

Name of work

Repair and Renovation of Toilets including Replacement of Damaged/Corroded duct and sunken floor of (2nd, 4th, & 6th Floors) CI & GI Pipe Lines, Sanitary Fittings, Main Doors, Toilet Windows, and External Plastering of toilet back side at D-Block GH-Tower

BID DOCUMENT



It is certified that this document contains page 88 pages starting with page no 1

Sr. AE / AEE

Executive Engineer

Superintending Engineer

Office of the Superintending Engineer IWD,
Indian Institute of Technology, Kanpur

Indian Institute of Technology Kanpur

Contents

Sl. No.	Description	Page No.
i.	List of mandatory documents	5
1.	Notice Inviting E-tenders	6-7
2.	Information and Instructions for Bidders for E-Tendering	8-15
2.1	Instructions for Online BID Submission	16
2.2.1	Registration	16
2.2.2	Searching for tender documents	16
2.2.3	Preparation of bids	17
2.2.4	Submission of bids	17
2.2.5	Assistance to bidders	18
2.2.6	General instruction to bidders	19
2.3	List of documents to be scanned and uploaded within the period of bid submission	20
2.3.1	Envelope - 1: Technical Bid	20
2.3.2	Envelope - 2: Financial Bid	21
3	Eligibility Criteria	21
3.1	Eligibility criteria for contractors	21
4	Bid Evaluation and Award	22
4.1	Technical Bid Evaluation	22
4.2	Financial Bid Evaluation	22-23
5	Various Forms and Formats	24
5.1	Affidavit for not being blacklisted/debarred/restrained	24
5.2	Performance report on work executed	25
5.3	Structure and Organization of the Agency	26
5.4	Declaration on Details of the Bidders	27-28
5.5	Details of Similar Nature of Works Completed	29

5.6	Declaration About Site Inspection	30
5.7	Letter of Transmittal	31
5.8	CPWD-7	32-33
5.9	Tender certificate	34
5.10	Tender Acceptance Letter	35
5.11	Financial information	36
5.12	Banker's Certificate from a scheduled Bank	37
5.13	Net Worth Certificate by certified Chartered Accountant	37
5.14	Water proofing	39-44
6	Proforma of Schedules	45
6.1	SCHEDULE 'A': Schedule of Quantities	45
6.2	SCHEDULE 'B': Schedule of materials to be issued to the contractor	45
6.3	SCHEDULE 'C': Tools and plants to be hired to the contractor	45
6.4	SCHEDULE 'D': Extra schedule for specific requirements / document for the work, if any	45
6.5	SCHEDULE 'E': Reference to General Conditions of Contract	45
6.6	SCHEDULE 'F': General Rules and Directions	45
6.6.1	Definitions	46
6.6.2	Clauses	47-50
7	Scope of work	51-56
8	Terms & Conditions of Contract	57
8.1	Timely Completion	57
8.2	Rates	56-57
8.3	Quality and Workmanship	58-59
8.4	Natural calamity	60
8.5	Stocking and Disposal of Materials & Debris	61
8.6	Painting	62
8.7	Safety and Security	63
8.8	Approach to Site	63

8.9	Water and Flooding	64
8.10	Acts and Laws	64
8.11	Labour and Laws	65
8.12	Nondisclosure Agreement	65
8.13	Indemnification	65
8.14	Force Majeure	66
8.15	Dispute resolution	66
8.16	Arbitration	67
8.17	Jurisdiction of Courts	67
9	Testing Charges	68
10	Bill Of Quantity	69-88

It is certified that this document contains 88 pages

Superintending Engineer

Name of work: Repair and Renovation of Toilets including Replacement of Damaged/Corroded duct and sunken floor of (2nd, 4th, & 6th Floors) CI & GI Pipe Lines, Sanitary Fittings, Main Doors, Toilet Windows, and External Plastering of toilet back side at D-Block GH-Tower

The bidder shall upload the following documents and submit the soft copy of the same mentioning the page no against each document as required in the NIT at CPP portal (Providing tick on specified document)

Sl. No.	Particulars	Document required as per NIT	Attached as page No(s).
1.	EMD scan copy	✓	
2.	GST Registration Certificate	✓	
3.	ESIC & EPFO Registration	✓	
4.	PAN Card	✓	
5.	Affidavit for not being Blacklisted / debarred /restrained	✓	
6.	Performance report of works executed	✓	
7.	Structure and Organization of the Agency	✓	
8.	Declaration on Details of the Bidder(s)	✓	
9.	Details of Similar Nature of Works Complete	✓	
10.	Declaration about Site Inspection	✓	
11.	Letter of Transmittal	✓	
12.	CPWD - 7	✓	
13.	Tender Certificate	✓	

- | | | |
|-----|--|---|
| 14. | Tender Acceptance Letter | ✓ |
| 15. | Copy of Financial turnover from CA along with audited balance sheets certified from CA/bank UDIN No for current 3 years | ✓ |
| 16. | Solvency Certificate or Net worth Certificate | ✓ |
| 17. | Registration details with the Govt. Department (CPWD, BSNL, MES, State Govt. Bodies, State Govt. PSUs, Central PSUs & Central Govt. Bodies | ✓ |

**** Bank Solvency: Preferably of the Current Financial Year, but not older than one years**

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1. Notice Inviting e-Tenders

The Superintending Engineer, IWD, IIT Kanpur invites on behalf of Board of Governors of IIT Kanpur online percentage rates tender from eligible firms/specialized agencies satisfying the eligibility criteria mentioned in the document.

NIT No: 31/Civil/D1/2026-27

1	Name of work	:	Repair and Renovation of Toilets including Replacement of Damaged/Corroded duct and sunken floor of (2nd, 4th, & 6th Floors) CI & GI Pipe Lines, Sanitary Fittings, Main Doors, Toilet Windows, and External Plastering of toilet back side at D-Block GH-Tower
2	Estimated cost (inclusive of GST)	:	Rs. 4475979/- (With GST)
3	Earnest Money Deposit(Rs.)	:	Rs. 89520/-
4	Duration of contract	:	Four (4) months
5	Last Time & date of submission of bids (Up to)	:	As per CPP portal data (https://eprocure.gov.in/eprocure/app)
6	Opening of bids	:	As per CPP portal data (https://eprocure.gov.in/eprocure/app)

The bid forms and other details may be downloaded from Central Public Procurement Portal (<http://eprocure.gov.in/eprocure/app>). Aspiring bidders who have not enrolled / registered in e-procurement should enroll / register themselves before participating through web site <http://eprocure.gov.in/eprocure/app>. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at "Instructions for online bid submission."

Bidders can access quotation / tender documents on the website (for searching in the NIC site), kindly go to quotation search option and type 'IIT'. Thereafter, click on "GO" button to view all IIT quotations. Select the appropriate quotation / tender and fill them with all relevant information and submit the completed Quotation / Tender document online on the website <http://eprocure.gov.in/eprocure/app> as per the schedule given in the next page.

Superintending Engineer, IWD

Note: No manual bids will be accepted. All bids (both Technical & Financial) should be submitted through in the e-procurement portal.

Applicants are advised to keep visiting the above-mentioned websites from time to time (till the deadline for bid submission) for any updates in respect of the tender documents, if any. Failure to do so shall not absolve the applicant of his liabilities to submit the applications complete in all respect including updates thereof, if any. An incomplete application may be liable for rejection.

Superintending Engineer, IWD

2. Information and Instructions for Bidders for E-Tendering

The Superintending Engineer, IWD on behalf of Board of Governors of Indian Institute of Technology Kanpur invites online percentage rate tenders from eligible firms/ specialized agencies satisfying the eligibility criteria mentioned in the document.

- 1 Name of organization : Indian Institute of Technology, Kanpur
- 2 NIT No. : **31/Civil/D1/2026-27**
- 3 Location : Indian Institute of Technology, Kanpur
- 4 Tender / Quotation type : Open
(open / limited /EOI / Auction / Single
- 5 Tender / Quotation category : Works
(services / **works**
- 6 Type of Contract (work / : Works
supply / auction/ service /
buy / empanelment / sell
- 7 Form of contract (CPWD-7/8) : CPWD-7
- 8 Work Category (civil / : Civil
electrical / fleet /
management / computer
system
- 9 Is multi-currency allowed? : No
- 10 Date of publishing / issue / : As per CPP portal
start
- 11 Document download start date : As per CPP portal
- 12 Document download end date : As per CPP portal
- 13 Date & time of pre-bid meeting : As per CPP portal
- 14 Venue of pre-bid meeting : As per CPP portal
- 15 Last date & time of uploading : As per CPP portal
of bids
- 16 Date & time of opening of : As per CPP portal
Technical bids
- 17 Bid Validity Days : 90 days after opening of technical bid
- 18 Earnest Money Deposit (EMD) : **Rs. 89520/-**
- 19 No. of Bids / Covers (1 / 2 / : 2

3 / 4)

- 20 Address for communication : Office of Superintending Engineer,
IWD, IIT Kanpur-208016 Contact
no. 0512-259-7725
- 21 Email address : seiwd@iitk.ac.in

The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.

1. Information and instructions for bidders posted on website shall form part of bid document.
2. The bid document consisting of drawings, specifications, schedule of quantities of items to be executed, schedule of stages for payment as applicable and the set of terms & conditions of the contract to be complied with and other necessary documents can be seen and downloaded free of cost from www.eprocure.gov.in
3. But the bid can only be submitted after deposition of the EMD hard copy submission.
4. Those contractors not registered on the website mentioned above, are required to get registered beforehand. Only e-bids shall be accepted in CPPP portal through e-tendering processes.
5. The intending bidder must have valid Class-III digital signature to submit the bid.
6. On opening date, the contractor can login and see the bid opening process. After opening of bids, he will receive the competitor bid sheets.
7. Contractor can upload documents in the form of JPG format and PDF format.
8. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in pink colour and the moment rate is entered, it turns sky blue.

In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).

However, if a tenderer quotes nil rates against each item in item rate, the tender shall be treated as invalid and will not be considered as lowest tenderer.

9. The "Eligibility/technical Bid" shall be opened first on due date and time as per the evaluation scheme. The "Financial Bid" of bidders qualifying the technical bid shall be opened on a later date as to be announced in CPP portal.
10. The bidders are advised to visit the site before submission of bids to have more clarity about the site conditions and availability of space for execution of the work.
11. All modifications/addendums/corrigendum's issued regarding this bidding process shall be uploaded on website only.
12. The department reserves the right to reject any or all bids without assigning any reason thereof and may restrict the list of qualified bidders to any number deemed suitable by it, if too many bids are received satisfying the minimum laid down criteria.
13. The rates for all items of work, shall unless clearly specified otherwise, include cost of all operations and all inputs of labour, material, T&P, scaffolding, wastages, watch and ward, other inputs, all incidental charges, all other taxes (including GST), cess, duties, levies etc. required for execution of the work.
14. If claimed, The enlistment of the contractors should be valid on the last date of submission of bids. In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.
15. The description of the work is as follows: **"Repair and Renovation of Toilets including Replacement of Damaged/Corroded duct and sunken floor of (2nd, 4th, & 6th Floors) CI & GI Pipe Lines, Sanitary Fittings, Main Doors, Toilet Windows, and External Plastering of toilet back side at D-Block GH-Tower**
16. The work is estimated to cost **Rs. 4475979/- (inclusive of GST)**. However, this estimate given is mere approximation for guide.
17. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 7 which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
18. The time allowed for carrying out the entire work will be **Four (4) months** from the date of start as defined in Schedule "F" or from the first date of handing over of the site, whichever is later, in accordance with the phasing as detailed in special conditions of contract in the bid document.
19. The site for the work will be handed over as per the special terms and

conditions of the document.

20. The bid document consisting of NIT, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website www.eprocure.gov.in free of cost.
21. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
22. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he/she need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
23. **The tenders without, EMD in original shape shall be rejected (except in case of e-bank Guarantee).**
24. Copy of documents as specified in the bid shall be scanned and uploaded to the e-tendering website within the period of bid submission.
25. The bid submitted shall be opened at as per the details provided in the CPP portal at IWD office. The date of opening of Financial Bid shall be informed through web site after the opening of financial bid
26. The bid submitted shall become invalid if:
 - (i) The bidder is found ineligible.
 - (ii) **If the bidder does not deposit original EMD to the office of Executive Engineer, Div-I, IWD, IIT Kanpur**
 - (iii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.
 - (iv) If a tenderer quotes nil rates against each item in item rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
27. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F' including the extended period if any, the contractor shall be suspended for two years and shall not be eligible to bid for IITK tenders from the date of issue of suspension order.
28. Intending Bidders are advised to inspect and examine the sites and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, making proper arrangements to the site for smooth operation, the accommodation they may require and in general shall themselves obtain all necessary

information as to risks, contingencies and other circumstances which may influence or affect their bid. Bidder shall be deemed to have full knowledge of the sites whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidder shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Institute and local conditions and other factors having a bearing on the execution of the work.

29. Intending Bidders are advised to get familiarized with the specifications /rules related (i.e. **Repair and Renovation of Toilets including Replacement of Damaged/Corroded duct and sunken floor of (2nd, 4th, & 6th Floors) CI & GI Pipe Lines, Sanitary Fittings, Main Doors, Toilet Windows, and External Plastering of toilet back side at D-Block GH-Tower**) to the work as approved by the competent authority and various policies related to C&D waste and other environmental guidelines of the institute pertaining to the. Bidder shall be deemed to have full knowledge of such rules and regulations whether he has read it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. In case of reduction of scope of work or no work is possible to carry out on account of such issues, no cost shall be payable to them. Submission of a bid by the bidder implies that he has read this notice and all other documents and has made himself aware of the Institute Regulations and other factors having a bearing on the execution of the work.
30. The competent authority on behalf of the Board of Governors does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without assigning any reason. Bids in which any of the prescribed conditions is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
31. Canvassing whether directly or indirectly, in connection with bids is strictly prohibited and the bids submitted by the bidders who resort to canvassing will be liable to rejection.
32. The competent authority on behalf of the Board of Governors reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
33. The contractor shall not be permitted to bid for works in the Institute

Works Department responsible for award and execution of contracts, in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive) in IWD. He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Office of IWD/ Institute Works Department. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

34. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government services without the prior permission of the Government of India in writing. This contract is liable to be canceled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's services.
35. The bids for the work shall remain open for acceptance for a period of Ninety (90) days from the date of opening of bids. If any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the Institute shall, without prejudice to any other right or remedy, be at liberty to suspend the bidder for one year
36. This notice inviting Bid shall form a part of the contract document. The successful bidders/contractor, on acceptance of his bid by the Accepting Authority shall within 7 days from the stipulated date of start of the work, will sign the contract.
37. The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto
38. Standard C.P.W.D. Form 7 or other Standard C.P.W.D. Form as applicable.
39. The bid document will include the following components:
 - (a) CPWD-7 and CPWD-6 including Schedule A to F for all the components of the work, Standard General Conditions of Contract for CPWD 2023 as amended/modified up to last date of submission of the bid.
 - (b) General / specific conditions, specifications applicable to all components of the work.

40. The eligible bidders shall quote percentage rates after considering all the components of the work.
41. After acceptance of the competent authority, the **Superintending Engineer**, IWD shall issue letter of award on behalf of the Board of Governors to the contractor. After the work is awarded, the contractor will have to enter into one agreement with Executive Engineer, IWD. One such signed set of agreement shall be handed over to Engineer-In-Charge as applicable.
42. Entire work under the scope of bid shall be executed under one agreement.
43. The requirement of technical staff given in various specialized works is as per requirements given in clause 32 of NIT document. The actual deployment of these technical staff will be as per execution of work and direction of the Executive Engineer, IITK.
44. The bill for work components shall be facilitated by the contractors with taking joint measurements along with concerned AE & RA bills shall be submitted to DOIP office for further processing of bills.
45. The Final bill must be submitted to the Office of IWD, IIT Kanpur and the bills shall be based on milestones.
46. The work shall be treated as complete when all the components of the work are complete.
47. It will be obligatory on the part of bidder to sign the contract document for all components before the first payment is released.
48. In case of reduction in scope of work no claim on account of reduction in value of work, loss of expected profit, consequential overheads etc. shall be entertained.
49. A team of officers from Indian Institute of Technology Kanpur may visit the office/ site of work of bidders for establishing their credibility and verification of submitted documents
50. The mentioned work is urgent as requested by client/Institute and to be completed strictly in given time schedule as per special terms and conditions. The contractor has to deploy the labour and supervisory staff in shifts to meet the targeted completion date. The work may be executed in extended shifts or two shifts. The rates quoted by the contractor will be deemed to be inclusive of any extra expenditures on account of this reason. Nothing shall be paid on this account.
51. The competent authority on behalf of the Board of Governors reserves the right to terminate the contract if,

- a)** Any violation of labour law has been observed.
 - b)** Any of the construction workers engaged in the works under this contract is found also engaged in Service Contracts of the Institute at the same time.
- 52. The competent authority on behalf of the Board of Governors reserves the right to disqualify an agency for
 - (a)** Non-compliance of Institute orders
 - (b)** Violation of Institute policies as established by the Competent Authority in the best interests of the Institute.

2.2 Instructions for Online BID Submission

This tender document has been published on the Central Public Procurement Portal (URL: <http://eprocure.gov.in/eprocure/app>). The bidders are required to submit softcopies of their bids electronically on the CPP portal, using valid Digital Signature Certificates (DSC). The instructions given below are meant to assist the bidders in registering on the CPP portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP portal.

More information useful for submitting online bids on the CPP portal may be obtained at <http://eprocure.gov.in/eprocure/app>

2.2.1 Registration

1. Bidders are required to enroll on the e-procurement module of the Central Public Procurement portal ([URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app)) by clicking on the link, "click here to enroll". Enrolment on the CPP portal is free of charge.
2. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for the accounts.
3. Bidders are advised to register their valid e-mail address and mobile number as part of the registration process. These would be used for any communication from the CPP portal.
4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (class 2 or class 3 certificates with signing key usage) issued by any certifying authority recognized by CCA India (e.g. Sify / TCS / nCode/ eMudhra etc.) with their profile.
5. Only one valid DSC should be registered by a bidder. Please note that bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.
6. Bidder then logs in to the site through the secured log-in by entering their user ID Password and the password of the DSC / eToken.

2.2.2 Searching for tender documents

1. There are various search options built in the CPP portal to facilitate bidders to search active tenders by several parameters. These parameters could include tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP portal
2. Once the bidders have selected the tenders they are interested in, they

may download the required documents / tender schedules. The tenders can be moved to the respective "My Tenders" folder. This would enable the CPP portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.

3. The bidder should make a note of the unique Tender ID assigned to each other; in case they want to obtain any clarification/help from the Helpdesk.

2.2.3 Preparation of bids

1. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
2. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bids. Please note the number of covers in which the bid documents have to be submitted. Any deviations from these may lead to rejection of the bids.
3. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF formats. Bid documents may be scanned with 100 dpi with black & white option.
4. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g., PAN card copy, annual reports, auditor's certificates, etc.) has been provided to the bidders. Bidders can use "My Space" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

2.2.4 Submission of bids

1. Bidder should log into the site well in advance for bid submission so that he / she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
3. A standard BOQ Format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other

format is acceptable. Bidders are required to download the BOQ file, open it and complete the white colored [unprotected] cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.

OR

In some cases, financial bids can be submitted in PDF format as well (in lieu of BOQ).

4. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
5. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128-bit encryption technology. Data storage encryption of sensitive fields is done.
6. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
7. Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
8. Add scanned PDF of all relevant documents in a single PDF file of compliance sheet.

2.2.5 Assistance to bidders

1. Any queries relating to tender document and the terms and conditions contained therein should be addressed to the tender inviting authority for a tender or the relevant contact person indicated in the tender.
2. Any queries relating to the process of online bid submission or queries relating to CPP portal in general may be directed to the 24 x 7 CPP Portal Help Desk.

2.2.6 General instruction to bidders

1. The tenders will be received online through portal <https://eprocure.gov.in/eprocure/app>. In the technical bids, the bidders are required to upload all the documents in PDF format.
2. Possession of a valid class II / III Digital Signature Certificate (DSC) in the form of smart card / e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through <https://eprocure.gov.in/eprocure/app>. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the website <https://eprocure.gov.in/eprocure/app> under the link "Information about DSC".

Tenderers are advised to follow the instructions provided in the "Instructions to the tenderer" for the e-submission of the bids online through the Central Public Procurement Portal for e-procurement at <https://eprocure.gov.in/eprocure/app>.

Executive Engineer

2.3 List of documents to be scanned and uploaded within the period of bid submission

The following mandatory documents to be submitted with online bid submission:

The Online bids (complete in all respect) must be uploaded online in two Envelops as explained here: -

2.3.1 Envelope - 1: Technical Bid

The following mandatory documents to be provided as **a single PDF** file in the same sequence as listed for an eligible bid:

- 1. Scan copy of EMD shall be uploaded along the technical bid & original EMD shall be submitted in the office of the tender inviting authority on or before opening date of technical bid.**
2. GST Registration Certificate
3. EPF & ESI Registration
4. Copy of PAN card
5. Affidavit for not being blacklisted/debarred/restrained As per 5.1
6. Performance report of works executed as per 5.2
7. Structure and Organization of the Agency as per 5.3
8. Declaration on Details of the Bidder(s) as per 5.4
9. Details of Similar Nature of Works Completed as per 5.5
10. Declaration about Site Inspection as per 5.6
11. Letter of Transmittal as per 5.7
12. CPWD-7 as per 5.8
13. Tender Certificate as per 5.9
14. Acceptance Letter as per 5.10
15. Financial Information as per 5.11
16. Banker's Certificate from a scheduled Bank as per 5.12 OR Net Worth Certificate by certified Chartered Accountant as per 5.13
17. Registration details with the Govt. Department (CPWD, BSNL, MES, State Govt. Bodies, State Govt. PSUs, Central PSUs, Central Govt. Bodies.
18. MoU Water proofing on Non Judicial Stamp paper of Rs. 100/- and applicator certificate.

**** Earnest money in the form of Demand Draft of pay order or Banker's Cheque or Deposit at Call Receipt or Fix Deposit Receipt drawn in favor of "The Director, IIT Kanpur" shall be scanned and uploaded to the e-Tendering website by the bidder within the period of bid submission. The hardcopy of earnest deposit receipt (EMD) (except in case of e-bank Guarantee) shall be submitted in the office of Executive Engineer Div-I, IWD, IIT Kanpur on or before of opening of technical bid. In absence of EMD in hard copy, the bid shall be rejected.**

Envelope - 2: Financial Bid

Price bid should be submitted in BOQ format

3. Eligibility Criteria

3.1 Eligibility criteria for contractors

The eligible contractor mean registered in appropriate class and category with CPWD/BSNL/MES/ Central Government Bodies / Central Government PSUs / State Government Bodies/ State Govt. PSUs,

Eligible Bidders

Eligible bidders should satisfy the following criteria for an eligible bid:

1. Experience:

Firms/Contractors must have completed satisfactorily

i) One similar work of 80% value of the estimated cost put to tender

Or

ii) Two similar work of 60% value of the estimated cost put to tender

Or

iii) Three similar work of 40% value of the estimated cost put to tender

Works completed during last 7 years ending last day of the month previous to the one which applications are invited.

And

One completed work of similar nature costing not less than the amount equal to 40% of the estimated cost put to tender (either part of above or a separate one) with Central Government Bodies / Central Autonomous Body/ Central Public Sector Undertakings/ State Government Bodies/ State Govt. PSUs, in last 7 years.

2. Definition of similar work: Similar type of work means "**Construction / Renovation works of residential / Academic / Offices / Laboratory buildings**"

Eligible bidders must also satisfy the following conditions and ensure submission of all documents mentioned in 2.3

1. **Legal:** Unregistered Partnership Firm and Joint Venture or Consortium are not eligible.
2. **Registration:** Bidder should be registered with the Income Tax Department (PAN), Employees Provident Fund (EPF) Organization, Employees State Insurance (ESI) Corporation & GST. Bidders are not eligible in absence of these documents.
3. **Office:** Bidders have to establish its local accessible office at Kanpur to run the awarded work.

4. Bid Evaluation and Award

The following process will be followed for the Technical and Financial Bids Evaluation:

4.1 Technical Bid Evaluation

- Technical bids received complete in all respects covering the entire scope of work, will only be opened.
- **The online bids submitted without EMD (except in case of e-bank Guarantee) shall be rejected.**
- The technical bid evaluation is done only for bidders who satisfy the minimum criteria by submitting documentary proof supporting eligibility criteria and the bids of agencies who have not submitted these documents are liable to be rejected without notice.

4.2 Financial Bid Evaluation

For financial bids, the following points shall be followed:

- After evaluation of Pre-Qualification Documents, a list of short listed agencies will be prepared.
- Thereafter the financial bids of only the qualified and technically acceptable bidders shall be opened at the notified time, date and place in the presence of the qualified bidders or their representatives, if present.
- The bid shall remain valid for Ninety (90) days from date of opening of eligibility bids/Technical bid.

NOTE

The employer reserves the right, without being liable for any damages or obligation to inform the bidder, to:

- Amend the scope and value of contract to the bidder.
- Reject any or all the applications without assigning any reason.

Any effort on the part of the bidder or his agent to exercise influence or to pressurize the employer would result in rejection of his bid. Canvassing of any kind is prohibited.

5. Various Forms and Formats

5.1 Affidavit for not being blacklisted/debarred/restrained

Proforma for AFFIDAVIT for not being blacklisted/debarred/restrained

(AFFIDAVIT to be submitted on a 'Non-Judicial' stamp paper worth Rs.100/) (Scanned copy of this notarized affidavit to be uploaded at the time of submission of bid)

I/we undertake and confirm that our firm/partnership firm has not been blacklisted and/or debarred/restrained by any Central Govt./ State Govt. Agency/ Autonomous body of the Central or State govt./ PSU etc. Further that, if such information comes to the notice of the Institute, then I/we shall be debarred for bidding in the Institute in future forever. Also, if such information comes to the notice of the Institute on any day before date of start of work, the competent authority shall be free to cancel the agreement and to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

Signature of bidder

OR

(An authorized Officer of the firm with stamp)

Signature of Notary with Seal

5.2 Performance report on work executed

Proforma of Performance report on works referred to in Financial Information

(To be printed in Company's Letterhead)

(Scanned copy of the Performance Reports to be uploaded at the time of submission of bid)

1. Name of work/project & location:
2. Agreement no.:
3. Estimated cost:
4. Tendered cost:
5. Date of start:
6. Date of completion:
7. Stipulated date of completion:
8. Actual date of completion:
9. Amount of compensation levied for delayed completion, if any:
10. Amount of reduced rate items, if any:
11. Performance Report:
 - (a) Quality of work: Outstanding / Very Good / Good /Poor
 - (b) Technical Proficiency: Outstanding / Very Good / Good /Poor
 - (c) Resourcefulness: Outstanding / Very Good / Good /Poor
 - (d) General Behavior: Outstanding / Very Good / Good /Poor

Signature of Superintending Engineer or Equivalent

Dated:

5.3 Structure and Organization of the Agency
Proforma of providing Structure and Organization of the Bidding Agency
(To be printed in Company's Letterhead)

(Scanned copy of the Structure and Organization Document to be uploaded at the time of submission of bid)

1. Name & address of the bidder:
2. Telephone no./Telex no./Fax no.:
3. Email address for Communication:
4. Legal status of the bidder (attach copies of original document defining the legal status):
 - (a) An Individual:
 - (b) A proprietary firm:
 - (c) A firm in partnership:
 - (d) A limited company or Corporation:
5. Particulars of registration with various Government Bodies (attach attested photocopy)

Organization / Place of registration Registration No.

- 1.
- 2.
- 3.
6. Names and titles of Directors & Officers with designation to be concerned with this work.
7. Designation of individuals authorized to act for the organization
8. Has the bidder, or any constituent partner in case of partnership firm, ever been convicted by the court of law? If so, give details.
9. Any other information considered necessary but not included above.

Signature of bidder

5.4 Declaration on Details of the Bidders

Proforma of Declaration on Details of the Bidders

(To be printed in Company's Letterhead)

(Scanned copy of the Performance Reports to be uploaded at the time of submission of bid)

DECLARATION

I/We, hereby declare that all the information and data furnished by our organization with regard to this tender specification are true and complete to the best of our knowledge. I/we have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

Particulars of the bidder as per following details:

1. Name of the firm / organization :
2. Type of the firm / organization: :
Public Ltd, / Private Ltd./
Registered firm
- 3 Registered office :
- 4 Address of office :
- 5 Contract people :
- 6 Name & designation :
- 7 Land line & mobile no. :
- 8 Email :
- 9 PAN No. :
- 10 GST No. :
- 11 EPF Registration No. :
- 12 ESI Registration No. :
- 13 EMD/FDR/DD No. & Date. :
- 14 Registration details with the Govt.
Department (CPWD, BSNL, MES, State
Govt. Bodies, State Govt PSU's, Central
PSUs & Central Govt. Bodies.)
- 15 Validity of the registration with the
Govt. department

- 16 Tendering limit as per the registration department
- 17 Has the applicant ever been required to suspend any project for a period of more than six months continuously after Commencement of work? : If so, give the name of the project and reasons of suspension of project
- 18 Has the applicant ever been convicted by a court of law? : YES / NO, If yes give details of the case
- 19 Details of any litigation in which the applicant is / was involved. :
- 20 All forms submitted as desired in the bid : Yes / No
- 21 Undertaking regarding no subletting of work. :

We further declare that our organization has not been blacklisted /delisted or put to any holiday by any Institutional agency / Govt. Department / Public Sector Undertaking in the last three years.

Signature of Bidder(s) with seal

Dated:

5.5 Details of Similar Nature of Works Completed

Proforma for submission of Details of Eligible Similar Nature of Works Completed* during the Last Seven Years ending previous day of the last date of submission of tenders (Scanned copy of the Performance Reports to be uploaded)

Sr. No	Name of work project and location	Owner / rs or spons oring organ ization	Const work of crores of rupees	Date of commence ment as per con tract	Stipula ted date of comple tion	Actual date of comple tion	Litigatio n/ arbitrati on cases pending /in Progres s with details*	Name and address / tele- phone number of officers to whom reference may be made	Whethe r the work was done on back to back basis Yes/No
1	2	3	4	5	6	7	8	9	10
1									

* Indicate gross amount claimed and amount awarded by the Arbitrator.

Signature of bidder with seal

Dated:

5.6 Declaration About Site Inspection

Declaration about Site Inspection

(By Bidder)

To
The Superintending Engineer,
IWD, IIT,
Kanpur

Subject: Submission of Tender for the work of "Repair and Renovation of Toilets including Replacement of Damaged/Corroded duct and sunken floor of (2nd, 4th, & 6th Floors) CI & GI Pipe Lines, Sanitary Fittings, Main Doors, Toilet Windows, and External Plastering of toilet back side at D-Block GH-Tower"

Dear Sir/Madam,

It is hereby declared that as per terms and conditions of this tender document, I/ We the bidder inspected and examined the subject site and its surrounding and satisfy myself / ourselves as to the nature of the ground and sub-soil (so far as is practicable), the forms and nature of the site./ ourselves before submitting the bid, the accommodation which may require and all necessary information as to risks, contingencies and other circumstances which may influence or affect our bid have been obtained. I/We the bidder shall have full knowledge of the site and no extra charge consequent upon any misunderstanding or otherwise shall be claimed in later date. I /We bidder shall be responsible for arranging and maintaining at own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by me/us implies that I / We have read this notice and all other contract documents and has made myself /ourselves aware of the scope and specifications of the work to be done and local conditions and other factors having a bearing on the execution of the work.

Sincerely

(Duly authorized signatory of the Bidder)

5.7 Letter of Transmittal

To

The Superintending Engineer,
IWD, IIT, Kanpur- 208016

Name of Work: Repair and Renovation of Toilets including Replacement of Damaged/Corroded duct and sunken floor of (2nd, 4th, & 6th Floors) CI & GI Pipe Lines, Sanitary Fittings, Main Doors, Toilet Windows, and External Plastering of toilet back side at D-Block GH-Tower

Dear Sir/Madam

Having examined details given in Notice and bid document for the above work, I/we hereby submit the relevant information.

1. I/We hereby certify that all the statements made and information supplied in the enclosed forms and accompanying statement are true and correct.
2. I/we have furnished all information and details necessary for eligibility and have no further pertinent information to supply.
3. I/We also authorize the Executive Engineer, IWD, Indian Institute of Technology Kanpur or his representative(s) to approach individuals, employers, firms and corporation to verify our competence, work experience, and general reputation.
4. I/we submit the following certificates in support of our suitability, technical knowledge and capability for having successfully completed the following eligible completed works:

Sl. No.	Name of work	Amount	Certificate issued by
1			
2			
3			

CERTIFICATE

It is certified that the information given in the enclosed eligibility bid are correct. It is also certified that I/We shall be liable to be debarred, disqualified/ cancelation of enlistment in case any information furnished by me/us found to be incorrect.

Signature(s) of Bidder with seal

Enclosures:

Date:

5.8 CPWD-7

CPWD-7

PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

Tender for the "Repair and Renovation of Toilets including Replacement of Damaged/Corroded duct and sunken floor of (2nd, 4th, & 6th Floors) CI & GI Pipe Lines, Sanitary Fittings, Main Doors, Toilet Windows, and External Plastering of toilet back side at D-Block GH-Tower

1. To be uploaded as per details uploaded in CPP portal at www.eprocure.gov
2. To be opened in the presence of tenderers who may be present at the time of opening in the Executive Engineer, IWD, IIT Kanpur.
3. The pre-qualification/Technical bid shall be opened first on due date and time as mentioned above. The time and date of opening of financial bid of contractors qualifying the technical bid shall be communicated to them at a later date.

TENDER

(To be signed in Company's Letterhead)

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F Specifications applicable, Drawings & Designs, General Rules and Directions, General Conditions of Contract (For construction works) 2023, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the Board of Governors within the time specified in Schedule 'F' viz., schedule of quantities and in accordance in all respect with the specifications, designs, drawing and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respect of accordance with, such conditions so far as applicable.

We agree to keep the tender open for Ninety (90) days from the due date of its opening and not to make any modification in its terms and conditions.

I/We have deposited EMD for the prescribed amount in the office of concerned Executive Engineer as per the bid document.

If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said Board of Governors or his successors, in office

shall without prejudice to any other right or remedy, be at liberty to take action as per GCC 2023. Further, if I/We fail to commence work as specified, I/We agree that Board of Governors or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clauses 12.2 and 12.3 of the tender form.

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

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back-to-back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for tendering in Indian Institute of Technology Kanpur in future forever. Also, if such a violation comes to the notice of Indian Institute of Technology Kanpur before date of start of work, the Executive Engineer, IWD shall be free to forfeit the entire amount of Performance Guarantee.

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

Signature(s) of Contractor(s) with seal

Dated:

Address

Occupation

5.9 Tender Certificate

(To be given on Company Letter Head)

Date:

To,

The Superintending Engineer,
IWD, IIT,
Kanpur-208016

Sub: Certificate of compliance as per Rule 144 (xi) GFR's 2017

Tender Reference No: **31/Civil/D1/2026-27**

Name of Tender / Work: **Repair and Renovation of Toilets including Replacement of Damaged/Corroded duct and sunken floor of (2nd, 4th, & 6th Floors) CI & GI Pipe Lines, Sanitary Fittings, Main Doors, Toilet Windows, and External Plastering of toilet back side at D-Block GH-Tower**

Dear Sir,

1. "I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.]"
2. "I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub contracting to contractors from such countries; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfills all the requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.] Yours Faithfully,

(Signature of the Bidder, with Official Seal)

5.10 Tender Acceptance Letter

(to be give on company letter head)

To,
The Superintending Engineer,
IWD, IIT,
Kanpur-208016

Sub: Acceptance of terms & conditions of tender.

Tender Reference No: **31/Civil/D1/2026-27**

Name of Tender / Work: **Repair and Renovation of Toilets including Replacement of Damaged/Corroded duct and sunken floor of (2nd, 4th, & 6th Floors) CI & GI Pipe Lines, Sanitary Fittings, Main Doors, Toilet Windows, and External Plastering of toilet back side at D-Block GH-Tower**

Dear Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely: as per your advertisement, given in the above-mentioned website(s).
2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No..... to (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/ organization too have also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.
5. I / We do hereby declare that our Firm has not been blacklisted/ debarred/ terminated/ banned by any Govt. Department/Public sector undertaking.
6. I / We certify that all information furnished by our Firm is true & correct and, i n the event, that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

5.11 Financial Information

Proforma for providing Financial Information

(Scanned copy of the completed information sheet to be uploaded at the time of submission of bid)

Financial Analysis: Details to be furnished duly supported by figures in balance sheet/ profit & loss account for the last **FIVE financial years** duly certified by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (Copies to be attached).

Financial Years	2020-21	2021-22	2022-23	2023-24	2024-25
Gross Annual turnover					
Profit/Loss					

Signature of Chartered Accountant with Seal

Signature of bidder

5.12 Banker's Certificate from a scheduled Bank

Proforma of Banker's Certificate from a Scheduled Bank

(To be printed in Bank's Letterhead)

(Scanned copy of the Certificate to be uploaded at the time of submission of bid)

This is to certify that to the best of our knowledge and information that M/s./Sh..... having marginally noted address, a customer of our bank are/is respectable and can be treated as good for any engagement up to a limit of Rs (Rupees). This certificate is issued without any guarantee or responsibility on the bank or any of the officers.

.....
(Signature for the Bank)

NOTE:

Bankers certificates should be on letter head of the Bank, addressed to tendering authority. In case of partnership firm, certificate should include names of all partners as recorded with the Bank.

5.13 Net Worth Certificate by certified Chartered Accountant

Proforma of Net Worth Certificate by certified Chartered Accountant

(To be printed in Letterhead of Chartered Accountant)

(Scanned copy of the Certificate to be uploaded at the time of submission of bid)

This is to certify that as per the audited Balance Sheet and Profit & Loss statement of the account during the financial year, the net worth of M/s./Sh.....(Name & Registered Address of individual/firm/company) as on 31.03.2025 is Rs.....(Rupees.....) after considering all liabilities.. It is further certified that the net worth of the company has not eroded by more than 30% in the last three years ending on 31.03.2025.

.....
(Signature of the Chartered Accountant)

.....
(Name of the Chartered Accountant)

.....
(Membership No. of ICAI)

.....
(Date & Seal)

5.14 MoU water proofing

Memorandum of Understanding [M.O.U] Between

1] M/s. [Name of the firm with full address] Enlistment Status Valid Up to:
[Hence forth called the main contractor]

And

2] M/s. [Name of the firm with full address] Enlistment Status Valid Up to:
[Henceforth, called Associated Contractor]

Name of Work: _____

Agreement No. (As per schedule, specifications, terms and conditions of the tender.)

We state that M.O.U. between us will be treated as an agreement and has legality as per Indian Contract Act (amended up to date) and the department (IIT-K) can enforce all the terms and conditions of the agreement for execution of the above work. Both of us shall be responsible for the execution of work as per the agreement to the extent of this MOU allows. Both the parties shall be paid consequent to the execution as per agreement to the extent this MOU permits. In case of any dispute, either of party will go to Engineer In charge for mediation. Both parties may appeal against the mediation decision of Engineer-In-Charge and his decision shall be final and binding on both of us.

We have agreed as under:

1. The associated contractor will execute the mentioned work in the above work in the wholesome manner as per terms and conditions of the agreement.
2. The associated contractor shall be liable for disciplinary action if he failed to discharge the action(s) and other legal action as per agreement besides forfeiture of the security deposit.
3. All the material, machinery and equipment, tools and tackles required for execution of the above mentioned works as per agreement shall be the responsibility of the associated contractor.
4. The site staff required for the above-mentioned work shall be arranged by the associated contractor as per terms and conditions of the agreement.
5. Site order book maintained for the said work shall be signed by the main contractor as well as by the Engineer of the Associated Contractor or by Associated Contractor himself.

6. All the correspondence regarding execution of the above-mentioned work shall be done by the Engineer In Charge with the Associated Contractor with a copy to the Main Contractor. In case of non-compliance of the provisions of agreement, the Main contractor, as well as the Associated Contractor shall be responsible. The action under clauses 2 and 3 shall be initiated and taken against the Main Contractor.
7. The associated contractor shall be an well-known specialized agency/original equipment manufacturer (OEM) as per preferred makes/brand list/applicator as mentioned in the tender document and the proof should be attached in this regard.

SIGNATURE OF MAIN CONTRACTOR SIGNATURE OF ASSOCIATED CONTRACTOR

Date

Date

Place

Place

Water proofing Treatment

The contractor shall give Eight years guarantee in the prescribed proforma for water proofing items specified in the schedule of quantities. In addition to this, 10% of the executed cost of items shall be retained either in cash /fixed deposit or in the form of bank guarantee, which shall be released after the expiry of Eight years from the date of completion if no defects is found in water proofing or the defects are made good. This amount shall be adjusted against the expenses incurred on making good the defects if the contractor commits breach of guarantee.

GUARANTEE

Guarantee bond for removal of defects after completion in respect of water proofing works

The Agreement made this day of Two thousand and ----- between -----
------(hereinafter called the Guarantor of the one part)
and the Director IIT Kanpur (hereinafter called the Government of the other part).

WHERE AS THIS agreement is supplementary to a contract (hereinafter called the contract) dated and made between the GUARANTOR OF THE ONE part and the Government of the other part, whereby the contractor, inter alia, undertook to render the buildings and structures in the contract recited completely water and leak-proof.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said structures will remain water and leak-proof for Eight years from the date after the maintenance period prescribed in the contract.

NOW THE GUARANTOR hereby guarantees that water proofing treatment given by him will render the structures completely leak proof and the minimum life of such water proofing treatment shall be Eight years to be reckoned from the date after the maintenance period prescribed in the contract. Provided that the Guarantor will not be responsible for the leakage caused by earthquake or structural defects or misuse of roof or alteration and for such purpose:

- (a) Misuse of roof shall mean any operation which will damage proofing treatment, like chopping of firewood and things of the same nature which might cause damage to the roof.
- (b) Alteration shall mean construction of an additional storey or a part of the roof or construction adjoining to existing roof whereby proofing treatment is removed in parts.

- (c) The decision of the Engineer-in –charge with regard to cause of leakage/seepage shall be final.

During this period of guarantee the guarantor shall make good all defects and in case of any defect being found, render the building water proof to the satisfaction of the Engineer-in–charge at his cost and shall commence the work for the rectification within seven days from the date of issue of the notice from the Engineer-in–charge calling upon him to rectify the defects failing which the work shall be done by the department by some other agency contractor at the GUARANTOR’s risk and cost. The decision of the Engineer-in–charge as to the cost payable by the Guarantor shall be final and binding.

That if guarantor fails to make good all defects or commits breach thereunder then the Guarantor will indemnify the principal and his successors against all loss, damage, cost expense otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Government the decision of the Engineer-in-Charge will be final and binding on the parties.

IN WITNESS WHERE OF these presents have been executed by the Obliger and by Superintending Engineer, IIT Kanpur for and on behalf of the Director IIT Kanpur on the day, month and year first above written SIGNED, SEALED AND delivered by OBLIGOR in the presence of:

1..... 2.

Signed for and on behalf of Director IIT Kanpur

BY Superintending Engineer,

IIT Kanpur

in the presence of:

1.

2.

ADDITIONAL TERMS & CONDITIONS FOR WATER PROOFING TREATMENT

The contractor shall associate himself with the specialized firm, to be approved by the Engineer-in-charge in writing, for water proofing treatment for basement/lower ground floor, underground tank and on roofs. Guarantee in the prescribed proforma attached with tender document shall be given by the specialized firm, for a period of Eight years from the date after the maintenance period prescribed in the contract, which shall be counter signed by the contractor as token of overall responsibility. In addition, 10% (ten percent) of the cost of water proofing items shall be retained as guarantee to watch the performance of the work done. However half of this retained amount will be released after five years, if the performance of the work done is found satisfactory. If however any defect is noticed during the guarantee period, it shall be rectified by the contractor within seven days of intimation. In case it is not attended to, the same will be got done by another agency at the risk and cost of the contractor. This guarantee deposit can however be released in full if a bank guarantee of equivalent amount for 08 years is produced and deposited with the department by the contractor.

Roofing and water proofing

The following shall NOT be measured separately and shall be deemed to be included in the rates quoted

1. Preparation of surface for laying of insulation and Waterproofing treatment as required by the specialist Contractors. The surface should be cleared of all loose mortar, dust and waste by hacking and cleaning with wire brush.
2. All cutting, dressing, trimming and waste including cutting to required shapes.
3. Work in narrow widths, to required profiles and at all locations as shown.
4. Work at all heights and depths.
5. Testing of treated areas in approved manner for performance of the treatment.
6. Treating all openings and around all pipes or such, passing through
7. All protection to the water-proofing surfaces to prevent damage by other trades.
8. The treatment shall carry a guarantee of 08 years, which shall be given by the water - proofing specialist contractor and countersigned by the main contractor. The main contractor shall be fully responsible for the

performance of the water-proofing treatment.

9. Minor modifications in the contract specifications of the treatment, may be accepted according to the method of the treatment of the respective water-proofing specialist contractor

6 Proforma of Schedules

Operative schedules shall be supplied separately to each intending tenderer

SCHEDULE "A"	Schedule of Qty	Uploaded separately
---------------------	-----------------	---------------------

SCHEDULE 'B'

Schedule of materials to be issued to the contractor:

S. No.	Description of item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of issue
1	2	3	4	5
NIL				

SCHEDULE 'C'

Schedule of Tools and Plants to be hired to the contractor

S. No.	Description	Hire charges per day	Place of issue
1	2	3	4
-----NIL -----			

SCHEDULE "D"	Extra schedule for specific requirements/document for the work, if any:	As attached in tender form.
SCHEDULE "E"	Schedule of component of other Materials, Labour, POL etc. for price escalation	N. A.
SCHEDULE "F"	Reference to General Conditions of contract.	
Name of Work:	Repair and Renovation of Toilets including Replacement of Damaged/Corroded duct and sunken floor of (2nd, 4th, & 6th Floors) CI & GI Pipe Lines, Sanitary Fittings, Main Doors, Toilet Windows, and External Plastering of toilet back side at D-Block GH-Tower	
Estimated cost of the work:	Rs. 4475979/- (With GST)	

Earnest money	Rs. 89520/-
Performance Guarantee	PG shall be 5% of the Estimated cost put to tender (ECPT) or contract amount whichever is higher, valid up to stipulated date of completion and Six (6) months beyond that. a) A bid will be treated abnormally low if the quoted amount is lesser than 80% of estimated cost put to tender. b) Requirement of Additional Performance Guarantee (APG): In case of abnormally low bids as defined above, the bidder shall be required to submit Additional Performance Guarantee (APG) in addition to the Standard Performance Guarantee (PG). The amount of Additional Performance Guarantee (APG) shall be equivalent to the difference between the 80% amount of ECPT and quoted amount. (e.g. if is A and quoted amount is 0.7A then the amount of APG shall be 0.8A-0.7A). The Additional Performance Guarantee (APG) shall be in the prescribed format of Performance Guarantee and must be submitted within the time frame prescribed for submission of Performance Guarantee. The other terms and conditions of release etc. of APG shall be same as that of PG.
Security Deposit	2.5% of the tendered value of the work

General rules and direction:

Officer inviting tender	Superintending Engineer, IWD, IIT, Kanpur
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Definitions:

2(v)	Engineer-in-charge	
	For civil item works	Executive Engineer, IWD, IIT Kanpur
2(vi)	Accepting authority	Superintending Engineer, IWD, IIT Kanpur
2(vii)	Percentage on cost of materials and labour to cover all overheads and profits	15%
2(viii)	Standard Schedule of	D.S.R. 2023 – GST with

		Or successor thereof
Clause 6A	Computerized Measurement of bills	APPLICABLE
Clause 7		APPLICABLE
Clause 10A	Material to be provided by the contractor	APPLICABLE
Clause 10B (ii), (iii)	Whether clause 10-B (ii) and 10-B (iii) shall be applicable.	NOT APPLICABLE
Clause 10 C	Component of labour expressed as percentage of value of work	NOT APPLICABLE
Clause 10 CA		NOT APPLICABLE
Clause 10 CC	Increase/Decrease in Price of materials/wages	NOT APPLICABLE
Clause 11		CPWD Specifications of all Civil items (CPWD Civil specification vol.1 and vol.2, 2019), with correction Slips issued up to the last date of receipt of tenders and as per NIT for Civil Works .
Clause 12: Type of work		Renovation work
Clause 12.2 & 12.3: Deviation limit beyond which clause 12.2 & 12.3 shall apply for Building works		100 %
Clause 16 Competent Authority for deciding reduced rates: for Civil items and For Electrical items of		As per table 7

work		
Clause 17 - Defect liability period completion of contract whichever is later		One year from the date of virtual completion of work.

Table 9: Requirement of Technical staff as per Clause 32

Sl. No.	Qualificati on	Number	Minimum Experience in years	Designati on	Rate at which the recovery shall be made from the contractor in the event of not fulfilling provision of Clause 32
1.	Graduate / Diploma	1	5	Project / Planning / constructi on / billing Engineer (Civil)	Rs. 25000/- (Rupees Twenty Five Thousand only) per month, per person
Note: Assistant Engineers retired from Government services who are holding Diploma will be treated at par with Graduate Engineers. Diploma holder with minimum 10 years relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineer.					
The details of appointed engineers/technical staffs have to be verified and approved by Engineer- in-charge					
Clause 36 (i)				Requirement of technical Representative(s)	
For supervision of civil as well as electrical items of work, technical representatives of the respective disciplines will be required to be deployed.					
Clause 42 i)	a) Schedule/ statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule			D.S.R. 2023 (with up to date correction slips)	

	of Rates 2023 printed by CPWD	
ii)	Variations permissible on theoretical quantities	
a)	Cement for works with estimated cost put to tender not more than Rs. 5 lakhs. For works with estimated cost put to Tender is more than Rs. 5 lakhs	3% plus/minus 2% plus / minus
b)	Steel reinforcement and structural steel Sections for diameter, section and category.	2% plus/minus
c)	All other materials	NIL

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

Sl No	Description of items	Rates in figures and words at which recovery shall be made from the contractor	
		Excess beyond permissible variation	Less use beyond the permissible variation
1.	Cement (PPC)	Double the Issue rate	Double the Issue rate
2.	Steel reinforcement (TMT Bars)	Not Applicable	Not Applicable

7 Scope of work

7.1 Brief of the works

1. EARTH WORK
2. CEMENT CONCRETE (CAST IN SITU)
3. MASONRY WORK
4. CLADDING WORK
5. WOOD AND P. V. C. WORK
6. STEEL WORK
7. FLOORING
8. ROOFING
9. FINISHING
10. REPAIRS TO BUILDING
11. Dismantling and Demolishing
12. SANITARY INSTALLATIONS
13. WATER SUPPLY
14. DRAINAGE
15. ALUMINIUM WORK
16. WATER PROOFING
17. NEW TECHNOLOGIES AND MATERIALS
18. MINOR CIVIL MAINTENANCE ITEM

Note: The scope of the works listed above is indicative only. For the details of the works specifications, please refer to the BoQ and corresponding the detailed CPWD specifications 2019 Vol I & II.

7.2 Materials Verification

The contractor shall inform the Engineer in charge in advance, for verifying the measurement of the concealed items if any like reinforcement bars, pipes laying etc., done by the contractor on the very day of the above said events.

7.3 List of Preferred Makes for Civil Works (as applicable)

Preferred makes of materials to be used in the work are as under. In case of non-

availability of these makes, the Engineer-in-charge may allow use of alternative BIS makes of materials in the work. Non-BIS marked materials may be permitted by the Engineer-in-charge. This is a general list of makes. All makes applicable as per Schedule of Quantities must be as per the Institute preferred make.

Sl. No.	Material description	Manufacturer / Brand Name
1.	Ready Mix Concrete	Ultratech Concrete, ACC Ready Mix and RMC India
2.	Cement (PPC/OPC)	ACC, Ultratech, Vikram, Shree Cement, Abuja, JK Cement, Century Cement, Jaypee Cement & Prism Cement.
3.	White Cement	Birla White, J.K. White
4.	Reinforcement Steel	SAIL, Tata Steel Ltd, RINL, Jindal Steel & Power Ltd. and JSW Steel Ltd
5.	Waterproofing compounds, admixtures, plasticizer, super plasticizer, curing compounds	Fosroc, ROFF/Dr. Fixit (Pidilite Industries), STP Ltd., Sika, BASF, Ardex Endura & Parma Construction Aids Pvt. Ltd.
6.	Integral water proofing compound with cement (for plaster & mortar)	Fosroc: Conplast 421, Dr. Fixit : LW+, Sika: Sikacim, Asian Paint: SmartCare Vitalia & equivalent product of BASF, STP Ltd., Ardex Endura, Perma Construction Aids Pvt. Ltd.
7.	Water proofing compound for bathroom/ toilet /balcony & other wet area	Fosroc: Bush Bond, STP Ltd.: Shalicrote, CICO: Tapecrete, Dr. Fixit : Pidifine 2K, Sika : Topseal 107, Asian Paints: Damp Block 2K & equivalent
8.	Crystalline water proofing compound	Product of BASF, Ardex Endura, Perma Construction Aids Pvt. Ltd. Fosroc: Bushbond TGP, Dr. Fixit : Dr. Fixit Krystalline, Sika: Sika 101h, Asian Paints: SmartCare & equivalent product of BASF, Ar- dex Endura, STP Ltd., Perma Construction Aids Pvt.
9.	Grouts, Tile Adhesive	Laticrete, STP Ltd., Kajaria, BASF, Perma, Ardex Endura, JK White & Ferrous Crete.
10.	Structural steel	SAIL, Tata Steel, Rashtriya Ispat Nigam Ltd. (RINL), JSW Steel Ltd., Jindal Steel & Power Ltd.
11.	Polycarbonate sheet	GE Plastic, LEXAN & MG Polyplast
12.	Profile steel sheet	Ezydeck of TATA, Lloyd Superdeck, JSW, Jindal
13.	Particle board	Action TESA, Merino, Archidply & Orion Doors
14.	Laminates	Action TESA, Greenlam, Century Ply, Merino, Archidply, Virgo & Orion doors
15.	Flush door shutters	Duro, Century, Durian, Archidply, Green Ply, JAYNA (Jain Wood Industries), Jain Doors Pvt. Ltd., GREENPANEL & Orion Doors Note: Only ISI marked flush door shutters to be used.
16.	Fire rated doors	Signum fire protection, Shakti Metdoor,

	NAVAIR, Promat, Thrislington, Sukri & Bhawani. If fire rated glass is integral part of fire rated door than it should be of one of the following makes: Pyroguard, Saint Gobain, Asahi India, Pilkington & Schott
17. False ceiling system	Armstrong, USG Boral, Saint Gobain, Aerolite, Interarch, Hi- steel of PR Ceiling Products
18. Plywood / Veneer	Greenply, Century, Merino, Durian, Archidply, GREENPANEL & Orion Doors.
19. Melamine polish	Asian Paints melamine gold, Wudfin of Pidilite & Timbertone of ICI dulux.
20. Floor spring & door closer	Godrej, Dormakaba, Dorset & Kich
21. Aluminum section	Hindalco, Jindal & Indian Aluminium Co.
22. Anodized aluminum hardware (Heavy Duty)	Kilon, Alualpha, Classic & Ebco.
23. Clear / Float/Frosted/Toughen Glass/ Refractive glass	Saint Gobain, AIS & Modiguard
24. Stainless steel railing, Accessories etc.	JINDAL, Dormakaba, Kich, GEZE, Godrej & Hardwyn
25. SS fittings for doors & window	Jindal, Dormakaba, Kich, Dorset, Godrej, Ozone & Define
26. Silicon based water repellent /weather sealant	GE Plastics, STP Ltd., Dow Corning, Waker, BASF & Pidilite (Dr. Fixit/ Roff
27. Poly-Sulphide Sealant	Fosroc, STP Ltd., Pidilite (Dr. Fixit/Roff), Sika & BASF
28. Mosaic tiles/Chequered Tiles	Ultra Tiles, NITCO, Hyper, Mayur & Pavcon,
29. Glazed Ceramic Tiles	Kajaria, NITCO, Orient Bell, Johnson, RAK & Varmora
30. Vitrified Tiles (Antiskid /Matt /Glazed)	Kajaria, NITCO, Orient Bell, Johnson, RAK, Varmora & Restile
31. Paver block & Kerbstone	Pavcon, Hyper, Mayur, KK, Power, Sharda & Navya
32. Cement Based wallputty	Asian Paints, Birla Wall Care, JK, White
33. Oil bound washable distemper / dry distemper	Asian Paints (Professional Acrylic Distemper), Nerolac: Beauty Acrylic Distemper, Berger: Bison Acrylic Distemper& Dulux ICI: Maxilite
34. 1st quality acrylic distemper (washable/	Asian Paints (Tractor Aqua Lock Paint), Berger: Commando or equivalent paints of Nerolac & ICI-

ready mix / Low VOC)	Dulux
35. Acrylic emulsion paints	Asian Paints: (Professional Premium Interior, Emulsion Paint), Nerolac: Beauty Gold, Berger: Rangoli Total Care & ICI Dulux: Super Cover, Indigo
36. Plastic emulsion paint	Asian Paints: (Apolite Heavy Duty Premium Emulsion Paint), Nerolac: Impression, Berger: Easy Clean & ICI Dulux: 3 in 1
37. Premium acrylic emulsion paints (Interior)	Asian Paints: (Royale Luxury Emulsion), Nerolac: Impression, Berger: Silk & ICI Dulux: Velvet Touch, Indigo
38. Textured exterior paint	Asian Paints, Nerolac, Berger Paints, Ultratech Paints & Luxture
39. Acrylic smooth exterior paint	Asian Paints: (Apex/Professional Premium Exterior Emulsion), Nerolac: XL, Berger: Weather Coat & ICI Dulux: Weather Shield, Indigo
40. Premium acrylic smooth exterior paint with silicone additive	Asian Paints: Apex Ultima, Nerolac: XL total, Berger: Weather Coat all Guard & ICI Dulux : Weather Shield Max
41. Synthetic Enamel Paint	Asian Paints: Apolite Premium Gloss Enamel, Nerolac: Synthetic Hi gloss, Berger: Luxol Hi gloss & ICI Dulux: Gloss Synthetic enamel.
42. Cement Primer	Nerolac, Berger (BP white), STP Ltd., Asian (Decoprime WT) & ICI (White primer).
43. Steel primer (Red Oxide Zinc Chromate Primer)	Asian Paints, Nerolac, Berger & ICI
44. Wood primer	Asian Paints (wood primer - White/Pink), Berger, ICI & Nerolac
45. Epoxy paint	Asian Paints, STP Ltd., Nerolac, Berger, ICI, Kansai, & Akzo Nobel
46. Fire paint	Asian paint, STP Ltd., Akzo Nobel, PROMAT, & JOTUN
47. GI/MS Pipe	Tata, Jindal (Hisar) & Prakash Surya

48. GI Fittings	Unik, AVR & Zoloto
49. HDPE Pipes	Reliance, Jain Pipes, ORIPLAST & Supreme
50. DI Pipes & fittings	Electrosteel, Jindal, TATA DUCTURA, Kapil Ansh & Kesoram
51. UPVC pipe and fittings	Astral, Supreme, Prince, M/s Skipper Ltd, Ashirwad & Prayag Polymers Pvt. Ltd
52. SW Pipes (BIS approved)	Anand, Parry & Perfect
53. Centrifugally Cast (Spun) Iron Pipes & Fittings /Hub less pipes& fittings	NECO, BIC, Kapilansh, SKF, Raj Pattern Makers & Founders Pvt. Ltd. or any other ISI marked make
54. CI Manhole covers, frames & GI Gratings	NECO, BIC, SKF & Kapilansh,
55. SFRC Manhole covers & gratings	K K Jain & Pragati
56. CP brass fittings (Superior range)	Jaquar, Grohe, Roka & Kohlar.
57. Sanitary ware, fittings & accessories	Kerovit (Kajaria), CERA, Jaquar, Parryware, Hindware & Prayag Polymers Pvt. Ltd.
58. Mirror glass	Atul, Modi Guard & Golden Fish
59. CPVC Pipe & fitting	Astral, Superme, Prince, M/s Skipper Ltd., Ashirwad & Prayag Polymers Pvt. Ltd.
60. Stainless steel sink	Neelkanth, Niralli, Jyna & Prayag Polymers Pvt. Ltd.
61. FRP doors shutters & frame	Jayna, Fiberways, Jain Doors Pvt. Ltd. & Selected Product Co,
62. Extruded polystyrene insulation board	Dowcorning, Supreme, Texas & Analco
63. Gypsum plaster	Ferrous Crete, Gyproc Saint Gobain, Ultra Tech & J K White
64. Floor hardener	Ironite, Perma, STP Ltd., Ferrok & Hardonate

65.	Modular Joint	Expansion	Herculus, Sanfield India Ltd & Vexcolt
66.	Glass Wool		Dow Corning, UP Twiga & Isover
67.	uPVC door/window/ventilator		Fenesta, Komerling, Rheau, Veka, Duroplast, Aluplast & Advika Profiles Pvt. Ltd. (Fabrication and installation will be done by profile
68.	uPVC doors and window hardware		Manufacturer or his authorized fabricator). Roto, Dorset, DNV Accado & Kinlong
69.	AAC block Adhesive		UltraTech, Perma, Ardex Endura & Ferrous Crete
70.	PVC Water Tank		Syntex & Vectus
71.	AAC Block		MAX Blocks, UltraTech, HIL & BILTECH ACE & Gravit
72.	Modular Kitchen		Everyday/Hettich/Steel Art Brand Baskets of AISI 304(18/8); Hettich/Hafele Brand Auto closing, Concealed Hinges; DMS/ Dynasty/ Indoline brand shutter
73.	Aluminum shuttering		Knest, S-form, Durand Forms (India) Pvt. Ltd. & Mivan
74.	MS Tubular windows & Pressed Steel door frames		Jangid Engineering Works, AGFUV, Sen Harvic, Navair Delhi & Sukriti Delhi
75.	Dash fasteners /Anchors		Hilti, Bosch & Fischer

8 Terms & Conditions of Contract

8.1 Timely Completion

1. The work included in this tender is of urgent nature.
2. The work of all components must be started simultaneously and has to be delivered together or early within the given time schedule.
3. The contractor has to deploy the labor and supervisory staff in shifts to meet the targeted completion date. The work may be executed in extended shifts or two shifts.
4. Number of days from the date of issue of letter of acceptance for reckoning date of start shall be as per Schedule. If the Contractor commits default in commencing the execution of the work as aforesaid, the performance guarantee shall be forfeited.
5. The detailed program chart approved by the engineer-in-charge shall indicate how the resources will be deployed by the contractor to maintain desired progress and for the completion of the work within the specified period. If the submitted program is approved, the milestone shall be redefined accordingly by the Executive Engineer of IWD, IITK. The amount to be withheld in such a case, for non-achievement of milestone(s), shall remain unaltered. Any delay in achieving the milestone must be compensated within the limitations of time imposed in the Contract document.
6. The contractor shall procure the required materials in advance so that there is sufficient time for testing of the materials and approval of the same before use in the work, as required.

8.2 Rates

1. Unless otherwise provided in the schedule of quantities of the work the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing extra shall be payable to him on this account.
2. The rates for all items of work shall, unless clearly specified otherwise, include cost of all labours, materials and other inputs involved in the execution of the item irrespective of whether they have been specifically mentioned in the tender document or not.
3. In case the same item (s) appear more than once in the schedule of work / BOQ under the same sub head or among the different subhead of works, the lowest rate quoted for that item (s) shall be considered for the particular item(s) wherever appeared in any part of BOQ / Schedule of works for the

purpose of tender evaluation although web generated e-price bid may incorporate different quoted rate for same item(s) as per the quoting pattern of the tenderer. The tendered amount thus worked out shall be final & shall be binding on the contractor.

4. The rates quoted by the contractor will be deemed to be inclusive of any extra expenditure of this reason. The contractor has to increase the manpower or other tools etc. to do the work as per requirement of the work at his own expenses. Nothing shall be paid on this account.
5. The contractor shall provide at his own cost suitable weighing, surveying and leveling and measuring arrangements as may be necessary at site for checking. All such equipments shall be got calibrated in advance from laboratory, approved by the Engineer-in-Charge. Nothing extra shall be payable on this account.
6. Other agencies may also simultaneously execute and install the works and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings, trenches etc. as may be required for such related works (for which inserts, sleeves, brackets, conduits, base plates, clamps etc. shall be available as specified elsewhere in the contract) and the contractor shall fix the same at the time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account.
7. All material shall only be brought at site as per program finalized with the Engineer-in- Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.
8. Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should conform to approved manufacturers specifications where CPWD Specifications are not applicable. The contractor should get the materials (fixtures/fittings) tested from approved labs wherever required at his own cost.
9. The contractor shall be responsible for the watch and ward / guard of the buildings, safety of all fittings and fixtures including sanitary and water supply fittings and fixtures provided by him against pilferage and breakage during the period of installations and thereafter till the building is physically handed over to the client department. No extra payment shall be made on this account.
10. The rates quoted by the Contractor are deemed to be inclusive of site clearance, setting out work, profile, establishment of reference bench mark(s), taking spot levels, construction of all safety and protection devices, barriers, preparatory works, working during monsoon, working at all depths, height, lead, lift and location etc until / unless specified otherwise and any other incidental works required to complete this work. Nothing extra shall be payable on this account.

8.3 Quality and Workmanship

1. The contractor shall be entirely responsible and answerable for all the works done by him regarding quality, adherence to the laid down specifications, terms and conditions, warranty/guarantee etc. and he shall be liable to bear any compensation that may be levied by the department under any of the clauses of the agreement.
2. The materials having ISI mark shall have precedence over the one conforming to IS Specifications.
3. The proposed is for Institute premises and quality of work is paramount importance. Contractor shall have to engage well experienced skilled labour and deploy modern T & P and other equipment to execute the work.
4. Samples of all materials and fittings to be used in the work in respect of brand manufacturer and quality shall be approved from the Engineer-in-Charge, well in advance of actual execution and shall be preserved till the completion of the work.
5. All materials used in the work shall be new and of good quality, conforming to the relevant specifications as per good engineering practice. All the materials proposed to be used in the work should be approved from Engineer in Charge before use in work.
6. Articles bearing BIS certifications mark shall only be used unless no manufacturer has got BIS/ISI mark for the particular material. Any material/fitting whose sample has not been approved in advance and any other unapproved material brought by the contractor shall be immediately removed as soon as directed. Where the make of any particular material is not specified in the Contract document, the material shall be supplied as per makes desired by the engineer-in-charge.
7. It will be the responsibility of the contractor / bidder to ensure use of genuine materials in the work. The department reserves the right to get (any / all materials / components) inspected by the manufacturer or their authorized representatives at any stage of the execution of work. If any of the materials, supplied and used in work is found spurious at any stage, then the department reserves the right to ask the contractor to replace it by genuine one and make suitable recovery till it is done, even if any payment against that material is already made.
8. The contractor should get the make/TDS documents approved before procuring any material at site. The TDS/Make once approved shall not be changed without any valid recorded reasons. No material to be brought and used at site without the prior knowledge & approval of Engineer-in-Charge.

9. The department may ask for any valid document like manufacturer's test certificate, document for purchase of the material, document for import/shipment of imported material etc. as deemed fit by the engineer-in-charge to ascertain genuineness of material supplied by/used in the work by the contractor. The contractor shall remain bound to submit all such documents to the department failing which payment may not be made or if already paid may be recovered/withheld from subsequent running account payment.
10. All equipment and their components, and all the materials to be used in the work shall be suitable for the environmental conditions at the location of the work.
11. The contractor shall ensure quality control measures on different aspects of construction including materials, workmanship and correct construction methodologies to be adopted. He shall have to submit quality assurance programme within two weeks of the award of work. The quality assurance programme should include method statement for various items of work to be executed along with check lists to enforce quality control.
12. The contractor shall get the source of all other materials, not specified elsewhere in the document, approved from the Engineer-in-Charge. The contractor shall stick to the approved source unless it is absolutely unavoidable. Any change shall be done with the prior approval of the Engineer-in-Charge for which tests etc. shall be done by the contractor at his own cost. Similarly, the contractor shall submit brand/ make of various materials not specified in the agreement, to be used for the approval of the Engineer-in-Charge along with samples and once approved, he shall stick to it.
13. The contractor shall arrange carrying out of all tests required under the agreement through the laboratory as approved by the Engineer-in-Charge and shall bear all charges in connection therewith including fee for testing. The said cost of tests shall be borne by the contractor/department in the manner indicated below.
 - a) By the contractor, if the results show that the test does not conform to relevant CPWD Specifications / BIS code or specification mentioned elsewhere in the documents.
 - b) By the department, if the results conform to relevant CPWD Specifications / BIS code or specification mentioned elsewhere in the documents.
14. Sample of building materials fittings and other articles required for execution of work shall be got approved from the Engineer-in-Charge. Articles manufactured by companies of repute and approved by the Engineer-in-Charge shall only be used. Articles bearing BIS certification mark shall be used in case the above are not available, the quality of samples brought by the contractor shall be judged by standards laid down in the relevant BIS specifications. All materials and articles

brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work.

15. The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material/work beyond set out tolerance limit shall be summarily rejected by the Engineer-in-Charge.
16. BIS marked materials except otherwise specified shall be subjected to quality test at the discretion of the Engineer-in-Charge besides testing of other materials as per the specifications described for the item/materials. Wherever BIS marked materials are brought to the site of work, the contractor shall if required, by the Engineer-in-Charge furnish manufacturers test certificate or test certificate from approved testing laboratory to establish that the material produced by the contractor for incorporation in the work satisfies the provisions of BIS codes relevant to the material and/or the work done.
17. All materials brought by the contractor for use in the work shall be got checked from the Engineer-in-Charge or his authorized representative of the work on receipt of the same at site before use.
18. All the material brought by the contractor for use in the work shall be got checked from the Engineer-in-Charge or his authorized representative of the work on receipt of the same at site before use.
19. The contractor shall be fully responsible for the safe custody of the materials issued to him even if the materials are in double lock and key system.

8.4 Natural calamity:

No payment will be made to the contractor for any damage caused by rain, snow fall, floods, dampness, fire, sun or any other natural cause whatsoever during the execution of work. The damage to the work due to above reason, if any, shall have to be made good by the contractor at his own cost and no claim on this account shall be entertained.

8.5 Stocking and Disposal of Materials & Debris

1. The contractor shall take instructions from the Engineer-in-Charge regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, compound wall, services etc. are to be constructed.
2. After completion of work the agency shall remove materials and debris etc. from site as per the direction of Engineer-in-Charge, at no extra cost.
3. Contractor's job will also include removing of all malba and debris arising in the process of painting including washing of floor to remove stains of paint, at no

extra cost.

4. The contractor shall conduct work so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose of the materials being used or removed so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of others.
5. For construction/renovation works which are likely to generate malba/rubbish to the tune of more than a tempo/truck load, contractor shall dispose of malba, rubbish & other unserviceable materials and wastes at their own cost to the notified/specified dumping ground and under no circumstances these shall be stacked/dumped, even temporarily outside the construction.
6. Dismantled but useful materials/components/equipment, if any, should be returned to the Institute as per the direction of Engineer-in-Charge.
7. **The dismantled materials shall not be thrown anywhere in the campus. Proper space has been marked and these shall be deposited in C & D waste site near Security Barrack only. Dumping of C & D waste in campus may attract penalty of Rs. 5000/- per tractor trolley.**

8.6 Painting

1. Contractor will thoroughly clean all paint marks left here and there due to spilling and splashes of paint at no extra cost.
2. Contractor will first submit the shade cards of relevant make of paint to IIT for approval of color before procuring the paint in bulk.
3. No mixing will be allowed with Stainer to achieve a particular color. Contractor will procure direct colour paint of approved shade and apply directly.
4. Contractor shall have to brought **100%** quantity of total premium acrylic smooth exterior silicon additives paint and water proofing cement paint and shall deposit it in the custody of concerned site Engineer before start of work. The consumption shall be monitored by the Institute. All empty drums shall have to be kept till completion of the work. The record of daily issuance of painting material drums shall be maintained duly verified by the concerned JE/AE. The Invoice of purchased qty shall be submitted to Engineer-In-Charge for checking of materials prior to start of work at site.
5. Contractor has to make a sample of exterior painting on the surface of wall and after getting approval from the competent authority. The contractor has to finish the rest of work accordingly as per satisfaction of Engineer-in-charge.

8.7 Safety and Security

1. The contractor has to follow all safety norms as laid down in National Building Code of India. All the workers shall be equipped with the required safety gadgets while working at site such as ISI marked helmets, Shoes and safety belts, gumboots, gloves etc.
2. The contractor, the authorized representative(s), workmen etc., shall strictly observe orders pertaining to fire precautions prevailing in the area.
3. The contractor shall be fully responsible for the safe custody of materials brought by him/ issued to him even though the materials may be under double lock key system.
4. Contractor will arrange proper metal ladders, M.S. double scaffolding (for working, painting, etc. at higher levels) at his own cost and will take all safety measures like double harness safety belt, mechanized electrically operated platform etc. If it is observed that work is proceeding without adequate safety precautions, work may be stopped by Engineer-in- charge and in such cases, contractor will be solely responsible for delay and its consequences thereof.
5. The contractor shall be responsible for the watch and ward/guard of the buildings, safety of all fittings and fixtures including sanitary and water supply fittings and fixtures provided by him against pilferage and breakage during the period of installations and thereafter till the building is physically handed over to the department. No extra payment shall be made on this account.
6. The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night speed limit boards red flags, red lights and providing barriers. He shall be responsible for all dangers and incidents caused to existing / new work due to negligence on his part. No hindrances shall be caused to traffic during the execution of the work.
7. It shall be ensured by the contractor that no electric live wire is left exposed or unattended to avoid any accidents in this regard.
8. The Institute shall not have any responsibility or liability in case of any accident injury to the personnel to the contractor at work site or to the general public at the work site due to mishandling equipment by the personnel of the contractor or any other similar reason. The responsibilities and liabilities for such accidents and incidents shall be borne by the contractor.

8.8 Approach to Site

1. The tenderer shall see the approaches to the site. In case any approach from main road is required at site or existing approach is to be improved and maintained for cartage of materials by the contractor, the same shall be

provided, improved and maintained by the contractor at his own cost.

2. Contractor shall take all precautionary measures to avoid any damage to adjoining property. All necessary arrangement shall be made at his own cost.

8.9 Water and Flooding

1. The contractor shall have to arrange water of desirable quality for the construction purpose for which he may have to install water purifier at site or might have to bring/ purchase water from outside as per decision of Engineer-in-charge. Nothing extra shall be paid on this account.
2. For works below ground level the contractor shall keep that area free from water. If dewatering or bailing out of water is required the contractor shall do it and nothing extra shall be paid except otherwise provided in the items of schedule of quantity.
3. In case of flooding of site on account of rain or any other cause and any consequent damage, whatsoever, no claim financially or otherwise shall be entertained notwithstanding any other provisions elsewhere in the contract agreement. Also, the Contractor shall make good, at his own cost, the damages caused, if any.
4. The water charges (for water connection) shall be borne by the contractor.

8.10 Acts and Laws

1. The Contractor shall keep himself fully informed of all acts and laws of the Central & State Governments, all orders, decrees of statutory bodies, tribunals having any jurisdiction or authority, which in any manner may affect those engaged or employed and anything related to carrying out the work. All the rules & regulations and bye-laws laid down by Collector / MC etc. and any other statutory bodies shall be adhered to, by the contractor, during the execution of work.
2. The Contractor shall also adhere to all traffic restrictions notified by the local authorities.
3. All statutory taxes, levies, charges (including water and sewerage charges, charges for temporary service connections and / or any other charges, as applicable) payable to such authorities for carrying out the work, shall be borne by the Contractor.
4. The Contractor shall arrange to give all notices as required by any statutory / regulatory authority and shall pay to such authority all the fees that is required to be paid for the execution of work. He shall protect and indemnify the Institute and its officials & employees against any claim and /or liability arising out of violations of any such laws, ordinances, orders, decrees,

by himself/herself or by his/her employees or his/her authorized representatives. Nothing extra shall be payable on these accounts.

5. The fee payable to statutory authorities for obtaining the various permanent service shall be borne by the Institute.

8.11 Labour and Laws

1. The Contractor shall display all permissions, licenses, registration certificates, bar charts, other statements etc. under various labour laws and other regulations applicable to the works, at his site office.
2. Huts for labour are not permitted within the premises of the Institute. No extra cost shall be payable even if the contractor provides such accommodation at a place as is acceptable to the local body.

8.12 Nondisclosure Agreement.

1. The Agency shall take all precautions not to disclose, divulge and/or disseminate to any third party any confidential information, proprietary information on the Institute business or security arrangements (including but not limited to the Assignment instructions, Schedules and other subsequent Arrangements) and/or business of the Institute. The obligation is not limited to any Scope and the Agency shall be held responsible in case of breach of the confidentiality of Institute's information.
2. If the Agency receives enquiries from Press/Media/Radio/Television or other bodies / persons, the same shall be referred by the Agency to Institute immediately on receipt of such queries.

8.13 Indemnification:

1. The agency shall be directly responsible to indemnify the Institute against all charges, dues, claims, etc. arising out of the disputes relating to the dues and employment of the personnel deployed and further for any claim/compensation against all damages and accidents caused due to negligence on the part of the agents, employees and other personnel of the agency.
2. That the contractor shall keep the IITK indemnified against all claims whatsoever in respect of the employees deployed by the contractor. In case any employee of the contractor so deployed enters in dispute of any nature whatsoever, it will be the primarily responsibility of the contractor to contest the same. In case IITK is made party and is supposed to contest the case, IITK will be reimbursed for the actual expenses incurred towards Counsel Fee and other expenses which shall be paid in advance by the Contractor to IITK on demand.

Further, the contractor shall ensure that no financial or Any other liability comes on IITK in this respect of any nature whatsoever and shall keep IITK indemnified in this respect.

8.14 Force Majeure:

If at any time, during the continuance of this contract, the performance in whole or in part by either party of any obligation under this contract is prevented or delayed by reasons of any war, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosion, epidemics quarantine restriction, strikes, lockouts or acts of god (hereinafter referred to as events) provided notice of happenings of any such event, is served by party seeking concession to the other as soon as practicable, but within 21 days from the date of occurrence and termination thereof. Provided the Party satisfies Institute adequately of the measures taken by it. Neither party shall, by reason 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. Further, the services under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist and the decision of Institute as to whether the services have to resume or not shall be final and conclusive, provided further, that if the performance in whole or in part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 60 days, Institute may at his option, terminate the contract.

8.15 Dispute resolution

1. The institute reserves the right to amend rules whenever and wherever considered necessary and appropriate. The same shall be intimated to the agency in due course.
2. Any dispute arising out of and in relation to this agreement shall be referred to the arbitration by sole arbitrator to be appointed by Director of the Institute. The arbitration would be conducted and governed by and under the provisions of Arbitration Act, 1996 and its amendments. Any legal dispute will be subject to jurisdiction of Kanpur Courts only and no other court shall have the jurisdiction.
3. Any dispute arising out of and in relation to this agreement shall be referred to the arbitration by sole arbitrator to be appointed by Director of the Institute. The arbitration would be conducted and governed by and under the provisions of Arbitration Act, 1996. Any legal dispute will be subject to jurisdiction of Kanpur Courts only and no other court shall have the jurisdiction.

8.16 Arbitration

1. Except as otherwise provided anywhere in this Agreement, if any dispute, difference, the question of disagreement or matter, whatsoever, arises between the parties, as to the meaning, operation or effect of the Agreement or out of or relating to the Agreement or breach thereof, the same shall be referred to a Sole Arbitrator, to be appointment by the Director of the Institute at the time of the dispute.
2. If the Arbitrator, to whom the matter is originally referred, dies or refuses to act or resigns for any reasons from the position of arbitration, it shall be lawful for the Director of the Institute to appoint another person to act as Arbitrator in the manner aforesaid. Such person shall be entitled to proceed with the reference from the stage at which it was left by its predecessor, provided both the parties consent to this effect, failing which, the arbitrator shall be entitled to proceed on the matter de- novo.
3. It is a term of the Agreement that the party invoking the arbitration shall specify all disputes to be referred to arbitration at the time of invocation of arbitration under the clause.
4. It is a term of the contract that the cost of arbitration shall be borne by the parties themselves.
5. The place of the arbitration shall be Kanpur Nagar, Uttar Pradesh, India.
6. Subject as aforesaid, the provisions of the Arbitration and Conciliation Act, 1996 and any statutory modifications, amendments or re-enactment thereof and rules made the reunder and for the time being in force, shall apply to the arbitration proceeding under this clause.
7. Except as otherwise provided anywhere in this Agreement, the Arbitration proceedings shall be conducted in English and the Agreement shall be constructed, interpreted and governed by the law of India, for the time being in force.

8.17 Jurisdiction of Courts

The court(s) at Kanpur Nagar, Uttar Pradesh, shall have the exclusive jurisdiction to try any asall the disputes(s) between the parties arising out this Agreement.

केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/MAN/410

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI

DATED: 22.10.2021

Subject: Addition of new Para 4.10.2 in CPWD Works Manual 2019 regarding testing charges to be borne by contractor.

It has been noticed that following provisions are sometimes being made in the NITs / Agreements by the NIT approving authorities:

"The cost of test shall be borne by contractor/ department in the manner as below:

- i. By the contractor, if the result shows that material does not conform to the relevant codes/ specification.
- ii. By the department, if the results show that the material conforms to relevant codes/ specification."

It has been decided by the competent authority that testing charges shall be borne by the contractor in all cases. Accordingly following new para is added in CPWD Works Manual -2019.

Existing Provision	Modified Provision
4.10 Preparation of NIT	4.10 Preparation of NIT
4.10.2 No Provision	4.10.2 Testing charges to be borne by contractor
	Following provision shall be incorporated by the NIT approving authority in the NIT:
	All expenditure to be incurred for testing of samples e.g. packaging, sealing, transportation, loading, unloading etc. including testing charges shall be borne by the contractor. The NIT shall have list of approved laboratories for testing as approved by ADG / SDG.

This issues with the approval of competent authority.

(वी.पी. साहू) 22/10/2021

अधीक्षण अभियंता(सी.एंड एम.)

e-file 9116587

Issued from file No. CSQ/CM/16(1)/2021

प्रतिलिपि: सभी केलोनिवि तथा लोनिवि दिल्ली के अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु। (केलोनिवि वेबसाईट के माध्यम से)।

Figure 1: Modified provisions in CPWD works manual 2019 regarding testing charges to be borne by contractor.

केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन
No. DG/Manual-2024/20
ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD
 Vidyut Bhawan, New Delhi Dated: 27.02.2026
Sub: Modification in Para 5.2 for CPWD Works Manual 2024.

Following modification is made in Para no. 5.2 for CPWD Works Manual 2024:

Existing Provision	Modified Provision
5.2 Performance Guarantee	5.2 Performance Guarantee
Sl. No. 1	No Change
2. PG shall be 5% of the contract amount or as prescribed from time to time to be submitted in the form as prescribed in GCC. Performance Guarantee shall remain valid for a minimum period of sixty days beyond the date of completion of all contractual obligations as per GCC. In case of contracts where supplementary agreement is drawn, the fresh PG shall be obtained from the contractor @ 5% of the amount of the supplementary agreement or as prescribed from time to time. The PG received against the original work shall be released as per contract conditions.	2. PG shall be 5% of the Estimated cost put to tender (ECPT) or contract amount whichever is higher , or as prescribed from time to time, to be submitted in the form as prescribed in GCC. Performance Guarantee shall remain valid for a minimum period of six months beyond the date of completion of all contractual obligations as per GCC. In case of contracts where supplementary agreement is drawn, the fresh PG shall be obtained from the contractor @ 5% of the amount of the supplementary agreement or as prescribed from time to time. The PG received against the original work shall be released as per contract conditions.
Sl. No. 3	No Change
4. No provision	4. A bid will be treated as abnormally low if the quoted bid amount is lesser than 80% of the estimated cost put to tender.
5. No provision	5. Requirement of Additional Performance Guarantee (APG) : In case of abnormally low bids as defined above, the bidder shall be required to submit Additional Performance Guarantee (APG) in addition to the Standard Performance Guarantee (PG). The amount of Additional Performance Guarantee (APG) shall be equivalent to the difference between the 80% amount of ECPT and quoted amount. (e.g. if ECPT is A and quoted amount is 0.7A then the amount of APG shall be

D.P. Jindal
EE (Contract)

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	0.8A – 0.7A). The Additional Performance Guarantee (APG) shall be in the prescribed format of Performance Guarantee and has to be submitted within the time frame prescribed for submission of Performance Guarantee. The other terms and conditions of release etc. of APG shall be same as that of PG.
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This is issues with the approval of DG CPWD.


 ((चन्दर पाल))
 अधीक्षण अभियंता (सी. एन्ड एम.)
 Chandar Pal, SE (C&M)

Issued from file No. CSQ/CM/16(1)/2026 e-file 9212995 (DFA/ 9365789)

केलोनवि तथा लोनवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु। (केलोनवि वेबसाईट के माध्यम से)


 D.P. Jindal
 EE (Contract)

Bill of Quantity:

SLNo	Description	Qty	Unit	Rate	Amount
1	EARTH WORK				
1.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
1.1.1	All kinds of soil.	4	cum	260.30	1041.00
1.2	Excavating trenches by mechanical / manual means of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth, 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:				
1.2.1	All kinds of soil				
1.2.1.1	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	7	metre	352.15	2465.00
1.3	Surface dressing of the ground including removing vegetation and in- equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.				
1.3.1	All kinds of soil	30	sqm	34.15	1025.00
	Sub-Total				4531.00
2	CEMENT CONCRETE (CAST IN SITU)				
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
2.1.1	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	0.5	cum	7878.50	3939.00

2.2	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:				
2.2.1	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	17.88	cum	9895.20	176926.00
2.3	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	3	sqm	749.30	2248.00
	Sub-Total				183113.00
3	MASONRY WORK				
3.1	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in:				
3.1.1	Cement Mortar 1:6(1 cement :6 coarse sand).	1.71	cum	6295.15	10765.00
3.2	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 :				
3.2.1	Cement mortar 1:6(1 cement : 6 coarse sand)	1.35	cum	9105.95	12293.00
3.3	Brick work 7 cm thick with common burnt clay F.P.S. (non modular) brick of class designation 7.5 in cement mortar 1:3 (1 cement: 3 coarse sand) in superstructure above plinth level and upto floor five level.	2	sqm	865.65	1731.00
3.4	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
3.4.1	Cement mortar 1:4(1 cement :4 coarse sand)	33	sqm	1123.80	37085.00

3.5	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	3	metre	60.85	183.00
	Sub-Total				62057.00
4	CLADDING WORK				
4.1	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels.				
4.1.1	Granite stone slab of colour black, Cherry/Ruby red				
4.1.1.1	Area of slab over 0.50 sqm	2	sqm	5136.30	10273.00
4.2	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	3	each	978.70	2936.00
4.3	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.	195	sqm	1267.95	247250.00
	Sub-Total				260459.00
5	WOOD AND P. V. C. WORK				

5.1	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:				
5.1.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	12.6	sqm	2392.65	30147.00
5.2	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 :				
5.2.1	300x16 mm	7	each	303.25	2123.00
5.3	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 :				
5.3.1	150x10 mm	20	each	82.55	1651.00
5.4	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 :				
5.4.1	125 mm	40	each	66.25	2650.00
5.5	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.				
5.5.1	Twin rubber stopper	7	each	72.35	506.00

5.6	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm 1\text{mm}$), with wall thickness 2.0 mm ($\pm 0.2\text{ mm}$), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1 mm ($\pm 0.1\text{ mm}$) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer- in-charge				
5.6.1	Extruded section profile size 42x50 mm	84	metre	331.35	27833.00
5.7	Providing and fixing to existing door frames.				
5.7.1	25 mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762 mm X 25 mm or less as per requirement with an average wall thickness of 1 mm ($\pm 0.3\text{ mm}$). PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm ($\pm 0.1\text{ mm}$) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25 mm X 11 mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufacturer's specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places	26	sqm	3068.85	79790.00
5.8	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.				
5.8.1	100mm	14	each	90.45	1266.00
	Sub-Total				145966.00
6	STEEL WORK				

6.1	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.				
6.1.1	Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	15	sqm	1133.55	17003.00
	Sub-Total				17003.00
7	FLOORING				
7.1	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	244.72	sqm	1112.70	272300.00
	Sub-Total				272300.00
8	ROOFING				
8.1	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	2	each	298.25	597.00
	Sub-Total				597.00
9	FINISHING				
9.1	12 mm cement plaster of mix:				
9.1.1	1:6 (1 cement: 6 coarse sand)	30	sqm	343.65	10310.00
9.2	15 mm cement plaster on rough side of single or half brick wall of mix:				
9.2.1	1:4(1 cement: 4 coarse sand)	445	sqm	411.75	183229.00
9.2.2	1:6(1 cement: 6 coarse sand)	340	sqm	395.35	134419.00
9.3	6 mm cement plaster of mix:				
9.3.1	1:3(1 cement :3 fine sand)	9	sqm	300.45	2704.00
9.4	Neat cement punning.	310	sqm	79.95	24785.00
9.5	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of				

	required shade:				
9.5.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)	475	sqm	171.10	81273.00
9.6	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				
9.6.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	66	sqm	226.25	14933.00
9.7	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 :				
9.7.1	15 mm wide and 15 mm deep groove	300	metre	75.15	22545.00
9.8	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.	150	sqm	156.05	23408.00
9.9	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade				
9.9.1	Old work (one or more coats applied @ 0.83 ltr/10 sqm).	115	sqm	88.55	10183.00
9.1	Distempering with 1st quality acrylic distemper (Ready mix) having VOC content less than 50 grams/ litre of approved brand and manufacture to give an even shade : Two or more coats on old work	686	Sqm	125.85	86333.00
	Sub-Total				594122.00
10	REPAIRS TO BUILDING				

10.1	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube chollies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge. The elevational area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding. Note: - This item to be used for maintenance work judiciously, necessary deduction for scaffolding in the existing item to be done.	757	sqm	338.25	256055.00
10.2	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.	21	each	288.10	6050.00
10.3	Dismantling W.C. Pan of all sizes including disposal of dismantled materials including malba all complete as per directions of Engineer-in-Charge.	15	each	134.10	2012.00
10.4	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	636	metre	3.25	2067.00
	Sub-Total				266184.00
11	Dismantling and Demolishing				
11.1	Demolishing lime concrete manually/ by mechanical means and disposal of material within 50 metres lead as per direction of Engineer- in-charge.	75.52	cum	851.50	64305.00

11.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
11.2.1	Nominal concrete 1:3:6 or richer mix (including equivalent design mix)	16.25	cum	2434.25	39557.00
11.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	0.3	cum	3551.25	1065.00
11.4	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.				
11.4.1	In cement mortar	5.33	cum	2060.20	10981.00
11.5	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
11.5.1	Of area 3 sq. metres and below	27	each	367.20	9914.00
11.6	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
11.6.1	For thickness of tiles 10 mm to 25 mm	439.54	sqm	73.40	32262.00
11.7	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	2	sqm	266.45	533.00
11.8	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.	474	sqm	54.65	25904.00
11.9	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	55	cum	263.95	14517.00
	Sub-Total				199038.00
12	SANITARY INSTALLATIONS				

12.1	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:				
12.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	12	each	6767.40	81209.00
12.2	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 :				
12.2.1	W.C. pan with ISI marked white solid plastic seat and lid	3	each	6515.55	19547.00
12.3	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.				
12.3.1	10 litre capacity - White	7	each	1190.65	8335.00
12.4	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :				
12.4.1	White solid plastic seat with lid	4	each	684.85	2739.00
12.5	Providing and fixing G.I. inlet connection for flush pipe connecting with W.C. pan.	4	each	142.85	571.00
12.6	Providing and fixing CP Brass 32 mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	56	each	1034.80	57949.00
12.7	Providing and fixing soil, waste and vent pipes :				
12.7.1	100 mm dia				
12.7.1.1	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	281	metre	1180.75	331791.00
12.7.2	75 mm diameter :				
12.7.2.1	Centrifugally cast (spun) iron socketed pipe as per IS: 3989	9.6	metre	1186.00	11386.00

12.8	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. :				
12.8.1	For 100 mm dia pipe	12	each	362.85	4354.00
12.9	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
12.9.1	100 mm dia				
12.9.1.1	Sand cast iron S&S as per IS - 3989	6	each	705.20	4231.00
12.1	Providing and fixing plain bend of required degree.				
12.10.1	100 mm dia				
12.10.1.1	Sand cast iron S&S as per IS : 3989	24	each	570.05	13681.00
12.1	Providing and fixing double equal plain junction of required degree.				
12.11.1	100x100x100x100 mm				
12.11.1.1	Sand cast iron S&S as per IS - 3989	33	each	1075.05	35477.00
12.1	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
12.12.1	100x100x100 mm				
12.12.1.1	Sand cast iron S&S as per IS - 3989	35	each	925.70	32400.00
12.1	Providing and fixing single equal plain junction of required degree :				
12.13.1	100x100x100 mm				
12.13.1.1	Sand cast iron S&S as per IS - 3989	9	each	811.90	7307.00
12.1	Providing and fixing terminal guard :				
12.14.1	100 mm				
12.14.1.1	Sand cast iron S&S as per IS - 3989	5	each	506.00	2530.00
12.2	Providing and fixing collar :				
12.15.1	100 mm				
12.15.1.1	Sand cast iron S&S as per IS - 3989	117	each	513.15	60039.00
12.15.2	75 mm				
12.15.2.1	Sand cast iron S&S as per IS - 3989	12	each	362.05	4345.00
12.2	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter :				

12.16.1	100 mm	443	each	622.50	275768.00
12.16.2	75 mm	24	each	526.25	12630.00
12.2	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :				
12.17.1	100 mm inlet and 100 mm outlet				
12.17.1.1	Sand cast iron S&S as per IS: 3989	3	each	1996.50	5990.00
12.17.2	100 mm inlet and 75 mm outlet				
12.17.2.1	Sand cast iron S&S as per IS - 3989	12	each	1975.15	23702.00
	Sub-Total				995981.00
13	WATER SUPPLY				
13.1	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. Internal work - Exposed on wall				
13.1.1	15 mm dia nominal bore	5	metre	366.40	1832.00
13.1.2	20 mm dia nominal bore	5	metre	437.30	2187.00
13.1.3	25 mm dia nominal bore	134	metre	551.70	73928.00
13.1.4	32 mm dia nominal bore	293	metre	667.00	195431.00
13.1.5	40 mm dia nominal bore	5	metre	811.90	4060.00
13.2	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, including making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall :				
13.2.1	15 mm dia nominal bore	43	metre	580.45	24959.00
13.2.2	20 mm dia nominal bore	151	metre	635.20	95915.00
13.3	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work				
13.3.1	25 mm dia nominal bore	3	metre	467.75	1403.00
13.3.2	32 mm dia nominal bore	3	metre	540.30	1621.00
13.3.3	40 mm dia nominal bore	2	metre	617.05	1234.00
13.4	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 :				
13.4.1	25 to 40 mm nominal bore	1	each	911.90	912.00
13.5	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
13.5.1	25 mm nominal bore	14	each	622.40	8714.00

13.5.2	20 mm nominal bore	1	each	539.95	540.00
13.5.3	32 mm nominal bore.	21	each	689.60	14482.00
13.5.4	40 mm nominal bore	2	each	826.10	1652.00
13.6	Providing and fixing uplasticised PVC connection pipe with brass unions :				
13.6.1	30 cm length				
13.6.1.1	15 mm nominal bore	84	each	85.00	7140.00
13.7	Constructing masonry Chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in reinforced cement concrete slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), including necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
13.7.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	1	each	1992.60	1993.00
13.8	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :				
13.8.1	15 mm nominal bore	3	each	318.35	955.00
13.8.2	20 mm nominal bore	3	each	346.80	1040.00
13.8.3	25 mm nominal bore	17	each	439.25	7467.00
13.8.4	32 mm nominal bore	28	each	489.05	13693.00
13.8.5	40 mm nominal bore	2	each	631.30	1263.00
13.9	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
13.9.1	15 mm nominal bore	19	each	506.80	9629.00
13.1	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
13.10.1	15 mm nominal bore	26	each	798.95	20773.00
13.1	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
13.11.1	15 mm nominal bore	15	each	670.45	10057.00

13.1	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
13.12.1	15 mm nominal bore	48	each	574.30	27566.00
13.1	Providing and fixing C.P. Brass extension nipple (size 15 mm x 50 mm) of approved make and quality as per direction of Engineer-in-charge.	113	each	74.80	8452.00
13.1	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.	28	each	452.00	12656.00
13.2	Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.I. pipe etc.	241	metre	202.90	48899.00
	Sub-Total				600453.00
14	DRAINAGE				
14.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
14.1.1	150 mm diameter	5	metre	695.80	3479.00
14.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :				
14.2.1	150 mm diameter S.W. pipe	5	metre	1179.85	5899.00
14.3	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:				
14.3.1	150 x 100 mm size P type				
14.3.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2	each	2734.20	5468.00

14.4	Dismantling of old S.W. pipes including breaking of joints and bed concrete stacking of useful materials near the site within 50 m lead and disposal of unserviceable materials into municipal dumps :				
14.4.1	100 mm diameter	5	metre	89.00	445.00
14.5	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
14.5.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				
14.5.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1	each	12770.55	12771.00
14.6	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 :				
14.6.1	For pipes 100 to 250 mm diameter	1	each	810.45	810.00
	Sub-Total				28872.00
15	ALUMINIUM WORK				

15.1	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 / panelling, 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) :				
15.1.1	For fixed portion				
15.1.1.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	406	kg	530.90	215545.00
15.1.2	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)				
15.1.2.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	66	kg	634.45	41874.00
15.2	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):				
15.2.1	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	29	sqm	1505.25	43652.00

15.3	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).	27	kg	638.35	17235.00
	Sub-Total				318306.00
16	WATER PROOFING				
16.1	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of: (i) Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS : 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. (ii) IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. (iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area. (iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).	311	sqm	769.60	239346.00
	Sub-Total				239346.00
17	NEW TECHNOLOGIES AND MATERIALS				
17.1	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer- In-charge complete in all respect.				

17.1.1	SBR Polymer (@10% of cement weight) modified cementitious bond coat @ 2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer	20	sqm	141.20	2824.00
17.2	Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge. Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75 mm size cube crushing strength at the end of 28 days to be not less than 30 N/Sqmm ²).				
17.2.1	25 mm average thickness in 2 layers.	20	sqm	587.35	11747.00
	Sub-Total				14571.00
18	MINOR CIVIL MAINTENANCE ITEM				
18.1	Providing and laying cement concrete of specified grade i/c the cost of centring and shuttering, All work upto plinth level. (1 cement :5 coarse sand : 10 graded brick aggregate 40 mm nominal size).	10.8	Cum	6279.25	67816.00
18.2	Providing and fixing C.P brass swan neck pillar cock of L&K or equivalent make.	56	Each	1806.75	101178.00
18.3	P/F C.P. grating with or without hole for waste pipe for floor/ nahani trap 100 mm dia. weight not less than 100 grams.	84	Each	71.13	5975.00
18.4	P/F C. P. brass shower rose with 15 mm or 20 inlet 75 mm dia fancy type. Cera Cat No 702010955.	20	Each	782.45	15649.00
18.5	Providing and fixing white vitreous china oval type wash basin Counter Top Standard pattern of size 550 x 480 Cera, parryware,etc	3	Each	4543.65	13631.00

18.6	Providing and fixing C.P coat pin hanger of approved make with necessary screws gully etc. cera make cat no 5015108	7	Each	327.21	2290.00
18.7	Providing and fixing C.P soap dish complete with screws and gully etc.	7	Each	407.05	2849.00
18.8	Providing and fixing looking mirror of 5.5 mm thick superior glass of approved quality complete with 12 mm thick of water type ply wood sheet ground 40 mm widex 12 mm thick 1st class teak wood beading frame of half round fixed to wooden cleats with C.P brass scerw and washer complete. teak wood beading finished with sprits polishing copmplete.	28.6	Sqm	5272.50	150794.00
18.9	P/F C.P Brass flange for angle valve, bib cock etc. (Heavy type)	113	Each	19.20	2170.00
18.1	P/F towel rod complete with teo c.p. brass brackets fixed to wooden cleats with c.p. brass scews of approved make size 600x20mm.	6	Each	739.77	4439.00
18.1	Providing and fixing c.p. hand spray (health faucet) with push button control and fleexible hose connection with c.p. hook etc complete .	7	Each	889.15	6224.00
18.1	Providing and fixing C.P.waste 32 mm dia for wash basin/Sink.	56	Each	327.20	18323.00
18.1	Dismantling broken wash basin /kitchen sink with old worn out bracket and cleaning of waste water pipe up to trap.	3	Each	45.00	135.00
18.1	Dismantling of C.I pipe with fittings and clamps i/c disposal of unserviceable material up to 50 mtr. lead and upto 150 mm dia. pipe.	290.6	Per Mtr.	20.00	5812.00
	Sub-Total				397285.00
	Total				4600184.00
	Modified Estimated Cost after using correction factor on DSR 2023 on account of GST @ 0.973 * 4600184 = 4475979				4475979.00