a high quality of work under the scope of the contract. If any defect in quality is noticed, then the same shall be got rectified by him within 48 hours at his own cost.

The successful bidder has to start the work within 24 hours of issuance of Work Instruction and complete the work within the time frame as stipulated by the Engineer (Civil) of ISID, failing which, ISID will recover **Compensation for Delay of work @ 1% per month of delay to be computed on per day basis of the Tendered Value of work/total amount of bill.**

11. STATUTORY DEDUCTIONS

All the statutory deductions towards GST / Income Tax etc. shall be made from the bill/s as applicable as per the prevailing rates under the rules. TDS as applicable will be deducted from each bill of the contractor under the statutory rules of the Union Govt., in respect of Income Tax and other taxes. No claim on account of any other statutory charges for execution of work awarded under this contract will be entertained by ISID and such charges should be paid by the contractor himself.

12. INDEMNIFICATION

ISID shall have no liability whatsoever towards the persons deployed by the contractor for the subject of work. The contractor shall keep ISID indemnified against all losses/damages/liabilities/claims arising out of deployment of the contractor's workers during the period of the contract. Any claim which may arise during the currency of the contract or at any subsequent point of time, shall be the sole responsibility of the contractor and ISID shall in no way be held responsible for it.

13. LIABILITY AGAINST LOSS OR DAMAGE TO LIFE OR PROPERTY

The contractor shall be liable to pay ISID for any loss/damage caused as a result of theft/pilferage of any property of ISID from the premises where the staffs of the contractor have been deployed, provided such loss/damage is due to the negligence of the contractor or its deployed manpower.

The contractor shall also be liable for the consequences of any incident of major/minor injury or accident or death caused to any of its worker arising out of or in the course of his employment under the scope of the contract.

ISID shall not be responsible for any injury or loss of life in respect of the contractor that may take place while on work. Any compensation or expenditure towards treatment for such injury or loss of life shall be the sole responsibility of the contractor. The contractor shall be solely responsible for any damage, injury or accident that may occur to any of his personnel working under his contract. No claim whatsoever arises to ISID.

14. LIQUIDATED DAMAGES

If the contractor fails to execute the contract either in full or in part or fails to observe the terms and conditions set hereinabove or hereinbelow, the entire loss/damage sustained by ISID shall be reimbursed by the contractor and/or will be recovered from the contractor's running bills. In case of financial loss/liability incurred due to the negligence/default of the contractor, the same will be recovered from the contractor's running bills.

15. TERMINATION OF THE CONTRACT IN FULL OR IN PART

The contract will be automatically terminated upon the expiry of the period of the contract. The contract may also be terminated by either of the parties after serving a notice of one month to the other party or payment of charges in lieu thereof. Any complaints pending on the day of giving notice and also before the expiry of the notice served shall have to be attended in accordance with the terms and conditions of the contract.

ISID may terminate the contract in full or part, subject to the said provision, in case of failure/neglect/default/refusal on the part of the contractor to perform satisfactorily as per the scope of the contract. In such an event, ISID reserves the right to get the balance work executed through alternate source(s) at the risk and cost of the contractor and the security deposit of the contractor shall stand forfeited. Further, in the event of termination, the contractor shall vacate the site/premises peacefully and remove the personnel deployed by him within the stipulated period as decided by ISID. The decision of ISID authority in this regard shall be final and binding upon the contractor.

In case of breach of any of the terms & conditions of the agreement, the Institute shall be at liberty to terminate the contract forthwith without prejudice to the right of the Institute to claim damages on account thereof and the Contractor and his personnel shall vacate the area of operation for this purpose on the expiry of such period. In the event of such termination of the contract, the refund of Security Deposit would be subject to deduction of any dues, penalties or other recoveries etc.

16. FORECLOSURE OF CONTRACT IN FULL OR IN PART

If at any time after issuance of work order, ISID decides to foreclose or reduce the scope of the work and hence not require the whole or any part of the work to be carried out by the contractor, ISID shall give 10 days' notice in writing to that effect to the contractor. In case any such action is taken by ISID, the contractor shall be paid full amount for the quantum of work executed till the date of foreclosure. No compensation, however, shall be paid by ISID for the period of work not executed.

17. FORCE MAJEURE

If at any time during the continuance of this contract, the performance in whole or part is prevented or delayed by reason of war, an act of terrorism, act of hostility by public enemy, civil disruption or sabotage, fire, explosions, epidemics, quarantine restrictions, strikes, lock-outs or natural calamities like flood, earthquake or severely inclement weather, provided notice of the happening of any such eventuality is given by either party to the other within 2 days from the date of occurrence thereof, neither party shall by reasons of such event be entitled to terminate this contract nor shall either party have any claim for damages against the other in respect of such non-performance or delay in performance/execution under the contract. Provided also that such performance/execution under the contract should commence as soon as practicable, after such event comes to an end or ceases to exist, and the decision of ISID as to whether the performance has been so resumed or not shall be final and conclusive. Provided further that if the performance in whole or in part of the execution under this contract is prevented or delayed by reasons of any such event for a period exceeding 60 days, either party may opt to terminate the contract.

18. SUBLETTING / SUBCONTRACTING

Subletting or subcontracting of the contract, either in full or part, is not allowed under any circumstance. In other words, the contractor shall not enter into any sub-contract with any person or transfer the contract or any benefit thereunder to any person or firm without written permission and approval of ISID.

19. RESOLUTION OF DISPUTES

- (a) Save where expressly stated to the contrary in this contract, any dispute, difference or controversy of whatsoever nature between the parties, however arising under, out of or in relation to this contract including disputes, if any, with regard to any act, decision or opinion of any of the party and so notified in writing by either party to the other, the "Dispute" shall in the first instance be attempted to be resolved amicably in accordance with the procedure set forth in para (b) below.

- (b) Either party may require such Dispute to be referred to the concerned officials of ISID and the contractor for amicable settlement. Upon such reference, the two shall meet at the earliest opportunity as per their mutual convenience and in any event within fifteen (15) days of such reference to discuss and attempt to amicably resolve the dispute by mutual consultation. If the dispute is not amicably settled within fifteen (15) days of such meeting, either party may refer the dispute to arbitration in accordance with the provisions of arbitration clause. In such an eventuality, the party intending to start arbitration shall have to give notice to the other party of its intention to commence arbitration as per the Indian Arbitration and Conciliation Act, 2015.

20. ARBITRATION

1. In the event of any question, dispute/difference arising under the agreement or in connection herewith (except as to matters the decision of which is specially provided under this contract) the same shall be referred to the sole Arbitration of the Head, ISI, Delhi Centre or his nominee.
2. The decision of the Arbitrator shall be final and binding on the parties. In the event of such Arbitrator to whom the matter is originally referred is unable to act for any reason whatsoever, the Head, ISI Delhi Centre shall appoint another person to act as the Arbitrator in place of the original Arbitrator in accordance with the terms of this agreement. The Arbitrator so appointed shall be entitled to proceed with the reference from the stage which was left by his predecessor or afresh as the case may be. The Arbitrator may give interim award and/or directions, as may be required.
3. Subject to the aforesaid provisions, the Arbitration & Conciliation Act, 2015 and the rules made thereunder and any modification thereof from time to time being in force, shall be deemed to apply to the Arbitration proceedings under this clause.

21. MISCELLANEOUS

- (i) The workers to be deployed by the contractor should be physically fit and not be suffering from any chronic disease/ailment. They should be of sound physical and mental health and should be free from any physical disability which would interfere in the normal discharge of their duties.
- (ii) The contractor shall deploy adequate manpower as per actual requirements. It will be the responsibility of the contractor to supervise the work of the personnel deployed by him and ensure fast and speedy disposal of work without compromising on the quality of the work.
- (iii) The contractor shall be fully responsible for the safe custody of the materials/equipment/documents relevant to the contract till handing over the materials/documents to the authorized officer of ISID.
- (iv) The contractor is responsible for any accident during duty hours at work site. All medical treatment/medical expenditure incurred for the treatment of the injured worker shall be borne by the contractor.
- (v) ISID reserves the right to award parallel contract or award part of the work to other agency(s) in the event of failure of the contractor to perform the functions as per the WO to the satisfaction of ISID and the same will be at the risk and cost of the contractor.
- (vi) The works shall be strictly carried out as per the latest CPWD specification of work and works manual under the supervision of Engineer (Civil).
- (vii) After finishing of work, Debris (*Malba*), if any, shall be removed by the bidder at his own cost.

22. JURISDICTION

The legal jurisdiction of the contract shall be the High Court of Delhi only.

23. CONTRACT AGREEMENT

The contractor shall execute a formal agreement with ISID on a Non-Judicial Stamp paper of Rs. 100/- within a period of 15 days of the issuance of work order.

INDIAN STATISTICAL INSTITUTE
DELHI CENTRE
NEW DELHI – 110 016

DETAILS OF THE BIDDER

Sl. No.	Descriptions	Information to be filled by the tenderer (if required separate sheet may be enclosed)	
1.	Name and address of firm/agency with complete contact details		
2.	Type of Organisation (whether proprietorship, partnership, private limited, limited company)		
3.	Name and address of the Directors, Proprietor/Partners		
4.	Year of formation of the company and years of experience in works of similar nature		
5.	Details of registration of the Firm/Company	R. No.	Copy enclosed: Y / N
6.	GST No./Certificate	No.:	Copy enclosed: Y / N
7.	PAN No.	No.:	Copy enclosed: Y / N
8.	Any other information		

Copies of relevant documents are to be enclosed in support of the above information.

List of major clients, including Govt. Organisations/ Academic Institutions where the bidder has executed similar nature of works:

Sl. No.	Name of client with contact details	Nature of Works	Period	Contract value
1.				
2.				
3.				
4.				
5.				

Copies of relevant work order/ experience certificate are to be enclosed in support of above information.

Undertaking

I hereby certify that all the information furnished is true to the best of my knowledge. I have no objection to the Institute verifying any or all the information furnished in this document with the concerned authorities, if necessary. I also understand that if any of the information is found false at any stage, I am liable to be deregistered from the panel of approved contractors or banned from doing any business dealings with Government Departments or blacklisted or subject to monetary penalties as deemed fit by ISID.

I also certify that I have read and understood all the scope of work, terms and conditions indicated in the tender document and hereby accept all of the same unconditionally.

I agree to the forfeiture of EMD if I fail to comply with all or any of the terms and conditions as laid down in the Tender Enquiry No., which would constitute to have force of a contract between me and ISID if I am declared as a successful bidder.

I also certify that I have signed all the pages of the Tender document with my conscious knowledge.

**Signature of the authorized signatory of the agency
Official seal/Stamp**

Annexure B

**Indian Statistical Institute
Delhi Centre**

Subject:- Item wise Annual Rate Contract for Miscellaneous works related to Maintenance/minor works(addition/alteration/replacement) of buildings in Indian Statistical Institute, Delhi Centre, New Delhi – 110016 for a period of one year from the date of commencement of the contract

SCHEDULE OF QUANTITIES					
DSR-2018					
I.No.	DSR Code	Description of Item	Quantity	Unit	Rate (Rs)
		Sub-Head : Earth Work			
1	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 up to 1.5 m, as directed by Engineer-in-Charge:			
	2.1.1	All kinds of soil	1.00	Sqm	92.55
2	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth, lead up to 50m and lift up to 1.5m,as directed by Engineer-in-Charge.			
	2.6.1	All kinds of soil	1.00	Cum	181.85
3	2.7	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth, lead up to 50 m and lift up to 1.5m, as directed by Engineer-in-Charge.			
	2.7.1	Ordinary rock	1.00	cum	352.45
	2.7.2	Hard rock (requiring blasting)	1.00	cum	609.65
	2.7.3	Hard rock (blasting prohibited)	1.00	cum	1016.20
4	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, lift up to 1.5 m, 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.	1.00	cum	252.30

5	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, 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.	1.00	meter	223.00
	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	1.00	meter	364.20
	2.10.1.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm.	1.00	meter	568.60
6	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	1.00	cum	219.65
7	2.25(a)	Excavating, supplying and filling of local earth (including royalty) by mechanical transport up to a lead of 5 km, also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc., complete.	1.00	cum	323.90
8	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	1.00	cum	1963.05
9	2.28	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift upto1.5 m.			
	2.28.1	All kinds of soil.	1.00	Sqm	24.35
10	2.29	Ploughing the existing ground to a depth of 15 cm to 25 cm and watering the same.			
	2.29.1	All kinds of soil.	1.00	Sqm	24.65
11	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50m outside the periphery of the area cleared.	1.00	Sqm	12.55
12	2.32	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	1.00	Sqm	6.40
		Sub-Head : Concrete Work			
13	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :			

	4.1.2	1:1½:3 (1 Cement: 1½ coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	1.00	Cum	7210.55
	4.1.3	1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 20 mm nominal size)	1.00	Cum	6788.60
	4.1.4	1:2:4 (1 Cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 40 mm nominal size).	1.00	Cum	6680.20
	4.1.5	1:3:6 (1 Cement : 3 coarse sand(zone-III) : 6 graded stone aggregate 20 mm nominal size).	1.00	Cum	6259.10
	4.1.6	1:3:6 (1 Cement : 3 coarse sand(zone-III) : 6 graded stone aggregate 40 mm nominal size).	1.00	Cum	6126.25
	4.1.8	1:4:8 (1 Cement : 4 coarse sand(zone-III) : 8 graded stone aggregate 40 mm nominal size).	1.00	Cum	5789.60
	4.1.10	1:5:10 (1 cement : 5 coarse sand(zone-III) : 10 graded stone aggregate 40 mm nominal size)	1.00	Cum	5520.30
	4.1.11	1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size)	1.00	Cum	5225.15
	4.1.12	1:2:3½:9 (1 ordinary portland cement : 2 Fly ash : 3½ coarse sand(zone-III) : 9 graded stone aggregate 40 mm nominal size).	1.00	Cum	5629.15
	4.1.13	1:2½:4:11 (1 ordinary portland cement : 2½ fly ash : 4 coarse sand(zone-III) : 11 graded stone aggregate 40 mm nominal size)	1.00	Cum	5301.45
14	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor, etc., up to floor five level, excluding the cost of centering, shuttering and finishing :			
	4.2.2	1:1½:3 (1 cement : 1½ coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	1.00	Cum	8976.45
	4.2.3	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	1.00	Cum	8554.50
	4.2.5	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	1.00	Cum	8025.00
	4.2.8	1:5:10 (1 cement : 5 coarse sand(zone-III) : 10 graded stone aggregate 40 mm nominal size).	1.00	Cum	7273.25
	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :			
	4.3.1	Foundations, footings, bases for columns.	1.00	Sqm	284.85
	4.3.2	Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc..	1.00	Sqm	609.30
	4.3.3	Columns, piers, abutments, pillars, posts and struts.	1.00	Sqm	733.70
15	4.4	Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centering, shuttering and finishing.			

	4.4.1	1:1½:3 (1 Cement : 1½ coarse sand(Zone III) : 3 graded stone aggregate 20 mm nominal size).	1.00	Cum	7210.55
16	4.5	Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc. including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3coarse sand), cost of required centering complete.			
	4.5.1	1:1.5:3 (1 cement : 1.5 coarse sand(Zone III) : 3 graded stone aggregate 20mm nominal size).	1.00	Cum	8537.75
		DAMP - PROOF COURSE			
17	4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand(Zone III) : 4 graded stone aggregate 12.5mm nominal size).	1.00	Sqm	347.90
18	4.11	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand(Zone III) : 4 graded stone aggregate 20mm nominal size).	1.00	Sqm	418.90
		Sub-Head : Reinforced Cement Concrete			
19	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :			
	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	1.00	Cum	7718.25
	5.1.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	1.00	Cum	7296.35
20	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :			
		1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	1.00	Cum	9306.00
		form Work			
21	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :			
	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete.	1.00	Sqm	284.85
	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	1.00	Sqm	609.30
	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	1.00	Sqm	693.05
	5.9.4	Shelves (Cast in situ).	1.00	Sqm	693.05
	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	1.00	Sqm	552.05
	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts.	1.00	Sqm	733.70

	5.9.7	Stairs, (excluding landings) except spiral-staircases.	1.00	Sqm	622.35
		Sub-Head : Brick Work/Masonry Work			
22	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)	1.00	Cum	6376.25
	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	1.00	Cum	6157.45
23	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)	1.00	Cum	5495.15
	6.2.2	Cement Mortar 1:6 (1 cement : 6 coarse sand).	1.00	Cum	5302.60
24	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)	1.00	Cum	7809.25
	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	1.00	Cum	7590.45
25	6.44	Brick edging 7cm wide 11.4cm. deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	1.00	metre	52.00
		Sub-Head : Marble & Granite Work			
26	8.1	Marble work gang saw cut (polished and machine cut) of thickness 18mm 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 paid for separately).			
	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	1.00	Sqm	4439.40
	8.1.1.2	Area of slab over 0.50 sqm	1.00	Sqm	4615.65
27	8.2	Providing and fixing 18mm 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 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.			
	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.	1.00	Sqm	2777.40
	8.2.1.2	Area of slab over 0.50 sqm.	1.00	Sqm	2552.65

	8.2.2	Granite of any colour and shade			
	8.2.2.1	Area of slab upto 0.50 sqm	1.00	Sqm	4217.35
	8.2.2.2	Area of slab over 0.50 sqm.	1.00	Sqm	4007.65
28	8.3	Providing edge moulding to 18mm 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	1.00	metre	220.35
	8.3.2	Granite work.	1.00	metre	376.25
29	8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	1.00	Sqm	1030.30
		Sub-Head : Wood and P.V.C. Work			
30	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	1.00	Cum	130183.05
	9.1.2	Sal wood	1.00	Cum	105327.20
	9.1.3	Kiln seasoned and chemically treated hollock wood.	1.00	Cum	71746.40
31	9.9	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes, including 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	1.00	Sqm	4353.75
	9.9.1.2	30 mm thick	1.00	Sqm	3961.20
	9.9.2	Kiln seasoned and chemically treated hollock wood.			
	9.9.2.1	35 mm thick	1.00	Sqm	2951.35
	9.9.2.2	30 mm thick	1.00	Sqm	2753.80
	9.9.3	Kiln seasoned selected planks of sheesham wood.			
	9.9.3.1	35 mm thick	1.00	Sqm	3874.15
	9.9.3.2	30 mm thick	1.00	Sqm	3547.75
32	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.	1.00	Sqm	3794.85

	9.16.1.2	Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws.	1.00	Sqm	3937.20
	9.16.2	Glazed shutters :			
	9.16.2.1	Second class teak wood including ISI marked anodized aluminium butt hinges with necessary screws.	1.00	Sqm	3646.15
	9.16.2.2	Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws.	1.00	Sqm	3684.65
33	9.17	Providing and fixing flat pressed 3 layer particle board medium density exterior grade (Grade I) or graded wood particle board IS : 3087 marked, to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately) :			
	9.17.1	12 mm thick	1.00	Sqm	643.50
	9.17.2	18 mm thick	1.00	Sqm	915.60
34	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	1.00	Sqm	1193.20
	9.18.2	25 mm thick	1.00	Sqm	1548.45
35	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.	1.00	Sqm	3023.95
	9.20.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	1.00	Sqm	2756.35
	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.	1.00	Sqm	2464.70
36	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 :			
	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	1.00	Sqm	1886.70
	9.21.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	1.00	Sqm	1819.80

	9.21.3	25mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws.	1.00	Sqm	1782.35
37	9.26	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	1.00	Sqm	93.65
38	9.28	Providing and fixing plywood 4 mm thick one side decorative veneer conforming to IS: 1328 (type-1) for plain lining / cladding with necessary screws, including priming coat on unexposed surface with:			
	9.28.1	Decorative veneer facings of approved manufacture.	1.00	Sqm	1551.00
39	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	1.00	Meter	184.60
	9.40.1.2	50 x 20 mm	1.00	Meter	232.15
	9.40.2	Kiln seasoned and chemically treated hollock wood.			
	9.40.1.1	50x12 mm	1.00	Meter	149.20
	9.40.2.2	50x20 mm	1.00	Meter	173.15
40	9.42	Providing and fixing 18 mm thick, 150 mm wide pelmet of flat pressed 3 layer or graded wood particle board medium density grade I, 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.	1.00	Meter	505.95
41	9.46	Providing and fixing curtain rods of 1.25 mm thick chromium plated brass plate, with two chromium plated brass brackets fixed with C.P. brass screws and wooden plugs, etc., wherever necessary complete :			
	9.46.1	12 mm dia.	1.00	Meter	272.80
	9.46.2	20 mm dia.	1.00	Meter	373.15
	9.46.3	25 mm dia.	1.00	Meter	480.15
42	9.47	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets :			
	9.47.1	20 mm dia (heavy type)	1.00	Meter	155.65
	9.47.2	25 mm dia (heavy type)	1.00	Meter	162.35
43	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.	1.00	Sqm	1448.35

44	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 2nd class teak wood beading 62X19 mm.	1.00	Sqm	1133.35
	9.51.2	With 12 mm mild steel U beading.	1.00	Sqm	781.25
45	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.	1.00	Sqm	173.95
46	9.61	Providing M.S. Piano hinges ISI marked IS : 3818 finished with nickel plating and fixing with necessary screws etc., complete.			
		Overall width 35 mm.	1.00	Meter	270.95
		Overall width 50 mm.	1.00	Meter	265.60
		Overall width 65 mm.	1.00	Meter	281.65
47	9.67	Providing and fixing oxidised M.S. hasp and staple (safety type) conforming to IS : 363 with necessary screws etc. complete :			
	9.67.1	150 mm	1.00	each	28.75
	9.67.2	115 mm	1.00	each	25.60
	9.67.3	90 mm	1.00	each	21.70
48	9.68	Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.			
	9.68.1	300 mm weighing not less than 200 gms.	1.00	No.	58.80
	9.68.2	250 mm weighing not less than 150 gms.	1.00	No.	51.40
	9.68.3	200 mm weighing not less than 120 gms.	1.00	No.	44.70
49	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.	1.00	each	1003.50
50	9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	1.00	each	851.60
51	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	1.00	Each	136.60
	9.95.2	125x63x4 mm	1.00	Each	114.25
	9.95.3	100x75x4 mm	1.00	Each	104.90
	9.95.4	100x63x4 mm	1.00	Each	95.65
	9.95.5	100x63x3.2 mm	1.00	Each	88.45

	9.95.6	75x63x4 mm	1.00	Each	77.10
	9.95.7	75x63x3.2 mm	1.00	Each	70.55
	9.95.8	75x45x3.2 mm	1.00	Each	66.50
52	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	1.00	Each	257.15
	9.96.2	250x16 mm	1.00	Each	231.70
53	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	1.00	Each	116.80
	9.97.2	250x10 mm	1.00	Each	103.55
	9.97.3	200x10 mm	1.00	Each	90.00
	9.97.4	150x10 mm	1.00	Each	75.00
	9.97.5	100x10 mm	1.00	Each	58.15
54	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	1.00	Each	59.65
	9.100.2	100 mm	1.00	Each	52.85
	9.100.3	75 mm	1.00	Each	45.90
55	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	1.00	Each	33.95
	9.101.2	Twin rubber stopper	1.00	Each	62.05
56	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.	1.00	Each	62.55
57	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.	1.00	meter	78.85
58	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.	1.00	Each	637.05

59	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	1.00	Each	39.05
	9.114.2	Double strip (horizontal type)	1.00	Each	31.05
60	9.116	Providing and fixing sliding arrangement in racks/ cupboards/cabinets shutter by with stainless steel rollers to run inside C or E aluminium channel section (The payment of C or E channel shall be made separately)	1.00	Each	14.80
61	9.122	Providing and fixing to existing door frames.			
	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.	1.00	sqm	3465.05
	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.	1.00	sqm	3391.95
62	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.	1.00	Sqm	842.75
	9.127.2	1.0 mm thick.	1.00	Sqm	717.65
63	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 1.4mm in both directions with wire of dia. 0.50 mm all complete.			
	9.135.1	With 2nd class teak wood beading 62X19 mm.	1.00	Sqm	1353.60
	9.135.2	With 12 mm mild steel U beading.	1.00	Sqm	1001.50
		Sub-Head : Steel Work			

64	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.	1.00	Kg	86.05
65	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.	1.00	Kg	101.75
66	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.	1.00	Kg	143.45
	10.16.2	Hot finished seamless type tubes.	1.00	Kg	157.50
	10.16.3	Electric resistance or induction butt welded tubes.	1.00	Kg	129.35
67	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.	1.00	Kg	93.65
	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	1.00	Kg	131.00
68	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.	1.00	Kg	145.65
	10.26.2	E.R.W. tubes.	1.00	Kg	138.15
	10.26.3	G.I. pipes	1.00	Kg	158.00
69	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/mm ²), counter sunk head, comprising of 10 m 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	1.00	Each	103.65
	10.27.2	10 x 80 mm	1.00	Each	109.00
	10.27.3	10 x 120 mm	1.00	Each	134.25
	10.27.4	10 x 140 mm	1.00	Each	145.65
	10.27.5	10 x 160 mm	1.00	Each	178.90

70	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.)	1.00	Kg	575.45
71	10.29	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15 x 3mm and nuts & bolts complete.			
	10.29.1	Galvanised M.S. Wire gauze with 0.63mm dia wire and 1.4 mm aperture on both sides.	1.00	Sqm	709.30
	10.29.2	Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides.	1.00	Sqm	929.55
		Sub-Head : Flooring			
72	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	1.00	Sqm	498.35
73	11.13	Providing and fixing glass strips in joints of terrazzo/ cement concrete floors.			
	11.13.1	40 mm wide and 4 mm thick.	1.00	meter	75.15
74	11.41	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 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete.			
	11.41.1	Size of Tile 500x500 mm	1.00	Sqm	1267.80
	11.41.2	Size of Tile 600x600 mm	1.00	Sqm	1500.55
	11.41.3	Size of Tile 800x800 mm	1.00	Sqm	1758.70
	11.41.4	Size of Tile 1000x1000 mm	1.00	Sqm	2499.25
75	11.42	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles and jointing with grey cement slurry @ 3.3kg/sqm	1.00	Sqm	677.55
76	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 3mm thickness.	1.00	Sqm	587.20

77	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	1.00	Sqm	1501.25
	11.47.2	Size of Tile 600x600 mm	1.00	Sqm	1734.00
	11.47.3	Size of Tile 800x800 mm	1.00	Sqm	1994.95
	11.47.4	Size of Tile 1000x1000 mm	1.00	Sqm	2735.50
78	11.48	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling/grouting and finishing complete as per direction of Engineer-in-charge.			
	11.48.1	Size of Tile 500x500 mm	1.00	Sqm	291.00
	11.48.2	Size of Tile 600x600 mm	1.00	Sqm	241.45
	11.48.3	Size of Tile 800x800 mm	1.00	Sqm	191.85
	11.48.4	Size of Tile 1000x1000 mm	1.00	Sqm	137.35
79	11.50	Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles	1.00	Sqm	-11.00
		Sub-Head : Roofing			
80	12.21	Providing gola 75x75mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design			
	12.21.1	In 75x75mm deep chase	1.00	meter	237.25
81	12.38	Providing and fixing M.S. holder bat clamps of approved design to C.I. or S.C.I. rain water pipes embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and cost of cutting holes and making good the walls etc. :			
	12.38.1	100 mm diameter	1.00	each	287.45
	12.38.2	150 mm diameter	1.00	each	307.50
82	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion,			
		(i) Single socketed pipes.			
	12.41.1	75 mm diameter	1.00	meter	201.10
	12.41.2	110 mm diameter	1.00	meter	305.05

83	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion.			
	12.42.1	Coupler			
		75mm	1.00	Each	77.85
		110mm	1.00	Each	117.80
	12.42.2	Single pushfit Coupler :			
		75mm	1.00	Each	77.85
		110mm	1.00	Each	108.45
	12.42.3	Single tee with door			
		75x75x75 mm	1.00	Each	139.85
		110x110x110 mm	1.00	Each	203.30
	12.42.4	Single tee without door			
		75x75x75 mm	1.00	Each	122.45
		110x110x110 mm	1.00	Each	188.55
	12.42.5	Bend 87.5°			
		75 mm bend	1.00	Each	89.90
		110 mm bend	1.00	Each	129.85
	12.42.6	Shoe (Plain)			
		75 mm Shoe	1.00	Each	79.20
		110 mm Shoe	1.00	Each	113.80
		Sub-Head : Finishing			
84	13.1	12 mm cement plaster of mix : (in fine sand)			
	13.1.1	1:4 (1 cement: 4 fine sand)	1.00	Sqm	266.85
	13.1.2	1:6 (1 cement: 6 fine sand)	1.00	Sqm	254.25
85	13.4	12 mm cement plaster of mix : (in course sand)			
	13.4.1	1:4 (1 cement: 4 coarse sand)	1.00	Sqm	276.15
	13.4.2	1:6 (1 cement: 6 coarse sand)	1.00	Sqm	263.55
86	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)	1.00	Sqm	318.95
	13.5.2	1:6 (1 cement: 6 coarse sand)	1.00	Sqm	303.90
87	13.6	20 mm cement plaster of mix :			
	13.6.1	1:4 (1 cement: 4 coarse sand)	1.00	Sqm	379.70
	13.6.2	1:6 (1 cement: 6 coarse sand)	1.00	Sqm	360.10
88	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)	1.00	Sqm	340.85
	13.7.2	1:4 (1 cement: 4 fine sand)	1.00	Sqm	328.25
89	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)	1.00	Sqm	384.35
	13.8.2	1:4 (1 cement: 4 fine sand)	1.00	Sqm	369.30

90	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	1.00	Sqm	350.15
	13.9.2	20 mm cement plaster	1.00	Sqm	460.70
91	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.	1.00	Sqm	395.40
92	13.16	6 mm cement plaster of mix :			
		1:3 (1 cement: 3 fine sand)	1.00	Sqm	227.35
93	13.18	Neat cement punning	1.00	Sqm	62.75
94	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	1.00	Sqm	196.70
95	13.37	White washing with lime to give an even shade:			
96	13.41	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade.			
	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer.	1.00	Sqm	153.45
97	13.43	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :			
	13.43.1	Water thinnable cement primer.	1.00	Sqm	60.00
98	13.44	Finishing walls with water proofing cement paint of required shade :			
	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm).	1.00	Sqm	91.25
99	13.46	Finishing walls with Acrylic Smooth exterior paint of required shade :			
	13.46.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm).	1.00	Sqm	164.70
100	13.50	Applying priming coat :			
	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	1.00	Sqm	57.05
	13.50.2	With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood	1.00	Sqm	57.55
	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/steel works	1.00	Sqm	50.70
	13.50.4	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	1.00	Sqm	27.20
101	13.55	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture, over and including a priming of ready mixed zinc chromate yellow primer on new work :			
	13.55.1	100 mm diameter pipes	1.00	m	58.15

	13.55.2	150 mm diameter pipes	1.00	m	86.70
102	13.56	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour over a priming coat of approved steel primer on new work.			
	13.56.1	100 mm diameter pipes	1.00	m	63.70
	13.56.2	150 mm diameter pipes	1.00	m	94.85
103	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :			
	13.61.1	Two or more coats on new work.	1.00	Sqm	121.55
104	13.62	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:			
	13.62.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	1.00	Sqm	177.15
105	13.68	French spirit polishing :			
	13.68.1	Two or more coats on new works including a coat of wood filler.	1.00	Sqm	351.15
106	13.69	Polishing on wood work with ready mixed wax polish of approved brand and manufacture :			
	13.69.1	New work	1.00	Sqm	150.90
107	13.70	Floor polishing on masonry or concrete floors with wax polish of approved brand and manufacture.	1.00	Sqm	72.80
108	13.72	Washed stone grit plaster on exterior walls of height upto 10 metre above ground level, in two layers, under layer 12mm cement plaster 1:4 (1cement: 4 coarse sand), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15mm cement plaster 1:1/2:2 (1 cement: 1/2 coarse sand :2 stone chipping 10mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings, complete as per specification and direction of Engineer-in-charge (Payment for providing grooves shall be made separately).	1.00	Sqm	896.75
109	13.73	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer, including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specifications and direction of the Engineer-in-charge :			
	13.73.1	15 mm wide and 15 mm deep groove	1.00	m	57.15
	13.73.2	20 mm wide and 15 mm deep groove	1.00	m	57.75

110	13.74	Extra for washed grit plaster on exterior walls of height more than 10m from ground level for every additional height of 3 m or part thereof.	1.00	Sqm	129.65
111	13.75	Extra for washed stone grit plaster on circular work not exceeding 6m in radius (in two coats).	1.00	Sqm	101.10
112	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	1.00	Sqm	115.15
113	13.81	Distemping with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.			
	13.81.1	One coat.	1.00	Sqm	50.60
	13.81.2	Two coats.	1.00	Sqm	81.90
114	13.86	6 mm plaster on cement concrete or reinforced cement concrete work with white cement based polymer modified self curing mortar of approved make as per the direction of Engineer-In-Charge.	1.00	Sqm	205.50
115	13.87	White washing with lime to give an even shade :			
	13.87.1	Old work (two or more coats)	1.00	Sqm	16.75
	13.87.2	Old work (one or more coats)	1.00	Sqm	10.25
116	13.88	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	1.00	Sqm	14.20
117	13.89	Distemping with dry distemper of approved brand and manufacture (one or more coats) and of required shade on old work to give an even shade.	1.00	Sqm	49.55
118	13.91	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	1.00	Sqm	18.25
119	13.93	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture over and including a priming coat of ready mixed zinc chromate yellow primer on new work :			
	13.93.1	75 mm diameter pipes	1.00	meter	43.60
120	13.94	Painting (one or more coats) on rain water, soil waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture on old work :			
	13.94.1	75 mm diameter pipes	1.00	meter	45.15
	13.94.2	100 mm diameter pipes	1.00	meter	62.65
	13.94.3	150 mm diameter pipes	1.00	meter	93.35

121	13.96	Painting (one or more coats) on rain water, soil waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour on old work :			
	13.96.1	75 mm diameter pipes	1.00	meter	21.75
	13.96.2	100 mm diameter pipes	1.00	meter	27.95
	13.96.3	150 mm diameter pipes	1.00	meter	40.20
122	13.97	Painting with oil type wood preservative of approved brand and manufacture:			
	13.97.1	Old work (one or more coats)	1.00	sqm	33.90
123	13.98	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:			
	13.98.1	One or more coats on old work	1.00	sqm	84.65
124	13.99	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :			
	13.99.1	One or more coats on old work	1.00	sqm	79.95
125	13.111	Finishing walls with Acrylic Smooth exterior paint of required shade :			
	13.111.1	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	1.00	sqm	99.70
	13.111.2	Old work (One or more coat applied @ 0.90 ltr/10 sqm).	1.00	sqm	67.35
126	13.114	Melamine polishing on wood work (one or more coat).	1.00	sqm	110.75
		Sub-Head : Repairs to Buildings			
127	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 directions of Engineer-In-Charge.			
	14.1.1	With cement mortar 1:4 (1 cement : 4 fine sand).	1.00	Sqm	417.80
	14.1.2	With cement mortar 1:4 (1cement: 4 coarse sand).	1.00	Sqm	429.50
128	14.5	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:			
	14.5.1	Float glass panes of thickness 4 mm.	1.00	Sqm	890.50
	14.5.2	Float glass panes of thickness 5.5 mm .	1.00	Sqm	1184.85
129	14.9	Renewal of old putty of glass panes (length) .	1.00	m	42.60
130	14.10	Refixing old glass panes with putty and nails .	1.00	Sqm	554.05
131	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.	1.00	Kg	92.05

132	14.75	Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In- Charge.	1.00	Sqm	512.00
133	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 i/c malba, all complete as per the direction of Engineer-in charge.			
	14.80.1	Long pattern W.C Pan of size 580x440 mm	1.00	Each	2724.10
	14.80.2	Orissa pattern W.C Pan of size 580x440 mm	1.00	Each	3537.80
134	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.	1.00	Each	220.40
135	14.82	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge.	1.00	Each	55.45
136	14.83	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	1.00	Sqm.	1.50
137	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	1.00	Metre	2.70
		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.	1.00	each	297.85
		Sub-Head : Dismantling and Demolishing			
138	15.1	Demolishing lime concrete manually/ by mechanical means and disposal of material within 50 metres lead as per direction of Engineer in-charge	1.00	Cum	607.50
139	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 (i/c equivalent design mix)	1.00	Cum	1737.45
	15.2.2	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	1.00	Cum	1072.80

140	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 mud mortar	1.00	Cum	503.00
	15.7.2	In lime mortar with old mughal bricks	1.00	Cum	1271.95
	15.7.3	In lime mortar	1.00	Cum	607.50
	15.7.4	In cement mortar	1.00	Cum	1469.90
141	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	1.00	each	274.50
	15.12.2	Of area beyond 3 sq. metres	1.00	each	375.65
142	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	1.00	each	106.55
	15.13.2	Of area beyond 3 sq. metres	1.00	each	140.70
143	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	1.00	Sqm	54.85
	15.23.2	For thickness of tiles above 25 mm and up to 40 mm	1.00	Sqm	85.70
		Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead	1.00	Sqm	190.30
144	15.42	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead :			
	15.42.1	75 to 80 mm dia pipe.	1.00	Metre	54.00
	15.42.2	100 mm dia pipe	1.00	Metre	56.65
	15.42.3	150 mm dia pipe	1.00	Metre	57.30
145	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	1.00	Metre	108.15
	15.44.2	Above 40 mm nominal bore	1.00	Metre	117.75
146	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	1.00	Metre	299.05

	15.45.2	Above 150 mm dia up to 300 mm dia.	1.00	Metre	395.10
	15.45.3	Above 300 mm diameter	1.00	Metre	515.45
		Dismantling of flushing cistern of all types (C.I./PVC/Vitreous China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	1.00	Each	668.15
147	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.	1.00	Sqm	39.00
		Sub-Head : Sanitary Installations			
148	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required			
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	1.00	Each	5421.50
	17.1.2	Stainless Steel AISI-304(18/8) Orissa pattern W.C. pan of size 585x480 mm with flush pipe and integrated type foot rests.	1.00	Each	9836.70
149	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :			
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	1.00	Each	5260.95
	17.2.2	W.C. pan with ISI marked black solid plastic seat and lid	1.00	Each	5140.55
150	17.3	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :			
	17.3.1	W.C. pan with ISI marked white solid plastic seat and lid	1.00	Each	6685.00
	17.3.2	W.C. pan with ISI marked black solid plastic seat and lid	1.00	Each	6564.60
151	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:			
	17.1.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps.	1.00	Each	3087.70

	17.7.2	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap.	1.00	Each	2751.30
	17.7.3	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps.	1.00	Each	2846.90
	17.7.4	White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap.	1.00	Each	2510.45
	17.7.5	White Vitreous China Angle back wash basin size 600x480 mm with single 15 mm C.P. brass pillar tap.	1.00	Each	2751.30
	17.7.6	White Vitreous China Angle back wash basin size 400x400 mm with single 15 mm C.P. brass pillar tap.	1.00	Each	2349.90
	17.7.7	White Vitreous China Flat back wash basin size 450x300 mm with single 15 mm C.P. brass pillar tap.	1.00	Each	2196.05
	17.7.8	White Vitreous China Surgeon type wash basin of size 660x460 mm with a pair of 15 mm C.P. brass pillar taps with elbow operated levers.	1.00	Each	4052.35
	17.7.9	White Vitreous China Surgeon type wash basin of size 660x460 mm with single 15 mm C.P. brass pillar taps with elbow operated levers ISI marked.	1.00	Each	3417.55
	17.7.10	Stainless Steel AISI-304(18/8) Round basin 405x355 mm with single 15 mm C.P. brass pillar tap.	1.00	Each	3788.20
	17.7.11	Stainless Steel AISI-304(18/8) Wash basin 530x345 mm with single 15 mm C.P. brass pillar tap.	1.00	Each	4457.15
152	17.7A	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:-			
		(a) White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	1.00	Each	4403.80
153	17.9	Providing and fixing kitchen sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required:			
	17.9.1	White glazed fire clay kitchen sink of size 600x450x250 mm.	1.00	each	3163.25
154	17.10	Providing and fixing Stainless Steel A Isis 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :			
	17.10.1	Kitchen sink with drain board			
	17.10.1.1	510x1040 mm bowl depth 250 mm.	1.00	Each	5155.95
	17.10.1.2	510x1040 mm bowl depth 225 mm.	1.00	Each	5851.70
	17.10.1.3	510x1040 mm bowl depth 200 mm.	1.00	Each	5584.10
	17.10.1.4	510x1040 mm bowl depth 178 mm.	1.00	Each	5182.70
	17.10.2	Kitchen sink without drain board			
	17.10.2.1	610x510 mm bowl depth 200 mm.	1.00	Each	3631.55
	17.10.2.2	610x460 mm bowl depth 200 mm.	1.00	Each	2828.75

	17.10.2.3	470x420 mm bowl depth 178 mm.	1.00	Each	2628.10
155	17.13	Providing and fixing white vitreous china water closet squatting pan (Indian type) :			
	17.13.1	Long pattern W.C. pan of size 580 mm	1.00	Each	1541.05
	17.13.2	Orissa pattern W.C. pan of size 580x440 mm	1.00	Each	2544.50
156	17.15	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.	1.00	Each	2276.95
157	17.16A	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	1.00	Each	297.55
158	17.18	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.			
	17.18.1	10 litre capacity - White	1.00	Each	999.95
	17.18.2	10 litre capacity - coloured	1.00	Each	971.40
159	17.20	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :			
	17.20.1	White solid plastic seat with lid	1.00	Each	571.00
	17.20.2	Black solid plastic seat with lid	1.00	Each	450.60
	17.20.3	Coloured (other than black & white) solid plastic seat with lid	1.00	Each	557.65
160	17.22	Providing and fixing G.I. inlet connection for flush pipe connecting with W.C. pan.	1.00	Each	116.10
	17.22A	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	1.00	Each	883.05
	17.22B	Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge.			
		(a) 15 mm nominal dia	1.00	Each	6113.60
161	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.			
	17.28.1	Semi rigid pipe			
	17.28.1.1	32 mm dia	1.00	Each	87.70
	17.28.1.2	40 mm dia	1.00	Each	98.40
	17.28.2	Flexible pipe			
		32 mm dia	1.00	Each	101.10
		40 mm dia	1.00	Each	101.10
162	17.29	Providing and fixing 100 mm sand cast Iron grating for gully trap.	1.00	Each	45.00
163	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	1.00	Each	1283.05

164	17.32	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :			
	17.32.1	Circular shape 450 mm dia.	1.00	Each	1242.00
	17.32.2	Rectangular shape 453x357 mm	1.00	Each	1120.25
	17.32.3	Oval shape 450x350 mm (outer dimensions)	1.00	Each	1185.60
	17.32.4	Rectangular shape 1500x450 mm	1.00	Each	1786.55
165	17.33	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	1.00	Each	841.80
	17.34	Providing and fixing toilet paper holder :			
	17.34.1	C.P. brass	1.00	Each	583.75
	17.34.2	Vitreous china	1.00	Each	426.15
166	17.37	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. :			
		For 100 mm dia. Pipe	1.00	each	287.45
		For 75 mm dia. Pipe	1.00	each	283.40
		Sub-Head : Water Supply			
167	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. : Internal work - Exposed on wall			
	18.7.1	15 mm nominal outer dia. Pipes.	1.00	metre	241.55
	18.7.2	20 mm nominal outer dia. Pipes.	1.00	metre	306.95
	18.7.3	25 mm nominal outer dia .Pipes.	1.00	metre	936.20
	18.7.4	32 mm nominal outer dia. Pipes.	1.00	metre	480.55
	18.7.5	40 mm nominal outer dia. Pipes.	1.00	metre	648.60
	18.7.6	50 mm nominal outer dia. Pipes.	1.00	metre	903.50

168	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. :Concealed work, including cutting chases and making good the walls etc.			
	18.8.1	15 mm nominal outer dia .Pipes.	1.00	metre	409.65
	18.8.2	20 mm nominal outer dia .Pipes.	1.00	metre	478.15
	18.8.3	25 mm nominal outer dia .Pipes.	1.00	metre	561.95
	18.8.4	32 mm nominal outer dia .Pipes.	1.00	metre	679.15
169	18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge : External work			
	18.9.1	15 mm nominal outer dia. Pipes.	1.00	metre	202.85
	18.9.2	20 mm nominal outer dia. Pipes.	1.00	metre	253.70
	18.9.3	25 mm nominal outer dia. Pipes.	1.00	metre	326.65
	18.9.4	32 mm nominal outer dia. Pipes.	1.00	metre	413.70
	18.9.5	40 mm nominal outer dia. Pipes.	1.00	metre	536.75
	18.9.6	50 mm nominal outer dia. Pipes.	1.00	metre	791.65
	18.9.7	62.50 mm nominal inner dia. Pipes.	1.00	metre	1552.30
	18.9.8	75 mm nominal inner dia. Pipes.	1.00	metre	1965.85
	18.9.9	100mm nominal inner dia. Pipes.	1.00	metre	2779.55
	18.9.10	150 mm nominal inner dia. Pipes.	1.00	metre	5821.85
170	18.10	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. : Internal work – Exposed on wall.			
	18.10.1	15 mm dia. nominal bore	1.00	metre	284.90
	18.10.2	20 mm dia. nominal bore	1.00	metre	344.10
	18.10.3	25 mm dia. nominal bore	1.00	metre	438.00
	18.10.4	32 mm dia. nominal bore	1.00	metre	529.70
	18.10.5	40 mm dia. nominal bore	1.00	metre	639.60
	18.10.6	50 mm dia. nominal bore	1.00	metre	786.75
171	18.11	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe including painting with anticorrosive bitumastic paint, cutting chases and making good the wall:			
	18.11.1	15 mm dia. nominal bore	1.00	metre	447.60
	18.11.2	20 mm dia. nominal bore	1.00	metre	494.10

172	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. : External work			
	18.12.1	15 mm dia. nominal bore	1.00	metre	244.15
	18.12.2	20 mm dia. nominal bore	1.00	metre	283.80
	18.12.3	25 mm dia. nominal bore	1.00	metre	364.55
	18.12.4	32 mm dia. nominal bore	1.00	metre	424.70
	18.12.5	40 mm dia. nominal bore	1.00	metre	483.15
	18.12.6	50 mm dia. nominal bore	1.00	metre	565.25
	18.12.7	65 mm dia. nominal bore	1.00	metre	716.00
	18.12.8	80 mm dia. nominal bore	1.00	metre	866.40
173	18.13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :			
	18.13.1	25 to 40 mm nominal bore	1.00	Each	673.45
	18.13.2	50 to 80 mm nominal bore	1.00	Each	1432.75
174	18.15	Providing and fixing brass bib cock of approved quality :			
	18.15.1	15 mm nominal bore	1.00	Each	302.55
	18.15.2	20 mm nominal bore	1.00	Each	326.45
175	18.16	Providing and fixing brass stop cock of approved quality :			
	18.16.1	15 mm nominal bore	1.00	Each	302.55
	18.16.2	20 mm nominal bore	1.00	Each	326.45
176	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
		25 mm nominal bore	1.00	Each	497.15
		20 mm nominal bore	1.00		460.20
		32 mm nominal bore.	1.00	Each	581.25
		40 mm nominal bore	1.00	Each	678.40
		50 mm nominal bore	1.00	Each	869.20
		65 mm nominal bore	1.00	Each	1488.10
		80 mm nominal bore	1.00	Each	2217.90
177	18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :			
	18.18.1	15 mm nominal bore	1.00	Each	338.70
	18.18.2	20 mm nominal bore	1.00	Each	386.40
	18.18.3	25 mm nominal bore	1.00	Each	394.00
178	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions :			
	18.21.1	30 cm length			
	18.21.1.1	15 mm nominal bore	1.00	Each	72.85
	18.21.1.2	20 mm nominal bore	1.00	Each	79.55
	18.21.2	45 cm length			
	18.21.2.1	15 mm nominal bore	1.00	Each	83.00
	18.21.2.2	20 mm nominal bore	1.00	Each	100.40

179	18.38	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work :			
	18.38.1	15 mm diameter pipe.	1.00	metre	15.20
	18.38.2	20 mm diameter pipe.	1.00	metre	18.15
	18.38.3	25 mm diameter pipe.	1.00	metre	23.70
	18.38.4	32 mm diameter pipe.	1.00	metre	28.40
	18.38.5	40 mm diameter pipe.	1.00	metre	33.40
	18.38.6	50 mm diameter pipe.	1.00	metre	39.80
180	18.39	Repainting G.I. pipes and fittings with synthetic enamel white paint with one coat of approved quality :			
	18.39.1	15 mm diameter pipe.	1.00	metre	7.55
	18.39.2	20 mm diameter pipe.	1.00	metre	8.90
	18.39.3	25 mm diameter pipe	1.00	metre	11.35
	18.39.4	32 mm diameter pipe	1.00	metre	13.60
	18.39.5	40 mm diameter pipe	1.00	metre	15.75
	18.39.6	50 mm diameter pipe	1.00	metre	18.75
181	18.46	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)			
	18.46.1	15 mm nominal bore	1.00	Each	235.75
	18.46.2	20 mm nominal bore	1.00	Each	261.15
	18.46.3	25 mm nominal bore	1.00	Each	340.10
	18.46.4	32 mm nominal	1.00	Each	384.25
	18.46.5	40 mm nominal bore	1.00	Each	452.50
	18.46.6	50mm nominal bore	1.00	Each	598.10
	18.46.7	65mm nominal bore	1.00	Each	939.30
	18.46.8	80 mm nominal bore	1.00	Each	1018.20
182	18.47	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :			
	18.47.1	15 mm nominal bore.	1.00	Each	617.20
	18.47.2	20 mm nominal bore.	1.00	Each	642.65
	18.47.3	25 mm nominal bore.	1.00	Each	721.60
	18.47.4	32 mm nominal bore.	1.00	Each	765.75
	18.47.5	40 mm nominal bore.	1.00	Each	833.95
	18.47.6	50 mm nominal bore.	1.00	Each	1118.30
	18.47.7	65 mm nominal bore.	1.00	Each	1459.50
	18.47.8	80 mm nominal bore.	1.00	Each	1538.40
183	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1.00	per Litre	8.80

184	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931:			
	18.49.1	15 mm nominal bore.	1.00	Each	418.95
185	18.50	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.			
		15 mm nominal bore.	1.00	Each	618.80
186	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.			
	18.51.1	15 mm nominal bore	1.00	Each	552.35
187	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.			
	18.52.1	15 mm nominal bore.	1.00	Each	606.25
188	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore			
	18.53.1	15mm nominal bore	1.00	Each	532.00
189	18.53A	Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.	1.00	Each	61.25
190	18.76	Cutting holes up to 30x30 cm in walls including making good the same:			
	18.76.1	With common burnt clay F.P.S. (non modular) bricks.	1.00	Each	327.25
191	18.77	Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof.	1.00	Each	344.60
192	18.78	Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.I. pipe etc.	1.00	m	154.15
193	18.79	Making hole up to 20x20 cm and embedding pipes up to 150 mm diameter in masonry and filling with cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)including disposal of malba.	1.00	m	180.15
194	18.82	Dismantling old C.I. pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes at site lead upto 50 metre:			
	18.82.1	80 mm diameter C.I. pipe	1.00	m	287.05
	18.82.2	100 mm diameter C.I. pipe	1.00	m	299.15
	18.82.3	125 mm diameter C.I. pipe	1.00	m	310.55

	18.82.4	150 mm diameter C.I. pipe	1.00	m	322.15
	18.82.5	200 mm diameter C.I. pipe	1.00	m	359.15
	18.82.6	250 mm diameter C.I. pipe	1.00	m	395.05
	18.82.7	300 mm diameter C.I. pipe	1.00	m	427.40
	18.82.8	350 mm diameter C.I. pipe	1.00	m	458.15
	18.82.9	400 mm diameter C.I. pipe	1.00	m	486.45
	18.82.10	450 mm diameter C.I. pipe	1.00	m	515.45
	18.82.11	500 mm diameter C.I. pipe	1.00	m	541.05
	18.82.12	600 mm diameter C.I. pipe	1.00	m	586.20
		Sub-Head : Drainage			
195	19.20	Supplying and fixing C.I. cover 300x300 mm without frame for gully trap (standard pattern) the weight of cover to be not less than 4.5 kg.	1.00	Each	667.80
196	19.21	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :			
	19.21.1	For pipes 100 to 250 mm diameter	1.00	Each	623.50
	19.21.2	For pipes 250 to 300 mm diameter	1.00	Each	717.30
	19.21.3	For pipes 350 to 450 mm diameter	1.00	Each	1035.45
197	19.26	Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damage as required (Raising depth of manhole to be paid separately) :			
	19.26.1	Rectangular manhole 90x80 cm with rectangular cover 600x450 mm of grade LD - 2.5	1.00	Each	2457.95
	19.26.2	Rectangular manhole 120x90 cm with circular cover 500 mm dia of grade MD - 10	1.00	Each	3871.15
	19.26.3	Rectangular manhole 120x90 cm with circular cover 560 mm dia of grade HD - 20	1.00	Each	3600.25
	19.26.4	Circular manhole 140 cm dia with circular cover 600 mm dia of grade EHD - 35	1.00	Each	297.60

198	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :			
	21.1.1	For fixed portion			
	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	1.00	Kg	423.95
	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	1.00	Kg	456.30
	21.1.1.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	1.00	Kg	464.70
	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).			
	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	1.00	Kg	513.40
	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	1.00	Kg	546.35
	21.1.2.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	1.00	Kg	554.95
199	21.2	Providing and fixing 12mm thick pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.			
	21.2.1	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side.	1.00	Sqm	997.70
	21.2.2	Pre-laminated particle board with decorative lamination on both sides.	1.00	Sqm	1046.90

200	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):			
	21.3.1	With float glass panes of 4.0 mm thickness	1.00	Sqm	999.60
	21.3.2	With float glass panes of 5.50 mm thickness	1.00	Sqm	1296.40
	21.3.3	With float glass panes of 8 mm thickness	1.00	Sqm	1462.35
201	21.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg., for doors, including cost of cutting floors ,embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.			
	21.4.1	With stainless steel cover plate minimum 1.25 mm thickness.	1.00	Each	2412.50
	21.4.2	With brass cover plate minimum 1.25 mm thickness.	1.00	Each	2573.05
202	21.6	Providing and fixing 6 mm dia. G.I. level adjusting hangers (upto 1200mm length), fixed to roof slabs by means of ceiling cleats made out of G.I. flat 40x3mm size 60 mm long and stainless steel expandable dash fastener of 12.5 mm dia and 50 mm long, complete as per direction of Engineer -in-charge.	1.00	Each	69.95
203	21.8	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.			
	21.8.1	Upto 5mm depth and 5 mm width	1.00	m	79.45
204	21.11	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer-in-charge complete.			
	21.11.1	205 x 19 mm	1.00	Each	255.75
	21.11.2	255 x 19 mm	1.00	Each	322.65
	21.11.3	355 x 19 mm	1.00	Each	286.50
	21.11.4	510 x 19 mm	1.00	Each	728.05
	21.11.5	710 x 19 mm	1.00	Each	1229.75
205	21.12	Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge.			

	21.12.1	Anodized (AC 15) aluminium tubular handle bar	1.00	Each	512.30
	21.12.2	Powder coated minimum thickness 50 micron aluminium tubular handle bar.	1.00	Each	562.60
	21.12.3	Polyester powder coated minimum thickness 50 micron aluminium tubular handle bar	1.00	Each	575.70
206	21.13	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	1.00	Each	458.55
207	21.16	Providing and fixing aluminium round shape handle of outer dia 100mm with SS screws etc. complete as per direction of Engineer-in-charge			
	21.16.1	Anodized (AC 15) aluminium	1.00	Each	79.60
	21.16.2	Powder coated minimum thickness 50 micron aluminium	1.00	Each	83.60
	21.16.3	Polyester powder coated minimum thickness 50 micron aluminium.	1.00	Each	88.95
208	21.18	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc. to be paid separately).	1.00	Sqm	4447.90
209	21.19	Filling the gap in between aluminium/ stone/ wood frame and adjacent RCC/Brick/Stone/wood/Ceramic/Gypsum work by providing weather/structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete complying to ASTM C920, DIN 18540-F & ISO 11600.			
	21.19.1	Upto 5mm depth and 5 mm width	1.00	m	125.10
	21.19.2	Upto 10 mm depth and 10 mm width	1.00	m	170.55
	21.19.3	Upto 20 mm depth and 20 mm width	1.00	m	308.70
		Sub-Head : Water Proofing			
210	22.5	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying :			
		a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound@ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours			
		b)Second layer of slurry of cement @ 0.242 kg/sqm mixed with waterproofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours.			

		The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	1.00	Sqm	465.60
211	22.6	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying:			
		(a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm.			
		(b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm.			
		(c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around.			
		(d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately) For the purpose of measurement the entire treated surface will be measured.	1.00	Sqm	523.05
212	22.14	Grading roof for water proofing treatment with			
	22.14.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	1.00	Cum	6924.65
	22.14.2	Cement mortar 1:3 (1 cement : 3 coarse sand)	1.00	Cum	12859.50
	22.14.3	Cement mortar 1:4 (1cement : 4 coarse sand)	1.00	Cum	11981.80
		Quoted Rates % above or below			

Name of the Firm :-

Adress of the Firm

Signature with stamp of the bidder