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PART-A

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**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR E-TENDERING FORMING PART OF BID DOCUMENT AND TO BE POSTED ON WEBSITE
(Applicable for inviting open bids)**

The **Executive Engineer, Kanpur, C.P.W.D., Kanpur**, for & on behalf of President of India invites online Percentage rate bids from approved and eligible contractors of CPWD for the following work(s):

S. No.	NIT No.	Name of work and location	Estimated cost put to bid (Rs.)	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 & date of opening of tender
1	2	3	4	5	6	7	8
1	49/EE/Kanpur/2026-27	Special repair at GPR A Gulmohar Vihar, Kanpur (SH: Water proofing treatment at roof in Type-III 02 block and repairing of chhajja).	Rs. 26,96,733/-	Rs. 53,935/-	03 Months	Upto 03:00 PM on 15.10.2026	At 03:30 PM on 15.10.2026

- 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.
- Information and Instructions for bidders posted on website shall form part of bid document.
- 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.

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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 including e-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 e-Msigner 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. 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.

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

- (i.) Insurance Surety Bond, Demand Draft/ Account Payee Banker's Cheque / FDR/ Bank Guarantee of any commercial Bank against EMD.
- (ii.) Enlistment Order of the Contractor.
- (iii.) 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".
- (iv.) Copy of receipt for deposition of original EMD issued from division office of any Executive Engineer (including NIT issuing EE/AE), CPWD.
- (v.) Certificate of ERP training for contractor issued by the competent authority of any RTI of CPWD all over India.

Note: Bidder should ensure himself that above documents are uploaded in correct format and at correct location on the website.

Executive Engineer (Kanpur)
CPWD, Kanpur

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Annexure-I

RECEIPT OF DEPOSITION OF ORIGINAL EMD

(Receipt No.#..... / date#.....)

1. Name of Work : Special repair at GPRA Gulmohar Vihar, Kanpur (SH: Water proofing treatment at roof in Type-III 02 block and repairing of chhajja).
2. NIT No. : 49/EE/Kanpur/2026-27
3. Estimated Cost: Rs. 26,96,733/-
4. Amount of Earnest Money Deposit: Rs. 53,935/-

(In favour of Executive Engineer, Kanpur Central Division, Kanpur, CPWD, Kanpur)

Last date & Time of submission of Bid : 15.10.2026

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) alongwith office stamp

* To be filled by EE inviting tender.

To be filled by EMD receiving EE.

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Annexure-II**ON NON-JUDICIAL STAMP PAPER OF MINIMUM RS. 100****(Guarantee offered by Bank to CPWD in connection with the execution of contracts)****Form of Bank Guarantee for Earnest Money Deposit /Performance 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 bids under(NIT number)..... 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 the contractor) (hereinafter called "the Contractor") for execution of work (Name of work) The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. (Rupees only) valid upto (date)..... as Performance Guarantee/Security Deposit/Mobilization Advance from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.
2. We, (indicate the name of the bank) (herein after 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.
3. We,(indicate the name of the Bank), do here by 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. (Rupeesonly)
4. We, (indicate the name of the Bank), further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes 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 a valid discharge of our liability for payment there under and the Contractor shall have no claim against us for making such payment.

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5. 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 forbear 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.
6. 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.
7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.
8. We, (indicate the name of the Bank), undertake not to revoke this guarantee except with the consent of the Government in writing.
9. 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:

1. Signature.....

Name and address

Authorized signatory

Name

Designation

Staff code no.

2. Signature

Name and address

Bank seal

* Date to be worked out on the basis of validity period of 90 days where only 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.

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CPWD-6 FOR e-Tendering

1. Percentage rate bids are invited on behalf of President of India from approved and eligible contractors of CPWD for the work **Special repair at GPRA Gulmohar Vihar, Kanpur (SH: Water proofing treatment at roof in Type-III 02 block and repairing of chhajja)**. 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. 26,96,733/-**. 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.

- ~~1.2 Intending bidders is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:-~~

~~Criteria of eligibility for submission of bid documents~~

- ~~1.2.1 Conditions for Non-CPWD registered contractors only, if bids are also open to non-CPWD Contractors:~~

~~For works estimated cost upto tendering limit of class I Buildings & Roads (erstwhile Composite/ Building/ infrastructure) category Contractor (However, for Horticulture category, it may be modified as per bidding limit of CPWD class I contractors of Horticulture category).~~

- ~~(i) Three similar works each of value not less than Rs..... or two similar works each of value not less than Rs..... or one similar work of value not less than Rs..... (all figures rounded to nearest convenient figure) during the last 7 years ending last day of the month previous to the one in which tenders are invited.~~
- ~~(ii) For EPC tender under Mode I/II only (Applicable for CPWD enlisted contractors of appropriate class also).~~

~~One completed work costing not less than Rs. executed with the structural system technology as proposed by bidder in the letter of transmittal during the last 7 years ending last day of the month previous to the one in which tenders are invited. This work can be part of eligible work at 1.2.1 (i) above or as a separate work.~~

Note: ~~For works costing above tendering limit of class II Buildings & Roads (erstwhile Composite/ Building/ infrastructure) category contractors but upto tendering limit of Class I Buildings & Roads (erstwhile Composite/ Building/ infrastructure) category Contractor (However, for Horticulture category, it may be modified as per bidding limit of CPWD class II and CPWD Class I contractors respectively of Horticulture Category) when bids are open to non-CPWD contractors also, then class II contractors of CPWD registered shall also be eligible if they satisfy the eligibility criteria specified in 1.2.1 above.~~

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~~1.2.2 Criteria of eligibility for CPWD as well as non-CPWD contractors,~~

~~For works estimated to cost above the tendering limit of class-I (Super) Buildings & Roads (erstwhile Composite/ Building/ infrastructure) category Contractor (However for Horticulture category, it may be modified as per bidding limit of CPWD class-I contractors of Horticulture Category).~~

~~(i) Three similar works each of value not less than Rs..... or two similar works each of value not less than Rs..... or one similar work of value not less than Rs..... (all figures rounded to nearest convenient figure) during the last 7 years ending last day of the month previous to the one in which tenders are invited.~~

~~(ii) For EPC tender under Mode-I/II only (Applicable for CPWD enlisted contractors of appropriate class also).~~

~~One completed work costing not less than Rs executed with the structural system technology as proposed by bidder in letter of transmittal during the last 7 years ending last day of the month previous to the one in which tenders are invited. This work can be part of eligible work at 1.2.2 (i) above or as a separate work.~~

~~The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the last date of submission of bid. This is applicable for 1.2.1 as well as 1.2.2 (Para 1.2.1(i) and Para 1.2.2(i) are not applicable for CPWD enlisted contractors of appropriate class. Para 1.2.1(ii) and Para 1.2.2(ii) are also applicable for CPWD enlisted contractors of appropriate class).~~

~~To become eligible for issue of bid, the bidders shall have to furnish an affidavit as under:-~~

~~I/We undertake and confirm that eligible similar works(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 bidding 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. (Scanned copy to be uploaded at the time of submission of bid)~~

~~1.2.3 When bids are invited from non-CPWD contractors and CPWD class-II contractors as per provisions of clause 1.2.1 above, it will be mandatory for non-CPWD contractors and CPWD class-II contractors to upload the work experience certificate(s) and the affidavit as per the provisions of clause 1.2.2.~~

~~But for such bids, Class-I contractors of CPWD are eligible to submit the bids without submission of work experience certificate and affidavit. Therefore, CPWD class-I contractors shall upload two separate letters for experience certificate and affidavit that these documents are not required to be submitted by them. Uploading of these two letters is mandatory otherwise system will not clear mandatory fields.~~

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.

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3. The time allowed for carrying out the work will be **03 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. (i) The site for the work is available.

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

~~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.~~

5. 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 including e-Bank Guarantee (for balance amount as prescribed) from any of the Commercial Banks (drawn in favour of Executive Engineer, Kanpur, CPWD, Kanpur) 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 including e-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,

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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 03:30 PM on 15.10.2026

10. The bid submitted shall become invalid and e-Tender processing fee shall not be refunded if:
- The bidder is found ineligible.
 - The bidder does not upload scanned copies of all the documents stipulated in the bid document.
 - 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 bidder in the office of bid opening authority.
 - 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.
11. The contractor whose bid is accepted will be required to furnish performance guarantee in favour of Executive Engineer, Kanpur, CPWD, Kanpur 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: Special repair at GPRA Gulmohar Vihar, Kanpur (SH: Water proofing treatment at roof in Type-III 02 block and repairing of chhajja).** 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 bidders shall be deemed to have full knowledge of the site, whether he inspects it

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or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders 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, for & 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, for & 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 and time (24 hours basis) 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.

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- (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 and time (24 hours basis) 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. The tender inviting authority gets intimation through SMS and email in this regard.
- (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.
20. **For Composite Bids**
- ~~20.1.1 The Executive Engineer in charge of the major component will call bids for the composite work. The cost of bid document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite bid.~~
- ~~20.1.2 The bid document will include following three components:~~
- ~~**Part A:** CPWD-6, CPWD-7/8 including Schedule A to F for the major component of the work, Standard General Conditions of Contract 2023 Construction works as amended/ modified up to last date of submission of bids.~~
- ~~**Part B:** General / specific conditions, specifications and schedule of quantities applicable to major component of the work.~~
- ~~**Part C:** Schedule A to F for minor component of the work (competent authority under Clause 2 and Clause 5 shall be same authority as mentioned in Schedule A to F for major components), General/specific conditions, specifications and schedule of quantities applicable to minor component(s) of the work.~~
- ~~20.1.3 The bidders must associate himself, with agencies as per NIT conditions.~~
- ~~20.1.4 The eligible bidders shall quote rates for all items of major component as well as for all items of minor components of work.~~
- ~~20.1.5 After acceptance of the bid by competent authority, the EE in charge of major component of the work shall issue letter of award for & on behalf of the President of India. After the work is awarded, the main contractor will have to enter into one agreement with EE incharge of major component and has also to sign two or more copies of agreement depending upon number of EE's/DDH incharge of minor components. One such signed set of agreement shall be handed over to EE/DDH incharge of minor component(s).~~
- ~~EE of major component will operate Part A and Part B of the agreement.~~
- ~~EE/DDH in charge of minor component(s) shall operate Part C along with Part A of the agreement.~~

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- 20.1.6 Entire work under the scope of composite bid including major and all minor components shall be executed under one agreement.
- 20.1.7 Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.
- 20.1.8 The main contractor has to associate agencies for specialized component(s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency(s) to Engineer in Charge of relevant component(s) within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer in Charge of relevant component(s).
- 20.1.9 In case the main contractor intends to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer in Charge of relevant specialized component(s).
The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer in Charge is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.
- 20.1.10 The main contractor has to enter into MoU with agency(s) associated by him. Copy of such MoU shall be submitted to EE/ DDH in charge of each relevant component as well as to EE in charge of major component. In case of change of associate contractor, the main agency(s) has to enter into MoU/agreement with the new contractor associated by him.
- 20.1.11 Running payment for the major component shall be made by EE of major discipline to the main contractor. Running payment for minor components shall be made by the Engineer in Charge of the discipline of minor component directly to the main contractor. The CMB shall be maintained independently by Engineer in Charge of major and minor components.
- 20.1.12A. The composite work shall be treated as complete when all the components of the work are complete. The completion certificate of the composite work shall be recorded by Engineer in Charge of major component after record of completion certificate of all other components.
- 20.1.12B. Final bill of whole work shall be finalized and paid by the EE of major component. Engineer(s) in charge of minor component(s) will prepare and pass the final bill for their component of work and pass on the same to the EE of major component for including in the final bill for composite contract.
- 20.1.13 **In case of non availability of budget or any other unforeseen situation the scope of work may be reduced. In case of reduction in scope of work no claim on account of reduction in value of work, loss of expected profit, consequential overheads etc. shall be payable to the contractor.**
21. 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 (Phone no *....., e- mail Id *.....) 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.

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

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22. Price Preference to SC/ST individual contractor for item rate/percentage rate tender:

Price preference in quoted item rate/percentage rate tender shall be applicable to the individual enlisted/non-enlisted SC/ST contractor as under:-

- (i) For work (s) upto and equal to an estimated cost of Rs. 2.70 lakh a price preference upto 5% (with reference to the lowest valid tender) may be allowed in favor of individual SC/ST enlisted/non-enlisted contractor. No earnest money is required in such case (s).
- (ii) For work(s) beyond an estimated cost of Rs. 2.70 lakh and upto and equal to estimated cost of Rs. 6.20 lakh, the price preference upto 5% (with reference to the lowest valid tender) may be allowed in favour of individual enlisted SC/ST contractor. However, earnest money at a reduced rate of ½% may be accepted in such cases.

The price preference upto 5% (with reference to the lowest valid price bid) may be allowed in favour of individual SC/ST contractor only. The above concession shall be allowed only after verification of the individual contractor's claim of belonging to SC/ST community

Executive Engineer (Kanpur)
CPWD, Kanpur

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GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

CPWD-7

PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

- (A) Tender for **Special repair at GPRA Gulmohar Vihar, Kanpur** (SH: Water proofing treatment at roof in Type-III 02 block and repairing of chhajja).
the work of:
- (i) To be uploaded by **03:00 PM** on 15.10.2026 at <https://etender.cpwd.gov.in> or www.cpwd.gov.in
- (ii) To be opened in presence of tenderers who may be present at **03:30 PM** on 15.10.2026 in the office of **Executive Engineer, Kanpur, C.P.W.D., Kanpur.**

TENDER

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F Specifications applicable, Drawings & Designs, General Rules and Directions, 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 **“Special repair at GPRA Gulmohar Vihar, Kanpur (SH: Water proofing treatment at roof in Type-III 02 block and repairing of chhajja).”** I/We hereby tender for the execution of the work specified for the President of India with in 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.

I/We agree to keep the tender open for **Thirty (30)** days from the date of opening of technical bid and not to make any modification in its terms and conditions.

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

A copy of earnest money deposit **receipt of prescribed amount deposited in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker’s Cheque or Bank Guarantee (as prescribed)** issued by a **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

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those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

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

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back-to-back basis. Further that, if such a violation comes to the notice of Department, then I/We shall be debarred for tendering in 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 of the State.

Dated

Signature of Contractor

Witness:

Postal Address

Address:

Occupation:

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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 (Rupees).

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

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

For & on behalf of President of India

Signature

Dated:

Designation

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PROFORMA OF SCHEDULES

(Separate Performa for Civil, Elect. & Hort. Works in case of Composite Tenders) (Operative Schedules to be supplied separately to each intending tenderer)

SCHEDULE 'A'**Schedule of quantities**

(Attached Page No. 62 to 64)

SCHEDULE 'D'

Extra schedule for specific requirements/document for the work, if any. Nil

SCHEDULE 'E'

Reference to General Conditions of contract – Applicable GCC is GCC for **Maintenance Work** 2023, as modified and corrected up to previous day of last date of submission of bids.

Name of work : Special repair at GPRA Gulmohar Vihar, Kanpur (SH: Water proofing treatment at roof in Type-III 02 block and repairing of chhajja).	
Estimated cost of the work:	
Civil Items of work	Rs. 26,96,733/-
Electrical Items of work	
Total	Rs. 26,96,733/-
Earnest money	Rs. 53,935/- (EMD Shall be made/issued only from the account of the bidder/tenderer submitting the bid/tender. EMD made/issued from the account other than that of the bidder/tenderer submitting the bid, shall not be accepted)
Performance Guarantee	(a) 5% of tendered value or estimated cost put ot tender (ECPT) (whichever is higher). (b) Where the tenderd 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 the tendered value

SCHEDULE 'F'**GENERAL RULES & DIRECTIONS:**

Officer inviting tender	Executive Engineer, Kanpur, C.P.W.D., Kanpur
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Definitions:

2(vii)	Engineer-in-Charge	
	For Civil items of work	Executive Engineer, Kanpur, C.P.W.D., Kanpur
	For Electrical items of work	Executive Engineer (Elect.), Lucknow Electrical Division, C.P.W.D., Lucknow
	For horticulture items of work	DD(Hort.), Lucknow Horticulture, CPWD, Lucknow
2(viii)	Accepting Authority	Executive Engineer, Kanpur, C.P.W.D., Kanpur
2(ix)	Percentage on cost of materials and labour to cover all overheads and profits	15%

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2(x)	Standard Schedule of Rates:	
(a)	Civil Items of Work:	Delhi Schedule of Rates 2023 with modified/amended up to last date of submission of bid, enhanced with Cost Index of 5% for Kanpur Nagar.
(b)	Electrical Items of Work:	As mentioned in electrical part
	Horticulture Items of Work:	As mentioned in horticulture part.
2(xi)	Department:	Central Public Works Department
9(ii)	Standard CPWD contract Form:	GCC 2023 for Maintenance Work , CPWD Form-7/8 as amended/modified up to previous day of last date of submission of the bids.
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. ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period as provided in (i) above	07 Days 03 Days
Clause 2	Authority for fixing Compensation under Clause 2	Chief Engineer (Lucknow), CPWD, Lucknow.
Clause 2A	Applicable	Yes
Clause 5	Applicable	
	(i) Number of days from the date of issue of letter of acceptance for reckoning date of start	10 Days or date of handing over of site which ever is later.
	(ii) Time allowed for execution of work	03 Months
	(iii) Mile stones	Applicable

~~**Clause 5.1 (iv) :** Monthly time and progress chart containing upto date progress of work shall be for work done during previous month submitted by the agency on or before 5th day of every month failing which, a non refundable recovery @ Rs. 5000/- per week basis shall be made from running account bill without any notice in this regard.~~

Clause 5.4

(i)	Authority to convey the decision of shifting of mile stone and extension of time-Executive Engineer, Kanpur, C.P.W.D., Kanpur.
(ii)	Authority to decide rescheduling of mile stone and extension of time-Chief Engineer (Lucknow), C.P.W.D., Lucknow
(iii)	Shifting of date of start in case of delay in handing over of site- Chief Engineer (Lucknow), C.P.W.D., Lucknow or successor thereof or Higher authority.

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PROFORMA OF SCHEDULE clause 5 Schedule of handing over the site

Part	Portion of site	Description	Time period for handing over reckoned from date of issue of letter of intent
Part-A	Portion without any hindrance	Full site	10 (Ten) days
Part-B	Portion with encumbrances	NA	NA
Part-C	Portion dependent on work of other agencies	NA	NA
Clause 5A	Applicable since ECPT less then 25 Lakh		
Clause 6	Computerized Measurement Book/ Electronic Mode of Measurement		EMB through CPWD ERP Portal
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. 10 lakh
Clause 7A	Whether Clause 7A shall be applicable		Yes (No Running Account Bill shall be paid for the work till the applicable labour licences, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-in-charge).
Clause 8A	Authority to decide compensation on account if contractor fails to submit completion plans.		Executive Engineer, Kanpur, C.P.W.D., Kanpur.
Clause 10A	List of testing equipment to be provided by the contractor at site lab.		See as on Page 29 & 30
Clause 10 B (ii)	Whether clause 10-B (ii) shall be applicable.		No
Clause 10C	Not Applicable Component of Labour expressed as percent of total value of work		25%

Clause 10CC : Not Applicable

Clause 10CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column.	12 Months
Schedule of component of other Materials, Labour, POL etc. for price escalation	
i) Cp Cement component	-
ii) Lp Labour component	-
iii) CMp Civil component of other construction materials,	-
iv) Sp Reinforcement steel based/TMT bars/structural steel (including strands and cables) component.	-

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v) Fp-POL (Diesel) component.		-
Clause 11	Specification to be followed for execution of work:	
For Civil items of work	CPWD Specifications 2019 Vol. 1 and Vol. 2 with correction slips issued up to day previous to last date of submission of tender (Hereinafter called CPWD specifications also)	
For Electrical items of work	As per electrical component	
For Hort. items of work	As per Hort. Component	

(i) Building Information Model (BIM) is applicable and BIM professional to be deployed by contractor
 :- **Not Applicable**

Clause 12		
Type of work	Maintenance Work	
12.2	Deviation limit beyond which Clause 12.2 shall apply	No limit
Clause 16	Competent Authority for Deciding reduced rates:	
	For Civil items of work	Chief Engineer (Lucknow), CPWD, Lucknow or successor thereof or Higher authority.
	For Electrical items of work	Chief Engineer (Lucknow), CPWD, Lucknow or successor thereof or Higher authority.
	For Horticulture items of work	Chief Engineer (Lucknow), CPWD, Lucknow or successor thereof or Higher authority.
Clause 18	List of mandatory machinery, tools & plants to be deployed by the contractor at site.	As per Page No. 48
Clause 19C	Authority to decide penalty for each default	Executive Engineer, Kanpur, C.P.W.D., Kanpur or successor thereof.
Clause 19D	Authority to decide penalty for each default	
Clause 19G	Authority to decide penalty for each default	
Clause 19K	Authority to decide penalty for each default	
Clause 25	(i) Conciliator	ADG(Lucknow), CPWD, Lucknow
	(ii) Arbitrator Appointing Authority	Chief Engineer (Lucknow)
	(iii) Place of Arbitration	Lucknow

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Clause 32		Requirement of Technical Representative(s) and Recovery Rate					
Sl. No.	Minimum Qualification of Technical representative	Discipline	Designation (Principal Technical/Technical representative)	Minimum experience (Years)	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 32	
						Figures	Words
1	Graduate Engineer Or Diploma Engineer	Civil	Project Manager cum Planning /quality/Site/ billing Engineer	2 or 5 respectively	1	Rs. 15,000/- per month per person	Rs. Fifteen Thousand per month per person

Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.

Diploma holder with minimum 10 years relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

Clause 38			
i)	a)	Schedule/ statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2023 printed by CPWD	Delhi Schedule of Rates 2023 with modified/amended up to last date of submission of bid, enhanced with Cost Index of 5% for Kanpur Nagar.
ii)		Variations permissible on theoretical quantities	
	a)	Cement for works with estimated cost put to tender not more than Rs. 25 lakhs.	3% plus/minus
		For works with estimated cost put to Tender is more than Rs. 25 lakhs	2% plus/minus
	b)	Bitumen all works	2.5% plus & nil on minus side.
	c)	Steel reinforcement and structural steel Sections for diameter, section and category.	2% plus/minus.
	d)	All other materials	Nil

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GENERAL REQUIREMENTS FOR THE TENDER

Name of Work: Special repair at GPRA Gulmohar Vihar, Kanpur (SH: Water proofing treatment at roof in Type-III 02 block and repairing of chhajja).

- 1 The tenderer 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, ~~Electrical & Horticulture~~ 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 **03 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 Contractor has to arrange and install **required plant and machinery** during the currency of work 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 **Cement shall be arranged by the contractor himself.**
- 9 **Steel Reinforcement shall be arranged by the contractor himself.**
- 10 ~~Contractor has to engage specialized agencies for specialized items of works such as Pile Foundation work, water proofing, RCC overhead tank, sewage treatment plant, truss fabrication and other specialized items as mentioned in the tender documents. Only those specialized agencies/firms who have satisfactorily executed works as per following criteria during last seven years are eligible for the specialized works-~~
 - (a) ~~Three similar works each costing not less than 40% of estimated cost for concerned sub head.~~
 - Or**
 - (b) ~~Two similar works each costing not less than 60% of estimated cost for concerned sub head.~~
 - Or**
 - (c) ~~One similar work costing not less than 80% of estimated cost for concerned sub head.~~

~~Approval of the specialized agencies for each specialized work shall be obtained from the Engineer in Charge within one month of award of work. Even if, such specialized items of work shall be executed by the specialized agencies, the work shall be deemed to be executed by the tenderer for all purposes and the responsibility of the quality of items of works executed etc. shall continue to be that of the tenderer only.~~

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- 11 — Contractor has to deploy required Plant and machinery on the project. **Minimum number of plant and machinery to be deployed by him is indicated at Page No. 55.** 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.
- 12 The contractor shall submit the running bills in the shape of the computerised 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
- 13 Contractor has to provide reinforcement cover blocks made of approved proprietary pre packed free flowing mortars (Conbextra as manufactured by M/s Fosroc Chemical India Ltd. or approved equivalent) of high early strength.
- 14 The contractor shall comply with the provisions of the Apprentices Act 1961, and the rules and orders issued there under from time to time.

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PART-B

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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 else where 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, Steel truss 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 2009 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 equipments:

- 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 upto 1100C- Sensitivity 10C.
- c) **Sieves:** as per IS: 460
 - 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. 18 Nos.
 - ii) Pruning Rods 2Kg weight length 40cm and ramming face 25mm 1 No.
 - iii) Extra Bottom plates for 15cm cube mould 6 Nos.
 - iv) Standard Vibration table for cubes 1 No
 - v) Dial gauges 25 mm travel- 0.01 mm/division Least count- 1 No.
 - vi) Compression testing machine of 100 tonne capacity. 1 No.

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Not less 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.

B) Other Laboratories :

B1 The contractor shall arrange carrying out all tests required under the agreement through the laboratory as approved by the Engineer-in-Charge and shall bear all charges in connection therewith including charges for testing for all materials which shall be borne by the contractor.

C) Sampling of Materials:

- C1 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.
- C2 The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material/work beyond set out tolerance limit shall be summarily rejected by the Engineer-in-Charge.
- C3 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.
- C4 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.
- C5 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.
- C6 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.
- C7 The Stone aggregate/stone, sand shall be brought from any quarries subjected to the said materials confirm CPWD specifications.
- 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 Engineer-in-Charge of work and which shall be duly signed by the contractor or his authorised representative.
- 6 The contractor shall render all help and assistance in documenting the total sequence of this project by way of photography, slides, audio-video recording etc. Nothing extra shall be payable to the contractor on this account. However cost of photographs, slides, audio/videography etc shall be born by the department.
- 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.

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- 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 2009 Vol. 1 & 2 the higher of the two frequencies of testing shall be adopted.
- 11 Maintenance of Works Register:**
- (i) All the register of tests to be carried out at construction site or in outside laboratories shall be maintained by the contractor which shall be issued to the contractor by Engineer-in-Charge in the same manner as being issued to CPWD field staff.
- (ii) The test registers to be issued to the contractor are :
- Materials at site account register.
 - Cement register.
 - Master test registers.
 - Cube test register.
 - Paint register.
 - Drawing register.
- (iii) 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.
- (iv) Contractor shall be responsible for safe custody of all the test registers.
- (v) 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 duly checked by AE(P) in division office.

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ADDITIONAL CONDITIONS FOR CEMENT

- 1 The contractor shall procure PPC conforming to IS: 1489 (Part 1) as required in the work from reputed manufacturers of cement such as ACC, 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 1 million tons per annum as approved by Chief Engineer/ADG, CPWD, Lucknow.
- 2 The supply of cement shall be taken 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 relevant BIS codes. In case the test results indicate that the cement arranged by the contractor does not conform to the relevant BIS codes, the same shall stand rejected, and it 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.
- 3 The cement shall be brought at site in bulk supply of approximately 50 tonnes or as decided by the Engineer- in- charge. The cement godown of the capacity to store a minimum of 2000 bags of cement or decided by NIT approving authority in case less than 100 MT cement is required for work, shall be constructed by the contractor at site of work for which no extra payment shall be made.
- 4 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 keys 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.
- 5 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. The contractor shall supply free of charge the cement required for testing including its transportation cost to testing laboratories. **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.**
- 6 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. In case the cement consumption is less than theoretical consumption including permissible variation, recovery at the rate so prescribed shall be made after ensuring structural soundness and stability on the basis of testing. In case of excess consumption, no adjustment shall be made.
- 7 The cement brought to the 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.
- 8 The damaged cement shall be removed from the site immediately by the agency on receipt of a notice in writing from the Engineer-in-charge. If he does not do so within 3 days of receipt of such notice, the Engineer-in-charge shall get it removed at the cost of the contractor.

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SPECIAL CONDITION FOR STEEL REINFORCEMENT BARS

1. The CPWD/Contractor shall/procure IS marked TMT bars of various grade TMT Bars of Fe 550D from :
 - 1.1 The Steel Manufacturers such as SAIL, TATA Steel Ltd., RINL, Jindal Steel, Power Ltd. & JSW Steel Ltd. or their authorized dealers having valid BIS license for IS: 1786-2008.
 - 1.2 The steel manufacturers or their authorized dealers (as per following section criteria) having valid BIS license for IS:1786-2008
 - 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.
2. The contractor shall have to obtain vouchers and furnish manufacturers test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work.
3. Samples shall also be taken and got tested by the Engineer-in-charge as per the provisions in this regard in the relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications as defined under para 1.1 and 1.2 above, 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 of written orders from the Engineer-in-charge to do so.
4. The steel reinforcement shall be brought to the site in bulk supply of 20 tonnes or more or as directed by the Engineer-in-charge.
5. The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent distortion & 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.
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 at frequency not less than that specified below:

Size of bar	For consignment below 100 tonnes	For consignment over 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 16 mm 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

7. 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.
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

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- governed by the conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to be made.
9. The steel brought to the site and the steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge
 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.
 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.
 12. Reinforcement including authorised 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.
 13. The standard sectional weights referred to as in Table 5.4 under para 5.3.4 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.
 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.
 15. If the derived weight as in para 14 above is lesser than the standard weight as in para 13 above, the derived actual weight shall be taken for payment.
If the derived actual weight is found more then the standard weight then the standard weight as worked out in para 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.
 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.
 17. Tolerances on Nominal Mass (individual sample) shall be as under:-

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

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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) Nomenclature of items as per schedule of quantities.
 - ii) Particular specification and special condition, if any.
 - iii) CPWD specifications.
 - iv) Architectural Drawings
 - v) Indian standard specifications of B.I.S.
 - vi) Sound Engineering Practice

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 upto 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 2009 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. Extra payment for centering/shuttering, if required to be done for heights greater than 3.5 m shall however be admissible at the rates arrived at in accordance with clause 12 of the agreement, if not already specified.
- 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, structural glazing, PVDF coating aluminium composite panel and other specialised 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 The tenderer shall see the approaches to the site. In case any approach from main road is required by the contractor, 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.

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- 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 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 account of the same.
- 14 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.
- 15 The building work 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.
- 16 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.
- 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 PROGRAMME CHART

- i) ~~The contractor shall prepare an integrated programme chart for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment and machinery required for the fulfillment of the programme within the stipulated period or earlier as indicated in the mile stones under clause 5 of the contract and submit the same for approval to the Engineer in Charge within ten days of the award of the contract.~~

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ii) ~~The programmes chart should include the following:-~~

a) ~~Descriptive note explaining sequence of various activities.~~

b) ~~Net work (PERT/CPM/BAR CHART)~~

c) ~~Programme for procurement of materials by the contractor~~

d) ~~Programme of procurement of machinery/equipment's having adequate capacity commensurate with the quantum of work to be done within the stipulated period by the contractor.~~

e) ~~Programme for engagement of labourers (skilled /unskilled) in number.~~

- 22 If the work is carried out in more than one shift or during night no claim on this accounts shall be entertained.
- 23 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.
- 24 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.
- 25 The contractor shall bear all incidental charges for cartage, storage and safe custody of materials issued by department.
- 26 Any cement slurry added over base surface for continuation of concreting for better bond is deemed to have been built in the items and nothing extra shall be payable for extra cement considered in consumption on this account.
- 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.
- 28 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.
- i) The contractor shall submit for the approval of Engineer-in-Charge names of specialized agencies of repute along with their technical capacity proposed to be engaged by him, who must have executed satisfactorily works of value as specified in mandatory conditions.
- ii) 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.
- iii) 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.
- iv) 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,

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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.

- v) 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.

vi) ~~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.~~

- 32 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.

- 33 ~~On completion of work, the contractor shall submit at his own cost four prints of "as built" drawings to the Engineer-in-Charge within 30 days of completion of work. These drawings shall have the following information:~~

- a) ~~Route of all piping and their diameters including soil waste pipes & vertical stacks.~~
 b) ~~Ground and invert levels of all drainage pipes together with locations of all manholes and connections upto outfall.~~
 c) ~~Route of all water supply lines with diameters, location of control valves, access panels etc.~~

- 34 No extra payment will be made for operation/activity mentioned at Sl. No. 1 to 33 above unless specifically mentioned otherwise.

35 **Condition regarding secured advance :-**

Secured advance shall be admissible only on those bonafide materials which are likely to be used in the work in a period not exceeding six months from the date of secured advance payment. If agency fails to use the material (in respect of which secured advance have been paid) in the work in this specified period of six month, the said component of secured advance shall be recovered from next running account bill paid to the agency. Secured advance on the same material shall not be paid again.

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PARTICULAR SPECIFICATION

1. EARTH WORK

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.

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. In the event of it being discovered that after the completion of the work, the quantity of cement used is less than the quantity ascertained as herein before provided (allowing variation on the minus side as stipulated in clause 38) the cost of quantity of cement so less used shall be recovered from the contractor at the rate as specified in schedule 'F'. Decision of the Engineer-in-Charge in regard to the quantity of cement which should have been actually used as per the schedule and recovery at the rate specified shall be final and binding on the contractor.
- 2.2 For non-scheduled items, the decision of the Superintending/Chief Engineer 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

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2.6 DESIGN MIX CONCRETE:

The contractor shall be required to submit two separate design mix of concrete with and without using plasticizers, separately. The decision of the engineer-in-charge to specify the design mix of concrete based on above shall be final.

2.6.1 Coarse aggregate: As per CPWD Specifications

2.6.2 Fine Aggregate: As per CPWD Specifications.

2.6.3 Water: It shall conform to requirements laid down in IS:456 : 2000 and CPWD specifications.

2.6.4 Cement: Cement arranged by the contractor will be PPC (in bags) conforming to IS: 1489-Part-I. If for any reasons, cement other than that specified in this para for example OPC of grade 43 or higher grade is brought to site by contractor, the issue, payments rate as well as the quantity to be used in the design mix concrete will remain unchanged.

2.6.5 Slump: Design slump should be clearly specified in the mix design.

2.6.6 Admixtures shall not be used without approval of Engineer-in-charge. Wherever required, admixtures of approved quality shall be mixed with concrete as specified. The admixtures shall conform to IS: 9103. The contractor shall not be paid anything extra for admixture required for achieving desired workability without any change in specified water cement ratio for RCC/CC work.

2.6.7 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:

(i) IIT- BHU, Roorkee

(ii) IET- Lucknow

(iii) HBTI- Kanpur

(iv) MNNIT- Allahabad

(v) KNIT- Sultanpur

(vi) Approved Lab/Govt. Engineering Institutions as directed by the Engineer-in-charge.

(vii) MMM Engineering College, Gorakhpur (UP)

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

2.6.8 The contractor shall submit the mix design report from any of above approved laboratory for approval of Engineer-in-Charge with in 30 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 fulfilled cement and the likely use of admixtures in concrete with PPC/white fulfilled 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.

2.6.9 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.

2.7 APPROVAL OF DESIGN MIX

The mix design for a specified grade of concrete shall be done for a target mean compressive strength $T_{ck} = F_{ck} + 1.65 s$.

Where F_{ck} = Characteristic compressive strength of 28 days

s = Standard deviation which depends on degree of quality control

The degree of quality control for this work is "good" for which the standard deviation (s) obtained for different grades of concrete shall be as below:

Grade of Concrete	For "Good" quality of control
M 25	4.00

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M 30	5.00
M 35	5.00
M 40	5.00

Of the six specimen of each set three shall be tested at seven days and remaining three at 28 days. The preliminary tests at seven days are intended only to indicate the strength to be attained at 28 days

- 2.8 All cost of mix designing and testing connected therewith including charges payable to the laboratory shall be borne by the contractor.
- 2.9 The batching plant shall conform to IS:4925. It shall have the facilities of presetting the quantity to be weighed with automatic cutoff when the same is achieved. Concreting at places may have to be resorted to through concrete pump for which nothing extra shall be paid.
- 2.10 All other operations in concreting work like Mixing, Slump, Laying Placing of concrete, compaction curing etc. not mentioned in this particular specification for Design Mix of concrete shall be as per CPWD specification.

2.11 WORK STRENGTH TEST

TEST SPECIMEN

Work strength test shall be conducted in accordance with IS: 456 on random sampling. Each test shall be conducted on six specimens, three of which shall be tested at 7 days and remaining three at 28 days.

TEST RESULTS OF SAMPLE

The test result of the sample shall be the average of the strength of three specimen. The individual variation shall not be more than 15 percent of the average. If more, the test results of the sample are invalid. 90% of the total test shall be done at the laboratory established at site by contractor and remaining 10% in the laboratory of CPWD or in any other laboratory as directed by the Engineer-in-Charge.

Lot size

The minimum frequency of sampling of concrete of each grade shall be according to the following:-

Quantity of concrete in the work cubic metre per day	Number of samples.
1-5	1
6-15	2
16-30	3
31-50	4
51 & above	4 + one additional sample for additional 50 cubic metre or part thereof.

Note: At least one sample shall be taken from each shift.

2.12 STANDARDS OF ACCEPTANCE- As per CPWD specifications/IS 456 Code

- 2.13 In case of rejection of concrete on account of unacceptable compressive strength governed by para "Standard of Acceptance" as above the work for which samples have failed shall be redone at the cost of contractors. However the Engineer-in-Charge may order for additional test (like cutting cores, ultrasonic pulse velocity test, load tests on structure or part of structure etc.) to be carried out at the cost of contractor to ascertain if the portion of structure wherein concrete represented by the sample has been used, can be retained on the basis of results of individual or combination of these tests. The contractor shall take remedial measures necessary to retain the structure as approved by the Engineer-in-Charge without any extra cost. However for payment the basis of rate payable to contractor shall be governed by the 28 days cube test results.

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- 2.14 Only MS centering/shuttering and scaffolding material unless & otherwise specified shall be used for all RCC. Work to give an even finish of concrete surface. However marine ply shuttering in exceptional cases as per site requirement may be used on specific request from contractor on approval by the Engineer-in-Charge.
- 2.15 Necessary arrangements shall be made for field tests and all required equipment's shall be arranged by establishing field lab by the Agency for mandatory tests of the materials as specified in CPWD specifications or as per direction of Engineer-in-Charge. No extra payment shall be paid on this account.
3. **READY MIX CONCRETE (RMC)/BATCH MIX CONCRETE FROM RMC PRODUCER**

The contractor shall arrange Ready Mix Concrete (RMC) from the approved RMC producing plants as given in the list of preferred make.

The contractor shall, within a period of 15 days of award of the work, submit text of MOU proposed to be entered between purchaser (the contractor) and supplier (RMC producer) to the Engineer-in-Charge for his approval. The contractor shall draw the MOU with approved RMC producer and submit to the Engineer-in-Charge within a week of such approval. The contractor will not be allowed to use ready mix concrete without completion of above stated formalities.

Notwithstanding the approval granted by the Engineer-in-Charge in aforesaid manner or provisions in CPWD specifications 2019, the contractor shall be fully responsible for quality of concrete including input control, transportation and placement etc.

The Engineer-in-Charge will reserve right to inspect at any stage and reject the concrete if he is not satisfied about quality of product at the user's end.

The Engineer-in-Charge reserves the right to exercise control over the:-

- (i) Ingredients, water and admixtures purchased, stored and to be used in the concrete including conducting of tests for checking quality of materials, recording of test result and declaring the materials fit or unfit for use in production of mix.
- (ii) Calibration check of the RMC plant.
- (iii) Weight and quantity check on the ingredients, water and admixture added for batch mixing.
- (iv) Time of mixing of concrete.
- (v) Testing of fresh concrete, recording of results and declaring the mix fit or unfit for use. This will include continuous control on the workability during production and taking corrective action, if required.
- (vi) For exercising such control, the Engineer-in-Charge shall periodically depute his authorized representative at the RMC plant. It shall be responsibility of the contractor to ensure that all necessary equipment, manpower & facilities are made available to the Engineer-in-Charge and/or his authorized representative at RMC plant.
- (vii) The contractor shall arrange for sending an SMS on the mobile No. of authorized representative of Engineer-in-Charge as soon as the RMC is dispatched from the plant, giving details such as time of dispatched, grade of concrete, tipper registration number etc.

The contractor should therefore draw MOU/agreement with RMC producer very carefully keeping in view all terms and conditions/specifications forming part of this document.

All required relevant records of RMC shall be made available to the Engineer-in-Charge or his authorized representative. The 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 contractor & the RMC plant. Only concrete as approved in design mix by the Engineer-in-Charge shall be produced in RMC plant and transported to the site.

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3.1 QUALITY CONTROL OF READY MIXED CONCRETE

It shall be the responsibility of the contractor to ensure that RMC producer provides all necessary testing equipments and takes all necessary measures to ensure quality control of ready mixed concrete. In general the required measures shall be:-

- (i) **Control of purchased material quality**
RMC producer shall ensure that all the materials purchased and used in the production of concrete confirm to the stipulation of the relevant standards and the requirements of the concrete mix design and quality control procedures. This shall be accomplished by visual checks, sampling and testing, certification from material supplier and information/date from materials supplier. Necessary equipment for the testing of all materials shall be provided and maintained in calibrated condition at the plant by the RMC producer.
- (ii) **Control of material storage**
Adequate and effective storage arrangement shall be provided by RMC producer at RMC plant for reliable transfer and feed systems, drainage of aggregate, prevention of freezing or excessive solar heating of aggregate, prevention from contamination etc.
- (iii) **Record of mix design and mix design modification**
RMC producer shall ensure that record of mix design and mix design modification is readily available in his computer at RMC plant for inspection of Engineer-in-Charge or his authorized representative at any time. Any modification in mix design shall be done only after the approval of the Engineer-in-Charge.
- (iv) **Transfer and weighing equipment**
RMC producer shall ensure that a documented calibration procedure is in place. Proper calibration records shall be made available indicating date of next calibration due & corrective action taken. RMC producer shall ensure additional calibration checks whenever required by the Engineer-in-Charge in writing to contractor. RMC producer shall also maintain a daily production record including details of customers to whom RMC was supplied including details of mixes supplied. Record shall also be maintained of materials used for each day's production including water and admixtures.
The accuracy of measuring equipment shall be within + 2% of quantity of cement & + 3% of quantity of aggregate, admixture and water being measured.
- (v) **Maintenance of Plant, Truck Mixers and Pumps**
Plant, Truck Mixers and Pumps should be well maintained so as to not hamper any operation of production, transportation and placement of concrete.
- (vi) **Production of concrete at RMC producing plant**
 - (a) Weighing (correct reading of batch date and accurate weighing):-For each load, printed or graphical records shall be made of the weights of the materials batched, the estimated slumps, the total amount of water added to the load, the delivery ticket numbers for that load and the time of loading the concrete into the truck.
 - (b) Adequate testing equipments at the plant including equipment for measuring surface moisture content of aggregates shall be provided by the RMC producer.
 - (c) Making corresponding adjustments at the plant automatically to batched quantities to allow for observed measured or reported changes in materials or concrete qualities.
 - (d) Sampling of concrete, testing, monitoring of results.
 - (e) Diagnosis and correction of faults identified from observation/complaints.
 - (f) Control of designed and the prescribed mixes: a quality control system shall be operated to control the strength of designed mixes to the required levels. The system shall include continuous analysis of results from cube tests.

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- (vii) Ready mix concrete shall be arranged in quantity as required at site of work. The ready mix concrete shall be supplied as per the pre-agreed schedule approved by Engineer-in-Charge. Noting extra shall be payable on this account.
- (viii) The Engineer-in-Charge reserves the right to approve RMC producing plants not mentioned in the list of approved RMC plants if they fulfil all the necessary conditions.
- (ix) In case of rejection of concrete for which cubes have failed to achieve the requirement of acceptance criteria as per the CPWD specification, the work done using that RMC shall be rejected and the work shall be redone at the cost of the contractor, however, the Engineer-in-Charge may order for additional tests (like ultrasonic pulse velocity and rebound hammer test etc.) to be carried out at the cost of contractor to ascertain, if the portion of structure wherein concrete represented by the sample has been used, can be retained on the basis of results of individual or combination of these tests. The contractor shall take remedial measures necessary to retain the structure as approved by the Engineer-in-Charge without any extra cost. However, for payment, the basis of rate payable to contractor shall be governed by the 28 days cube test result and reduced rates shall be regulated in accordance with para 5.4.10.5 D (D-3) of CPWD specifications 2019.

Laying of RMC concrete-All ready mixed designed concrete shall be laid with the help of concrete pump of adequate capacity.

3.2 Transportation, placing and Compaction of Concrete

Mixed concrete from the RMC shall be transported to the point of placement by transit mixers and placed in position through concrete pumps and/or steel closed bottom buckets capable of carrying minimum 0.6 cum concrete is proposed to be transported by transit mixer, the mixing speed shall not be less than 4 rev/min. of the drum nor greater than a speed resulting in a peripheral velocity of the drum 70 m/minutes at its largest diameter. The agitating speed for the agitator shall neither be less than 2 rev/min nor more than 6 rev/min of the drum. The numbers of revolution for a uniform mix, after all ingredients, have been charged into the drum unless tempering water is added, all rotation after 100 revolutions shall be at agitating speed of 2 to 6 rev/min and the number of such rotations shall not exceed 250. The general construction of transit mixer and other requirement shall conform to IS: 5892.

4 PRE-CAST RCC WORK

- 4.1 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.
- 4.2 Pre-cast units shall be clearly marked to indicate the top of member and its locations.
- 4.3 Pre-cast units shall be stored, transported and placed in position in such a manner that these are not damaged.

5 SANITARY INSTALLATIONS, WATER SUPPLY AND DRAINAGE

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.

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.

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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.

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.

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.

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.

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.

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.

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. **WATER PROOFING TREATMENT**

The contractor shall associate himself with the specialized firm, to be approved by the Engineer-in-charge in writing, for water proofing treatment for basement/lower ground floor, underground tank and on roofs. A Noterized Guarantee Bond on stamp paper of Rs. 100/- should be submitted in the prescribed proforma attached with tender document shall be given by the specialized firm, for a period of 10 years from the date after the maintenance period prescribed in the contract, which shall be counter signed by the contractor as token of overall responsibility. In addition 10% (ten percent) of the cost of water proofing items shall be retained as guarantee to watch the performance of the work done. However half of this retained amount will be released after five years, if the performance of the work done is found satisfactory. If however any defect is noticed during the guarantee period, it shall be rectified by the contractor within seven days of intimation. In case it is not attended to, the same will be got done by another agency at the risk and cost of the contractor. This guarantee deposit can however be released in full if a bank guarantee of equivalent amount for 10 years is produced and deposited with the department by the contractor.

7. **Water Supply & Sanitary Installation:**

A Notarized Guarantee Bond on stamp paper of Rs. 100/- should be submitted by the contractor in the prescribed proforma attached with tender document for performance of water supply & sanitary installation work. In addition 5% (Five percent) of the cost of water supply & sanitary installation items shall be retained as guarantee to watch the performance of the work done. Which shall be released after 02 (Two) year to be reckoned from the date after the expiry of maintenance period prescribed in the contract, if the performance of the work done is found satisfactory.

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SPECIAL CONDITIONS

1. The contractor shall not store/dump construction material or debris on metalled road.
2. The contractor shall get prior approval from Engineer-in-Charge for the area where the construction material or debris can be stored beyond the metalled 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. The contractor shall ensure that C&D waste is transported to the C&D waste site only and due record shall be maintained by the contractor.
8. The contractor shall compulsory use of jet in grinding and stone cutting.
9. The contractor shall comply all the preventive and protective environmental steps as stated in the MoEF guidelines, 2010.
10. The contractor shall carry out on-Road-Inspection for black smoke generating machinery. The contractor shall used cleaner fuel.
11. The contractor shall ensure that the DG sets comply emission norms notified by MoEF.
12. 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.
13. 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.
14. No extra payment shall be done for leveling course, if required any, to match finished level of floorings of different materials and thickness as per direction of Engineer-in-Charge.
15. During the execution of work, the finished items i/c tile works, granite work, marble work, kota stone and all other items shall be protected from damages/scratches/broken/dicolour etc. by using suitable materials as per direction of Engineer-in-Charge till the completion/handing over of building to user department.
16. **The contractor has to be submit a affidavit/certificate from the owner of the hot mix plant for procurement of bitumen from the supplier/distributor of the company IOC/HPCL/BPCL or any other primary supplier/distributor for this work.**
17. If agency does not conduct/submit the mix design report obtained from the government institute for this work and instead wishes to use mix design provided by this office. A nominal recovery of Rs. 40,000/- will be made from the running account bill of the agency.
18. No extra payment will be made for operation/activity mentioned at Sl. No. 1 to 17 above.

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**LIST OF MACHINERY, TOOLS & PLANTS TO BE DEPLOYED BY THE
CONTRACTOR AT SITE AS & WHEN REQUIRED – AS SCOPE OF WORK**

Sl. No.	Name of Equipment		Numbers
1	Excavators (various sizes)		Nil
	Equipment for hoisting & lifting		
1	Tower Crane		Nil
	Equipment for Concrete work		
1	Semi-Automatic batching plant as per direction of Engineer-in-Charge		1 No.
2	Concrete pump (Desirable)		Nil
3	Concrete Transit Mixer		Nil
4	Concrete mixer (diesel)		1 No.
5	Concrete mixer (electrical)		Nil
6	Needle vibrator (electrical)		1 No.
7	Needle vibrator (petrol)		1 No.
8	Surface vibrator		1 No.
	Equipment for Building work		
1	Bar bending Machine		1 No.
2	Bar cutting machine		1 No.
3	Drilling machine		Nil
4	Wall grooving machine for chase cutting		Nil
5	Welding machine i/c transformer		Nil
6	Rig machine		Nil
7	Cube testing machines		1 No.
8	M.S. pipes	As per requirement but not less than 2.0 times plinth area of a typical floor or as directed by Engineer-in- Charge	---
9	Steel shuttering		---
10	Steel scaffolding		---
11	Grinding/polishing machines		1 No.
	Equipment for transportation		
1	Tippers		Nil
2	Trucks		Nil
	Pneumatic equipment		
1	Air compressors (diesel)		Nil
	Dewatering equipment		
1	Pump (diesel)		Nil
2	Pump (electric) (Desirable)		Nil
	Power equipment		
1	Diesel Generator (minimum 200 KVA)		Nil

- Note:** 1. The above list is only indicative and not exhaustive. The Bidder may be required to deploy more T&P as per requirement of work.
2. All the above plants & equipments are to be deployed as and when required or directed by Engineer-in-Charge.

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LIST OF PREFERRED MAKES FOR CIVIL WORKS

Approved makes of materials to be used in the work are as under. In case of non-availability of these makes, the Engineer-in-charge may allow use of alternative BIS makes of materials in the work. Non BIS marked materials may be permitted by the Engineer-in-charge.

Sl. No.	Material description	Proposed make list
1	Acoustic Wall Paneling	
	i) Wooden Slats Panels	Armstrong, Gyptech, Anutone, BSR Calsi Ceilings, Bollard, Tranquil
	ii) Puffed Fabric Finish Panel	Armstrong, Gyptech, Anutone, Bollard, Tranquil
2	Aluminium section	Hindalco, Jindal, Indian Aluminium Co.
3	Aluminium shuttering	Knest, S-form, Durand forms (India) Pvt. Ltd, Mivan, Pabors
4	Aluminium Composite Panel 4 mm thick 'B1' Fire rated (external grade)	Viva, Alstone, Eurobond, Wonder Alu Board, Alex, Aldeko
5	Anodized aluminium hardware	Alualpha, Global, Classic, Ebco
6	AAC Block	MAX Blocks, Biltech ACE, UltraTech, Garvit, HIL
7	Adhesive -AAC block Adhesive	UltraTech, Ferrous Crete, JK Cement, Saint Gobain Weber, Ardex Endura, VURA, Berger, Astral
8	Adhesive -Tile Adhesive Grouts	STP Ltd, Kajaria, BASF, Ardex Endura, JK White, Don Construction Chemicals India Pvt. Ltd., JK Cement, Vura, Berger, Astral, Trimurti
9	CPVC Pipe & fitting	Astral, Superme, Raksha, Ashirwad, Prayag Polymers, Birla HIL, AKG, Kothari, Sparsh Pearl
10	Cement (PPC/OPC)	ACC, Ultratech, Shree Cement, JK Cement, Century Cement, Prism Cement, Ambuja
11	Cement (White)	Birla White, J.K. White.
12	Centrifugally Cast (Spun) Iron Pipes & Fittings /Hubless pipes & fittings	NECO, Kapilansh, RPMF, SKF
13	a) CP brass bath fittings (Standard)	Jaquar (Essco), CERA, Johnson. Parryware, Euronics, Asian Paints (EssEss), Kerovit (Kajaria), Essel, RAK, Hindware Limited (Italian), Somany, Prayag, Astral, Sparsh Pearl
	b) CP brass bath fittings (Premium)	Jaquar, Grohe, Kholer, Essel, Roka. Hindware Limited (Queo), Asian Paints (Bathsense), Sparsh Pearl
14	DGU Glass	Gold Plus, Shankar Fenestration Glasses, Olumpus Toughened
15	Distemper- 1st quality acrylic distemper (washable/ ready mix / Low VOC)	Asian Paints (Tractor Aqua Lock Paint), Berger: Bison lite ICI-Dulux, JK MaxX (Jumbo)], Birla Opus Prime (D-20)
16	Dash fasteners /Anchors	Hilti, Bosch, Fischer, Wuerth
17	DI Pipes & fittings	Jindal, Electro steel, Tata Ductura, Kapilansh
18	Elastomeric Liquid W.P. membrane with acrylic polymer	Tikidan (Tiki Aquoseal ARR), Pidilite, MYK Arment, Berger, Astral, Technicol
19	Extruded polystyrene insulation board	Dowcorning, Supreme, Analco, Tikidan (DANOPREN Range), Technicol
20	False Ceiling System	
	i) GI Sections for frame work of Gypsum/ Calcium Silicate board	Saint Gobain, Hi-Steel, USG Boral, Western, BSR Calsi Ceilings
	ii) T-grid of GI powder coated for	Saint Gobain, Hi-Steel, USG Boral, Armstrong, Bollard, Royal

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	Mineral / perforated Gypsum / Calcium Silicate / Metal/ Glass tiles /GRG ceiling	Kraft, BSR Calsi Ceilings
21	False Ceiling Tiles	
	i) Perforated GRG tiles	Saint Gobain, USG Boral, Armstrong, Gyptech, Anutone , BSR Calsi Ceilings
	ii) Mineral Fiber tiles	Saint Gobain, Hi-Steel, USG Boral, Armstrong, Anutone
	iii) Glass Fiber Reinforced Gypsum tiles	Saint Gobain, Anutone, BSR Calsi Ceilings
	iv) Metal tiles	Saint Gobain, Hi-Steel, USG Boral, Armstrong, Gyptech, Bollard, Royal Kraft, BSR Calsi Ceilings, Tranquil
	v) Calcium silicate tiles	Aerolite, Ramco Hilux or equivalent
22	Fire rated doors	Signum fire protection, Shakti Metdoor, Navair, Promat, Bhawani Fire, Asahi, Supreme Metwood
23	Fire rated stainless steel fittings	Geze, Dorma, Ozone, Dorset, KICH & KICH PR
24	Fire rated glass	AIS, Hero Fire S, Schott, Sanit Gobain, Asahi
25	Floor hardener	Ironite, Perma, STP Ltd., MYK Arment, Berger, Astral
26	Floor spring & door closer	Godrej, Dorset, Ozone, Dormakaba, Geze, KICH & KICH PR
27	Flooring (Epoxy, PU Flooring, Anti-Static, Terrazzo, Car Park Deck, Self-levelling compound)	Beger or equivalent.
28	Flush door shutters	Century, Durian, Green Ply, Jayna (Jain wood Industries), Archidply, Black Cobra
29	FRP doors shutters & frame	Jayna, Fiberways, Jain doors Pvt. Ltd.
30	FRP Drain cover & frame	Dudhi, NECO or equivalent
31	GI Sections for Dry Wall Cladding / Partition	Western or equivalent
32	Gypsum plaster	Ferrous Crete, Dudhi, Gyproc Saint Gobain, Ultra Tech, JK Cement 'Gypso MaxX', Western, Aneeb, Trimurti
33	Glass (Clear/ Float/ Frosted/ Refractive Glass/ Tinted/ Lacquered)	Saint Gobain, AIS, Modiguard, Gold Plus, Shankar Fenestration Glasses,
34	Glass -Mirror glass	Atul, Modi Guard, Golden Fish, Gold Plus
35	Glass Wool	Dow Corning, UP Twiga, Isover
36	Hand dryer	Euronics or equivalent
37	HDPE Pipes	Reliance, Jain Pipes, Raksha, Supreme, Kothari, Prayag, Astral
38	HDPE /PVC Membranes for water Proofing	Asian Paints, Berger, Pidilite, MYK Arment, Technonicol
39	HDHMR Board	Black Cobra or equivalent
40	Hessain Based Bituminous Felt	MAK Felt 46 Kg, STP Ltd. or equivalent
41	Laminates	Action TESA, Greenlam, Century Ply, Archidply, Durian, Black Cobra
42	Laminated Glass	Gold Plus, Shankar Fenestration Glasses, Olumpus Toughened
43	Matting's (Trapper, carpet, Aluminium Dust – Buster)	Euronics or equivalent
44	MS Tubular windows	Navair, Sukriti, Jangid Engineering Works
45	Melamine polish	Asian Paints melamine gold, Wudfin of Pidilite, Timbertone of ICI Dulux. Birla Opus Allwood
46	Manhole covers – (CI Manhole covers, frames and Gratings)	NECO, SKF, RPMF, Kapilansh, Astral
47	Manhole covers – (SFRC Manhole	KK, JAIN, Pargati

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	covers, frames and Gratings)	
48	Modular Kitchen	Godrej, Evok by Hindware, Glanz
49	Modular Expansion Joint	Herculus, MNR, Sanfield India Ltd, DECG (FRANO), Vexcolt, Pinnacle Solutions, V.R. Engineer
50	Pressed Steel door frames	Navair, Sukriti, Jangid Engineering Works
51	Plywood / Veneer	Greenply, Durian, Century, Archidply, Black Cobra
52	Multicell Polycarbonate Sheet	GE Plastic, LEXAN, MG Polyplast, Danpal
53	Profile steel sheet	Ezydeck of TATA, Lloyd Superdeck, JSW, Jindal
54	Particle board	Action TESA, Merino, Archidply, Greenlam
55	Paver block & Kerb stone	Pavcon, Mayur, KK, Power, Navya
56	Paint -Acrylic emulsion	Asian Paints: (Premium Interior Emulsion Paint), Nerolac: Beauty Gold, Berger: Rangoli Total Care, ICI Dulux: Super Cover, JK MaxX (Trendz), Birla Opus Prime (I-50/Calista Everclear), JSW Paints (Profect/Pixa Elegant Interior)
57	Paint-Premium acrylic	Asian Paints: (Royale Luxury Emulsion), Nerolac: Impression, Berger: Silk, ICI Dulux: Velvet Touch, JK MaxX (Majesta), Birla Opus Prime (One Pure Elegance), JSW Paints (Halo Majestic Emulsion)
58	Paint-Plastic emulsion	Asian Paints (Apolite), Nerolac: Impression, Berger (easy clean), ICI Dulux 3in 1, Birla Opus Prime (I-50/Calista Everclear), JSW Paints (Profect/Aurus Regal Interior)
59	Paint -Textured Exterior Paint	Asian Paints, Nerolac, Luxture, Berger Paints, JK MaxX Paints, Birla Opus Prime, UTTPPL, JSW Paints Textured
60	Paint -Acrylic smooth exterior paint	Asian Paints: (Apex), Nerolac: Excel Super, Berger: Weather Coat, ICI Dulux: Weather Shield, JK Armour, Birla Opus Prime (E-30/E-50/ Calista Neo Star), JSW Paints (Profect/Aurus Regal Exterior)
61	Paint -Premium acrylic smooth exterior paint with silicon additive	Asian Paints: Apex Ultima, Nerolac: Excel Total Super, Berger: Long life7, ICI Dulux : Weather Shield Max, JK MaxX (Maximo), Birla Opus Prime (E-70/One True Look), JSW Paints (Profect/Halo Majestic Ext)
62	Paint -Synthetic Enamel Paint	Asian Paints: Apolite Premium Gloss Enamel, Nerolac: Synthetic Hi gloss, Berger: Luxol Hi gloss, ICI Dulux: Gloss Synthtic enamel, JK MaxX (JK Enamlo), Birla Opus Prime (N-52/N-53/ Sparkle Gloss/ Style Cover Max), JSW Paints (Profect Hi Gloss)
63	Primer-Cement Primer	Nerolac, Berger (BP white), Asian (Decoprime WT), ICI (White primer), JK MaxX (JK Primera), Birla Opus Prime (I-10/Calista Pro Hide), JSW Paints (Profect Classic Eco)
64	Primer -Steel primer (Red Oxide Zinc Chromate Primer)	Asian Paints, Nerolac, Berger, ICI, JK MaxX, Birla Opus – (Red Oxide Primer / CMP RO Primer/ SGE RO Primer), JSW Paints
65	Primer -Wood primer	Asian Paints, Nerolac, Berger, ICI, JK MaxX, Birla Opus, JSW Paints
66	Paint- Epoxy paint	Asian Paints, Nerolac, Berger, ICI, JK MaxX, Birla Opus
67	Paint- Fire retardant paint	Asian Paints, Akzo Nobel, Wuerth Promat, JK MaxX, Birla Opus
68	PVC Water Tank	Syntex, JS Polyplast, Prayag, Astral, Vectus
69	PVC/WPC Jali	Black Cobra or equivalent
70	PVC Flushing Cistern	Sparsh Pearl or equivalent
71	PVC Seat Cover	Sparsh Pearl or equivalent
72	PTMT fittings	Shakti, Prima, Raksha, Prayag Polymer, Vectus, Sparsh Pearl
73	Pipe-GI/MS Pipe	Tata, Jindal (Hisar), Prakash Surya

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74	Pipe Fittings -GI	Unik, AVR, Zoloto
75	PVC door shutter and frame	Rajshri, Sintex, Jain Door Pvt. Ltd., Black Cobra
76	Polyurea coating for Water Proofing	Asian Paints, Berger, Pidilite, MYK Arment, Technonicol
77	Polyurethane over deck insulation foam	Berger, Technonicol or equivalent
78	Ready Mix Concrete (RMC Plant)	RMC India, Ultratech Concrete, ACC Ready Mix, AVR M India Pvt. Ltd.,
79	Reinforcement- (Steel TMT bars)	SAIL, Tata Steel, Rashtriya Ispat Nigam Ltd. (RINL), JSW Steel Ltd, Jindal Steel & Power Ltd
80	Stainless steel railing, Accessories etc.	Jindal, Dormakaba, Ozone, Godrej, Hardwyn, KICH & KICH PR
81	SS fittings for doors & window	Jindal, Dormakaba, Global, Dorset, Godrej, Ozone, Geze, Prayag, KICH & KICH PR
82	Sealant-(Silicon based water repellent/ weather sealant)	Dow Corning, Waker, BASF, Pidilite (Dr. Fixit / Roff). STP Ltd., Makphalt, Tikidan (Tiki Siliseal / Tikiseal PU Range), MYK Arment, Berger
83	Sealant (Poly-Sulphide)	Fosroc, Pidilite (Dr. Fixit/Roff), CAC, BASF, Sika, Makphalt, Tikidan (Tiki Polyseal Range), MYK Arment, Berger
84	SW Pipes (BIS approved)	Anand, Parry, Perfect
85	a) Sanitary ware, fittings & accessories (Standard)	Jaquar (Essco), CERA, Johnson. Parryware, Euronics, Asian Paints (EssEss), Kerovit (Kajaria), Essel, RAK, Hindware Limited (Italian), Somany
	b) Sanitary ware, fittings & accessories (Premium)	Jaquar, Grohe, Kholer, Essel, Roka. Hindware Limited (Queo), Asian Paints (Bathsense),
86	Soap & Paper dispenser	Euronics, Jaquar, Essel, Kholer, KICH & KICH PR, Sparsh Pearl
87	Stainless steel Grab Bars & Rails	Euronics, Jaquar, Essel, Dormakaba, KICH & KICH PR
88	Stainless Steel grating	Neer, Asian Paint, Essel, Euronics, Sparsh Pearl
89	Stainless steel sink	Neelkanth, Niralli, Essel, Jayna, Plato, Prima, Prayag
90	Tiles- Mosaic tiles/ Chequered Tiles	Ultra Tiles, Nitco, Pavcon
91	Tiles- Glazed Ceramic	Kajaria, Johnson, Somany, RAK, Nitco, Aparna Vitero, Italica, AGL
92	Tiles- Vitrified Tiles (Antiskid / Matt / Glazed)	Kajaria, Johnson, Somany, RAK, Nitco, Aparna Vitero, Italica, AGL
93	Tile Grouts	MYK Arment, Aneeb or equivalent
94	Toilet Cubicles	Merino (Titan Series), Century, Greenlam (Sturdo Classic)
95	Toughened Glass	Gold Plus, Shankar Fenestration Glasses, Olumpus Toughened
96	uPVC door/ window / ventilator	Fenesta, Veka, Duroplast, Aluplast, Prominace, Koemmerling, AdvikaFenster, Okotech [IS:17953:2023], Eumax [IS 17953: 2023], Yashpoly (IS 17953:2023), Pabros, Rajshri
97	uPVC doors and window hardware	Roto, Dorset, GEZE
98	uPVC pipe and fittings	Astral, Supreme, Raksha, Ashirwad, Prayag Polymers, Birla HIL, AKG, Kothari, Sparsh Pearl
99	Water proofing compounds, (admixtures, plasticizer, super plasticizer, curing compounds)	Fosroc, ROFF/Dr. Fixit (Pidilite Industries), CAC, Perma, Sika, BASF, STP Ltd., Tikidan (Danomix Range), Birla Opus Prime, Penetron, MYK Arment, Berger, Aneeb, Technonicol
100	Water proofing compound (Integral) (with cement for plaster & mortar)	Fosroc: Conplast 421, CAC, Perma, Dr. Fixit : LW+, Sika: Sikacim, STP Ltd., Tikidan (Danomix LW Range), Birla Opus Prime, Penetron, MYK Arment, Berger, Aneeb, Technonicol
101	Water proofing compound (for bathroom/ toilet /balcony & other	Fosroc: Bush Bond, Dr. Fixit : Pidifine 2K, Asian Paints: Damp Block 2K, Perma, CICO: Tapecrete, STP Ltd., Tikidan

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	wet areas)	(Danocrte Range), Birla Opus Prime (C2K, C2K+), MYK Arment, Berger, Aneeb, Technonicol
102	Water proofing compound (Crystalline)	Fosroc: Bushbond TGP, CAC, Dr. Fixit : Dr. Fixit Krystalline, Sika: Sika 101h, Perma, STP Ltd., Tikidan (Tikicryst-BC Range), Penetron, MYK Arment, Berger, Aneeb, Technonicol
103	Water Proofing Coatings (Polyurethane, Polyurea, Acrylic Cementitious, SRI Coating, Food grade epoxy coating, Coal tar epoxy, Silicone water repellent coating)	Berger, Aneeb, Technonicol or equivalent
104	WTP -MBBR Reactor, Multigrade Filter and Activated carbon Filter	Degremont, OSDPL, Thermax & Ion Exchange
105	WTP- MBBR Media	Cooldeck, MM Aqua, Eco Aqua & Ion Exchange
106	WPC door shutter and frame	Alstone, Jamex, Rajshri, Plasto Green, Black Cobra
107	Wall putty (cement based)	Asian Paints, Birla Wall Care, Trimurti, JK White, Dudhi, Wonder, JK Cement (JK wall MaxX), JSW Paints (Profect)
108	WPC Board	Jamex, Alstone, Rajshri, Black Cobra

Note : Contractor shall provide applicable warranty of the products/materials being used in the work to the Engineer-in-Charge at time of approved of the product/material & contractor shall finally submit warranty taken from the manufacturer to Engineer-in-Charge for record.

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ANNEXURE-A

TIME LIMIT FOR ATTENDING VARIOUS TYPES OF COMPLAINTS

S.No.	Type	Sub Category	Nature of Complaint	Time limit in Hours (Min.)	Time limit in days (Max)	Remarks
1	Emergency	Emergency	Drain blocked (inside House)	6	1	
2	Emergency	Emergency	Flush overflow/Water over flowing	6	1	
3	Emergency	Emergency	Pipe Leaking (inside House)	6	1	
4	Emergency	Emergency	W.C. blocked (inside House)	6	1	
5	Normal	Carpenter	Cup board/Almirah Repair	24	3	
6	Normal	Carpenter	Door bolt faulty	24	3	
7	Normal	Carpenter	Glass pane broken	24	3	
8	Normal	Carpenter	Glass shelf broken	48	7	
9	Normal	Carpenter	Looking mirror change	48	7	
10	Normal	Carpenter	Sliding Door to be fixed	24	3	
12	Normal	Carpenter	Towel rod to be replaced	48	7	
13	Normal	Carpenter	Towel bolt faulty	24	3	
14	Normal	Carpenter	Wire mesh broken	24	3	
15	Normal	Mason	Brick work repair	48	7	
16	Normal	Mason	Change of W.C., seat, seat cover	48	7	
17	Normal	Mason	Flooring Repair	48	7	
18	Normal	Mason	Leakage in Drain Pipe	48	7	
19	Normal	Mason	Leaking Roof	24	3	
20	Normal	Mason	Misc. Mason works	48	7	
21	Normal	Mason	Plaster repair	48	7	
22	Normal	Mason	Vegetation to be removed from roof & walls	48	7	
23	Normal	Plumber	Ball cock to be fixed change	24	3	
24	Normal	Plumber	Basin waste pipe broken	24	3	
25	Normal	Plumber	Coupling of sink is defective	24	3	
26	Normal	Plumber	Drain jail replacement required	24	3	
27	Normal	Plumber	Flush not working	24	3	

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28	Normal	Plumber	Leakage in water pipe line (Inside House)	48	7	
29	Normal	Plumber	No water in Kitchen and bathroom	24	3	
30	Normal	Plumber	No water in WC	24	3	
31	Normal	Plumber	Overflow in storage tank on the roof	24	3	
32	Normal	Plumber	Pipe Leaking (Outside House)	36	5	
33	Normal	Plumber	Repairs to water supply fittings	36	5	
34	Normal	Plumber	Shower broken/dismantled	24	3	
35	Normal	Plumber	Sink waste pipe broken	24	3	
36	Normal	Plumber	Sink/Wash basin broken	36	5	
37	Normal	Plumber	Over head tank cover	24	3	
38	Normal	Plumber	Water not reaching in overhead tank	24	3	
39	Normal	Plumber	Water pipe line Leakage	24	3	
40	Normal	Road work	Malba to be removed	48	7	
41	Normal	Road work	Road Grass to be cut	48	7	
42	Normal	Sewer Man	Drain Blocked (outside House)	24	3	
43	Emergency	Sewer Man	Manhole Cover Missing	12	2	
44	Normal	Sewer Man	Sewer man required	12	2	

Note :- Time limit as referred above shall be reckoned since date and time of assigning the complaint to Contractor.

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SPECIAL CONDITIONS FOR DAY TO DAY MAINTENANCE WORKS

1. ~~The contractor or his authorized representative shall attend the CPWD service centre daily at 9.00 AM positively in all working days except holidays for collecting complaints from the Junior Engineer in charge or communication issued by Engineer in charge or his authorized representative.~~
2. ~~The contractor shall be responsible for attending complaints within time limit as mentioned on page 50 after receiving complaints or communication by Engineer in charge or his authorized representative. Penalty shall be imposed @ 200/- per day per complaint after notice if there is any delay in attending the complaint beyond the schedule period. as annexure A The contractor shall also return the complaint slip daily to the representative of Engineer in charge after attending the complaint duly sign by the allottee. (The Schedule for attending different types of complain shall be as per Annexure A~~
3. ~~The contractor shall submit detailed measurement sheet to the Junior Engineer concern for verification in every two months.~~
4. ~~The contractor shall arrange all necessary T & P which shall be required for his skilled and unskilled labour for attending the complaints.~~
5. ~~The cleaning of choked sewer lines, manholes, gully traps, storm water drains within and around the buildings/ blocks shall be part of day to day maintenance under the relevant items.~~
6. ~~The contractor shall also attend complaints related to the repair and maintenance of water supply pipe lines including G.I./C.I. lines up to 150 mm diameter under the relevant items.~~
7. ~~The contract can be closed at any time by giving a notice of one month if performance of the contractor for the maintenance of the campus in not found satisfactory.~~
8. ~~The contractor should inspect the buildings every week to ascertain whether any leakage/seepage exists in the buildings. The fact of such inspection shall be recorded jointly by J.E. and contractor in the inspection register for their removal and which can be reviewed by higher officers.~~
9. ~~A certificate indicating numbers of pending seepages/leakages complaints received as above shall be recorded by the J.E. and contractor along with the other pending complaints at the end of each month.~~
10. ~~All rubbish, malba, etc. received during execution of work should be disposed off into the dust bins, municipal dumping place or any other place as directed by the Engineer in charge.~~
11. ~~Contractor has to clean roof terrace of buildings in the campus before rainy season No payment will be made in this account.~~
12. ~~The contractor shall provide one coordinating personel for collection, lodging and successfully got attending the complaints with full co-ordination with Junior Engineer (In-charge), workmen and complainant/allottee/user etc. He shall maintain the Complaint Registers, workers diaries and related documents from 9:00 A.M. to 5:00 P.M. daily without fail. Coordination personel shall also visit whole area/campus under maintenance and surrounding along with Junior Engineer (In-charge) for assisting in preventive Maintenance of the whole campus/area under the Agreement. Nothing extra shall be paid on this account.~~
13. ~~The contractor shall be responsible for cleaning, sweeping of all roads, surrounding of residential blocks, courtyards, and disposal of garbage, malba etc. on daily basis without considering any type of holidays. Otherwise penalty shall be imposed @ Rs. 1000/- per day basis.~~

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14. ~~The contractor shall provide all T&P and trolley etc. as required to the sweeping staff. Nothing extra shall be paid on this account.~~
15. ~~The contractor shall have to carry out the work other than day to day maintenance according to programme given by the Engineer in Charge or his representative. The contractor shall not carry out any work in any building without permission of Engineer in Charge. The contractor shall adhere to this programme failing which he shall be wholly responsible. No claim for idle labour on any account shall be entertained. The contractor shall depute his representative daily to the site of work. His name and signature shall be attested by the contractor for record in the department.~~
- (i) ~~The premises and portions of premises where the work is to be executed on any day shall be got approved from the representative of Engineer in Charge at the site of work in writing. No work shall be carried out in any premises without the approval of the representative of the Engineer in Charge.~~
 - (ii) ~~Any work carried out without the approval of the representative of the Engineer in Charge at the site of work shall be liable to be rejected and will not be measured and paid for.~~
 - (iii) ~~The material such as paints, varnish, distempers, water proofing cement paint and primers etc. as required shall be of approved brand and manufacturers, and of required shade and conforming in all respects to the relevant I.S. specifications.~~
 - (iv) ~~The manufacturing date and batch No. inscribed or printed on packs/containers by manufacturers are only acceptable for all the above said materials. Fresh material shall be brought at site as far as possible. The material shall be used within its self life as prescribed by the manufacturer. Any material which has out lived its life shall not be permitted to be used in the work and removed immediately from the site. The decision of the Engineer in Charge shall be final & binding.~~
 - (v) ~~The contractor shall get the shades of all types of paints, distemper, water proofing cement paint etc. approved from the Engineer in Charge before procurement of materials.~~
 - (vi) ~~The paints/other material shall be issued by the Junior Engineer/Assistant Engineer to the contractors after breaking the seal of the containers/packing and quantity to be issued shall be as per the daily requirement at the site. After day's use balance quantity of paints etc., if any left, will be returned by the contractor to the Engineer in Charge or his representative. After use the empty container shall have to be returned to the Engineer in Charge or his representative and will not be disposed off till the completion of the work.~~
 - (vii) ~~The site for the collection and stacking of the material shall be got approved from the Engineer in Charge. The contractor will stack at any place other than the approved site.~~
 - (viii) ~~Nothing extra shall be paid to the contractor for excess consumption of material.~~
 - (ix) ~~The contractors shall quote their rates inclusive of all taxes, cartage, royalties etc, complete.~~
 - (x) ~~The contractor shall prepare one sample of item which shall be got approved from the Engineer in Charge. Only on acceptance of sample work, contractor will be allowed to commence the work and sample is to be preserved with the JE in Charge of work till the whole work is completed. The quality of entire work should conform to the approved samples.~~
 - (xi) ~~Contractor shall take daily instructions. A register will be maintained at the Enquiry premises for this purpose. The JE will note down the work in office to be attended to and the dates on which the work in these office is to be started. An authorized representative of the contractor will, therefore, have to visit the Enquire Office daily and~~

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note down the instructions in the register.

- (xii) ~~The contractor and/or his authorized agent should see the site order book every day and get the compliance noted by the Junior Engineer/Assistant Engineer/Engineer in Charge.~~
- (xiii) ~~All the items of work in a quarter/flat shall have to be taken up sequentially i.e. after the patch repairs are carried out, white/colour washing will be taken in the same quarter and thereafter painting shall have to be got completed.~~
- (xiv) ~~All the malba or rubbish obtained from dismantling or otherwise during the execution of the work shall be brought down through the staircase and shall not be thrown to the ground directly from first floor or second floor etc. This shall be carried and stacked properly to the specified common designated place on the same day and site shall be left clear as per the instructions of the Engineer in Charge. A compensation of Rs. 1000/- shall be levied from the contractor for each complaint/default/per day.~~
16. ~~The Contractor shall take immediate action to attend any complaint received on CPWD Sewa Website or assigned to him through Site Order Book/verbal instructions from Engineer in charge or on Telephone/ CPWD SEWA from occupants. Contractor shall endeavor to attend the complaints within the stipulated Time Frame as mentioned in CPWD Sewa Portal.~~
17. ~~Main agency shall ensure that the day to day complaints are attended timely and there is satisfaction among the allottees. In case there is default of not complying to the bench mark standard in respect of timely attending the complaints and satisfaction level then the Engineer in charge reserves the right to ask the main agency to replace the sub agency duly fulfilling the eligibility criteria.~~
18. ~~All required Registers will be arranged by agency itself duly marked in chronological order. Nothing extra shall be paid on this account.~~
19. ~~The Contractor will have to arrange all the required Computer, furniture etc. at his own cost pertaining to his job and he will take all these things back only after the expiry of the agreement for which nothing extra shall be paid.~~
20. ~~The Engineers, Supervisors and staff including skilled and unskilled workers of the agency shall carry mobile telephone(s) to enable the Engineer in charge to have easy and quick communication. Nothing extra shall be paid to the Contractor on this account and his quoted rates for various items under this contract will be deemed to be inclusive of the expenditure towards such Mobile connections and use thereof.~~
21. ~~Staff employed by the Contractor should be well behaved, polite & courteous. The worker will clean the place/site thoroughly before leaving the site while attending the complaints. Any complaint against staff on behavior will be taken seriously and such staff should be removed by the Contractor immediately from the site and arrange replacement for the same failing which the Engineer in Charge has to recover as per corresponding conditions in this NIT.~~
22. ~~Safety of the staff employed will be the responsibility of the Contractor. It shall be the prime duty of the Contractor to provide requisite safety equipments to all the workers and supervisors for their protection. CPWD will not be responsible for any mishap, injury/accident or death of the staff. No claim in this regard shall be entertained/ accepted by the department.~~
23. ~~Contractor shall be fully responsible for any damages caused to govt. property or allottee's property by his labour in carrying out the work and the damage shall be rectified/made good by the Contractor at his own cost.~~
24. ~~The Contractor shall maintain/stock sufficient quantity of materials and spares at site to meet the requirement of attending the complaints as per direction of the Engineer in charge. Stores/ bins if available shall be handed over to the Contractor for storing the material. The material management shall be operated with online/LAN system narrated above. No manual system shall be accepted.~~

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25. ~~Operations in which assistance shall be provided by the agency to the CPWD where the work is to be done by contractor's labour only:-~~
- ~~Assistance for occupation and vacation for the bungalows and visit of allottees.~~
 - ~~Informing to the CPWD engineers regarding the failure in any service being provided by other departments, in so far as they affect the assets being maintained under this contract, so that they can be taken up with the concerned local body/ department for rectification.~~
 - ~~Assisting the department in detection of unauthorized encroachments in the area being maintained.~~
 - ~~In case any vacant quarter or part of quarter or unit or part of unit of GPRA etc. is found to be occupied unauthorized **a recovery @ Rs. 5000/- (Rupees Five Thousand Only) per day per quarter / unit or part thereof**, shall be levied and the contractor will also be liable for action for loss caused due to theft or any other causes, and such shall be made good by the contractor at this own cost. The repetition of such instance may attract criminal action also.~~
 - ~~Contractor shall ensure the cleanness of vacant quarter(s) till the allotment & shall be fully responsible for its watch & ward till handing over to occupant(s).~~
 - ~~Contractor or his authorized representative shall be responsible for inventory like furniture, electrical items and ensure after the vacation of bungalow all the inventory items shall be in place.~~
 - ~~Contractor or his authorized representative shall ensure wet cleaning inside the bungalow area and dry cleaning outside the bungalow immediately after the vacation of bungalow by the allottee.~~
 - ~~Contractor or his authorized representative shall be responsible for Security and Safety vacant bungalow.~~
 - ~~Contractor or his authorized representative shall ensure connectivity/availability on mobile phone round the clock.~~
 - ~~Contractor shall provide alternate mobile/telephone no. for ease of communication, if so required.~~
 - ~~Contractor shall ensure to attend/respond to the individual complaints within the time prescribed in CPWD e-Sewa.~~
 - ~~Contractor shall follow the Department's Citizen Charter and Model Code of Conduct for workers behavior as decided by Engineer in Charge.~~
 - ~~The Contractor or his Engineer at the Service Centre shall also maintain Complaint register for recording the complaints.~~
 - ~~Contractor shall facilitate Visitors while they visit to Service Centre for lodging complaint in person.~~
 - ~~Complaints received telephonically, personally or through a mode other than "CPWD Sewa" shall be entered into CPWD Sewa and attended in the same manner as prescribed for the complaints received through CPWD Sewa.~~
26. ~~The contractor shall provide Cell Phone to each skilled worker for receiving and furnishing the compliance of complaints. The Cell Phone should be made compatible with e-Sewa.~~
27. ~~Necessary registers/complaint attendance books duly machine numbered and authenticated by Engineer in Charge shall be maintained by the contractor in respect of complaints received and shall be got signed by the allottees, after attendance. All complaints must be registered in E-Sewa and compliance shall also be recorded.~~

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**CONTRACT 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 otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Government the decision of the Engineer-in-Charge will be final and binding on the parties.

IN WITNESS WHERE OF these presents have been executed by the Obliger _____ and by _____ 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.

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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 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. _____

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(Guarantee offered by Bank to CPWD in connection with the execution of contracts)
Form of Bank Guarantee for Earnest Money Deposit /Performance 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 bids under (NIT number) 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 numberwith (name and address of the contractor)..... (hereinafter called "the Contractor") for execution of work..... .. (name of work)..... .. The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. (Rupees only) valid upto (date)..... **as Performance Guarantee/security Deposit/Mobilization Advance** from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.
2. We, (indicate the name of the bank) (herein after 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.
3. We, (indicate the name of the Bank) do here by 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. (Rupeesonly).
4. We, (indicate the name of the Bank), further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes 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 a valid discharge of our liability for payment there under and the contractor shall have no claim against us for making such payment.

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5. 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 forbear 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.
6. 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.
7. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor.
8. We, (indicate the name of the Bank) undertake not to revoke this guarantee except with the consent of the Government in writing.
9. This Bank Guarantee shall be valid up tounless extended on demand by the Government. Notwithstanding anything mentioned above, or 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 :

1. Signature Authorized signatory
 Name and address Name.....
 Designation.....
 Staff Code No.....
 Bank seal
2. Signature
 Name and Address

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Milestones of the Contract

Sl. No.	Description of mile stone	Period for completion from date of start in months	Withheld amount for non achievement of mile stone.
1	40% of tendered amount.	01.50 Months	02% of the accepted tendered value
2	100% of tendered amount.	03 Months	03% of the accepted tendered value.

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Schedule of Quantity

Name of work : Special repair at GPRA Gulmohar Vihar, Kanpur (SH: Water proofing treatment at roof in Type-III 02 block and repairing of chhajja).

Sl. No.	Description	Qty.	Unit	Rate	Amount
1	MASONRY WORK				
1.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
1.1.1	Cement mortar 1:6(1 cement : 6 coarse sand)	12	cum	9105.95	109271.00
2	ROOFING				
2.1	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.				
2.1.1	110 mm diameter	152	metre	377.40	57365.00
2.2	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS :5382, leaving 10 mm gap for thermal expansion.				
2.2.1	Bend 87.5°				
2.2.1.1	110 mm bend	16	each	150.35	2406.00
2.2.2	Shoe (Plain)				
2.2.2.1	110 mm Shoe	16	each	131.85	2110.00
2.3	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
2.3.1	110 mm	48	each	371.30	17822.00
3	Dismantling and Demolishing				
3.1	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in-charge.	16	cum	3551.25	56820.00
3.2	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
3.2.1	For thickness of tiles 10 mm to 25 mm	560	sqm	73.40	41104.00
3.3	Demolishing mud phaska in terracing and disposal of material within 50 metres lead.	560	cum	914.30	512008.00

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3.4	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.	560	cum	263.95	147812.00
4	WATER PROOFING				
4.1	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. "All above operations to be done in order and as directed and specified by the Engineer-in-Charge":				
4.1.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	576	sqm	1684.60	970330.00
4.2	Grading roof for water proofing treatment with				
4.2.1	Cement mortar 1:4 (1cement : 4 coarse sand)	4	cum	15155.60	60622.00
5	NEW TECHNOLOGIES AND MATERIALS				

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5.1	Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge				
5.1.1	25 mm average thickness	434	sqm	126.75	55010.00
5.2	Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge.				
5.2.1	Bars upto 12 mm diameter	4340	metre	8.25	35805.00
5.3	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer- In-charge complete in all respect.				
5.3.1	SBR Polymer (@10% of cement weight) modified cementitious bond coat @ 2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer	434	sqm	141.20	61281.00
5.4	Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge. Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75 mm size cube crushing strength at the end of 28 days to be not less than 30 N/Sqmm2).				
5.4.1	50 mm average thickness in 3 layers.	434	sqm	1174.70	509820.00
Total					2639586.00
Modified Estimated Cost after using correction factor on DSR 2023 on account of GST @ 0.973 *					2568317.00
Add Cost Index @ 5%					128416.00
Grand Total					2696733.00

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केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/Manual- 2024/22

ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Vidyut Bhawan, New Delhi

Dated: 23.03.2026

Sub: Modification in para 5.1.1 of CPWD Works Manual 2024.

Following Modification is made in para 5.1.1 of CPWD Works Manual 2024:

Existing Provision	Modified Provision
5.1.1 Necessity for Earnest money To safeguard against a bidder withdrawing or altering his/her bid during the bid validity period, earnest money shall be obtained from the bidders for all tenders unless otherwise mentioned in the tender documents.	5.1.1 Necessity for Earnest money To safeguard against a bidder withdrawing or altering his/her bid during the bid validity period, earnest money shall be obtained from the bidders for all tenders unless otherwise mentioned in the tender documents. (EMD shall be made / issued only from the account of the bidder / tenderer submitting the bid/tender. EMD made/ issued from the account other than that of the bidder/ tenderer submitting the bid, shall not be accepted

This issues with the approval of DG CPWD.

(चन्द्र पाल)
अधीक्षण अभियंता (सी.एंड एम.)

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Chander Pal, SE (C&M)

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

K.G. Bansal
EE (Manual)

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