

निविदा आमंत्रण सूचना

NOTICE INVITING e-TENDERS

- Name of Work** : A/R & M/O to Residential Buildings situated at IMD Pashan, Pune during 2026-27.
- NIT No.** : 27/NIT/EE/Pune-II/2026-27
- Estimated Cost** : Rs. 33, 45,533/-
- Earnest money** : Rs. 66, 911/-
- Performance Guarantee:** 5% of tendered value.
(a) 5% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher).
(b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount
- Time Limit** : 12 (Twelve) Months

Last date/Time of Tender submission: Up to 17.00 hours on 21/08/2026

Date of Opening of bids : On and after 21/08/2026 after 17.30 hours



कार्यपालक अभियंता पुणे -२,

कें.लो.नि.वि., पुणे- ४११०३७

IN DE X

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*Certified that this bid document contains **Three parts** i.e. Part A, Part B and Part C, pages marked as page **01 to 104**.*

The NIT approved for Estimated Cost: Rs. 33, 45,533/-

AE (P)

EE(C) (Pune)-II

PART -A

**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR E-TENDERING
FORMING PART OF BID DOCUMENT AND TO BE POSTED ON WEBSITE**

The Executive Engineer, Pune-II, CPWD, Nirman Bhawan, Mukund Nagar, Pune-411037 ([Telephone No.020-24267137](tel:020-24267137) [Email id:eeecd_2@yahoo.in](mailto:eeecd_2@yahoo.in)) on behalf of the President of India invites online percentage rate bids from approved and eligible contractors of CPWD dealing with the building and road for the following work(s):

S. No.	NIT No.	Name of work & Location	Estimated cost put to bid	Earnest Money	Stipulated Period of completion of Work (in Months)	Last date of online submission of bid, copy of receipt of deposition of original EMD and other documents as specified in the bid document	Time and date of opening of bid
01	27/NIT/EE/Pune-II/2026-27	A/R & M/O to Residential Buildings situated at IMD Pashan , Pune during 2026-27.	Rs. 33, 45,533/-	Rs. 66, 911/-	12 (Twelve) Months.	Up to 17:00 PM on 21/08/2026	At 17:30 PM on 21/08/2026

*** To be filled by Executive Engineer.**

The enlistment of the contractors should be valid on the last date of submission of tenders. In case the last date of submission of tender is extended, the enlistment of contractor should be valid on the original date of submission of tenders.

1. 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.
2. Information and Instructions for bidders posted on website shall form part of bid document.
3. The bid document consisting of plans, specifications, 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 <https://etender.cpwd.gov.in> or www.cpwd.gov.in free of cost.
4. But the bid can only be submitted after deposition of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission and uploading the mandatory scanned documents such as Insurance Surety Bonds, Account Payee Demand draft or Bankers Cheque or Fixed Deposit Receipts or/ and Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank towards EMD in favour of Executive Engineer as mentioned in NIT, receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/ AE), CPWD and other documents as specified.
5. Those contractors who are not registered or have not updated their profile on the website mentioned above, are required to get registered/ update their profile beforehand. The necessary training materials including the videos with step-to-step process are available on download section of <https://etender.cpwd.gov.in>
6. The intending bidder must have valid Class-III digital signature certificate with encryption key (combo type) to perform any operations/ transactions on the e-tendering portal/ website and the bidder should download and install the eMSigner on their system as per instructions available on download section of <https://etender.cpwd.gov.in>.
7. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
8. Contractor can upload documents in the form of JPG format and PDF format.
9. The contractor shall quote his rates keeping in mind the **scope of work, time line, specifications, terms & conditions, additional conditions and special conditions etc.** and nothing shall be payable extra whatsoever unless otherwise specified.
10. The existing enlisted contractor either himself or his authorized representative shall take ERP (Enterprise Resources Planning) training and certificate to be uploaded. Certificate is issued through LMS (learning management system) of ERP of CPWD. For non-enlisted contractor, within 2 months from the date of issue of intent letter shall take ERP training from ERP Unit of CPWD. Training will be valid when registered in LMS of ERP and certificate is issued through LMS of ERP. Failure to do so, a recovery of Rs. 10,000 /- per week shall be made from the R/A Bill without giving any Show Cause Notice in this regard.
11. Contractor must ensure to quote rate in the prescribed column(s) meant for quoting rate in figures appears in yellow 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 tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

12. The contractor shall get receipt of deposition of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD in the prescribed format annexed as Annexure-I and also upload it along with the bid document.
13. The tenderer should also read the **General Conditions of Contract for Maintenance works 2023** amended upto previous day of last date of submission of tender (available on CPWD website), which is available as Govt. of India Publications.
14. Tenders with any condition including that of conditional rebates in the tender document shall be rejected forthwith.
15. GST or any other tax applicable in respect of inputs procured by the contractor for this contract shall be payable by the Contractor and Government will not entertain any claim whatsoever in respect of the same. However, component of GST at time of supply of service (as provided in CGST Act 2017) provided by the contract shall be varied if different from that applicable on the last date of receipt of tender including extension if any.
16. Amount quoted by the bidder shall be inclusive of all taxes & nothing extra shall be payable. The department shall deduct the mandatory deductions at source from the R.A. bills as applicable. However, for statutory deduction of income tax & GST, necessary TDS certificate shall be given by department. The contractor shall quote his rates considering all such deductions.
17. If any information furnished by the applicant is found incorrect at a later stage, he shall be liable to be debarred from tendering/ taking up of works in CPWD. The Department reserves the right to verify the particulars furnished by the applicant independently.
18. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
19. All needful statutory provisions to be adopted at site to tackle epidemic/ pandemic or similar situation of COVID-19 shall be done by the agency and expenditure on the same shall be borne by the contractor unless statutory orders direct for the reimbursement of the same.
20. The tenderer must associate with himself, agencies of the appropriate eligibility to tender for each of specialized nature of items/ work listed below individually. Such works shall be got executed only through associated agencies specialized in these fields.
21. The tenderer whose tender is accepted shall indicate the name(s) of his associated specialized agencies those fulfilling the eligibility criteria laid down below after award of work within 5 days from stipulated date of start of work for the approval of the Engineer-in-Charge of that component, whose decision shall be final and binding. If the tenderer, himself fulfils the eligibility criteria laid down below for associated specialized agencies, then the tenderer shall not require to associate with the separate associated specialized agency. **The tenderer has to ensure that the Associated contractor should not have**

been debarred from any Ministry or any govt. organization in the last five years.
Following details shall be provided for the specialized agency:-

- Name of Firm
- List of works as given in table below
- Performance certificate from the Client
- Availability of manpower and machineries
- Names of the agency (s) to be associated shall be approved by the Engineer-in-Charge of concerned component.

The bidder should either himself meet the eligibility conditions for the respective Civil, E&M packages or otherwise he will have to associate an agency meeting the eligibility requirements. The proposal for associate agency for all packages of Civil, E&M shall be submitted at least one month in advance from taking up specific component for approval of Executive Engineer of respective component. Consent letter of such proposed agencies for association along with verifiable completion certificates of the work/ registration/ approval documents as the case may be, duly attested by the applicant, valid Electrical Contractor's license, duly attested by the applicant, self-attested GST registration documents and TDS certificate for private works in respect of the associated agencies shall also be submitted along with the proposal.

22. List of Documents to be scanned and uploaded within the period of bid submission:

- I. Scanned copy of Insurance Surety Bond/ Demand Draft/ Account Payee Banker's Cheque/ FDR/ Bank Guarantee of any scheduled commercial Bank against EMD.
- II. Enlistment Order of the Contractor in appropriate class having validity at least till as date of bid submission.
- III. Copy of receipt for deposition of original EMD issued from division office of any Executive Engineer, CPWD (including NIT issuing EE). The EMD receiving Executive Engineer (including NIT issuing EE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format, up loaded by tender inviting EE in the NIT. (Annexure-I)
- IV. GST Registration Certificate if already obtained by the bidder. If the bidder has not obtained GST registration as applicable, then he shall scan and upload following under taking along with bid documents.
"If work is awarded to me, I/we shall obtain GST registration certificate, as applicable, within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/we shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by CPWD or GST department in this regard". (Annexure-II)
- V.
 - a. Mandatory ERP Training certificate (For CPWD Enlisted Contractors) OR
 - b. For the newly enlisted contractors - Undertaking that "my authorized representative shall obtain ERP Training Certificate through any of the CPWD Regional Training Institutes (RTIs, at Delhi, Mumbai, Chennai, and Kolkata or through the National CPWD Academy (NCA), Ghaziabad or through any other special training arranged by ERP Unit CPWD HQ within 45 days of the date of issue of enlistment order."

Physical submission of documents by lowest bidder.

Self-attested copy of all the scanned and uploaded documents as specified in press notice/ CPWD-6, anywhere in the NIT shall have to be submitted by the lowest bidder only along with original receipt of deposition of EMD within a week of opening of the bid, in the office of tender opening authority. **(The week includes the day of opening of bid).**

**Executive Engineer-II,
CPWD, Pune**

RECEIPT OF DEPOSITION OF EMD

(Receipt No. / date)

1. **Name of Work:** A/R & M/O to Residential Buildings situated at IMD Pashan, Pune during 2026-27.
2. NIT No. : 27/NIT/EE/Pune-II/2026-27
3. Estimated Cost: Rs. 33, 45,533/-
4. Amount of Earnest Money Deposit: Rs. 66, 911/-
5. Last date & Time of submission of Bid: Up to 17:00 PM on 21/08/2026

(* To be filled by NIT approving authority/ EE at the time of issue of NIT and uploaded along with NIT)

Name of Contractor:#.....

1. Form of EMD#.....
2. Amount of Earnest Money Deposit#.....
3. Date of submission of EMD#.....

.....

Signature, Name and Designation of EMD
Receiving officer (EE/AE (P)/AE/AAO) along with Officer Stamp

(Note: - EMD Accepting authority before issue EMD receipt is directed to check the amount of EMD and Name in favor EMD has been drawn.)

To be filled by EMD receiving EE.

**UNDERTAKING REGARDING GST REGISTRATION IN THE STATE OF
MAHARASHTRA**

**To,
The Executive Engineer-II,
Central P.W.D., Pune**

Subject: - A/R & M/O to Residential Buildings situated at IMD Pashan, Pune during 2026-27.

Having examined the details given in press notice and bid document for the above work, I/ We hereby submit the following.

“If work is awarded to me, I/ We shall obtain GST registration certificate as applicable, within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/ We shall be responsible for any delay in payments which will be due towards me/ us on account of the work executed and /or for any action taken by CPWD or GST department in this regard”.

Seal of bidder.

Date of submission

Signature(s) of bidder(s)

CPWD-6 FOR e-Tendering

1. Online Percentage rate bids are invited on behalf of the President of India from approved and eligible contractors of CPWD, dealing with building and road for the work of:-
“A/R & M/O to Residential Buildings situated at IMD Pashan, Pune during 2026-27.”

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.

- 1.1 The work is estimated to cost: **Rs. 33, 45,533/-** This estimate, however, is given merely as a rough guide.

- 1.1.1 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids. For composite bid, besides indicating the combined estimated cost put to bid, should clearly indicate the estimated cost of each component separately. The eligibility of bidders will correspond to the combined estimated cost of different components put to bid.

2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 7/8 (or other Standard Form as mentioned) 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.

3. The time allowed for carrying out the work will be **12 (Twelve) 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, if any, indicated in the bid documents

4. The site for the work is mostly available, however, small portion, if not available shall be made available within 15 days on the demand raised by the contractor when the stage for construction on that part is expected to start in 15 days' time.

OR

~~The site for the work shall be made available in parts as specified below:—~~

~~(ii) The architectural and structural drawing for the work is available~~

or

5. The architectural and structural drawings shall be made available in phased manner, as per requirement of the same as per approved programme of completion submitted by the contractor after award of work. The bid document consisting of plans, specifications, 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 except Standard General Conditions of Contract Form can be seen on website <https://etender.cpwd.gov.in> or www.cpwd.gov.in free of cost.

6. 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.
7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
8. When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.
9. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (for balance amount as prescribed) from any of the Commercial Banks **(drawn in favour of Executive Engineer, PCD-I, CPWD, Pune.)** shall be scanned and uploaded on the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/ AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.
A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 lac, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any Commercial bank having validity for a period of 90 days for single bid works and 180 days for two bid system or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

The earnest money given by all the tenderers except the lowest tenderer shall be refunded immediately after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier. However, in case of two/ three bid system earnest money deposit of bidders unsuccessful during technical bid evaluation etc. should be returned within 30 days of declaration of result of technical bid evaluation.

Copy of Enlistment Order and certificate of work experience and other documents as specified in the notice inviting e- tender shall be scanned and uploaded on the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in e- tender notice shall have to be submitted by the lowest bidder within a week physically in the office of tender opening authority. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose original EMD deposited with any division of CPWD and other documents scanned and uploaded are found in order.

The bid submitted shall be opened at **15:30 PM on 21/08/2026**

**** To be filled by Executive Engineer.**

10. The bid submitted shall become invalid and e-Tender processing fee shall not be refunded if:
- (i) The bidder is found ineligible.
 - (ii) The bidder does not upload scanned copies of all the documents stipulated in the bid document **including the copy of receipt for deposition of original EMD.**
 - (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest tenderer in the office of tender opening authority.
 - (iv) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section/sub heading percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
11. The contractor whose bid is accepted will be required to furnish performance guarantee at specified percentage of the tendered amount as mentioned in schedule E and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks in accordance with the prescribed form. 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 Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the subcontractors, if any engaged by the contractor for the said work within the period specified in Schedule F.
12. **The description of the work is as follows:**
- “A/R & M/O to Residential Buildings situated at IMD Pashan, Pune during 2026-27.”**
- Intending Bidders are advised to inspect and examine the site 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, 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. A bidder shall be deemed to have full knowledge of the site 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 Government and local conditions and other factors having a bearing on the execution of the work.

13. The competent authority on behalf of the President of India 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 the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
15. The competent authority on behalf of President of India 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.
16. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/ Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). 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 Central Public Works Department or in the Ministry of Housing and Urban Affairs. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
17. 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 service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled 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 service.
18. The bids for the work shall remain open for acceptance for a period of 30 (thirty) days from the date of opening of bids in case of single bid system and 75 (seventy-five) days from the date of opening of technical bids in case bids are invited in 2 or 3 bid system. Further
 - (i) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department within 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - (ii) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.

- (iii) Withdrawal of the tender, by the tenderer, shall only be made through e-tender portal. Any other method i.e. through letter / e-mail etc. shall not be considered.
 - (iv) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work.
19. This notice inviting Bid shall form a part of the contract document. The successful bidder/ contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
- (a) 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.
 - (b) Standard C.P.W.D. Form 7/8 or other Standard C.P.W.D. Form as applicable and as amended upto the previous day to the last date of bid submission.
20. **The intending bidders are required to update their profile in CPWD e- tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile/uploading tender can be resolved through the concerned Executive Engineer/ Assistant Engineer (Telephone No.020-24267137 Email id:eeecd_2@yahoo.in) or ERP helpline no. 18001803286 or e-mail id cpwd.support@techmahindra.com. The e- tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest.**
21. In case any discrepancy is noticed between the documents as uploaded at the time of submission of the bid online and hard copies as submitted physically in the office of Executive Engineer, then the bid submitted shall become invalid and the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderer shall not be allowed to participate in the re-tendering process of the work.
22. **Jurisdiction of Courts**
The Court of the place from where the letter of award of work has been issued shall have the jurisdiction to decide any dispute arising out of or in respect of the contract.
23. CPWD does not have funds of its own and it carries out the works of client departments from their funds (deposit, budgetary, authorization). The CPWD is making payments to the contractors after getting budget/ authorization/ deposit from various Ministries/Client Departments. The payment to the contractor can be done only on availability of funds for that work from client department and in case of delay in getting funds from Ministry / Client Department, CPWD will not be responsible for delay in payment and no any extra compensation on this account shall be granted apart from specified elsewhere in this document. The contractor has to quote his tender accordingly considering this aspect

**EE (Pune)-II
CPWD, Pune**

***To be filled by Executive Engineer.**

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

CPWD-7

PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

(A) Tender for the work : **A/R & M/O to Residential Buildings situated at IMD Pashan, Pune during 2026-27.**

- (i) To be uploaded by **17:00 PM on 21/08/2026** at <https://etender.cpwd.gov.in>
- (ii) To be opened in presence of tenderers who may be present at **17:30 PM on 21/08/2026** in the office of **Executive Engineer-II, CPWD, Pune.**

***To be filled by Executive Engineer.**

TENDER

I/We have read and examined the notice inviting tender, schedule, A, B & C Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, 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 President of India 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 **Thirty (30) days** from the due date of its opening and not to make any modification in its terms and conditions.

A sum of **Rs. 66, 911/-** is hereby forwarded in cash/receipt treasury challan/deposit at call receipt of a scheduled bank/fixed deposit receipt of scheduled bank/demand draft of a scheduled bank/bank guarantee issued by a scheduled bank as earnest money.

A copy of earnest money **in the form of Insurance surety Bond, Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipts, Banker's Cheque or Bank Guarantee from any of the commercial Bank** is scanned and uploaded (**strike out as the case may be**). If I/We, fail to furnish the prescribed performance guarantee within

prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely.

Further, if I/We fail to commence work as specified, I/We agree that President of India 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 Clause 12.2 (C) of the tender form.

Further, I/ We agree that in case of forfeiture of Earnest Money or Performance Guarantee as afore said, 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 CPWD in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/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 the State.

Dated

Signature of Contractor

Witness:

Postal Address

Address:

Occupation:

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the President of India for a sum of Rs.(Rupees.....)

The letters referred to below shall form part of this contract agreement:

- (a)
- (b)
- (c)

For & on behalf of President of India

Signature

Designation

Dated:

Brief Particulars of the Work

1. Scope

A/R & M/O to Residential Buildings situated at IMD Pashan, Pune during 2026-27.

2. Special conditions pertaining to Site Facilities/ Restrictions

- i. The bidders are required to visit the site and check the feasibility of space required for steel yards, stores, site laboratory etc. and installation of various tools and plants. The contractor shall make his own arrangement for establishment of the above-mentioned facilities and for which nothing extra shall be paid. The Engineer-in-Charge shall in no way be responsible for any delay on this account and no claim, whatsoever, on this account shall be entertained.
- ii. The contractor shall make his own arrangement of space for erection of labour hutment and for which nothing extra shall be paid. The Engineer-in-Charge shall in no way be responsible for any delay on this account and no claim, whatsoever, on this account shall be entertained.
- iii. Space for site office and site store yard shall be provided in the vicinity of site as far as possible depending upon availability. The Engineer-in-Charge shall in no way be responsible for any delay on this account and no claim, whatsoever, on this account shall be entertained. The agency shall be required to establish all such facilities and for which nothing extra shall be paid. It shall be responsibility of agency to transport the material from material stacking yard to site and for which nothing extra shall be paid. In case any building or infrastructure work is required to be executed on the land occupied by the site office/site store/workers rest room/ labour camp, agency shall relocate these shelters for which nothing extra shall be paid.
- iv. The contractor shall make its own arrangement for tapping of electricity from local available Electricity Board for which necessary prevailing charges shall be paid by the contractor to the electricity Statutory Body. Before tendering, the bidders shall visit the site and assess the manner in which he/she is able to arrange the above facilities. The Engineer-in-Charge shall in no way be responsible for any delay on this account and no claim, whatsoever, on this account shall be entertained.
- v. Water for construction purposes shall be responsibility of contractor.
- vi. The Contractor shall abide by the rules/ bye laws applicable in respect of water/ electricity connection and he shall be solely responsible for any penalty on account of violation of any of the rules / bye laws in this regard. The Contractor shall indemnify the Department (CPWD) against any claim arising out of pilferage, theft, damage, penalty, non-settlement of bills etc. whatsoever on this account.

- vii. In the event of any local personal problems, local body issues etc. arising while discharging function at site, contractor will deal with it appropriately and will not bring such matter towards CPWD.
- viii. The agency shall be required to strictly follow security norms and procedure in terms of entry/ exit passes to all the vehicles/ persons/ materials, issue/ reissue/ surrender of labour passes and other rules and regulations that will be brought in force from time to time by the client department. Any penalty imposed by the client department for violating security norms will be immediately paid by the agency for which nothing extra shall be paid.
- ix. The liasoning with Maharashtra pest control office or any other local bodies as required shall be in the scope of the contractor.
- x. After completion of individual work, the area shall be clean and cleared of debris. No debris shall be seen laying outside/ nearby side and shall be disposed off from client's premises at contractor risk and cost, so as no statutory authorities shall be complained.
- xi. Some restrictions may be imposed by the security staff etc. on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restrictions/ instructions and nothing extra shall be payable on this account.
- xii. Contactor shall follow all the safety rules and security process vogue and applicable during execution of work. Contractor is requested to take practical steps to prevent danger to persons employed by the contractor from the risk of Snake bite, Accident fall, Electric Shock, Fire Explosion etc. In case above precautions are neglected, contactor is bound to bear expenses of defence of every suit action or other proceedings law that may be brought by any person and to pay damages/cost towards the compromise any claim by such persons.
- xiii. The agency shall be required to fix/ install the dense safety net all around the periphery of the building as per progress of work, in order to ensure safety and prevent the damage to the materials & manpower working below:
- xiv. The statutory payments or fees payable to Government/ Local Body shall be reimbursed to the Contractor by CPWD. The contractor shall obtain written prior permission from the Engineer in charge before making any payments.

- xv. All copyright and other proprietary rights in the works under this contract shall vest and stand assigned to the CPWD (the department). The department shall consequently own, absolutely and exclusively on a worldwide basis, the whole of property rights, title and interest including all copyright in the works, present or future, vested or contingent, generally and without limitation, for the whole term of the copyright, including the right to modify and/or make any alterations to the works and all the above rights shall not lapse even if such rights are not exercised by Department during the term of the copyright and the agency shall be required/obliged to execute any deeds/documents, as may be required or considered necessary, by Department to give effect to and secure the abovementioned rights of Department in the Works. For the purpose of this clause, the term “Works” shall include all “works” covered by the copyright Act 1957 including the design or documents prepared by the agency at the inception of, during the course of and until the completion of the Project and also includes any work created directly or indirectly in the performance of the obligations of the agency in connection with the Project.
- xvi. The agency shall not use or allow anyone to use these drawings, designs, documents and software during and after the execution of this contract without the prior written permission of Department and any such act without the permission of Department shall constitute violation of Intellectual Property Rights.
- xvii. Even in the event of stoppage/ cancellation of the project, all documents/ designs/ drawings submitted by the agency to Department on or before the cancellation of the project shall become the property of Department and the Bidders shall have no claim on such documents/design.

Note 1: The special conditions detailed above are in addition to general/ other/ additional conditions as specified elsewhere in tender document.

Note 2: Nothing extra shall be paid on the account of these special conditions.

PROFORMA OF SCHEDULES
(Major Component)

(Separate Proforma for Civil, Elect. & Hort. Works in case of Composite e-bids)
(Operative Schedules to be supplied separately to each intending e-bidder)

SCHEDULE 'A' Schedule of quantities (as per PWD-3)	As per enclosed Schedule of Civil Quantities
SCHEDULE 'D' Extra schedule for specific requirements/ document for the work, if any.	Nil
SCHEDULE 'E' Reference to General Conditions of contract.	GCC 2023 (Maintenance Works), CPWD form 7 as modified & corrected up to the previous day to the last date of submission of tender.
Name of Work	A/R & M/O to Residential Buildings situated at IMD Pashan, Pune during 2026-27.
Estimated cost of work	Rs. 33, 45,533/-
Earnest money	Rs. 66, 911/-
Performance guarantee	(a) 5% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher). (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount
Security deposit	2.5% of tendered value
SCHEDULE 'F' GENERAL RULES & DIRECTIONS:	
Officer inviting tender	Executive Engineer Pune-II, C.P.W.D., Pune or his successor thereof
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2(C):	See appropriate clause under definition below
Definitions:	
CPWD Directorate	CPWD Directorate includes Director General / Special Director General / Additional Director

	General / CPM/CA/ Chief Engineer / CE-ED / PM / SE / SE-PD / Director (Horticulture)
Successor	Any authority as notified by the CPWD Directorate before, during and after execution of work / agreement.
2(v) Engineer-in-Charge	1-For Civil works – Executive Engineer, Pune-II, C.P.W.D., Pune or his successor thereof 2-For Electrical works – Executive Engineer(E) (Pune), C.P.W.D., Pune or his successor thereof
2(viii) Accepting Authority	Executive Engineer, Pune-II, Pune, C.P.W.D., Pune or any other Authority as notified by CPWD, Directorate.
2(x) Percentage on cost of materials and labour to cover all overheads and profits:	15%
2(xi) Standard Schedule of Rates	D.S.R. 2023 with correction slips issued up to the last date of submission of tender
2(xii) Department	Central Public Works Department.
9(ii) Standard CPWD Contract Form	GCC 2023 (Maintenance Works), CPWD form 7 as modified & corrected up to the previous day to the last date of submission of tender.
Clause 1	
(i) Time allowed for submission of performance guarantee, programme chart (time and progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance.	05 days
(ii) Maximum allowable extension with late fee at 0.1% per day of performance guarantee amount beyond the period provided in (i) above	02 days
Clause 2	
Authority for fixing compensation under clause 2	Superintending Engineer, Pune, C.P.W.D., Pune Or successor thereof.

Clause 5			
Time allowed for execution of work		12 (Twelve) Months	
Number of days from the date of issue of letter of acceptance for reckoning date of start		7 days	
Table of Mile stone(s)			
Note: Completion of this work in time bound manner is most important so agency shall strictly follow to achieve the milestones and completion of work in given time frame.			
Mile stone No.	Description of mile stone (Financial)	Time allowed (from date of start)	Amount to be withheld amount for non-achievement of mile stone.
1.	Work done amounting to 1/4 th the value of tendered amount	03 months	1.25% the tendered value work will be withheld for failure of each milestone.
2	Work done amounting to 1/2 th the value of tendered amount	06 months	1.25% the tendered value work will be withheld for failure of each milestone.
3.	Work done amounting to 3/4 th the value of tendered amount	09 months	1.25% the tendered value work will be withheld for failure of each milestone.
4.	Work done amounting to Full the value of tendered amount	12 months	1.25% the tendered value work will be withheld for failure of each milestone.
Note: The withheld amount from monthly R.A. bills due to non-achievement of previous physical or financial mile stone may be released if the subsequent Physical or Financial mile stone is achieved in the specified time respectively. Mile stones shall be applicable for Major Component (Civil Work) as well as for Minor Components (Electrical Works) of the work as attached. The main contractor will ensure that electrical components of the work are executed in time without giving any chance for slippages of mile stones on account of delay in execution of associated electrical work by him. However, in case mile stones are not achieved by the contractor for the work, the amount shown against milestone shall be withheld by the Executive Engineer-in-charge of the major component.			
Schedule of rate of recovery for delay in Submission of the modified programme in Terms of delay days:		Rs. 500/- per week	

Authority to convey:	
(i) The decision of shifting of milestones and Extension of Time	Executive Engineer-II, CPWD, Pune or successor thereof SHALL BE BASED ON HINDRANCES RECORDED IN ERP MODULE THROUGH SITE OBSERVATIONS. Contractor has to apply all hindrances through ERP only.
Authority to decide:	
(i) Rescheduling of mile stones and Extension of Time	Executive Engineer, Pune-II, CPWD, Pune or his successor thereof
(ii) Shifting of date of start in case of delay in handing over of site	Executive Engineer, Pune- II, CPWD, Pune or his successor thereof

Clause 5 Schedule of handing over of site			
Part	Portion of Site / Design	Description	Time Period for handing over reckoned from date
Part A	Portion without any hindrance.	Major	On the date of start of work
Part B	Portions with encumbrances	Minor	15 days from written request from the contractor when required as per committed completion plan submitted by agency.
Part C	Portions dependent on work of other agencies	---	Not Applicable
CLAUSE 6		THROUGH RFI IN ERP OF CPWD	
Clause 7			
Gross work to be done together with net payment/ adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment.		Rs. 3.00 Lakh or reasonable part thereof with mutual consent.	

Clause 7A Whether Clause 7A shall be applicable.		Yes (No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contract or to the Engineer-in-Charge.)	
Clause 7B: Payment to Third Party: (Refer No. DG/CON/310 dated 17/07/2020)		Applicable	
Clause 8A			
Authority to decide compensation on account if contractor fails to submit completion plans Maximum compensation		Superintending Engineer, CPWD, Pune, or his successor thereof /Any other authority as notified by the CPWD Directorate. 0.1% of tendered value of all Components subject to ceiling of Rs. 15,000/-(Rupees Fifteen Thousand only)	
Clause 10A List of testing equipment to be provided by the contractor at site lab as per NIT condition.		Yes, as per list attached in tender document	
Clause 10B (i) & (ii) Whether Clause 10 B (i) &(ii) shall be applicable (Secured advance & Mobilization advance)		10 B (i) : Not Applicable 10 B (ii) : Not Applicable	
Clause 10C Component of labour expressed as percent of value of work-40%		Applicable (40%)	
Clause 10CA		Not Applicable	
S No.	Materials covered under this clause	Nearest materials (other than cement, steel reinforcement bars and structural steel) for which All India Wholesale Price Index to be followed	Base Price and its corresponding period of all the materials covered under clause 10CA
			Base price per MT (Rs.) (Rate excluding of GST)
Not Applicable			

* Including cement component used in RMC brought at site from outside approved RMC plants, if any.

** To be filled by the E-I-C.

	Clause 10CC	Not Applicable
	Clause 10 CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column:	Not Applicable
	Schedule of component of other Materials, Labour, POL etc. for price escalation.	
	Component of civil (except materials covered under clause 10CA)/ expressed as percent of total value of work (Xm)	Xm- 40%
	Component of Labour expressed as percent of total value of work.(Y)	Y- 25%
	Component of P.O.L. expressed as percent of total value of work.	Z- NIL
	Note: Xm-----% should be equal to (100)- (materials covered under clause 10 CA +Component of labour)	40%
	Clause 11	
	Specifications to be followed for execution of work	CPWD Specifications 2019, Volume-I and II with correction slips issued up to the last date of submission of e-bid and OEM Specifications for NS items.
	Clause 12	
	Type of Work	Maintenance work
	Authority to decide Deviation beyond 1.25 upto 1.5 times of tendered amount	SE Pune as per SOP provision or as further directed by Directorate
	12.2 (C) Deviation limit beyond which clauses 12.2 (C) shall apply for building work.	NO LIMIT
	(i) Deviation limit beyond which clauses 12.2 (C) shall apply for foundation work. (except items mentioned in earth work subhead in DSR and related items). (ii) Deviation limit for items mentioned in earth work subhead of DSR and related items.	NO LIMIT NO LIMIT
	Clause 16	
	Competent authority for deciding reduced rates.	Superintending Engineer, Pune Circle, CPWD, Pune or his successor thereof
	Clause 18 List of machinery, tools & plants to be deployed by the contractor at site:-As per Tender document	

	Clause 19 C	Authority to decide penalty for each default (for the safety provisions as per C.P.W.D. Safety Code)	Executive Engineer -II, Pune CPWD, Pune or his successor thereof
	Clause 19 D	Authority to decide penalty for each default (No. of labour report)	Executive Engineer-II, Pune, CPWD, Pune or his successor thereof
	Clause 19 G	Authority to decide penalty for each (default or breach of any of the provisions of the Central Public Works Department, Contractor's Labour Regulations and Model Rules for the protection of health and sanitary arrangements default)	Executive Engineer-II, Pune, CPWD, Pune or his successor thereof
	Clause 19 K	Authority to decide penalty for each default (Employment of skilled/semi-skilled workers)	Executive Engineer -II, Pune, CPWD, Pune or his successor thereof

Clause 25

(i) Conciliator	SDG Mumbai
(ii) Arbitrator Appointment Authority	SE (Pune)
(iii) Place of Arbitration	Pune or as mutually Agreed.

Clause 32 :-**Requirement of technical representative(s) and recovery rate**

S. No	Minimum Qualification of Technical Representative	Discipline (Civil + Electrical)	Designation (Principal Technical/Technical representative)	Minimum experience	Numbers	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 32 (i)	
						Figures	Words
1	Graduate Engineer or diploma Engineer	Civil	Project Manager cum planning/ quality/ site billing Engineer	2 or 5 years Respectively	1	Rs.25,000/- per month per person	Rs. Twenty Five Thousand per month per person

NOTE:-

- i) Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.
- ii) Diploma holder with minimum 10 year relevant experience with a reputed construction co. can be treated at par with fresh Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

Clause 38					
(i)	(a)	<i>Schedule/ statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2023 with up-to-date correction slips.</i>		D.S.R. 2023 with correction slips up to the last date of submission of tender.	
(ii)	Variations permissible on theoretical quantities:		Variations	Recoveries proposed	
				Plus side	Minus Side
	(a)	Cement for works with estimated cost put to tender not more than Rs. 25 lakh.	± (plus / minus) 3 % (Three percent)	Nil	Not Permitted
	(b)	For works with estimated cost put to tender more than Rs25 lakh.	± (plus / minus) 2 % (Two percent)	Nil	Not Permitted
	(c)	Bitumen all works	+ (plus) 2.5% (Two-point five percent) only and nil on –(minus) side.	Nil	Not Permitted
	(d)	Steel reinforcement and structural steel sections for each diameter, section and category	± (plus / minus) 2% (Two percent) only.	Nil	Not Permitted
		All other materials.	Nil	Nil	Not Permitted

ESTABLISHING SITE LABORATORY AND TESTING OF MATERIALS

All necessary equipment for conducting all necessary tests shall be provided at the site in the well-furnished site laboratory by the contractor at his own cost with proper light and ventilation. The laboratory should be as per CPWD specification 2019 and the following minimum laboratory equipment shall be setup at site office laboratory:-

Sl. No.	Equipment	Numbers (Minimum)
1.	Slump cone, steel plate, tamping rod, steel scale, scoop	1
2.	Weighing scale platform type 200 Kg capacity with least count 0.01kg	1
3.	Graduated glass measuring cylinder	As per requirement
4.	Sets of sieves of 450mm internal dia for coarse aggregate [100mm, 80mm, 40mm; 20mm; 12.5mm, 10mm; 4.75mm complete with lid and pan]	1
5.	Sets of sieves of 200mm internal dia for fine aggregate [4.75 mm; 2.36 mm; 1.18mm; 600microns; 300 microns & 150 micron, with lid and pan]	1
6.	Motorized sieve shaker capable for 450/200 mm dia sieves	1
7.	Cube moulds size 150mmx150mmx150mm	As per requirement (Min 12 Nos)
8.	Cube Compression testing machine ((Digital) (Min 2000 kg capacity)	1
9.	Hot air oven temp. Range 50°C to 300°C-sensitivity 1 degree	1
10.	Electronic balance 600gx0.1g., 10kg and 50kg	1 each
11.	Physical balance weight upto 5kg	1
12.	Measuring jars 100 ml, 200 ml, 500 ml	As required (Min 2 each)
13.	Gauging trowels 100 mm & 200 mm with wooden Handle	As required (Min 2nos)
14.	Spatula 100 mm & 200 mm with long blade wooden Handle	As required (Min 2nos)
15.	Vernier calipers 12" & 6" size (Digital)	3 each
16.	Digital paint thickness meter for steel 500 micron Range	1
17.	GI/ MS tray 600x450x50 mm, 450x300x40 mm, 300x250x40 mm	2No.

18.	Screw gauge 0.1mm-10mm, least count 0.05(Digital)	3 No.
19.	Wash Bottles capacity 500 ml	As required
20.	Hacksaw	3
21.	(a) Measuring tape Steel (5 meter)	3
	(b) Measuring tape PVC (30 meter)	2
22.	Shovels & Spade	18
23.	Plastic or G.I. Buckets 15ltr, 10ltr, 5ltr	1 each
24.	Wheel barrow	6
25.	Floor Brushes, hair dusters, scrappers, wire brush, paint brushes, Shutter steel plate oil, kerosene with stove etc.	6 each
26.	Compaction apparatus (proctor) as per IS 2720 part-VII-1974	1
27.	Computer with Printer	1 set or as required
28.	Rebound Hammer set	1
29.	Any other equipment for site tests as outlined in BIS codes and as directed by the Engineer-in-charge.	As per requirement

The above list is only indicative and not exhaustive. The Bidder may be required to provide more laboratory testing equipment as per requirement of work.

PART- B

(CIVIL WORK)

GENERAL REQUIREMENTS FOR THE TENDER

Name of Work: - A/R & M/O to Residential Buildings situated at IMD Pashan, Pune during 2026-27.

- 1 The tender is advised to read and examine the tender documents for the work and the set of drawings available with Engineer-in-charge. He should inspect and examine the site and its surroundings by himself before submitting his tender.
- 2 Separate schedule of quantity is included in this tender for civil and electrical items of work. If the tenderer wants to offer any unconditional rebates on their rates, the same should also be offered in the respective components of civil and electrical schedule separately. The contractor shall quote the percentage rates in figures and words accurately so that there is no discrepancy in rates written in figures and words.
- 3 Time allowed for the execution of work is **12 (Twelve) Months**
- 4 The contractor(s) shall submit a detailed program of execution in accordance with the master programme / milestone within ten days from the date of issue of award letter.
- 5 The Contractor shall install Fully Automatic batching plant of minimum 15 Cum/ Hr, during the currency of work. However, due to site constraint the engineer in charge may allow procuring concrete from approved RMC plant of capacity 60 Cum/ hr and nothing extra will be paid on this account.
- 6 Quality of the project is of utmost importance. This shall be adhered to in accordance with the provisions of CPWD specifications and guidelines given in the relevant paras.
- 7 The contractor (s) shall make his own arrangements for electricity and water required for the execution of work.
- 8 **50% of the supply items shall be arranged at the start of work & site will be only be handed over after arrangement of 50% supply items.**
- 9 **Cement shall be arranged by the contractor himself.**
- 10 **Steel Reinforcement shall be arranged by the contractor himself.**
- 11 **Engagement of agency for specialized works:**

Contractor has to engage specialized agencies for specialized items of works such as waterproofing. Only those specialized agencies/firms who have satisfactorily executed works as per criteria prescribed in **Para-22, page-8.**

- 12 Contractor has to deploy required Plant and machinery on the project. **Minimum number of plant and machinery to be deployed by him is indicated in table given for minimum T&P.** In case the contractor fails to deploy the plant and machinery whenever required and as per the direction of the Engineer-in-charge, he (Engineer-in-charge) shall be at a liberty to get the same deployed at the risk and cost of the contractor or to make recovery of the same from contractor's bills at prevailing market rate..
- 13 The contractor shall submit the running bills in the shape of the computerized MB in pages of A-4 size as per the standard format of department and shall act as per modified clause 6 A of CPWD-7. This may also be done in ERP if decided by the competent authority of the department.
- 14 Contractor has to provide reinforcement cover blocks made of approved proprietary prepacked free flowing mortars (Conbextra as manufactured by M/s Fosroc Chemical India Ltd. or approved equivalent) of high early strength.
- 15 The contractor shall comply with the provisions of the Apprentices Act 1961, and the rules and orders issued there under from time to time.
- 16 **Bricks shall be of not less than class designation as specified in the nomenclature of the item. The average water absorption of bricks, when immersed in water for 24 hours, shall not be more than 20% of their dry weight.**
- 17 **All other material to be used for this work shall be got approved by the Engineer in charge before mass procurement and Technical Data sheet or Product specifications shall be submitted to Engineer in charge in writing along with sample, shall be kept preserved till completion of the work.**
- 18 **Considering the recent Pandemic Covid-19 environment, the contractor must adhere to the SOP issued by MHA/ MoHFW and State health guidelines issued from time to time and must ensure sanitation and cleanliness at site and nothing extra shall be paid in this account.**

MATERIAL AND QUALITY ASSURANCE

- 1** 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.
- 2** 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.
- 3** The contractor shall submit shop drawings of staging and shuttering arrangement, aluminum work, and other works as desired by Engineer In Charge for his approval before execution. The contractor shall also submit bar bending schedule for approval of Engineer -in - charge before execution.

4 Test Laboratories:

A. Laboratory at site:

The contractor shall establish a testing lab at site and provide testing equipment and materials for the field tests mentioned in the list of mandatory tests given in CPWD specifications 2019 Vol. 1 & 2. Nothing extra shall be payable to him on this account.

The representatives of the department shall be at liberty to inspect the testing facilities at site and conduct testing at random in consultation with Engineer in charge. The contractor shall provide all necessary facilities for the purpose. The laboratory shall be equipped, inter alia, with the following equipment:

a) Balances:

- i) 7 kg to 10 kg capacity, semi self-indicating type – Accuracy 10 gm.
- ii) 500 gm capacity, semi self-indicating type Accuracy 1 gm.
- iii) Pan Balance- 5 kg Capacity- Accuracy 10 gm.

b) Ovens- Electrically operated thermostatically controlled up to 110°C- Sensitivity 1°C.

c) Sieves: as per IS: 460-1962.

- i) IS Sieves – 450 mm internal dia of sizes 100 mm, 80 mm, 63 mm, 50 mm, 40 mm, 25 mm, 20 mm, 12.5 mm, 10 mm, 6.3 mm, 4.75 mm, complete with lid and pan.

- ii) IS Sieves – 200 mm internal dia (brass frame) consisting of 2.36 mm, 1.18 mm, 500 microns, 425 microns, 300 microns, 212 microns, 150 microns, 90 microns, 75 microns with lid and pan.
- d) **Sieve shaker** capable of 200 mm and 300 mm dia sieves, manually operated with timing switch assembly.
- e) Equipment for slump test- slump cone, steel plate, tapping rod, steel scale, scoop.
- f) Equipment for concrete testing

i) Concrete cube moulds 15x15x15cm.	12	Nos.
ii) Temping Rods 2Kg weight length 40cm and ramming face 25mm	04	Nos.
iii) Extra Bottom plates for 15cm cube mould	10	Nos.
iv) Standard Vibration table for cubes	1	Nos.
v) Dial gauges 25 mm travel- 0.01 mm/division least count-	1	Nos.
vi) Universal Compression testing machine of 100 tonne capacity electrically cum manually operated.	1	Nos.
vii) Graduated measuring cylinders 200ml capacity	1	Nos.
viii) Enamel trays (for efflorescence test for bricks).		
(i) 300mmx250mmx40mm	1	Nos.
(ii) Circular plates of 250mm dia	1	Nos.

Not more than 90% tests for material be performed at site lab with above stated equipment's, however at least 10% testing of materials shall be got done from external laboratories. However, for the tests to be carried out by the external laboratories, the contractor shall supply free of charge all the materials required for testing, including transportation. If the tests which were to be conducted in the site laboratory are conducted in other laboratories for any the reasons the cost of such tests shall be borne by the contractor.

• **Other Laboratories :**

The contractor shall arrange carrying out all tests required under the agreement through the laboratory as approved by the Engineer-in-Charge and 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.

Testing of materials in any Govt Lab, IIT or NIT lab/Government Engineering college may be allowed by the Engineer in charge. However in case of private lab, the ADG/ SDG will approve the lab accredited by NABL or any other accreditation body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IEC 17025 for testing and calibration scopes.

• **Sampling of Materials :**

- (i) 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.

- (ii) The contractor shall ensure quality of 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.
- (iii) 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 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.
- (iv) The contractor shall procure all the materials in advance so that there is sufficient time to testing and approving of the materials and clearance of the same before use in work.
- (v) 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.
- (vi) 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.
- (vii) The Stone aggregate / stone, sand shall be brought from source A

As per approval of E-I-C* subjected to the said materials confirm CPWD specifications.

*** To be filled by Executive Engineer.**

- 5 The day-to-day receipt and issue accounts of different grade/brand of cement shall be maintained separately in the standard proforma by the contractor or his authorized representative and which shall be duly signed by the Engineer in Charge or his authorized representative.
- 6 The contractor shall render all help and assistance in documenting the total sequence of this project by way of fortnightly photographs (min 10 Nos. or more), slides, audio-video recording etc. Nothing extra shall be payable to the contractor on this account.
- 7 The contractor shall be fully responsible for the safe custody of materials brought by him issued to him even though the materials are under double lock key system.

- 8 Separate cement registers showing the receipt of the OPC and PPC shall be maintained at site. The contractor shall construct separate godowns for storage of OPC & PPC at site and nothing extra on this account shall be payable.
- 9 Cement issued shall be for consumption at site only. No cement for factory made items and those not manufactured at site shall be issued.
- 10 In case there is any discrepancy in frequency of testing as given in the list of mandatory test and that in the individual sub-head of work as per CPWD specification 2019 Vol. 1 & 2 the higher of the two frequencies of testing shall be adopted.

11 Maintenance of Registers:

- 11.1 All the registers for tests of material to be carried out at construction site or in outside laboratories shall **be maintained by the contractor**. These registers shall be issued to the contractor by Engineer-in-Charge in the same manner as being issued to CPWD field staff.
- 11.2 The test registers to be issued to the contractor are:
 - (a) Materials at site account register.
 - (b) Cement register.
 - (c) Master test registers.
 - (d) Cube test register.
 - (e) Paint register.
 - (f) Inspection registers.
 - (g) Drawing register.
- 11.3 All the entries in the register will be made by the designated engineering staff of the contractor and same should be regularly reviewed by JE/AE/EE.
- 11.4 Contractor shall be responsible for safe custody of all the test registers.
- 11.5 Submission of copy of all test registers, material at site register along with each alternate running account bill and final bill shall be mandatory. These registers should be checked in the office of Executive Engineer- II, CPWD, Pune. Or his successor thereof.
- 11.6 **Ultrasonic Pulse velocity Method of Test for RCC:** Ultrasonic pulse velocity method of test for RCC shall be done as routine test as per IS 13311 (Part-I): 1992. Concrete quality grading shall be done and concrete having graded as good and excellent shall be accepted.

ADDITIONAL CONDITIONS FOR CEMENT

1. The contractor shall procure 43 grade ordinary Portland cement conforming to IS: 8112 /Portland Pozzolana Cement conforming to IS:1489 {Part-I} as required in the work, from reputed manufacturers or their authorized dealers/ reseller of cement such as A.C.C., Ultratech, Vikram, Shree cement, Ambuja, Jaypee Cement, Century Cement, J.K. Cement **or from any other reputed cement Manufacturer having a production capacity not less than one million tonnes per annum as approved by SDG (Mumbai) or his successor thereof appointed by competent authority for that region** . The tenderers may also submit a list of names of cement manufacturers which they propose to use in the work. The tender accepting authority reserves right to accept or reject name(s) of cement manufacturer(s) which the tenderer proposes to use in the work. No change in the tendered rates will be accepted if the tender accepting authority does not accept the list of cement manufacturers, given by the tenderer, fully or partially.

The supply of cement shall be made in 50 kg. Bags bearing manufacturer's name and ISI marking. Samples of cement arranged by the contractor shall be taken by the Engineer-in-Charge and got tested in accordance with provisions of the relevant BIS codes. In case the test results indicate that the cement arranged by the contractor does not confirm to the relevant BIS code the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-in-Charge to do so.

2. The cement shall be brought at site in bulk supply of approximately 50 tonnes or as decided by the Engineer-in-Charge. The cement godowns of the capacity to store a minimum of **1000bags** of cement shall be constructed by the contractor at site of work for which no extra payment shall be made.
3. Double lock provision shall be made to the door of the cement godown. The keys of one lock shall remain with the Engineer-in-charge or his authorized representative and the key of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement godown. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-Charge at any time.
4. The cement shall be got tested by the Engineer-in-Charge and shall be used on the work only after satisfactory test results have been received. **All expenditure to be incurred for testing of samples e.g. supply of material, packaging, sealing, transportation, loading, unloading, etc. including testing charges shall be borne by the contractor.**
5. The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in clause 38 of the contract and shall be governed by conditions laid therein. No Minus side cement consumption is allowed. In case of excess consumption no adjustment need to made.

- 6 The cement brought to site and the cement remaining unused after completion of the work shall not be removed from site without the written permission of the Engineer-in-Charge.
- 7 The damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in writing from the Engineer-in-Charge. If he does not do so within three days of receipt of such notice, the Engineer-in-Charge shall get it removed at the cost of the contractor.
- 8 The contractor may use PPC conforming to IS 1489 (Part I) in place of OPC for other items of work other than concrete and RMC.
- 9 43 grade ordinary Portland cement conforming to IS 8112 shall be used for concrete and RMC work. The Contractor shall procure cement only from reputed manufacturers as per list of preferred brands as specified in the tender document.
- 10 Cement:- 43 grade ordinary Portland cement conforming to IS 8112 shall be used.
 - a) In case 43 grade Ordinary Portland Cement is not available, the contractor will be allowed to use 53 grade Ordinary Portland Cement (conforming to IS: 12269), subject to documentary evidence produced by the contractor regarding non availability of the specified grade and also subject to independent verification by the Engineer-in-Charge. Nothing extra shall be paid for this.
 - b) Use of fly ash conforming to IS 3812 (Part –I) is permitted in cement concrete work as partial substitution of OPC subject to fulfilment of conditions as per IS 1489 (Part-I) and satisfying the condition of minimum cement content.

ADDITIONAL CONDITIONS FOR STEEL REINFORCEMENT**1 Special condition for steel reinforcement bars**

- 1.1** (a) The CPWD / Contractor shall/procure IS marked TMT bars of various grades from
- (1) The Steel Manufacturers such as SAIL, TATA steel Ltd., RINL, Jindal Steel & Power Ltd, and JSW steel Ltd. or their authorized dealers having valid BIS license for IS: 1786-2008 (Amendment-1 November 2012)
 - (2) The steel manufacturers or their authorized dealers (as per following selection criteria) having valid BIS license for IS:1786- 2008 (Amendment-1 November 2012).

The procured steel should have following qualities:-

- i. Excellent ductility, bend ability and elongation of finished product due to possible refining technology.
- ii. Consumption of steel should be accurate as per design.
- iii. Steel should have no brittleness problem in finished product.
- iv. Steel should carry the quality of corrosion and earthquake resistance.
- v. Quality steel with achievement of proper level of Sulphur and Phosphorus as per IS: 1786-2008.

(b) Selection Criteria of steel manufacturers

- (I) The supply of reinforcement steel for all CPWD works should have following selection criteria of steel manufacturers:- Steel producers of any capacity using iron or/processed iron ore as the basic raw material adopting advanced refining technologies as given under,
 - (i) DRI-EAF= Direct Reduced iron - Electric arc furnace.
or
 - (ii) BF-BOF= Blast furnace - Basic oxygen furnace
or
 - (iii) COREX-BOF= COREX- Basic oxygen furnace

For production of liquid steel to finish product at single/multiple locations with NABL or any other Similarly placed accrediting Government body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IEC 17025 conforming to IS:1786 -2008 (Amendment -1 November 2012).

The check list for incorporation of any quality steel producer is enclosed for technical assessment is given in Annexure-IV

Chief Engineer CSQ (Civil) unit, Directorate of CPWD shall approve the steel manufacturers.

- 1.2** The contractor shall have to obtain and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work.
- 1.3** Samples shall also be taken and got tested by the Engineer-in Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged

by the contractor does not conform to the specifications, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time or written orders from the Engineer-in-Charge to do so.

- 1.4** The steel reinforcement bars shall be brought to the site in bulk supply of 10 tonnes or more, or as decided by the Engineer-in charge.
- 1.5** The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent their distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
- 1.6** For checking nominal mass, tensile strength, bend test, re-bend test etc. specimens of sufficient length shall be cut from each size of the bar at random, and at frequency not less than that specified below:

Size of bar	For consignment below 100 tonnes	For consignment above 100 tonnes
Under 10 mm dia bars	One sample for each 25 tonnes or part thereof	One sample for each 40 tonnes or part thereof
10 mm to 16mm dia bars	One sample for each 35 tonnes or part thereof	One sample for each 45 tonnes or part thereof
Over 16 mm dia bars	One sample for each 45 tonnes or part thereof	One sample for each 50 tonnes or part thereof

- 1.7** All expenditure to be incurred for testing of samples e.g. supply of material, packaging, sealing, transportation, loading, unloading, etc. including testing charges shall be borne by the contractor.
- 1.8** The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 38 of the contract and shall be governed by conditions laid therein. No Minus side consumption is allowed. In case of excess consumption no adjustment need to be made.
- 1.9** The steel brought to site and the steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.

Special Condition for Steel

(Annexure-IV)

S.No	Item	Checkpoint	Remarks
1	Steel Producer having manufacturing facilities at Plant	a. Factory address and Registration No.	
		b. Certificate of manufacturing process	
		c. refining process of steel producer	
		c.1 BF-BOF route	
		c.2 Corex-BOF route	
		c.3 DRI-EAF route	
		with documentary evidence either for BOF or EAF	
		d. Steel plant having infrastructure for producing sponge iron, billetes and TMT Rebars	
		e. Production and Quality Flow Chart	
		f. Plant evaluation and Process Verification	
		g. List of Plant & Machinery	
2	Established	Document verification for :	
		a. Govt./PSU Approvals	
		b. Supply orders of TMT Re-bars in Govt. Projects (Minimum-5 years)	
		c. Verification of direct supply orders to any state/central govt. Department	
		d. User Certificate issued by any Govt. Department directly	
3	Indigenous	Document evidence like :	
		a. Certificate of incorporation	
		b. Memorandum of Articles of Association	
		c. Credit rating of the company from CARE/CRISIL/ICRA should not be C/D grade (minimum last 3 year)	
4	Reliable	a. Test results from Govt./NABL accredited laboratories	
		b. In-house testing facility for physical / Chemical tests (NABL accredited)	
		c. Calibration Certificates	
		d. List of Lab Equipments	
		d.1 Spectrometer	
		d.2 Computerized UTM	
5	Use of Iron-Ore/Processes iron are as basic raw materials	Verification of Iron-Ore/Process iron are invoices	

6	In-house rolling facility	Plant verification to identify in-house rolling facilities, production of liquid steel & crude steel	
7	Licenses & Certificates	a. ISO 9001:2008 Certification	
		b. ISO 14001:2004 Certification	
		c. OHSAS 18001:2007 Certification	
		d. IS 1786:2008 (TMT Re-bars)	
		e. IS 2830:1992 (billets)	
8	Product Range	TMT Re-bars FE 415/415D/500/500D/500/550D	
		CRS (Corrosion Resistant) & EQR (Earthquake Resistant) TMT Re-bars Size 8 to 36 mm dia	

Note:

DRI - EAF - > Direct Reduce iron – Electric ARC Furnace

BF – BOF - > Blast Furnace – Basic Oxygen Furnace

COREX – BOF - > COREX Furnace – Basic Oxygen Furnace

- 1.10** Steel bars 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.
- 1.11** In case the contractor brings surplus quantity of steel the same after completion of the work will be removed from the site by the contractor at his own cost after approval of the Engineer-in-Charge.
- 1.12** Reinforcement including authorized spacer bars and lappages shall be measured in length of different diameters, as actually (not more than as specified in the drawing) used in the work, nearest to a centimeter. Wastage and unauthorized overlaps shall not be measured.
- 1.13** The standard sectional weights referred to as in **Table 5.4 under para 5.3.4 ,page-140** , in CPWD specifications for works 2019 Vol.1 will be considered for conversion of length of various sizes of MS bars, Tor steel bars and TMT bars into standard weight.
- 1.14** Records of actual sectional weight shall also be kept dia-wise & lot-wise. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site.. The decision of the Engineer-in-Charge shall be final for the procedure to be followed for determining the average sectional weight of each lot. Quantity of each diameter of steel received at site of work each day will constitute one single lot for the purpose. The weight of steel by conversion of length of various sizes of bars based on the actual weighted average sectional weight shall be termed as derived actual weight.
- 1.15** If the derived weight as in para **1.14** above is lesser than the standard weight as in para 1.13 above the derived actual weight shall be taken for payment.

If the derived actual weight is found more than the standard weight then the standard weight as worked out in para 1.13 above shall be taken for payment. In such case nothing extra shall be paid for the difference between the derived actual weight and the standard weight.

1.16 Mixing of different type of steel/different grades of steel shall not be allowed in the same structural members as main reinforcement to satisfy clause 26.1 of IS:456.

1.17 Tolerances on Nominal Mass (individual sample) shall be as under:-

(Table 5.4A / page-141 / Specification – Vol-1-2019)

Sl. No.	Nominal size mm	Tolerances on the Nominal Mass, percentage
1	Up to and including 10	-8%
2	Over 10 up to & including 16	-6%
3	Over 16	-4%

GENERAL TERMS AND CONDITIONS

1. The order of preference in case of any discrepancy as indicated in condition No. 8.1 under “Conditions of Contract” give in standard CPWD contract form may be read as the following:
 - (i) Description of items as given in Schedule of quantities
 - (ii) Particular specifications
 - (iii) Special conditions
 - (iv) Additional Conditions
 - (v) Tender drawings attached
 - (vi) CPWD Specifications
 - (vii) General Conditions of Contract for CPWD works
 - (viii) I.S. Codes
 - (ix) National Building code.
 - (x) ASTM, BS, or other foreign origin code mentioned in tender document
 - (xi) Decision of Engineer-in-Charge
 - (xii) Sound Engineering practices or well-established local construction practices

Note: Unless otherwise specified, CPWD Specifications 2019 volume- I&II with corrections slips till the last date of tender submission shall be followed in general. Any additional item of work, if taken up subsequently, shall also conform other relevant CPWD specifications mentioned above.

A reference made to any Indian Standard specification in these documents, shall imply to the latest version of that standard. Including such revision/ amendments as issued by the Bureau of Indian standard up to last date of receipt of tenders. The contractor shall keep at his own cost all such publications of relevant Indian standard applicable to the work at site.

2. Except for the items, for which particular specifications are given or where it is specifically mentioned otherwise in the description of items in the schedule of quantities the work shall generally be carried out in accordance with the “CPWD specifications 2019 Vol. 1 and Vol. 2 (with upto date corrections slips). (Hereinafter to be referred to as CPWD specifications) and instructions of Engineer-in-Charge. Wherever CPWD specifications are silent the latest IS codes/specification shall be followed.
- 3 Unless otherwise provided in the Schedule of Quantities/Specifications, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the work and nothing extra shall be payable to him on account of the same.
- 4 The proposed building is a prestigious project 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. Many items like stone masonry & stone cladding works, stone flooring, and structural glazing, PVDF coating aluminium composite panel and other specialized flooring work, Wood work will specially require engagement of skilled workers having experience particularly in execution of such items.
- 5 a) The contractor (s) shall inspect the site of work before tendering and acquaint himself with the site conditions and no claim on this account shall be entertained by the department.

- b) The contractor (s) shall get himself acquainted with nature and extent of the work and satisfy himself about the availability of materials from kiln or approved quarries for collection and conveyance of materials required for construction.
- 6 The contractor (s) shall study the soil investigation report for the site, available in the office of the Engineer-in-Charge and satisfy himself about complete characteristics of soil and other parameters of site. However, no claim on the alleged inadequacy or incorrectness of the soil data shall be entertained.
 - 7 Existing roads of campus can not be allowed to use for loaded Trucks. The Entry to the site for loaded trucks to carry material shall be along the Boundary Wall, the same shall be made good, improved and maintained by the contractor at his own cost. No payment shall be made on this account.
 - 8 The contractor (s) shall give to the Municipality, Police and other authorities all necessary notices etc. that may be required by law and obtain all requisite Licenses for temporary obstructions, enclosures etc. and pay all fee, taxes and charges which may be leviable on account of these operations in executing the contract. He shall make good any damage to the adjoining property whether public or private and shall supply and maintain light and other illumination on for cautioning the public at night.
 - 9 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.
 - 10 Contractor shall provide permanent bench marks and other reference points for the proper execution of work and these shall be preserved till the end of work. All such reference points shall be in relation to the levels and locations, given in the architectural and plumbing drawings.
 - 11 The contractor shall make his own arrangement for obtaining electric connection(s) if required and make necessary payments directly to the department concerned.
 - 12 Other agencies doing works related with this project may also simultaneously execute their works and the contractor shall afford necessary facilities for the same. The contractor shall leave such necessary holes, openings etc. for laying/burying in the work, pipes cables, conduits, clamps, boxes and hooks for fan clamps etc. as may be required for the other agencies. Nothing extra over the Agreement rates shall be paid for doing these.
 - 13 The contractor shall fully comply with all legal orders and directions of the Public or local authorities or municipality and adhere by their rules and regulations and pay all fees and charges for which he may be liable in this regard. Nothing extra shall be paid/reimbursed for the same.

- 14 The building work including all services shall be carried out in the manner complying in all respects with the requirements of the relevant bylaws and regulations of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-charge and nothing extra shall be paid on this account. The contractor shall engage plumbing and sanitary agency approved by the Engineer-in-charge, which should have adequate T&P, skilled workers having adequate experience and necessary skill certificate from competent authority to execute the work.
- 15 The contractor shall give a performance test of the entire installation(s) as per standing specifications before the work is finally accepted by making his own arrangements for water supply, electricity etc. and nothing extra whatsoever shall be payable for the same.
- 16 If as per local Municipal regulations, huts for labour are not to be erected at the site of work; the contractor shall be required to provide such accommodation at a place outside the campus as is acceptable to the local body and nothing extra shall be paid on this account.
- 17 It shall be ensured by the contractor that no electric live wire is left exposed or unattended to avoid any accidents in this regard.
- 18 The structural and architectural drawings shall at all times be properly co-related before executing any work. However, in case of any discrepancy in the item given in the schedule of quantities appended with the tender and Architectural drawings relating to the relevant item, the former shall prevail unless otherwise given in writing by the Engineer-in-charge.
- 19 The contractor shall maintain in perfect condition, all portions executed till completion of the entire work allotted to him. Where however phased delivery of work is contemplated these provisions shall apply separately to each phase.
- 20 The entire royalty at the prevalent rates shall have to be paid by the contractor on all the boulders, metals, shingle sand etc. collected by him for execution of the work, directly to the Revenue authority or authorized agents of the State Government concerned or the Central Government, as the case may be.
- 21 The contractor shall issue Identity card to all laborer and engineers/staff engaged by him and nothing shall be paid on this account.

22 PROGRAMME CHART

The contractor shall prepare an integrated programme chart for the execution of work and the detailed provision in clause 5 of GCC shall be followed.

- 23 If the work is carried out in more than one shift or during night no claim on this account shall be entertained.

- 24 Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.
- 25 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.
- 26 The contractor shall bear all incidental charges for cartage, storage and safe custody of materials issued by department.
- 27 The contractor shall take instructions from the Engineer-in-charge for stacking of materials. No excavated earth or building materials etc. shall be stacked / collected in areas where other buildings, roads, services, compound walls etc. are to be constructed.

Any trenching and digging for laying sewer lines/water lines/cables etc. shall be commenced by the contractor only when all men, machinery's and materials have been arranged and closing of the trench(s) thereafter shall be ensured within the least possible time.

- 28 The works shall be carried out in accordance with the Architectural drawings and structural drawings, to be issued from time to time by the Engineer-in-Charge. Before commencement of any item of work, the contractor shall correlate all the relevant architectural and structural drawings issued for the work and satisfy himself that the information available there of is complete and unambiguous. The discrepancy, if any shall be brought to the notice of the Engineer-in-Charge before execution of the work. The contractor alone shall be responsible for any loss or damage executing by the commencement of work on the basis of any erroneous and or incomplete information.
- i) The contractor shall take all precautions to avoid accidents by, exhibiting caution boards day and night, speed limit boards, red flags, red light and providing necessary barriers and other measures required from time to time. The contractor shall be responsible for all damages and accidents due to negligence on his part.
- ii) Other agencies will also simultaneously execute and install the works of electrification, air conditioning, lifts, fire-fighting etc. for this work and the contractor shall provide necessary facilities for the same. The contractor shall leave such recesses, holes openings etc. as may be required for the electric, air-conditioning and other related works (for which inserts, sleeves, brackets, conduits base pinion, clamps etc. shall be supplied free of cost by the department unless otherwise specifically mentioned) and the contractor shall fix the same at time of casting of concrete, stone work & brick work, if required and nothing extra shall be payable on this account.

- iii) 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 off 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.
 - iv) All Architectural drawings given in the tender other than those indicated in nomenclature of items are only indicative of the nature of the work and materials/fixings involved unless and otherwise specifically mentioned. However, the work shall be executed in accordance with the drawings duly approved by the Engineer-in-Charge.
- 29** Samples of all materials and fittings to be used in the work in respect of brand manufacturer and quality shall be got approved from the Engineer-in-Charge, well in advance of actual execution and shall be preserved till the completion of the work. Articles bearing BIS certifications mark shall only be used unless no manufacturer has got BIS 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.

Unless otherwise specified in the schedule of quantities the rates for all items shall be considered as inclusive of pumping/baling out water, if necessary, for which no extra payment shall be made. Those conditions shall be considered to include water from any source such as inflow of flood, surface and sub-soil water etc. and shall apply to the execution in any season.

30 Green Building Norms:-

The building is planned as minimum three star GRIHA rating. The contractor is required to execute the work in a befitting manner to suit these standards.

30.1 Construction Vehicles, Equipment and Machinery

- a) All vehicles, equipment and machinery to be procured for construction shall conform to the relevant Bureau of India Standard (BIS) norms.
- b) Emission from the vehicles must conform to environmental norms.
- c) Dust produced from the vehicular movement and other site activities is to be mitigated by sprinkling of water.
- d) Noise limits for construction equipment shall not exceed 75 dB(A), measured at one meter from the edge of the equipment in free area, as specified in the Environment Protection Act, 1986, schedule VI part E, as amended on 9th May, 1993. The maximum noise levels near the construction site should be limited to 65 dB (A) Leq (5 min) in project area.

30.2 Construction Wastes Disposal

- (i) The pre-identified dump locations will be a part of solid waste management plan to be prepared by the Contractor in consultation with Engineer-in-charge.
- (ii) Contractor shall get approved the location of disposal site prior to commencement of the excavation on any section of the project location.
- (iii) Contractor shall ensure that any spoils of material / construction waste will not be disposed off in any municipality solid waste collection bins.

30.3 Procurement of Construction Materials

- (i) All vehicles delivering construction materials to the site shall be covered to avoid spillage of materials and maintain cleanliness of the roads.
- (ii) Wheel Tyres of all vehicles used by of the contractor, or any of his sub contractor or materials suppliers shall be cleaned and washed clear of all dust/mud before leaving the project premises. This shall be done by routing the vehicles through tyre washing tracks.
- (iii) Contractor shall arrange for regular water sprinkling at least twice a day (i.e. morning and evening) for dust suppression of the construction sites and unpaved roads used by his construction vehicles.

30.4 Water Pollution

- (i) The Contractor shall take all precautionary measures to prevent the wastewater during construction to accumulate anywhere.
- (ii) The wastewater arising from the project is to be disposed off in the manner that is acceptable to the Engineer –in-charge.

30.5 Air and Noise Pollution

Contractor shall use dust screens and sprinkle water around the construction site to arrest spreading of dust in the air and surrounding areas.

- a. Contractor shall ensure that all vehicles, equipment and machinery used for construction are regularly maintained and confirm that emission levels comply with environmental emission standards/norms.
- b. For controlling the noise from Vehicles, Plants and Equipments, the Contractor shall confirm the following:
- c. All vehicles and equipment used in construction will be fitted with exhaust silencers.

- d. Servicing of all construction vehicles and machinery will be done regularly and during routine servicing operations, the effectiveness of exhaust silencers will be checked and if found defective will be replaced.
- e. Noise emission from compactors (rollers) front loaders, concrete mixers, cranes (movable), vibrators and saws should be less than 75 dB(A).
- f. As per the standards/guidelines for control of Noise Pollution from Stationary Diesel Generator (DG) sets, noise emission in dB(A) from DG Set (15-500 KVA) should be less than $94 + 10 \log_{10} (KVA)$. The standards also suggest construction of acoustic enclosure around the DG Set and provision of proper exhaust muffler with insertion loss of minimum 25 dB(A) as mandatory.

30.6 Personal Safety Measures for Labour

Contractor shall provide the following items for safety of workers employed by contractor and associate agencies:

- (i) Protective footwear / helmet and gloves to all workers employed for the work on mixing, cement, lime mortars, concrete etc. and openings in water pipeline/sewer line.
- (ii) Welder's protective eye-shields to workers who are engaged in welding works.
- (iii) Safety helmet and Safety harness/ belt Provide adequate sanitation/safety facilities for construction workers to ensure the health and safety of the workers during construction, with effective provisions for the basic facilities such as sanitation, drinking water and safety equipment or machinery.
- (iv) All the workers should be wearing helmet and shoes all the time on site.
- (v) Masks and gloves should be worn whenever and wherever required.
- (vi) Adequate drinking water facility should be provided at site, adequate number of decentralized latrines and urinals to be provided for construction workers.
- (vii) Full time workers (if any with the approval of Engineer-in-Charge) residing on site should be provided with clean and adequate temporary hutment.
- (viii) First aid facility should also be provided.
- (ix) Overhead lifting of heavy materials should be avoided. Barrow wheel and hand-lift boxes should be used to transport materials onsite.
- (x) Tobacco and cigarette smoking should be prohibited onsite.

- (xi) All dangerous parts of machinery are well guarded and all precautions for working on machinery are taken.
 - (xii) Maintain hoists and lifts, lifting machines, chains, ropes and other lifting tackles in good condition. Provide safety net of adequate strength to arrest falling material down below.
 - (xiii) Use of durable and reusable formwork systems to replace timber formwork and ensure that formwork where used is properly maintained.
 - (xiv) Ensure that walking surfaces or boards at height are of sound construction and are provided with safety rails and belts. Provide protective equipment such as helmets.
 - (xv) Provide measure to prevent fire. Fire extinguisher and buckets of sand to be provided in fire prone area and elsewhere.
 - (xvi) Provide sufficient and suitable light for working during night.
 - (xvii) Ensure that measures to protect workers from materials of construction, transportation, storage and other dangers and health hazards are taken.
 - (xviii) Ensure that the construction firm/division/company have sound safety policies.
 - (xix) Comply with the safety procedure, norms and guidelines (as applicable) as outlined in NBC 2005 (BIS 2005c).
 - (xx) Adopt additional best practices and prescribed norms as in NBC 2005 (BIS2005).
- 30.7** Identify roads on-site that would be used for vehicular traffic. Update vehicular roads (if these are unpaved) by increasing the surface strength by improving particle size, shape and mineral type that make up the surface base. Add surface gravel to reduce source of dust emission. Limit amount of fine particles (smaller than 0.075mm) to 10 - 20%. Limit vehicular speed on site 10km/h. Nothing extra will be payable for this.
- 30.8** All material storages should be adequately covered and contained so that they are not exposed to situations where winds on site could lead to dust/particulate emissions.
- 30.9** Spills of dirt or dusty materials shall be cleaned up promptly so the spilled material does not become a source of fugitive dust and also to prevent of seepage of pollutant laden water into the ground aquifers. When cleaning up the spill, ensure that the clean – up process does not generate additional dust. Similarly, spilled concrete slurries or liquid wastes should be contained/cleaned up immediately before they can infiltrate into the soil/ground or runoff in nearby areas.
- 30.10** Ensure that water spraying is carried out by wetting the surface by spraying water on:
- (i) Any dusty material.

- (ii) Areas where demolition work is carried out.
- (iii) Any unpaved main-haul road and.
- (iv) Areas where excavation or earth moving activities are to be carried out.

30.11 The contractor shall ensure the following:

- (i) Cover and enclose the site by providing dust screen, sheeting or netting to scaffold along the perimeter of a building.
- (ii) Covering stockpiles of dusty material with impervious sheeting.
- (iii) Covering dusty load on vehicles by impervious sheeting before they leave the site.
- (iv) Transferring, handling / storing dry loose materials like bulk cement and dry pulverized fly ash inside a totally enclosed system.
- (v) Spills of dirt or dusty materials shall be cleaned up promptly so that the spilled material does not become a source of fugitive dust and also to prevent seepage of pollutant laden water into the ground aquifers. When cleaning up the spill, ensure that the clean-up process does not generate additional dust. Similarly, spilled concrete slurries or liquid wastes should be contained / cleaned up immediately before they can infiltrate into the soil/ground or runoff in nearby areas.
- (vi) Clear vegetation only from areas where work will start right away.

30.12 Adopt measures to prevent air pollution in the vicinity of the site due to construction activities. There is no standard reference for this. The best practices should be followed (as adopted from international best practice documents and codes).

30.13 Provide sheet covering / barricading of site of not less than 3m height along the site boundary, next to a road or other public area. Nothing extra will be paid for this.

30.14 The contractor shall provide experienced personnel with suitable training to ensure that these methods are implemented. Prior to the commencement of any work, the method of working, plant equipment and air pollution control system to be used on –site should be made available for the inspection and approval of the Engineer –in-Charge to ensure that these are suitable for the project.

30.15 Employ measures to segregate the waste on-site into inert, chemical or hazardous wastes. Recycle the unused chemical/hazardous wastes such as oil, paint, batteries and asbestos. The inert waste is to be disposed off to Municipal Corporation/local bodies dump yard and landfill sites.

30.16 To preserve the existing landscape and protect it from degradation during the process of construction. Select proper timing for construction activity to minimize the disturbance such as soil pollution due to spilling of the construction material and its mixing with rainwater. The construction management plan including soil erosion control management plan shall be prepared accordingly for each month. The application of erosion control

measures includes construction of gravel pits and tyre washing bays of approved size and specification for all vehicular site entry/exits, protection of slopes greater than 10%. Sedimentation Collection System and run-off diversion systems shall be in place before the commencement of construction activity. Preserve and protect the existing vegetation by not-disturbing or damaging to specified site areas during construction.

- 30.17** The Contractor should follow the construction plan as proposed by the Engineer-in-charge / landscape consultant to minimize the site disturbance such as soil pollution due to spilling. Use staging and spill prevention and control plan to restrict the spilling of the contaminating material on site.
- 30.18** Spill prevention and control plans should clearly state measures to stop the source of the spill. Measures to contain the spill and measures to dispose the contaminated material and hazardous wastes. It should also state the designation of personnel trained to prevent and control spills. Hazardous wastes include pesticides, paints, cleaners and petroleum products.
- 30.19** A soil Erosion and Sedimentation Control Plan (ESCP) should be prepared prior to construction and should be applied effectively.
- 30.20** The contractor shall prepare and submit 'Spill prevention and control plans' before the start of construction, clearly stating measures to stop the source of the spill, to contain the spill, to dispose the contaminated material and hazardous wastes, and stating designation of personnel trained to prevent and control spills. Hazardous wastes include pesticides, paints, cleaners, and petroleum products.
- 30.21** The contractor shall ensure that no construction leaches (Ex: cement slurry) is allowed to percolate into the ground. Adequate precautions are to be taken to safeguard against this including reduction of wasteful curing processes, collection, basic filtering and reuse. The contractor shall follow requisite measures for collecting drainage water run-off from construction areas and material storage sites and diverting water flow away from such polluted areas. Temporary drainage channels, perimeter dike/swale, etc. shall be constructed to carry the pollutant –laden water directly to the treatment device or facility (municipal sewer line).
- 30.22** All lighting installed by the contractor around the site and at the labour quarters during construction shall be CFL bulbs of the appropriate illumination levels. This condition is a must, unless specifically prescribed otherwise.

31. SUBMISSION OF AS BUILT DRAWINGS AND OBTAINING PLINTH LEVEL COMPLETION CERTIFICATE (BUILDING USE PERMISSION)

~~The Contractor shall submit required sets of "AS BUILT" drawings to the CPWD, Municipal Corporation / Local bodies etc. for obtaining various service connections and Plinth level completion certificate. The Contractor shall submit to the Department, 4 sets~~

of “AS BUILT” drawings and also in soft copy (CD—4 sets) in one of the standard software package. Nothing extra shall be payable on this account.

32. FACILITIES FOR THE DEPARTMENT

32.1 ~~The Contractor shall provide, construct and maintain at all times during execution and till the completion of work, a temporary site office with adequate electric light fittings, A.C., fans, electric/ power points, switches etc for use of the Engineer in Charge and his authorized representatives. Area of such office shall be approximately 30-40 sqm and shall be provided with 3/4 compartments and suitable partitions, doors, windows, locking arrangement etc. with a **conference hall for 10 persons**, all as per the architectural drawings, for exclusive use of the Department. Adequate toilet facilities (1 no. I.W.C and 2 nos. urinals) connected to a temporary septic tank / soak pit, drinking water purifier and water cooler shall also be provided exclusively for the use by the Department. All the water and electricity charges (for running these fittings and equipment as per the requirement including for the equipment provided by the Department), shall be borne by the contractor. The entire site office and its surroundings shall be maintained in a neat and clean condition by the Contractor for the entire duration of the construction. The premises / facilities provided by the contractor shall be owned and thus demolished / dismantled / disconnected and material carted away by him at its own cost after the completion of work or as directed by Engineer in Charge. The rates quoted by the Contractor shall be inclusive of providing and maintaining such facilities and nothing extra shall be payable on this account.~~

32.1.2 The contractor shall make arrangement for Helmets and safety shoes (meant of construction work at sites) for all field staff of the department during the entire period of construction for safety reasons. One helmet and two pairs of shoes per staff member (maximum ten members) of the departments per year shall be arranged by the contractor.

32.1.3 ~~The Contractor shall arrange for one number latest all in one, core i7 computer with 27” screen along with printer, necessary peripherals and including broadband connection with one number computer operator at the disposal of Engineer in charge. The computer shall be provided with MS project & the computer operator shall be fully conversant with MS word, Excel, Power point, Auto CAD & MS Project. All the data related to this work along with the computer shall be handed over to the department for their use on completion of the work. Nothing extra shall be paid on this account.~~

Note 1: The special conditions detailed above are in addition to general/ other/ additional conditions as specified elsewhere in tender document.

Note 2: Nothing extra shall be paid on the account of these special conditions.

33. CLEANLINESS OF SITE AND INSPECTIONS

(i) Senior Officers of CPWD, Dignitaries from Central Ministry / Department, client department's representatives shall be inspecting the on-going work at site at any time with or without prior intimation. The contractor shall, therefore, keep updated the following requirements and detailing:-

- (a) Display Board showing detail of work, weekly progress achieved with respect to targets, reason of shortfall, status of manpower, wages being paid for different categories of workers.
- (b) Display layout plan key plan, building drawings including plans, elevations and sections.
- (c) Up to date displays of Bar chart, CPM and PERT etc.
- (d) Keep details of quantities executed, balance quantities, deviations, possible Extra item, substituted Item etc.
- (e) Keep plastic / cloth mounted one sets of building drawings.
- (f) Set of Helmets and safety shoes for exclusive use for officers/dignitaries visiting at site.
- (g) Entrance and area surrounding to be kept cleaned.

34. PRODUCT DELIVERY, STORAGE AND HANDLING OF CHEMICALS

- (i) The contractor shall construct storage space for Chemicals materials to ensure that the storage conditions are as recommended by the manufactures.
- (ii) All the materials shall be procured and delivered in sealed containers with labels legible and intact.
- (iii) All the chemicals (polymers, epoxy, water proofing compound, anti-termite chemicals, plasticizer, Polysulphide, SBR based elastomeric, APP (Atactic Polypropylene Polymer), all exterior and interior paints, polish etc.) shall be procured in convenient packs say 20 litres/ Kgs. capacity packing only or as approved by the Engineer-in-charge, and not in bigger capacity containers, say 200 litre (Kgs.) drums unless otherwise specifically permitted by the Engineer-in-charge. One sample from each lot of the chemical procured by the contractor shall be tested in a laboratory as approved by the Engineer-in-charge
- (iv) All material required for the execution of the work shall be got approved, procured and deposited with the Departmental supervisory staff. The materials shall be kept in joint custody of the contractor and the Department. The watch and ward of such material shall, however, remain to be the responsibility of the contractor and no claim, whatsoever, on this account shall be entertained. Different containers of each chemical shall be serially numbered on packing and also consumed in that order. Day- to-Day account of receipt, issue and balance shall be regulated by the

Department and proper account shall be maintained at site of work in the prescribed form as per the standard practice.

- (v) All the chemicals shall be procured by the contractor directly from the manufacturer. In exceptional circumstances, the contractor may be allowed to procure the materials from the authorized dealers of the manufacturers, if specifically permitted by the Engineer-in-charge.
- (vi) The original copies of challan/cash memos towards the quantity of various chemicals procured shall be made available by the contractor at the request from the Engineer- in- Charge and a copy of the same shall be kept in record.
- (vii) The Name of manufacturers, manufacturer's product identification, manufacturer's mixing instructions, warning for handling and toxicity and date of manufacturing and shelf life shall be clearly and legibly mentioned on the labels of each container.
- (viii) The contractor shall submit for the chemicals procured, manufacturer's and/ or authorized dealer's certificate regarding supplying and verifying conformance to the material specifications, as specified.
- (ix) All filled containers shall be handled in safe manner and in a way to avoid breaking container seals.
- (x) Empty containers of the chemicals should not be removed from site till the completion of work and shall be removed only with the written approval of the Engineer-in-charge.
- (xi) All arrangements for measuring, dosing and mixing of material / chemicals at site have to be made by the contractor.
- (xii) Contractor shall suitably advise his site Engineer and all the workers as regards safe handling of chemicals. Necessary protective and safety equipment in form of hand gloves, goggles etc. shall be provided by the contractor and be also used at site.
- (xiii) All incidental charges of any kind including cartage, storage and wastage and safe custody of material etc. shall be borne by the contractor and no claim, whatsoever, shall be entertained on this account.
- (xiv) The chemicals shall be tested in an independent laboratory as approved by the Engineer-in- charge at the frequency as specified. If required, more samples may have to be tested as per the directions of the Engineer-in-charge. Nothing extra shall be payable on this account. Testing charges shall be borne by the contractor.

35. DE-WATERING

- (i) De-watering required, if any, shall be done conforming to BIS Code IS: 9759 (guide lines for de-watering during construction) and / or as per the specifications approved by the Engineer-in- charge. Design of an appropriate and suitable dewatering system shall be the Contractor's responsibility.

- (ii) Such scheme shall be modified / augmented as the work proceeds based on fresh information discovered during the progress of work, at no extra cost. At all times during the construction work, efficient drainage of the site shall be carried out by the Contractor and especially during the laying of plain cement concrete, taking levels etc. The Contractor shall also ensure that there is no danger to the nearby properties and installations on account of such lowering of water table. If needed, suitable precautionary measures shall be taken by the Contractor. Also the scheme of dewatering adopted shall have adequate built in arrangement to serve as stand-by to attend to repair of pumps etc. and disruption of power / fuel supply. Nothing extra shall be payable on this account.
- (iii) In trenches where surface water is likely to get into cut / trench during monsoons, a ring bund of puddle clay or by any other means shall be formed outside, to the required height, and maintained by the Contractor. Also, suitable steps shall be taken by the Contractor to prevent back flow of pumped water into the trench. Nothing extra shall be payable on this account.
- (iv) For works below ground level the contractor shall keep that area free from water. If dewatering or bailing out of the water is required, the contractor shall do the same at his own cost and nothing extra shall be paid. Nothing extra shall be paid for execution of work in or under water and / or liquid mud including pumping out of water as required.

PARTICULAR SPECIFICATION & CONDITIONS OF WORK

1 EARTH WORK

- 1.1 The work shall be done in accordance with CPWD specifications. Any trenching and digging within the least possible for laying sewer lines/water lines/cables etc. shall be commenced by the contractor only when all men, machineries and materials have been arranged and closing of the trench(s) thereafter shall be ensured time.

1.2 Note for all items for excavation:-

It is the responsibility of the contractor to take suitable slope protection measures, If required, to ensure protection of adjoining structures / buildings / compound wall / service line etc. during excavation.

The contractor shall submit proposal for the measures to be undertaken, to the Engineer in Charge for approval before excavation. The approval shall not absolve the contractor of his responsibility to ensure protection of adjoining structures / buildings / compound wall / service line etc during excavation. The rates quoted by the contractor shall be inclusive of all such protection measures.

1.3 Note regarding payment of Royalty to State Government

No excavated earth shall be removed from the campus unless suggested otherwise by Engineer in Charge. All subsoil shall be reused in backfilling / landscape, etc. as per the instructions of the Engineer in Charge. The surplus excavated earth shall be disposed of by the contractor at his own cost for reuse. Royalty at the prevailing rate on the soil / Rock is to be deposited with the State Govt. Deptt. A receipt of the same is to be produced by the contractor to the Engineer-in-Charge as a proof of payment. A certificate of reuse as required by the Engineer-in-Charge shall be submitted by the contractor.

2 RCC WORK

The work shall be done as per CPWD specifications.

- 2.1 If the quantity of cement actually used in the work is found to be more than the theoretical quantity of cement including authorised variation, nothing extra shall be payable to the contractor on this account. No minus side variation is allowed in quantity of cement actually used.
- 2.2 For non-scheduled items, the decision of the Engineer-in-charge or his successor thereof regarding theoretical quantity of the cement which should have been actually used shall be final and binding on the contractor.
- 2.3 Cement brought to site and cement remaining unused after completion of work shall not be removed from site without written permission of the Engineer-in-Charge.

- 2.4** In case the contractor brings surplus quantity of cement the same after completion of the work will be removed from the site by the contractor at his own cost after approval of the Engineer-in-Charge.
- 2.5** Cement register for the cement shall be maintained at site. Cement bags shall be stored in separate godowns to be constructed by the contractor at his own cost as per sketch (which is only indicative and actual size will depend on the site requirements) given in CPWD specifications with weather proof roofs and walls. Each godown shall be provided with a single shutter door with two locks. The key of one lock shall remain with Engineer-in-charge or his authorized representative and that of the other lock with the authorized agent of the contractor at the site of work so that the cement is issued from the godown according to the daily requirements with the knowledge of both parties and proper account for the same is maintained in the standard proforma.

PROFORMA FOR THE CEMENT REGISTER

PARTICULARS OF RECEIPT

Date of receipt	Quantity received	Progressive total	Date of issue	Quantity issued	Items of work for which issued
1	2	3	4	5	6

PARTICULARS OF ISSUE

Qty. returned at the end of the day	Total issued	Daily balance in hand	Contractor's initial	JE's initial	Remarks (AE/EE's periodical check)
7	8	9	10	11	12

3 DESIGN MIX CONCRETE:

- 3.1** CPWD Specifications and latest IS Codes shall be followed.
- 3.2** The concrete mix design / laboratory tests with and without admixture shall be got done by contractor at his own cost and will be carried out by the contractor through one of the following laboratory/ Test houses:

IIT/NIT/ Govt. Engineering Institutions/ National Test Houses/ Any approved lab by SDG office, as directed by the Engineer-in-charge.

The various ingredients for mix design/ laboratory tests shall be sent to the test houses through the Engineer-in-Charge and the samples of such aggregate & cement shall be preserved at site by the department.

- 3.3** The contractor shall submit the mix design report from any of above approved laboratory for approval of Engineer-in-Charge within 3 days from the date of issue of letter of acceptance of the tender. No concreting shall be done until the mix design is approved by the Engineer-in-charge. In case of white Portland cement and the likely use of admixtures in concrete with PPC/white Portland cement the contractor shall design and test the concrete mix by using trial mixes with white cement and/or admixtures also for which nothing extra shall be payable.
- 3.4** In case of change of source or characteristic properties of the ingredients used in the concrete mix during the work, a revised laboratory mix design report conducted at laboratory established at site shall be submitted by the contractor as per the direction of the Engineer-in-Charge

4 Concrete and RCC Work

4.1 Design Mix Concrete from RMC plant

- i. The agency shall arrange RMC (Ready Mix Concrete) from RMC Plants only after getting the same approved from Engineer-in-charge for supplying the concrete. No batch-mix plant at site shall be allowed.
- ii. The Engineer-in-Charge reserves the right to inspect at any stage and reject the concrete if he is not satisfied about quality of product at the user's end.
- iii. The Engineer-in-charge reserves the right to exercise control over the:-
 - a) Ingredients, water and admixtures to be used in the concrete including conducting of tests for checking quality of materials, recording of test results and declaring the materials fit or unfit for use in production of mix.
 - b) Calibration check of the RMC plant.
 - c) Weight and quantity check on the ingredients, water and admixtures added for batch mixing.
 - d) Time of mixing of concrete.
 - e) Testing of fresh concrete, recordings of results and declaring the mix fit or unfit for use. This will include continuous control of the workability during production and taking corrective action, if required.
- iv. For exercising such control, the Engineer-in-charge may depute his authorized representative at the RMC plant. It shall be responsibility of the agency to ensure that all necessary equipment, manpower & facilities are made available to Engineer-in-Charge and/or his authorised representative at RMC plant.
- v. The computerized dispatch slips for each dispatch of RMC shall be kept as record and shall be made available to the Engineer-in-Charge or his authorized representative.

- vi. All required relevant records of produced and used concrete shall be made available to the Engineer-in-Charge or his authorised representative. Engineer-in-Charge shall, as required, specify guidelines & additional procedures for quality control & other parameters in respect of materials, production & transportation of concrete mix which shall be binding on the agency.
- vii. Concrete as per approved design mix by Engineer-in-Charge shall only be produced and transported to the site.
- viii. The concrete mix design will be carried out by the agency, at his own cost, through one of the following laboratories/Test houses to be approved by Engineer-in-charge:
 - a. National Test House, Mumbai.
 - b. IITs, NITs or any Govt. Engineering College.
 - c. Any approved lab by SDG office.
- ix. In the event above laboratories are unable to carry out the requisite design/testing, the agency shall have to get the same done from any other reputed laboratory with prior approval of the Engineer-in-Charge.

4.2 Cement: - 43 grade ordinary Portland cement conforming to IS 8112 shall be used.

- a) In case 43 grade Ordinary Portland Cement is not available, the contractor will be allowed to use 53 grade Ordinary Portland Cement (confirming to IS: 12269), subject to documentary evidence produced by the contractor regarding non availability of the specified grade and also subject to independent verification by the Engineer-in-Charge. Nothing extra shall be paid for this.
- b) Use of fly ash conforming to IS 3812 (Part –I) is permitted in cement concrete work as partial substitution of OPC subject to fulfilment of conditions as per IS 1489 (Part-I) and satisfying the condition of minimum cement content.
- c) Admixtures/ Plasticizers:- The admixture shall conform to IS:9103, wherever required, the admixture of approved quality and from preferred make list attached to this tender document only shall be used to attain the required workability. Nothing extra shall be paid for use of admixtures.

5 PRE-CAST RCC WORK

- 5.1** Pre-cast reinforced concrete units shall be of grade or mix as specified. Provision shall be made in the mould to accommodate fixing devices such as hooks, flats etc. and forming of notches and holes. Each unit shall be cast in one operation. A sample of the unit shall be got approved from Engineer-in-Charge before taking up the work.
- 5.2** Pre-cast units shall be clearly marked to indicate the top of member and its locations.

- 5.3 Pre-cast units shall be stored, transported and placed in position in such a manner that these are not damaged.

6 SANITARY INSTALLATIONS, WATER SUPPLY AND DRAINAGE

- 6.1 The work of water supply and sanitary installations shall be got executed by the agency as approved by Engineer-in-Charge.

- (i) The entire plumbing drawing and sanitary installation drawing/ details shall be submitted by the contractor and got approved by the Engineer-in-Charge before the execution.
- (ii) The entire responsibility for the quality of work will however rest with the building contractor only.

- 6.2 The work of water supply, internal sanitary installations and drainage etc. shall be carried out as per the bylaws of the Municipal Corporation or any other local body and the contractor shall produce necessary completion certificates from such authority after completion of work.

- 6.3 All water tanks, taps, sanitary, water supply and drainage pipes fittings and accessories etc. shall conform to the bylaws and specifications of the Municipal Body/Corporation where CPWD specifications are not available.

- 6.4 The contractor shall engage licensed plumbers for the work and the materials (fixtures/fittings) tested by the local Municipal Body/Corporation wherever required at his own cost. Nothing extra shall be paid/reimbursed for the same.

- 6.5 The contractor shall give a performance test of the entire installation(s) as per standing specifications before the work is finally accepted by making his own arrangements for water supply, electricity etc. and nothing extra whatsoever shall be payable for the same.

- 6.6 The work in general shall be carried out as per CPWD specifications. Rate includes all materials, labour and all the operations mentioned in the respective items unless and otherwise specifically mentioned.

- 6.7 The contractor shall be responsible for all the protection of sanitary, water supply fittings and fixtures against pilferage and breakage during the period of installation until the completion / handing over of the work.

- 6.8 The contractor shall submit completion plans for water supply internal sanitary installations and building drainage work within thirty days of the date of completion. These plans are to be submitted on drawings prepared preferably through computers (1 original copy + 3 photocopies) on suitable scales to show the general arrangement and desired details.

- 6.9 **The chasing, cutting and making holes in the masonry and / or cement concrete and / or RCC works shall be done carefully without causing any damage to the structure. As far as possible, mechanical cutters & core cutting machines shall be used in a workman like manner, for concealing the pipelines and fittings, and for hanging the SCI pipes, as there is no provision for sunken floors in toilet. The chases / holes, so made, shall be**

made good with the cement mortar of mix 1:4 (1 cement: 4 coarse sand) after testing of the pipe lines for leakage. The cost of cutting cores in RCC, cutting holes in masonry & making good the same shall be inclusive in the respective item of drainage / water supply lines.

- 5.7 The contractor shall give a satisfactory performance test of the entire installation (s) before the work is finally accepted and nothing extra shall be payable to the contractor on this account.

7 WATER PROOFING TREATMENT

The water proofing items should be got done through the firm approved by Engineer-in-charge. The contractor shall submit proposal for engaging a specialized firm for this work. The tenderer must associate with himself, agencies of the appropriate eligibility to tender for each of specialized nature of items / work listed below individually. Such works shall be got executed only through associated agencies specialized in these fields. The tenderer whose tender is accepted shall indicate the name(s) of his associated specialized agencies those fulfilling the eligibility criteria laid down below after award of work and at least 30 days before commencement of such items / work for the approval of the Engineer-in-Charge of that component, whose decision shall be final and binding. If the tenderer, himself fulfils the eligibility criteria laid down below for associated specialized agencies, then the tenderer shall not require to associate with himself the associated specialized agency.

S- No.	Specialized work(s) /Item of work (s)	Eligibility Criteria of Associated Agencies
A	CIVIL WORK	The tenderer shall associate specialized agencies, who have satisfactorily completed three specialized works of similar nature of each costing not less than amount equal to 40% of estimated amount of corresponding specialized item, or two specialized works of similar nature each costing not less than amount equal to 60% of estimated amount of corresponding specialized item or one similar work costing not less than amount equal to 80% of estimated amount of corresponding specialized item during the last seven years ending on the last day of the month previous to the one in which the tenders are invited. The value of executed similar works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum calculated from the date of completion to the last day of the month previous to the one in which the tenders are invited.
†	Water proofing treatment	Similar nature of Waterproofing work using hybrid urethane waterproofing coating system.

7.1 GUARANTEE FOR WATER PROOFING TREATMENT

7.1.1 The contractor shall be fully responsible for and shall guarantee proper performance of the entire waterproofing system for a period of 10 (Ten) years from the completion of works. In addition, specific 10 years written guarantee (to be furnished in a non-judicial stamp paper of value not less than Rs. 100/-) in approved Performa shall be submitted for the performance of the system, before final payment and shall not in any way limit any other rights the employer may have under the contract.

7.1.2 All waterproofing work shall be carried out through approved specialist agency as per the method of working approved by the engineer-in charge. However, the contractor shall be solely responsible for water proofing treatment until the expiry of the above guaranty period.

7.1.3 **Ten (10) years guarantee** in the prescribed Performa attached must be given by the contractor for the water proofing treatment. In addition 10% (ten percent) of the cost of these items would be retained as guarantee to watch the performance of the work executed. However, half of this amount (withheld) would be released after **five monsoon seasons** after the date of completion of the work, if the performances of the waterproofing work is satisfactory. If any defect is noticed within guarantee period, it shall be rectified by the contractor within seven days and, if not attended to, the same shall be got done by other agency at the risk and cost of the contractor. In any case the guaranteeing firms during the guarantee period should inspect and examine the treatment once in every year and make good any defect observed. However, the security deposit can be released in full, if bank guarantee of equivalent amount for ten (10) years is produced and deposited with the department.

7.2 MEASUREMENTS

Only plan area shall be measured and paid. Nothing extra shall be paid for rounding off at junctions and taking treatment along sides of beams and walls. Length and breadth shall be measured correct to one centimeter and area shall be worked out to nearest 0.01 Sqm. No deduction in measurements shall be made for either r opening or recesses for chimneys, stacks, roof lights and the like for areas upto 0.40 Sqm. nor any thing extra shall be paid for forming such openings. For similar areas exceeding 0.40 Sqm. deductions will be made in measurements for full openings and nothing extra shall be paid for making such openings.

7.3 RATES

The rate shall include the cost of all labour and materials involved in all the operations described above.

7.4 SUNKEN FLOOR SLAB, ITS TREATMENT ETC.

7.4.1 **Brick** bat aggregate shall be from well burnt bricks. The proprietary waterproofing compound shall be used.

7.4.2 The surface shall be thoroughly cleaned with wire brushes. All loose scales shall be removed and dusted off. The surface bottom as well as sides shall be treated with cement slurry admixed with proprietary waterproofing compound to penetrate into crevices and fill up all the pores in the surface.

- 7.4.3** After the slurry coat is laid, layer of well burnt brick bats of about 40mm size shall be laid in cement mortar of mix as specified by the specialist firm but not leaner than 1:5 (1 cement : 5 coarse sand) admixed with proprietary waterproofing compound, the mortar being filled to half the depth of the brickbat layer. The bricks bat layer shall be rounded off at junctions with the beam/wall etc. and tapered towards top at height of 150mm along beams/wall etc. Curing of this layer shall be done for these days.
- 7.4.4** After curing, the surface shall be applied with a coat of neat cement slurry admixed with proprietary waterproofing compound.
- 7.4.5** Joints of brick bat shall be filled fully with cement mortar of mix as specified by the specialist mortar but not leaner than 1:4 (1 cement:4 coarse sand) admixed with proprietary waterproofing compound and top finished with average 20mm thick layer of same mortar. This layer of mortar shall be continued to the sides shall be as directed by the Engineer-in-charge. The surface shall be finished smooth with cement slurry admixed with proprietary waterproofing compound.
- 7.4.6** While the waterproofing treatment is done, it shall be ensured that the outlet pipes are properly fixed and the gaps between the wall and pipes are properly filled with brick/stone aggregate and cement mortar admixed with proprietary water proofing compound and grouted with cement slurry admixed with proprietary waterproofing compound.
- 7.4.7** Waterproof treatment shall be cured for a minimum period of two weeks.

7.5 MEASUREMENTS

Measurements for the floor treatment shall be taken of the plan area of the floor treated. Nothing extra shall be paid for rounding off at junctions and taking the treatment along the sides of beams and walls for about 150mm.

7.6 RATES

The rate shall include the cost of all labour and materials involved in all the operations described above. Base treatment and sides treatment will be paid separately under respective items.

7.7 Source of Materials:

- 7.7.1** All stone aggregate and stone ballast shall be of hard stone variety to be obtained from quarries approved by Engineer in charge or any other source to be got approved by the Engineer-in-charge in writing.
- 7.7.2** Coarse sand should be obtained from source as approved by the Engineer-in-charge and screened as required. The same shall be clean and sharp angular grit type. If the sand brought to site is dirty it must be washed in clean water.
- 7.7.3** Fine sand should be obtained from source as approved by the Engineer-in-charge and screened as required. The same shall be clean and sharp angular grit type. If the sand brought to site is dirty it must be washed in clean water.

SPECIAL CONDITIONS

- 1 The work is to be executed in already occupied building where other works are also progressing simultaneously. The contractor has to make necessary arrangements for smooth working of all the agencies and also to follow rules and regulations of the client department.
- 2 The contractor shall not store/ dump construction material or debris on metaled road.
- 3 The contractor shall get prior approval from Engineer-in-Charge for the area where the construction material or debris can be stored beyond the metaled road. This area shall not cause any obstruction to the free flow of traffic/inconvenience to the pedestrians. It should be ensured by the contractor that no accidents occur on account of such permissible storage.
- 4 The contractor shall take appropriate protection measures like raising wind breakers of appropriate height on all sides of the plot/ area using CGI sheets or plastic and/ or other similar material to ensure that no construction material dust fly outside the plot area.
- 5 The contractor shall ensure that all the trucks or vehicles of any kind which are used for construction purposes/ or are carrying construction material like cement, sand and other allied material are fully covered. The contractor shall take every necessary precautions that the vehicle are properly cleaned and dust free to ensure that enroute their destination, the dust, sand or any other particles are not released in air/contaminate air.
- 6 The contractor shall provide mask to every worker working on the construction site and involved in loading, unloading and carriage of construction material and construction debris to prevent inhalation of dust particles.
- 7 The contractor shall provide all medical help, investigation and treatment to the workers involved in the construction of building and carry of construction material and debris relatable to dust emission.
- 8 The contractor shall ensure that C&D waste is transported to the C&D waste disposal site only and due record shall be maintained by the contractor.
- 9 The contractor shall compulsorily use jet in grinding and stone cutting.
- 10 The contractor shall comply all the preventive and protective environmental steps as stated in the MoEF as per prevailing guidelines.
- 11 The contractor shall carry out On-Road-Inspection for black smoke generating machinery. The contractor shall use cleaner fuel.
- 12 The contractor shall ensure that the DG sets comply emission norms notified by MoEF.

- 13 The contractor shall use vehicles having pollution under control certificate. The emissions can be reduced by a large extent by reducing the speed of a vehicle to 20 kmph. Speed bumps shall be used to ensure speed reduction. In cases where speed reduction cannot effectively reduce fugitive dust, the contractor shall divert traffic to nearby paved areas.
- 14 The contractor shall ensure that the construction material is covered by tarpaulin. The contractor shall take all other precaution to ensure that no dust particles are permitted to pollute air quality as a result of such storage.
- 15 No extra payment will be made for operation/activity mentioned at Sl. No. 1 to 13 above.
- 16 The contractor shall comply all the preventive and protective environmental steps as stated in the NGT guidelines, if any.
- 17 The contractor shall comply all the preventive and protective prevailing guidelines issued by MHA and Maharashtra government for prevention and control of COVID-19.
- 18 The site where the proposed building is to constructed is in a congested location accordingly the intending bidder has to arrange RMC supply/ batch mix plant, storage of material, traffic of construction vehicles, arrangement of labour huts etc. Nothing extra will be paid/ considered in this regard.
- 19 The agency has to arrange centring & shuttering, props etc material required for RCC work of minimum two floors at a time at site.

SPECIAL CONDITIONS FOR ACRYLIC PAINTING.

All purchase of paint shall be made directly from the manufacturers or their authorized dealers. The delivery challan shall be issued by the manufacturers store yard directly with full description of the work for which the purchases is being made. The condition shall be applicable for all purchases if the quantity is 100 liters or more in a work.

Guarantee for external finishing walls with smooth exterior paint.

The work of external wall finishing work as per item shall be guaranteed for a period of 5 (Five) years as per enclosed guarantee bond against non-uniform colouring flaking workmanship and defective finishing. On notification by the Engineer- In – Charge of any compliance to be performed under this guarantee by the contractor. The contractor shall immediately supply labour/ material and rectify all the defects notified by the Engineer – In –Charge to perform this guarantee at no additional cost and to ensure that the defects are fully rectified. In addition extra **2% (two percent)** of the amount of the external finishing work as per **relevant item of the agreement** shall be withheld on this account which shall be refunded under expiry of the guarantee period if no defects are observed in the said period if the defects have been rectified in pursuant in the agreement to the entire satisfaction of the Engineer – In - Charge.

The materials shall be Premium Acrylic Smooth Exterior paint with silicone additives “Snowcryl 1 – XT, Of M/s Snowcem India Ltd. or equivalent like (a) Weather Coat Smooth “of M/s Berger Paint India Ltd (b) “Dulux – Weather Shield” of M/S. ICI (India) Paints (c) Apex Ultima “of M/s Asian Paints.

The base for painting (Acrylic) be prepared by cleaning, scaling mosses etc. with wire brushes and cleaning with water etc. complete for which no extra payment shall be made.

SPECIAL CONDITIONS FOR DEMOLITION OF BUILDING/ PARTITIONS.

Work of Demolition shall be carried out manually with necessary scaffolding or mechanically by cranes and brackets etc. with enough safety precautions to the labour and surrounding buildings, without disturbance and removal of debris from the site to the Pune Municipal Corporation approved dumping ground/ Place including cleaning leveling and dressing of the building area as per direction of the Engineer-in-charge. Dismantling by non-blasting methods and with construction machinery and manual means and with coordination of Department.

The rate shall include the credit towards the disposal of serviceable materials by the agency and with anti-dust measures during demolishing using water spray equipment all as per the directions of Engineer-in-charge and requirements at site of work with taking all the necessary safety precautions and permissions of Municipality, Police and/ or other authorities that may be required under the law/ rules under force, and nothing extra shall be paid for the removal and cleaning of site.

Annexure- A, T&P**LIST OF MACHINERY, TOOLS & PLANTS TO BE DEPLOYED BY THE CONTRACTOR AT SITE AS & WHEN REQUIRED IN ADDITION TO T & P LISTED UNDER CLAUSE-18**

S. No.	Name of Equipment	Numbers
1	Excavators (various sizes)	As and when required
	Equipment for Concrete work	
1	Automatic batching plant having capacity (min.)-15 cum/hr	1 No.
2	Vehicle mounted concrete pump with boom/ concrete pump of adequate capacity as decided by Engineer-in-Charge	As per requirement
3	Concrete transit mixer	As per requirement
4	Rebound hammer for testing concrete	1 No.
5	Concrete mixer (diesel)	1 No.
6	Needle vibrator (electrical)	3 Nos.
7	Needle vibrator (petrol)	3 Nos.
8	Surface vibrator	3 Nos.
9	Steel shuttering	3000 sqm
	Equipment for Building work	
1	Bar bending Machine	1 No.
2	Bar cutting machine	1 No.
3	Welding machine i/c transformer	2 No.
4	Cube testing machines	1 No.
5	Grinding/polishing machines	As per requirement
	Equipment for transportation	
1	Tippers	As per requirement
2	Trucks	As per requirement
3	Tractor with Trolley	As per requirement
4	Water Tanker	1 No. if required
	Pneumatic equipment	
1	Air compressors (diesel)	As per requirement
	Dewatering equipment	
1	Pump (diesel)	1 No.
2	Pump (electric) (Desirable)	1 No.
	Power equipment	
1	Diesel generator of sufficient capacity	1 No.
	Testing Equipment / Survey Instruments	

1	Theodolite	1 No.
2	Auto level and Staff	1 No.
3	Graduated Glass Cylinder	As per requirement
4	Measuring jars 100ml, 200ml, 500ml	1 No. each
5	Verniers calipers 12" & 6"	1 No. each
6	Digital Micrometer least count 0.01 mm	1 No.
7	Screw Gauge 0.01mm – 10mm,	1 No.
8	Steel tapes-3m	2 No.
9	Micrometer Screw 25 mm gauge	1 No.
10	A good quality plumb bob	05 No.
11	Spirit level, minimum 30cms long with 3 bubbles for horizontal vertical	2 No.
12	Dynamic penetrometer	1 No.
13	Depth Gauge	1 No.
14	Moisture meter for timber	1 No.

Note:-

1. **The above list is only indicative and not exhaustive.** The above T&P list is not exhaustive and the contractor shall procure necessary T&P whenever required for timely completion of the work. Any idle T&P (from the list mentioned above) if not required/needed shall be removed away from site under information to Engineer-in-Charge.
2. Workshop facilities for fabrication/addition and alterations, and other allied works shall be arranged by the contractor at his own cost.
3. All the equipment, T&P and machinery shall be kept in good working conditions and calibration/ safety checks shall be done as per desired frequency of the equipment.
4. Equipment like batching plant, concrete pump excavators/Transit mixer etc. shall be allowed to be moved away from the site only when, the same are no longer required at site of work in the opinion of Engineer-in-charge.
5. In addition to above list, contractor is bound to brought at site any test equipment for execution of any item of work, at his own cost, which Engineer-in-Charge may direct him. Nothing extra shall be paid to contractor in this regard. Direction of Engineer-in-Charge in this regard shall be final & binding.
6. If contractor fails to comply such directions within time specified by Engineer-in-Charge, the same shall be brought to site by department by any means at cost of contractor itself and nothing shall be paid in this regard.
7. The contractor shall procure necessary T&P whenever required for timely completion of the work. Any idle T&P (from the list mentioned above) if not required/ needed shall be removed away from site after approval of the Engineer-in-Charge. No idling charges will be admissible for the same.

Preferred Make List

(Approved make shall fulfill the public procurement policy of Make in India)

- 1) The contractor shall obtain prior approval from the Engineer-in-Charge before placing order for any specific material or engaging any of the specialized agencies. The contractor shall make a detailed submittal with catalogues and highlighted proposed specifications as per the specifications detailed in the document as well as full details of the works executed by the specialized agency, as specified.
- 2) Wherever applicable, the NIT approving authority may approve any material equivalent to that specified in the tender subject to proof being offered by the contractor for equivalence to his satisfaction.
- 3) Unless otherwise specified, the brand / make of the material as specified in the item nomenclature, in the particular specifications and in the list of preferred materials attached in the tender, shall be used in the work.
- 4) In case the make of any material is not mentioned in this list, the decision of Engineer-in-charge shall be final and binding. The makes approved by SDG (Mumbai) office and having validity on the date of opening of bid shall also be considered included in the make list unless the price variation is more than the +/- 10% of the mean prices of makes included in the preferred makes.
- 5) In case of non-availability of the brand specified in the contract the contractor shall be allowed to use alternate equivalent brand of the material subject to submission of documentary evidence of non-availability of the specified brand. Alternate equivalent brand will be approved by NIT approving authority.
- 6) Sample of all the materials will be used only after approval of the Engineer- in-charge.

1	OP CEMENT and PP CEMENT	ACC, ULTRATECH, SHREE CEMENT, BIRLA, AMBUJA, VIKRAM
2	READY MIX CONCRETE	A.C.C., ULTRATECH, PRISM JOHNSON RMC, GODREJ, JSW, NUVOCO (LAFARGE)
3	WHITE CEMENT/ PUTTY/ CEMENT BASED WALL PUTTY	J.K., BIRLA, SAINT GOBAIN (WEBER)
4	WATERPROOFING COMPOUND/SUPERPLASTICER/ ADMIXTURE	PIDILITE, BASF, FOSROC, SIKA, CICO, MC BAUCHEMIE
5	REINFORCEMENT STEEL	SAIL, TATA STEEL, RINL, JINDAL STEEL & POWER LTD, JSW STEEL LTD.,
6	MECHANICAL SPLICING SYSTEM WITH COUPLER	SPLICETEK INDIA, DEXTRA INDIA ISHITA ENTERPRISES, SPLICEMAN
7	STRUCTURAL STEEL/ TUBES	TATA STEEL, SAIL, RINL, VIZAG, JINDAL, APOLLO
8	RE-BARRING CHEMICAL	HILTI, 3M, FISCHER, WURTH
9	CEMENT CONCRETE BLOCKS	CONWOOD, GURJARI, HINDUSTAN, LOK GROUP, SAI BLOCK, VED PMC LTD, GODREJ

10	AAC BLOCKS	AEROCON, SIPOREX, ULTRATECH, ECOLITE, GODREJ, BG SHIRKE (Only ISI Marked Blocks shall be used)
11	WOODEN FLUSH DOORS	KENWOOD, ANCHOR, KUTTY, GREENPLY, ORIENT, KALPATARU, ARCHID, CENTURY (Only ISI marked doors and from OEM plant having valid IS Certification)
12	HIGH PRESSURE LAMINATES & VENEERS	AICA(SUNMICA), MERINO, GREENLAM, CENTURY, ROYAL TOUCH, DURIAN
13	METAL FRD WITH FRAME & SHUTTERS	NAVAIR, METAFLEX, SHAKTI HORMANN, TATA PRAVESH, ELIXIR MET FORM PVT LTD
14	WOODEN FIRE DOOR	NAVAIR, METAFLEX, SHAKTI HORMANN, PROMAT, TUFWUD
15	GLAZED FIRE DOOR	PROMAT, NAVAIR, METAFLEX, SHAKTI HORMANN
16	FIRE RATED GLASS	PILKINGTON, SCHOTT, FERILITE, SAINT GOBAIN, PYROGAURD
17	HERMETICALLY SEALED PERFORMANCE GLASS, TOUGHENED GLASS, DGU	PILKINGTON, SAINT GOBAIN, MODI GUARD, ASAHI
18	HARDWARE FOR FIRE RATED DOORS	DORMA, GEZE, ASSA ABLOY, HAFELE
19	INTUMESCENT STRIPS	INTUMEX, DORMA, SHAKTI HORMANN, ARTHMER
20	DOOR SS HARDWARE	GEZE, DORMA, ASSA ABLOY, HAFELE
21	S.S DOOR HARDWARE	GEZE, DORMA, ASSA ABLOY, HAFELE
22	HARDWARE FOR KITCHEN CABINETS, WARDROBE AND SHELVES	HATTICH, HAFELE, DORMA, GEZE
23	PLYWOOD, MDF, PARTICLE BOARD	ARCHID, KITPLY, GREEN PLY, CENTURY PLY, ACTION TESA, KALAPATARU (Only ISI Marked and valid certification)
24	BLOCK BOARD	CENTURY PLY, GREEN PLY, ARCHID, GREEN PLY, MARINO (Only ISI Marked and valid certification)
25	STAINLESS STEEL	JINDAL, SAIL, SALEM STEEL OR EQUIVALENT (Only ISI Marked and valid certification)
26	ROLLING SHUTTER	STANDARD, SWASTIK, SHUBDHAR, SONA
27	VITRIFIED TILES/ CEREMIC TILES	KAJARIA, H & R JOHNSON, NITCO (from the mother plants of OEM only)
28	VITRIFIED PAVER TILES	KAJARIA, PAVIT, JOHNSON, NITCO
29	POLYMER MODIFIED CEMENTITIOUS GROUT / POLYMER MODIFIED CEMENTITIOUS MORTAR / CEMENT ADHESIVE / EPOXY GROUT	ARDEX ENDURA, LATICRETE, FERROUSCRETE, BASF, ROFF, KERKOLL, SAINT GOBAIN (WEBER)
30	POLYMER MODIFIED ADHESIVE MORTAR FOR AAC BLOCKS	WALLPLAST, ULTRATECH, ECOLITE, SAINT GOBAIN (WEBER), AEROCON
31	READY MIXED CEMENT PLASTER	WALPLAST, ULTRATECH, MADRAS CEMENT LTD, SAINT GOBAIN(WEBER), ACC
32	GYPSUM LIGHT WEIGHT PLASTER	GYPROC, ULTRATECH, JK, BIRLA
33	METAL FALSE CEILING	KNAUF /ARMSTRONG, HUNTER DOUGLAS, GYPROC, INTERARCH
34	SS RAILING	KICH, GODREJ, OZONE, D-LINE, Q-RAILING, Hafele

35	Oil Bound Washable Distemper / Dry Distemper	Asian paint : (Professional Acrylic Distemper), Nerolac: Beauty Acrylic Distemper Berger: Bison Acrylic Distemper Dulux ICI: Maxilite
36	1st Quality Acrylic Distemper / Dry Distemper	Asian Paints : (Tractor Aqua Lock Paint), Berger: Commando or equivalent paints of Nerolac or ICI-Dulux.
37	Acrylic Emulsion Paints	Asian Paints : (Professional Premium Interior Emulsion Paints), Nerolac: Beauty Gold Berger: Rangoli total care ICI-Dulux: Super Cover, PEARL, KLASSIC
38	Plastic Emulsion Paint	Asian Paints : (Apolite Heavy Duty Premium Emulsion Paint), Nerolac : Impression Berger: Easy Clean ICI-Dulux: 3 in 1
39	Premium Acrylic Emulsion Paints (Interior)	Asian Paints : (Royal Luxury Emulsion), Nerolac: Impression (Kashmeer) Berger: Silk ICI-Dulux: Velvet touch
40	Stone Chip/ dust/ powder Texture including paint	Ultratech, Luxture, Spectrum, Heritage, Instakrete (Primer, Base coat shall be pigmented matching with Top Coat to create homogeneous pigment for full depth)
41	Acrylic Smooth Exterior Paint	Asian Paints : (Apex/Professional Premium Exterior Emulsion), Nerolac : XL Berger: weather Coat, PEARL, PEARL-ULTIMA (Advance Anti-Algal Weather Proof Paint) ICI-Dulux: Weather Shield
42	Premium Acrylic Emulsion Paint (Exterior)	Asian Paints: Apex Ultima Protec Nerolac : XL Total+ ICI-Dulux: Weather Shield Max
43	Synthetic Enamel Paint	Asian Paints: Apolite Premium Gloss Enamel, Nerolac : Synthetic Hi Gloss Berger: Luxol Hi Gloss ICI-Dulux: Gloss Synthetic Enamel
44	Cement Primer	Nerolac, Berger, BP White (Berger), Decoprime WT (Asian), White primer (ICI), Snowcem
45	Steel Primer (Red Oxide Zinc Chromate Primer)	Asian paints, ICI Nerolac
46	Wood Primer	Asian paint (Wood Primer- White/Pink), ICI, Nerolac
47	Epoxy Paint	ICI, Nerolac, Asian, Berger, Kansai Akzo Nobel, SmartCare
48	Fire Paint	Asian Paints, Akzonobel Coatings India Ltd, Promat, Jotun

49	ALUMINIUM EXTRUSION SECTIONS, ALUMINIUM STRUCTURAL MEMBERS- WINDOWS, GLAZINGS & PARTITIONS	JINDAL, HINDALCO, NALCO, INDIAN ALUMINIUM CO,
50	ACRYLIC TEXTURE PLASTER/ PAINT	ASIAN PAINTS, HERITAGE, AKZONOBEL DULUX, BERGER PAINTS, NEROLAC, LUXTURE, ULTRATECH
51	ENERGY INSULATION FINISHING SYSTEM	ASIAN PAINTS, PIDILITE, BERGER PAINTS
52	PAVER BLOCKS/ GRASS PAVERS/ KERB STONE/ CHEQUURED TILE	VYARA, SUPER, HINDUSTAN, VED PMC, NITCO, JOHNSON
53	SANITARY WARES/ C. P. FITTINGS, BATHROOM ACCESSORIES	JAQUAR, KOHLER, GROHE, ROCA
54	S. S. SINK	NIRALI, DEEPALI, FUTURA, HAFELE, NEELKANTH
55	C. I. PIPES & FITTINGS	NECO, KAPILANSH, HEPCO, ELECTROSTEEL, SKF
56	G.I. PIPES	TATA, JINDAL, PRAKASH SURYA, ZENITH
57	G. I. FITTINGS	UNIK, R-BRAND, ZOLOTO
58	R.C.C. PIPES	JAIN SPUN PIPE, K. K. SPUN PIPE, THE INDIAN HUME PIPE CO. LTD., PATEL HUME PIPES
	FROSTED GLASS, FLOAT CLEAR GLASS/ COATED GLASS/MIRROR	SAINT GOBAIN, ASAHI GLASS, EMIRATES GLASS, MODI GUARD,
60	CALCIUM SILICATE BOARD	STARPAN, HILUX, AEROLITE, PROMAT
61	GYPSUM BOARD	SAINT GOBAIN, BORAL
62	UPVC PIPES AND FITTINGS	ASTRAL, FINOLEX, SUPREME, PRINCE
63	FLOOR SPRINGS /DOOR CLOSERS/ PATCH FITTINGS	GEZE, DORMA, ASSA ABLOY, HAFELE
64	S. S. GRATINGS/ COCKROACH JALI	CHILLY, CAMRY, KICH, VIKING
65	GULLY TRAPS	PERFECT, PARRY, CHERRY
66	PVC WATER TANKS	SYNTEX, NATIONAL PLASTIC, KAVERI
67	STAINLESS STEEL ANCHOR FASTENERS DASH/ANCHORING FASTENERS	HILTI, FISCHER, WURTH
68	HDPE PIPE	RELIANCE, JAIN PIPES, SUPREME, ASTRAL
69	D.I.PIPE & FITTINGS	TATA DUCTURA, NECO, KAPILANSH, JINDAL, ELECTROSTEEL
70	EPDM GASKET	AMEE RUBBER INDUSTRIES PVT. LTD, BOHRA RUBBER, OSAKA
71	ALL TYPES OF SILICONE	DOW CORNING, GE, BASF, PIDILITE
72	SPACER TAPE / BACKER ROD	NORTON, BOW
73	FRICTION HINGES AND LOCKS	COTSWOLD, GEZE, DORMA, ASSA ABLOY, HAFELE, STARLOCK, GODREJ
74	ALUMINIUM COMPOSITE PANEL	ALUDECOR, EUROBOND, ALSTRONG, ALUCOBOND
75	FROSTED GLASS FILM	GARWARE, LLUMAR, LG

76	VINYL FLOORING	RESPONSIVE, TARKETT, POLYFLOR, GERFLOR, EBCO, ARMSTRONG
77	POLYCARBONATE ROOFING	GE, SABIC LEXAN, PALRAM, DANPALON
78	COMPOSITE MARBLE	NITCO, CLASSIC MARBLE, H R JOHNSON, ASIAN
79	CI MANHOLE COVERS, FRAMES AND FITTINGS	NICO, KAPILANSH, HEPKO, ELECTROSTEEL, SKF
80	SFRC COVERS	KK SPUN PIPES, JAIN SPUN PIPES, SS INDUSTRIES
81	UPVC DOOR & WINDOW	FENESTA, ALUPLAST, KOMMERLING, VEKA (from the factory of OEM only)
82	UPVC DOOR & WINDOW HARDWARE	ROTTA, DOORSET, KINLONG
83	G.I. POWDER COATED DOOR FRAMES	SHAKTI HORMANN, NAVAIR, METAFLEX
84	POLY-SULPHIDE SEALANT	FOSROC, PIDILITE, SIKA, BASF
85	VALVES	ZOLOTO, KIRLOSKAR, LEADER
86	FRP DRAIN/ MANHOLE COVERS	KK FRP, VIKRANT, FIBROCAST
87	SBR COMPOUND	BASF, SIKA, CICO, FOSROC
88	MICRO CONCRETE	DR. FIXIT, BASF, FOSROC, ACC, ULTRATECH
89	TOILET CUBICLES	MERINO, GREEN PLY,
90	ACCOUSTICAL WALL PANELLING	KNAUF ARMSTRONG, ANUTONE, USG BORAL

GUARANTEE BOND TO BE EXECUTED BY CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER PROOFING WORKS

(BASEMENT /LOWER GROUND FLOOR / UNDER GROUND TANK / ROOF)

The Agreement made this _____ day of _____ Two thousand and _____ between _____ son of _____ (hereinafter called the Guarantor of the one part) and the PRESIDENT OF INDIA (hereinafter called the Government of the other part).

WHEREAS 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 **10 (Ten) 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 ten 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 there under then the Guarantor will indemnify the principal and his successors against all loss, damage, cost expense or 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 WHEREOF these presents have been executed by the Obligor_____ and by _____ and for and on behalf of the PRESIDENT OF INDIA 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 THE PRESIDENT OF INDIA BY _____ in the presence of:

1.
2.

GUARANTEE BOND TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF ALUMINIUM DOORS, WINDOWS VENTILATORS, STRUCTURAL GLAZING AND ACP WORK.

The agreement made this _____ day of _____ Two Thousand and _____ between _____ son of _____ (hereinafter called the GURANTOR of the one part) and the PRESIDENT OF INDIA (hereinafter called the Government of the other part.)

WHEREAS 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 work in the said contract recited structurally stable, leak proof and sound material, workmanship, anodizing, colouring, sealing.

AND WHEREAS THE GURANTOR agreed to give a guarantee to the affect that the said work will remain structurally stable, leak proof and guaranteed against faulty material and workmanship, defective anodizing, colouring, sealing and finishing for **2 (Two) years** to be reckoned from the date after the expiry of maintenance period prescribed in the contract.

NOW THE GUARANTOR hereby guarantee that work executed by him will remain structurally stable, leak proof and guaranteed against faulty material and workmanship, defective anodizing, colouring, sealing and finishing for two years to be reckoned from the date after the expiry of maintenance period prescribed in the contract.

The decision of the Engineer-in-charge with regard to nature and cause of defects shall be final.

During this period of guarantee, the guarantor shall make good all defects to the satisfaction of the Engineer-in-charge at his cost and shall commence the work for such 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 got done by the Department by some other 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 the guarantor fails to make good all the defects or commits breach thereunder, then the guarantor will indemnify the principal and his successor against all loss, damage, cost expense or 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 both the parties.

IN WITNESS WHEREOF these presents, have been executed by the obligator _____ and _____ by _____ for and on behalf of the PRESIDENT OF INDIA on the day, month and year first above written.

SIGNED, sealed and delivered by OBLIGATOR in the presence of:

1. _____

2. _____

SIGNED FOR AND ON BEHALF OF THE PRESIDENT OF INDIA BY

_____ in the presence of:

1. _____

2. _____

GUARANTEE TO BE EXECUTED BY CONTRACTORS FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF PAINT WORKS.

This agreement made this ----- day of ----- Two thousand and ----
----- between ----- son of ----- of -----

(herein after called the Guarantor of the part) and the PRESIDENT OF INDIA
(herein after called the Government of the other Part)

WHEREAS THIS AGREEMENT is supplementary to a contract (hereinafter called for Contract) dated ----- and made between the GUARANTOR of the one part and the GOVERNMENT of the other part, hereby the Contractor interalia, under took that the acrylic painting work done on building will remain non flaking and uniform colouring without patches.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to effect that the said Acrylic painting will remain non flaking and uniform colouring without patches for five years from the date of completion of work.

NOW THE GURANTOR hereby guarantee that acrylic painting done by him will remain non flaking and uniform colouring without patches and the minimum guarantee period of such painting shall be five years to be reckoned form the date of the completion of work.

Provided that the guarantor will not be responsible for damage caused due to earthquake or misuse of buildings or alteration and for such purpose. The decision of the Engineer-in-Charge with regard to cause of damage shall be final and binding.

During this period of guarantee the guarantor shall make good all defects to the satisfaction of the Engineer-in-Charge at his cost and shall commence the work for such 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 got done by the Department by some other contractor at the Guarantor's Cost and risk. The decision of the Engineer-in-Charge as to the cost, payable by the guarantor shall be final and binding.

That if the guarantor fails to make good the defects or commits breach there under then the guarantor will indemnify the principal and his successors against all loss, damage cost, expenses or otherwise which may be incurred by him by reasons of any default on the part of 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 and the decision of the Engineer-in-Charge will be final and binding on both the parties.

An amount equivalent to 2% of item will be deducted from R. A. Bills as security and the same will be refunded after five years from the date of completion of work.

IN WITNESS WHEREOF these presents have been executed by the obligator -----
----- and by ----- and for and on behalf of the PRESEDENT OF INDIA on the day,
month and year first above written.

SIGNED sealed and Delivered by (OBLIGATOR) in the presence of

SIGNED FOR AND BEHALF OF THE PRESIDENT OF INDIABY

In the presence of

- 1.
- 2.

GUARANTEE TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER SUPPLY AND SANITARY INSTALLATIONS

The agreement made this _____ day of _____ Two Thousand and _____ between _____ son of _____ (hereinafter called the GUARANTOR of the one part) and the PRESIDENT OF INDIA (hereinafter called the Government of the other part.)

WHEREAS 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 work in the said contract recited structurally stable workmanship, finishing and use of sound materials.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said work will remain structurally stable and guaranteed against faulty workmanship, finishing, manufacturing defects of materials and leakages, etc.

NOW THE GUARANTOR hereby guarantee that work executed by him will remain structurally stable after expiry of maintenance period prescribed in the contract for the minimum life of 02 (Two) year to be reckoned from the date after the expiry of maintenance period prescribed in the contract.

The decision of the Engineer-in-charge with regard to nature and cause of defect shall be final.

During this period of guarantee, the guarantor shall make good all defects to the satisfaction of the Engineer-in-charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the Guarantor's cost and risk. The decision of the Engineer-in-Charge as to the cost, payable by the Guarantor shall be final and binding.

That if the guarantor fails to make good all the defects commit breach thereunder, then the guarantor will indemnify the principal and his successor against all loss, damage, cost expense or 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 both the parties.

IN WITNESS WHEREOF these presents, have been executed by the obligator _____ and _____ by _____ for and on behalf of the PRESIDENT OF INDIA on the day, month and year first above written.

SIGNED, sealed and delivered by OBLIGATOR in the presence of:

1. _____

2. _____

SIGNED FOR AND ON BEHALF OF THE PRESIDENT OF INDIA BY _____ in the presence of :

1. _____

2. _____

On non-judicial stamp paper of minimum Rs.100
--

(Guarantee offered by Bank to CPWD in connection with the execution of contract)

**Form of Bank Guarantee for Earnest Money Deposit / Performance
Security (Guarantee) / Security Deposit / Mobilization Advance**

1. WHEREAS, the Executive Engineer (Name of division), CPWD on behalf of the President of India (hereinafter called "the Government") has invited bid under..... (NIT No.) dated for (name of work) The Government has further agreed to accept irrevocable Bank Guarantee for Rs. (Rupees.....only) valid upto (date)* as **Earnest Money Deposit** from (name and address of contractor)..... (hereinafter called "the contractor ") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR**

WHEREAS, the Executive Engineer (Name of division), CPWD on behalf of the President of India (hereinafter called "the Government") has entered into an agreement bearing number.....with..... (name and address of contractor) (hereinafter called "the contractor ") for execution of work (name of work) The Government has further agreed to accept irrevocable Bank Guarantee for Rs. (Rupees.....only) valid upto (date)* as **Performance Guarantee /Security Deposit / Mobilization Advance** from said contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.

1. We ,..... (indicate the name of the Bank) (hereinafter referred to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs..... (Rupees.....only) on demand by the Government within 10 days of the demand.
2. We ,..... (indicate the name of the Bank), do hereby undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs..... (Rupees.....only).
3. We ,..... (indicate the name of the Bank), further undertake to pay the Government any money so demanded notwithstanding any dispute or dispute raised by the contractor in any suit or proceeding pending before any court or tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be valid discharge of our liability for payment there under and the contractor shall have no claim against us for making such payment.
4. We,..... (indicate the name of the Bank), further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor from time to time or to postpone for any time or

from time to time any of the powers exercisable by the Government against the said contractor and to for bear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said contractor or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

5. We,..... (indicate the name of the Bank), further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the contractor and notwithstanding any security or other guarantee the government may have in relation to the contractor's liabilities.
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor.
7. We,..... (indicate the name of the Bank), undertake not to revoke this guarantee except with the consent of the government in writing.
8. This bank guarantee shall be valid up to, unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to rs.....(Rupees..... Only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

DATE

WITNESSES:

Authorised signatory

1. SIGNATURE Name

NAME AND ADDRESS

Designation

Staff code no.

Bank seal

II

2. SIGNATURE

NAME AND ADDRESS

*Date to be worked out on the basis of validity period of 90 days where only for financial bids are invited ~~and 180 days for two / three bid system~~ from the date of submission of tender.

** In paragraph 1, strike out the portion not applicable. Bank Guarantee will be made either for ~~earnest money~~ or for Performance Guarantee / Security Deposit / Mobilization Advance, as the case may be.

(Schedule of Quantities for Civil)

Name of Work: A/R & M/O to Residential Buildings situated at IMD Pashan, Pune during 2026-27.

SL. No	Description	Qty	Unit	Rate	Amount
1	SH-1 (Day to day maintenance work)				
1.1	Day to Day maintenance and upkeep of all internal and external assets of Residential building at IMD campus at Pashan complete with all materials, labour, T & P etc. as required on all days excluding Sundays & National holidays , how ever emergent complaints related plumbing and sewerage shall be attended daily from 6.00AM to 9.00AM and 5.00 PM to 10.00PM including 6.00 AM to 10.00 PM all sunday and holidays as per deatils of Office Buildings , external services in "Annexure- A" (details of Building)and as per terms and condition attached herewith with following operations . All the dismantle material shall be the property of the contractor.				
	Maintenance of sewerage, drainage system and desilting of gully traps etc. within the campus like opening/cleaning of chocked sewer pipes drains, storm water drains, manholes, gully traps, water closet etc. at all floors & vertical stacks of sewer pipes & rain water pipes of all sizes to keep sewerage & draining system functional complete to the entire satisfaction and as per the direction of Engineer-in-charge. Maintenance repairing and fixing of damaged doors, windows, ventilators of aluminum, steel, wood, PVC including sundry materials etc. at all floors and fixing of necessary fittings wherever required to keep them in proper functional conditions to the entire satisfaction and as per direction of Engineer-in- charge.(Nothing extra shall be paid against Sundry Materials				

	required for repairing like cemet, sand , bricks etc)				
	Maintenance and repair of plumbing system for the entire campus including stopping leakages or over flow of water from PVC/RCC over head tanks and loft tanks cisterns etc. To keep the entire water supply system efficient and functional to the entire satisfaction and as per direction of Engineer-in-charge. ii) Maintenance and operation of water supply grid and valves including unfiltered water line in the entire campus to keep the water supply system efficient and operational at all times i/c removing leakage breakage etc from the time complete to the entire satisfaction and as per direction of the Engineer-in- charge. .(Nothing extra shall be paid against Sundry Materials required for repairing like cemet, sand , bricks etc. However replacements of Bibcock, Stopcock, Piller Cock, Fitting, Ballcock, pipe section above 300mm etc in plumbing work. will be paid under AR & MO Schedule item No.1.1)				
	Maintenance and repair of internal and external plaster, flooring, masonry work, pointing leakages from roof, including fixing of W.C. seat, gully trap, floor traps and sealing leakages from gully trap, W.C. trap, floor trap drainage and pipe stacks etc. and restoration of existing finishing in the affected area to the entire satisfaction and as per direction Engineer-in- charge.(Nothing extra shall be paid against Sundry Materials required for repairing like cemet, sand , bricks etc)				

	Maintenance and repair of MS structures i/c windows, steel doors, gate, railing etc by Welding with electric plant including transportation of electric welding plant at site to weld broken grills, hinges, doors, windows, gates, railing and any other steel work of dwelling units, parks, boundary walls complete as per direction of Engineer-in-charge. (Nothing extra shall be paid against Sundry Materials required for repairing like welding rod, MS material required for minor repair etc However MS material required for major repair will be paid under AR&MO Schedule item No.1.1)				
	Maintenance and cleaning chajjas, roofs, expansion joints etc, and removing of cobwebs, beehives vegetation including disposal of slit, vegetation, malba, etc. within the campus complete to the entire satisfaction and as per the direction of Engineer-in-charge.				
	Maintenance and upkeep of all internal and external assets of entire Residential building at IMD Pashan, all complete inclusive of all required incidental materials like screws, rawl plug, M-seal, taplon tape, washers, cutting wheel, polishing wheel, spindle, mirror screws, welding, adhesive, fevicol, grout, white cement, consumable, etc., labour, T&P and scaffolding for all height etc. As required on all days including Sundays and holidays as per the details building and all complete as per direction of the Engineer-in-charge. (The rate shall be inclusive of all incidental materials like screws, rawl plug, M-seal, taplon tape, washers, cutting wheel, polishing wheel, spindle, mirror screws, welding, adhesive, fevicol, grout, white cement, consumable etc., labour, T&P and scaffolding etc. required for the execution of above job and no claim on any account shall be entertained).				

	Any other miscellaneous works connection with above as per direction of Engineer-in-charge.				
1.1.1	Residential Buildings at IMD campus Pashan campus (1 No. Multi-task staff Plumber cum carpenter), 1 No. Sewerman cum Helper.	12.00	per month	68124.00	817488.00
1.1.2	IMD Residential Campus, Pashan, Pune (Provide One Carpenter with helper (with required T&P) is to be deputed once in a month or as and when required by IMD as per nature of work.	24.00	per Day	1270.75	30498.00
2	EARTH WORK				
2.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge:				
2.1.1	All kinds of soil.	219.00	sqm	144.03	31543.00
3	CONCRETE WORK				
3.1	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:				
3.1.1	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded Brick aggregate 40 mm nominal size derived from natural sources).	2.00	sqm	9449.67	18899.00
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 upto 0.50 sqm	3.00	Sqm	6004.76	18014.00
5	WOOD & PVC 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	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	11.00	Sqm	2409.34	26503.00
5.2	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which				
	75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC				

	strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.				
5.2.1	30 mm thick plain PVC door shutters	8.00	Sqm	3530.59	28245.00
5.3	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.				
5.3.1	1.0 mm thick	21.00	Sqm	995.30	20901.00
5.4	Providing and fixing cupboard shutter with 19mm thick one side decorative and other side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand including 2mm thick PVC edge banding tape with hot glue by edge bending machine etc. with auto closing spring loaded hinges (hydraulic type) etc. complete as per direction of Engineer-in-charge.(Payment of providing and fixing auto closing hinges shall be paid separately)	10.00	Sqm	3138.26	31383.00
5.5	Providing and fixing stainless steel soft closing spring hinges at 0 degree hinges (hydraulic type) of approved make/brand to cupboard shutters with full threaded steel screws including making necessary recess in board and finished etc. complete as per direction of Engineer-in-charge.	50.00	each	301.71	15086.00
6	STEEL WORK				
6.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	420.00	Kg	130.17	54671.00
7	FLOORING				
7.1	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey	5.00	sqm	1475.26	7376.00

	cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
7.2	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
7.2.1	Size of Tile 600x600 mm	57.00	sqm	1723.12	98218.00
8	FINISHING				
8.1	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour :				
8.1.1	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	453.00	sqm	205.93	93286.00
8.2	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				
8.2.1	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	1103.00	sqm	189.79	209338.00
8.3	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
8.3.1	Two or more coats on new work	37.00	sqm	172.93	6398.00
8.4	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.	453.00	sqm	173.09	78410.00
8.5	Distempering with 1st quality acrylic distemper (ready mixed) having VOC (Volatile Organic Compound) content less than 50 gram/ litre, of approved brand and manufacturer including applying				

	additional coats wherever required to achieve even shade and colour				
8.5.1	Old work (one or more coats)	3805.00	sqm	69.55	264638.00
8.6	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	1555.00	sqm	27.90	43385.00
8.7	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				
8.7.1	One or more coats on old work	615.00	sqm	114.03	70128.00
8.8	Providing and applying Self Curing/Curing Free Ready-Mix Plaster of approved brand and manufacture, having minimum compressive Strength of 6.0MPa, of specified thickness in one coat on new/old surface of walls/ceiling, using factory produced, pre-blended, premixed, formulated Self Curing/Curing Free ready-mix mortar supplied in dry form requiring only the addition of water at the site before start of application. The material shall have self-curing properties eliminating the need for post-application of water (curing). The ambient temperature at the time of application should not exceed 40° Celsius It should be applied on hacked/uneven background such as bare brick/CC and Block/RCC surface after preparation of surface etc. complete,				
	including applying Portland cement slurry @0.40Kg/Sqm, as per manufacturer's specification finished in smooth line and level at locations and all floors *In case, ambient temperature exceeds 40°C, manufacturer's specification may be followed.				
8.8.1	12 mm average average thickness	30.00	Sqm	563.71	16911.00
8.8.2	15 mm average average thickness	1103.00	Sqm	668.53	737389.00
9	REPAIRS TO BUILDINGS				
9.1	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:				
9.1.1	Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	10.00	sqm	1209.77	12098.00

9.2	Cleaning of terrace/loft water storage tank (inside surface area) upto 2000 litre capacity at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre) (if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)	112000.00	litre	0.55	61600.00
9.3	Cleaning of choked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150mm dia upto 300mm	80.00	Metre	377.97	30238.00
9.4	Cleaning of under ground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:-(i) Tank shall be emptied of water by pumping & bottom shall be cleaned of silt and other deposits. (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water.(iii) Chlorination of RCC internal surface by liquid chlorine.(iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the	1474.21	sqm	94.12	138753.00

	surface.(v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge.				
10	DISMANTLING AND DEMOLISHING				
10.1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
10.1.1	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	2.00	Cum	1667.82	3336.00
10.2	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
10.2.1	For thickness of tiles 10 mm to 25 mm	61.00	Sqm	81.42	4967.00
10.3	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.	1140.00	Sqm	60.62	69107.00
10.4	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.	25.00	Cum	292.78	7320.00
11	SANITARY INSTALLATIONS				
11.1	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:				
11.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	2.00	each	7506.54	15013.00
11.2	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 :				
11.2.1	W.C. pan with ISI marked white solid plastic seat and lid	3.00	each	7227.18	21682.00
11.3	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
11.3.1	Kitchen sink without drain board				
11.3.1.1	610x460 mm bowl depth 200 mm	2.00	Each	4296.90	8594.00
12	WATER SUPPLY				
12.1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.				
12.1.1	20 mm nominal dia Pipes	4.00	Metre	371.59	1486.00
12.1.2	25 mm nominal dia Pipes	44.00	metre	445.41	19598.00
12.2	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	2000.00	litre	12.20	24400.00
13	DRAINAGE				
13.1	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 x300 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:				
13.1.1	100x100 mm size P type				
13.1.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	5.00	each	3003.38	15017.00

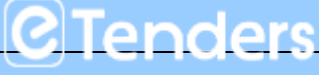
13.2	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
13.2.1	150 mm dia. R.C.C. pipe	30.00	Metre	617.23	18517.00
14	WATERPROOFING				
14.1	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying :				
	(a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours.				
	(b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours.				
	The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	7.75	sqm	684.44	5304.00
15	RAINWATER HARVESTING AND TUBE WELLS				
15.1	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of Engineer-in-charge.	12.00	each	1552.85	18634.00
16	SUPPLY OF MATERIAL				
16.1	Supplying 75MM Type B SWR PVC pipes	58.00	Metre	220.60	12795.00
16.2	P.V.C. low level flushing cistern				
16.2.1	10 litre capacity - White	4.00	each	916.05	3664.00
16.3	CP Brass Single lever telephonic wall mixer				

	(a) 15 mm nominal dia	2.00	each	7080.77	14162.00
16.4	P.V.C. waste pipe for sink or wash basin				
16.4.1	Semi rigid pipe				
16.4.1.1	32 mm dia	50.00	each	39.84	1992.00
16.5	PTMT Waste Coupling for wash basin and sink				
16.5.1	Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms	6.00	each	59.00	354.00
16.6	unplasticised P.V.C. connection pipe with PTMT Nuts				
16.6.1	15 mm nominal bore with 45 cm length	25.00	each	81.17	2029.00
16.7	PTMT Ball cock				
16.7.1	15 mm nominal bore, 105 mm long, weighing not less than 138 gms	12.00	each	116.51	1398.00
16.8	C.P. brass bib cock				
16.8.1	15 mm nominal bore	5.00	each	486.78	2434.00
16.9	C.P. brass long body bib cock				
16.9.1	15 mm nominal bore	5.00	each	781.81	3909.00
16.10	PTMT bib cock				
16.10.1	15mm nominal bore, 86 mm long, weighing not less than 88 gms	12.00	each	103.28	1239.00
16.10.2	15 mm nominal bore, 165 mm long, weighing not less than 110 gms	12.00	each	156.35	1876.00
16.11	uPVC (Unplasticized Polyvinyl Chloride) or rigid PVC Square Floor Trap Grating (Jali)	12.00	each	110.75	1329.00
16.12	PTMT pillar cock				
16.12.1	15 mm nominal bore, 107 mm long, weighing not less than 110 gms	12.00	each	184.40	2213.00
16.13	CP Brass pillar cock				
16.13.1	15 mm C.P. brass Pillar tap	6.00	each	438.10	2629.00
16.14	PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms	12.00	each	135.72	1629.00
16.15	brass stop cock				
16.15.1	15 mm nominal bore	6.00	each	339.26	2036.00
16.16	Gun metal gate valve with C.I. wheel (screwed end) :				
16.16.1	25 mm nominal bore	3.00	each	609.22	1828.00
16.16.2	20 mm nominal bore	6.00	each	528.11	3169.00
16.16.3	32 mm nominal bore.	3.00	each	674.14	2022.00
16.17	gun metal non- return valve				
16.17.1	40 mm nominal bore				

16.17.1.1	Horizontal	4.00	each	933.77	3735.00
16.18	Health Faucet of make Jaguar or equivalent as per Engineer In-Charge	6.00	each	1708.50	10251.00
16.19	Two way Bib Cock of make Jaguar or equivalent as per Engineer In-Charge	6.00	each	1927.30	11564.00
17	NON SCHEDULED ITEM				
17.1	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.29 mm and fixing with Aluminium beading, etc. all complete as per direction of Engineer-in-Charge (cost of Aluminium beading shall be paid in basic item).	50.00	Sqm	891.80	44590.00
17.2	Providing and fixing 25MM SS curtain rods of wall thickness 1.00 mm with two SS brackets fixed with SS screws and wooden plugs etc. wherever necessary complete complete as per direction of Engineer in Charge.	35.00	Metre	523.25	18314.00
					33,45,533.00

Executive Engineer, Pune-II

PART – C ***(PRICE BID)***

		Central Public Works Department			
		NIT No. 27/NIT/EE/Pune-II/2026-27			
Name of Work: A/R & M/O to Residential Buildings situated at IMD Pashan, Pune during 2026-27.					
PRICE BID					
Name of the Contractor					
Sr. No.	Name of component	Estimated cost	percentage above or below the estimated cost	% in Figures	Total Cost
1	Civil Work	Rs. 33, 45,533/-			
	Grand Total	Rs. 33, 45,533/-			
	GRAND TOTAL IN WORDS		(Rupees Thirty Three Lakhs Forty Five Thousand Five Hundred and Thirty Three Only)		