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Certified that this NIT contains pages **1 to 102 (excluding covers)**.

This N.I.T. is approved for **Rs. 48,31,715/- (Rupees Forty eight lakh thirty one thousand seven hundred fifteen) Only.**

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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, Allahabad, C.P.W.D., Prayagraj** on behalf of President of India invites online Percentage rate bids from **approved and eligible contractors of Building & Roads Category in 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 others documents as per specification in the bid document.	Time & date of opening of bid
1	2	3	4	5	6	7	8
1	35/EE/ALLAHABAD/2026-27	Renovation of Prekshagrhi, Shilphaat, Kalavithika and Kala Bhawan of North Central Zone Cultural Centre at Allahabad. (SH:- Renovation of Kalavithika and General Toilet including Electrical works at NCZCC Campus Prayagraj.)	Civil:- Rs. 36,65,856.00 Electrical Rs. 11,65,859.00 Total: Rs. 48,31,715.00	Rs. 96,934.00	02 Months	Upto 03:00 PM on 24-09-2026	At 03:30 PM on 24-09-2026

- 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 Banker's 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 eMsigner on their system as per instructions available on download section of <https://etender.cpwd.gov.in>
7. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
8. Contractor can upload documents in the form of **JPG** format and **PDF** format.
9. 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. Enlistment Order of the Contractor
- II. Insurance Surety Bond, Demand Draft/ Account Payee Banker's Cheque / FDR/ Bank Guarantee of any commercial Bank against EMD.
- III. Receipt for deposition of original EMD issued from Division office of any Executive Engineer (including NIT issuing EE/AE), CPWD.
- IV. GST Registration Certificate if already obtained by the bidder.
If the bidder has not obtained GST registration as applicable, then he shall scan and upload following under taking along with bid documents.
"If work is awarded to me, I/we shall obtain GST registration certificate, as applicable, within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/we shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by CPWD or GST department in this regard".
- V. Photo copy of PAN Card.
- VI. ERP Training Certificate
- VII. Scan copy of Cancelled Cheque or Bank Details
- VIII. Valid Email ID & Mobile Number on your letter Pad.

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RECEIPT OF DEPOSITION OF ORIGINAL EMD

(Receipt No. / date))

Name of Work : **Renovation of Prekshagrih, Shilphaat, Kalavithika and Kala Bhawan of North Central Zone Cultural Centre at Allahabad. (SH:- Renovation of Kalavithika and General Toilet including Electrical works at NCZCC Campus Prayagraj.)**

1. NIT No. : **35/EE/ALLAHABAD/2026-27**

2. Estimated Cost : **Rs. 48,31,715/-**

3. Amount of Earnest Money Deposit : **Rs. 96,634/-**

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

4. Last date of submission of Bid : **24-09-2026**

1. Name of Contractor : #

2. Form of EMD #

3. Amount of Earnest Money Deposit #

4. Date of submission of EMD #

.....

Signature, Name and Designation of EMD
receiving officer (EE/AE(P)/AE/AAO) alongwith Officer stamp

* To be filled by EE inviting tender.

To be filled by EMD receiving EE.

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CPWD-6 FOR E-TENDERING

1. Percentage rate bids are invited on behalf of President of the India from approved and eligible contractors of CPWD for the work of **Renovation of Prekshagrih, Shilphaat, Kalavithika and Kala Bhawan of North Central Zone Cultural Centre at Allahabad. (SH:- Renovation of Kalavithika and General Toilet including Electrical works at NCZCC Campus Prayagraj.)**

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. 48,31,715/-** 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

2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 7/8 (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **02 Months** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. The site for the work "**NCZCC Prayagraj.**" is available.
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 or withdraw it before last date and time of submission of bid as notified. NO post-tender modification is allowed by the tenderers except through negotiations, if required. In case, any tenderer does so, the tender will be rejected and the tenderer will be debarred for future tendering in CPWD for two years by the concerned enlisting authority (in case

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of CPWD enlisted contractor) and by the concerned CE/SE (in case of non-enlisted contractor).

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, Allahabad Central Division, CPWD, Prayagraj**) 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, 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 24-09-2026**

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10. The bid submitted shall become invalid and e-Tender processing fee (if applicable) shall not be refunded if:
- The bidder is found ineligible.
 - He 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 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. **Description of the work is as follows; Renovation of Prekshagrih, Shilphaat, Kalavithika and Kala Bhawan of North Central Zone Cultural Centre at Allahabad. (SH:- Renovation of Kalavithika and General Toilet including Electrical works at NCZCC Campus Prayagraj.)**
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 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

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Government and local conditions and other factors having a bearing on the execution of the work.

13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Housing and Urban Affairs. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department
17. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
18. The bids for the work shall remain open for acceptance for a period of 30 (thirty) days from the date of opening of bids in case of single bid system and 75 (seventy-five) days from the date of opening of technical bids in case bids are invited in 2 or 3 bid system. Further
 - (i) If any tenderer withdraws his tender 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.
 - (ii) If any tenderer withdraws his tender 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.

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- (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 for CPWD 2014 as amended/ modified up to date.
- 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 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 incharge of minor component(s) shall operate Part- C alongwith Part A of the agreement.
- 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.

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- 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.
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 Assistant Engineer ([Phone no 9990297795](tel:9990297795), [e-mail Id aeacsd3@gmail.com](mailto:aeacsd3@gmail.com)) 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 NIT approving authority
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:-

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- (i) For work(s) upto and equal to an estimated cost of Rs. 2.80 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) (ii) For work(s) beyond an estimated cost of Rs. 2.80 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

- 23. The Contractor, whose contract is determined already for the above main / balance work, is not be allowed to participate in this bid.

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**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

CPWD-7

PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

(A) Tender for **Renovation of Prekshagrih, Shilphaat, Kalavithika and Kala Bhawan of North Central Zone Cultural Centre at Allahabad. (SH:- Renovation of Kalavithika and General Toilet including Electrical works at NCZCC Campus Prayagraj.)**

(i) To be uploaded by **03:00 PM** hours on **24-09-2026** at <https://etender.cpwd.gov.in>

(ii) To be opened in presence of tenderers who may be present at **03:30 PM** hours on **24-09-2026** in the office of **Executive Engineer, Allahabad , CPWD, Allahabad**

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.

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

We agree to keep the tender open for **thirty (30) days** from the due date of its opening and not to make any modification in its terms and conditions.

I/We have deposited EMD for the prescribed amount in the office of concerned Executive Engineer as per the bid document or Division office of any Executive Engineer of CPWD. **(Strike out as the case may be).**

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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Nil

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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 the 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)

SCHEDULE 'A'

Schedule of quantities – Civil (attached)

SCHEDULE 'D'

Extra schedule for specific requirements/document **As attached in tender form**
for the work, if any.

SCHEDULE 'E'

Reference to General
Conditions of contract :

Applicable GCC is **GCC Maintenance Work-2023** as modified & corrected upto previous day of the last date of submission of the tender.

Name of Work: Renovation of Prekshagrih, Shilphaat, Kalavithika and Kala Bhawan of North Central Zone Cultural Centre at Allahabad. (SH:- Renovation of Kalavithika and General Toilet including Electrical works at NCZCC Campus Prayagraj.)		
Estimated cost of the work:	Civil Work	Rs. 36,65,856.00
	Electrical Work	Rs. 11,65,859.00
	Total	Rs. 48,31,715.00
Earnest money	Rs. 96,634.00 (To be returned after receiving performance guarantee)	
Performance Guarantee	(a) 5% of the tendered value or Estimate Cost Put to Tender (ECPT) (whichever is higher) (b) Where the tender amount is less than eighty percent (80%) of the Estimate 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 of the work	

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SCHEDULE 'F'

GENERAL RULES & DIRECTIONS:

Officer inviting tender

**Executive Engineer, Allahabad,
C.P.W.D., Allahabad.**

Definitions:

2(v) **Engineer-in-Charge**
For Civil items of work

**Executive Engineer, Allahabad,
C.P.W.D., Allahabad.**

For Electrical items of work

**Executive Engineer (E), Allahabad,
C.P.W.D., Allahabad.**

2(vii) Accepting Authority

**Executive Engineer, Allahabad,
C.P.W.D., Allahabad.**

2(x) Percentage on cost of materials and labour to cover all overheads and profits 15. %

2(xi) **Standard Schedule of Rates:**

Civil Items of Work:

DSR-2023 inclusive Market Rate

Electrical Items of Work:

--

2(xii) Department:

Central Public Works Department

9(ii) Standard CPWD contract Form:

GCC 2023 for Maintenance Work, CPWD Form 7/8 as modified & corrected **upto last date of submission of tenders.** (Whether correction vide latest circulars are incorporated or not in this document).

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

04 Days

ii) Maximum allowable extension **with late fee @ 0.1% per day of Performance Guarantee amount beyond the period as provided in (i) above**

03 Days

Clause 2 Authority for fixing Compensation under Clause 2

Superintending Engineer, Allahabad, CPWD, Allahabad Or successor thereof

Clause 2 A Whether Clause 2A shall be applicable

No

Clause 5

Clause 5

Number of days from the date of issue of letter of

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acceptance for reckoning date of start

07 Days

Schedule of Mile Stone

S. No	Description of mile stone	Time allowed from date of start (in days/months.)	Amount to be with-held in case of non-achievement of milestone.
1.	Achieve 25% of the accepted tendered value.	15 Days	1% of accepted tendered amount.
2.	Achieve 50% of the accepted tendered value.	30 Days	1% of accepted tendered amount.
3.	Achieve 75% of the accepted tendered value.	45 Days	1% of accepted tendered amount.
	Complete Work.	60 Days	1% of accepted tendered amount.

Time allowed for execution of work

02 Months

(i) Authority to convey the decision of shifting of milestone and extension of time :

Engineer-in-charge or his successor thereof

(ii) Authority to decide rescheduling of milestone and extension of time

Superintending Engineer, Allahabad, CPWD, Allahabad or his successor thereof

(iii) Shifting of date of start in case of delay in handing over of site

Superintending Engineer, Allahabad, CPWD, Allahabad or his successor thereof

PROFORMA OF SCHEDULES Clause 5 Schedule of handing over of 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	100%	Along with letter of commencement
Part B	Portions with encumbrances	-	-
Part C	Portions dependent on work of other agencies	-	-
Clause 5A	Applicable Clause 5A		No
Clause 6	Mode of measurement		EMB
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		25.00 Lakh

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Clause 7A	Whether Clause 7A shall be applicable	Yes
Clause 8	Competent Authorities to inspect and issue completion certificate	EE ACD CPWD Prayagraj
Clause 10A	List of testing equipment to be provided by the contractor at site lab.	Page- 24 & 25
Clause 10 B (ii)	Whether clause 10-B (ii) shall be applicable.	No
Clause 10 C	Component of labour expressed as percentage of value of work	Applicable
Clause 10 CC		Not Applicable
Clause 11	Specification to be followed for execution of work: CPWD Specifications 2019 Vol. 1 and Vol. 2 with correction slips up to last date of submission of bids (Hereinafter called CPWD specifications also)	
Clause 16	Competent Authority for Deciding reduced rates:	Superintending Engineer, Allahabad, CPWD, Allahabad or successor thereof.
Clause 18	List of mandatory machinery, tools & plants to be deployed by the contractor at site.	Page-51
Clause 19C	Authority to decide penalty for each default.	Engineer-in-charge.
Clause 19D	Authority to decide penalty for each default.	Engineer-in-charge.
Clause 19G	Authority to decide penalty for each default.	Engineer-in-charge.
Clause 19K	Authority to decide penalty for each default.	Engineer-in-charge.
Clause 25		
(i)	Conciliator	ADG (Lucknow) or successor thereof
(ii)	Arbitrator Appointing Authority	Superintending Engineer, Allahabad, CPWD, Allahabad or successor thereof
(iii)	Place (Seat) of Arbitration	Prayagraj (U.P.)

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Clause 32 Requirement of Technical Representative(s) and Recovery Rate

Cost of work (Rs. in Crores)	Requirement of Technical staff		Minimum experience (Years)	Designation of Technical staff	Rate at which recovery shall be made from the contractor in the event of not fulfilling.	
	Qualification	Number (of Major + Minor Component)			Figures	Words
More than 15 lacs to 1.5 crore	Graduate Engineer Or Diploma Engineer	1 of major component	2 Or 5 respectively	Project Manager cum Planning/ Quality/Site / billing Engineer	Rs. 15,000/- per month	Rs. Fifteen Thousand per month

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 C.P.W.D.
- ii) **Variations permissible on theoretical quantities**
- | | | |
|----|---|--|
| a) | Cement for works with estimated cost put to tender not more than 25 lakhs. | 3% plus/minus |
| | For works with estimated cost put to Tender is more than 25 lakhs | 2% plus/minus |
| b) | Bitumen all works | 2.5% plus only & 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: Renovation of Prekshagrih, Shilphaat, Kalavithika and Kala Bhawan of North Central Zone Cultural Centre at Allahabad. (SH:- Renovation of Kalavithika and General Toilet including Electrical works at NCZCC Campus Prayagraj.)

- 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 and electrical items of work. If the tenderer wants to offer any unconditional rebates on their rates, the same should also be offered in the respective components of civil and electrical schedule separately. The contractor shall quote the percentage rates in figures and words accurately so that there is no discrepancy in rates written in figures and words.
- 3 Time allowed for the execution of work is **02 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 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.
- 6 The contractor (s) shall make his own arrangements for electricity and water required for the execution of work.
- 7 **Cement shall be arranged by the contractor himself.**
- 8 **Steel Reinforcement shall be arranged by the contractor himself.**
9. 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. 51.** 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.
10. The contractor shall submit the running bills in the shape of the computerized MB in pages of A-4 size as per the standard format of department and shall act as per modified clause 6 of CPWD-7.
- 9 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 elsewhere in the document, approved from the Engineer-in-Charge. The contractor shall stick to the approved source unless it is absolutely unavoidable. Any change shall be done with the prior approval of the Engineer-in-Charge for which tests etc. shall be done by the contractor at his own cost. Similarly, the contractor shall submit brand/ make of various materials not specified in the agreement, to be used for the approval of the Engineer-in-Charge along with samples and once approved, he shall stick to it.
3. The contractor shall submit shop drawings of staging and shuttering arrangement, Aluminium work, and other works as desired by Engineer In Charge for his approval before execution. The contractor shall also submit bar bending schedule for approval of Engineer –in – charge before execution.

4. Test Laboratories :

A) Laboratory at site :

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

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

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- 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, taping rod, steel scale, scoop.
- f) Equipment for concrete testing
- i) Concrete cube moulds 15x15x15cm. 18Nos.
- ii) Pruning Rods 2Kg weight length 40cm and ramming face 25mm 1No.
- iii) Extra Bottom plates for 15cm cube mould 6Nos.
- iv) Standard Vibration table for cubes 1No
- v) Dial gauges 25 mm travel- 0.01 mm/division Least count- 1 No.
- vi) Compression testing machine of 100 tonne capacity. 1 No.

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 except cement for which separate condition is provided in tender document.

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

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- 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 Jr. Engineer-in-Charge of work and which shall be duly signed by the contractor or his authorized 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.
- 9 Cement issued shall be for consumption at site only. No cement for factory made items and those not manufactured at site shall be issued.
- 10 In case there is any discrepancy in frequency of testing as given in the list of mandatory test and that in the individual sub-head of work as per CPWD specification 2019 Vol. 1 & 2 the higher of the two frequencies of testing shall be adopted.

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ADDITIONAL CONDITIONS FOR CEMENT

1. The contractor shall procure Portland Pozzolana Cement conforming to IS: 1489 (Part-I) as required in the work, from reputed manufacturers of cement, such as A.C.C., Ultratech, Shri cement, Ambuja, Century Cement, J.K. Cement **or from any other reputed cement Manufacturer having a production capacity not less than one million tonnes per annum as approved by ADG for the sub region.** The tenderers may also submit a list of names of cement manufacturers which they propose to use in the work. The tender accepting authority reserves right to accept or reject name(s) of cement manufacturer(s) which the tenderer proposes to use in the work. No change in the tendered rates will be accepted if the tender accepting authority does not accept the list of cement manufacturers, given by the tenderer, fully or partially.

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

2. The cement shall be brought at site in bulk supply of preferably in bulk or as decided by the Engineer-in-Charge.

The cement godown of the capacity to store a minimum of 500 bags or as decided by the Engineer-in-Charge of cement shall be constructed by the contractor at site of work for which no extra payment shall be made.

3. Double lock provision shall be made to the door of the cement godown. The keys of one lock shall remain with the Engineer-in-charge or his authorized representative and the key of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement godown. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-Charge at any time.
4. The cement shall be got tested by the Engineer-in-Charge and shall be used on the work only after satisfactory test results have been received. The contractor shall supply free of charge the cement required for testing including its transportation cost to test laboratories. The cost of tests shall be borne by the contractor.
5. The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the cement consumption is less than theoretical consumption

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including permissible variation, recovery at the rate show prescribed shall be made. In case of excess consumption no adjustment need to made.

6. The cement brought to site and the cement remaining unused after completion of the work shall not be removed from site without the written permission of the Engineer-in-Charge.
7. The damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in writing from the Engineer-in-Charge. If he does not do show within three days of receipt of such notice, the Engineer-in-Charge shall get it removed at the cost of the contractor.
8. The contractor may use OPC in place of PPC only after written permission of Engineer-in-Charge. In such case, no extra payment shall be made in any form to the contractor by the Department.
9. Testing Charges:- As per special condition No. **43**.

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ADDITIONAL CONDITIONS FOR STEEL REINFORCEMENT

- 1.1. The Contractor shall procure IS marked TMT steel bars or low alloy steel bars of various grades from Primary Steel manufacturer such as **SAIL, Tata Steel Ltd, RINL, Jindal Steel & Power Ltd and JSW Steel Ltd**, or any other steel manufacturer or their authorized dealers (as per selection criteria laid down by the Department from time to time) having valid BIS license for IS:1786-2008 (Amendment -1 November 2012).
- 1.2. The steel bars manufactured in India shall be classified, for the purposes of their use in work of CPWD, as under:
 - 1) Bar Set I, if it complies with the requirements given in the latest version of IS: 1786, and additional requirement (e.g. Chemical Composition Requirement for Manganese and Copper, Tempered Martensite (TM) Ring Requirement, Marking Requirement and compliance of the provisions of ISO 9001:2015 and ISO 14001 :2004) as mentioned in Para 2.23 of this Section, and
 - 2) Bar Set II, if it complies with the requirements given in the latest version of IS 1786.
- 1.3. Reinforcement steel bars to be used in this work shall be of type **Bar Set II** having grade 500D/ 550D.
- 1.4. The contractor shall have to obtain vouchers and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work
- 1.5. Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time or written orders from the Engineer-in-Charge to do so.
- 1.6. The steel reinforcement bars shall be brought to the site in bulk supply of **10 tonnes** or more, or as decided by the Engineer-in-charge.
- 1.7. The steel reinforcement shall be stored by the contractor at site of work in such a way as to prevent distortion and corrosion and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
- 1.8. For checking nominal mass, tensile strength, bend test, re-bend test etc. specimen 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 above 100 tonnes
Under 10mm dia. Bars	One sample for each 25 tonnes or part thereof	One sample for each 40 tonnes or part thereof
10mm to 16mm dia bars	One sample for each 35 tonnes or part thereof	One sample for each 45 tonnes or part thereof
Over 16mm dia bars	One sample for each 45 tonnes or part thereof	One sample for each 50 tonnes or part thereof

- 1.9. The contractor shall supply free of charge the steel required for testing including transportation to testing laboratories. **The cost of tests shall be borne by the contractor.**
- 1.10. 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 procedure prescribed in clause 38 of the General Conditions of Contract and shall be governed by conditions laid therein. In case the consumption is less

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than theoretical consumption including permissible variations leading to under designing of the structure, the work shall be summarily rejected, otherwise recovery at the rate so prescribed shall be made after ensuring structural soundness and stability. In case of excess consumption, no adjustment need to be made.

- 1.11. Steel brought to site and steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.
- 1.12. Steel bars brought by the contractor for use in the work shall be got checked from the Engineer-in-Charge or his authorized representative of the work on receipt of the same at site before use.
- 1.13. In case the contractor brings surplus quantity of steel the same after completion of the work will be removed from the site by the contractor at his own cost after approval of the Engineer-in-Charge.
- 1.14. Reinforcement including authorized spacer bars and overlaps 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 centimetre. Wastage and unauthorized overlaps shall not be measured.
- 1.15. 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.
- 1.16. Records of actual sectional weight shall also be kept dia-wise & lot-wise. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site. The decision of the Engineer-in-Charge shall be final for the procedure to be followed for determining the average sectional weight of each lot. Quantity of each diameter of steel received at site of work each day will constitute one single lot for the purpose. The weight of steel by conversion of length of various sizes of bars based on the actual weighted average sectional weight shall be termed as derived actual weight.
- 1.17. If the derived weight as in para 2.14 above is lesser than the standard weight as in para 2.13 above, the derived actual weight shall be taken for payment. If the derived actual weight is found more than the standard weight then the standard weight as worked out in para 13 above shall be taken for payment. In such case nothing extra shall be paid for the difference between the derived actual weight and the standard weight.
- 1.18. Mixing of different type of steel/different grades of steel shall not be allowed in the same structural members as main reinforcement to satisfy clause 26.1 of IS:456.
- 1.19. Tolerances on Nominal Mass (individual sample) shall be as under:

S. No.	Nominal size mm	Tolerances on the Nominal Mass (in %age)
1	Upto and including 10 mm	-8%
2	Over 10 upto & including 16 mm	-6%
3	Over 16 mm	-4%

- 2.20 The reinforcing steel brought to site of work shall be stored on brick/ timber platform of 30/40 cm height, nothing extra shall be paid on this account.
- 2.21 ~~If corrosion resistant steel rebars are not available: As a matter of policy only corrosion resistant steel bars are to be used for the work. It has been observed that CRS bars are not available/ or have delayed delivery in few instances. Considering the practical situation and~~

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~~to take care of such instances, the Engineer in charge may allow use of TMT bars of same grades as specified in that NIT from the list of approved makes, given elsewhere in the NIT. In such case, payment under agreement item for TMT bars shall only be made and nothing shall be paid under the agreement item, extra for CRS steel instead of TMT bars.~~

2.22 Testing requirement for individual reinforcement bar diameter of Particular Grade of steel:

Tests required for Fe 415D, Fe500D, Fe550D grade of steel and Low alloy steel reinforcement bars:

A. FOR BAR SET-I

1. Tests as per IS 1786 (latest version) and specified therein

1.1 Chemical Properties

Ladle analysis of steel for above grades for maximum percentage of constituents

i. Carbon (C), (ii) Sulphur (S) and (iii) Phosphorous (P) and (iv) Nitrogen and Carbon Equivalent

1.2 Physical Properties

- (i) 0.2 percent proof stress / yield stress, minimum, N/mm².
- (ii) Ratio of Tensile Strength (Ts) to Actual Yield Strength (or 0.2 % of yield stress (Ys) of the test piece N/mm².
- (iii) Elongation, percent, Minimum, on gauge length $5.65\sqrt{A}$, where A is the cross-sectional area of the test piece.
- (iv) Total elongation at maximum force, percentage, minimum on gauge length $5.65\sqrt{A}$, where A is the cross-sectional area of the test piece.
- (v) Bend test and re-bend test.
- (vi) The mean area of ribs (in mm²) per unit length (in mm) above the core of the bar, projected on a plane normal to the axis of the bar.
- (vii) Pull-out testing in accordance with IS 2770 (Part 1)

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2. Additional requirement

2.1 Permissible limit for Manganese and Copper as follows:

Constituent	Permissible Limit (% of cast metal quantity)		
	Fe 415 D	Fe 500 D	Fe 550 D
Manganese (Mn)			
Maximum	1.60	1.60	1.60
Copper (Cu)			
Maximum	0.80	0.80	0.80
Minimum	0.20	0.20	0.20
Notes: The above composition shall be obtained as per latest version of IS 228 1. Manganese using Periodate Spectrophotometric Method (Part 12), and 2. Copper using Thiosulphate Iodide Method (Part 15) or Spectrophotometric (Diethyl Dithiocarbonate) Method (Part 21)			

2.2 Tempered Martensite Ring Test as per Annexure-I (d).

2.3 The process of manufacturing steel shall comply with the provisions of ISO9001: 2015 and ISO14001: 2004.

(B)FOR BAR SET-II

1. The test requirements given in para 1.1 and 1.2 above.

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2.23 Criteria for Classification of Bars

Annexure-I(d)

1. CRITERIA FOR CLASSIFICATION OF BARS

The steel bars manufactured in India shall be classified as specified hereunder for the purposes of their use in works of CPWD.

1.1 Process of Classification

Steel Bars shall be classified as *Bar Set I* and *Bar Set II*. The bars shall be placed under one of these categories based on *Type Test* (the test performed to select the bars) performed as specified hereunder. These tests to be performed are those specified in the latest version of **IS 1786** published by the Bureau of Indian Standards, and the additional tests mentioned in Para 2 of this document.

The *Type Test* shall be performed at any one of the National Test Houses, IITs, NITs, and NCCBM, subject to:

- The test samples being collected from the manufacturing facility by the representative engineer of CPWD,
- The availability of the required test facility at the said laboratory, and
- The test being witnessed by representative engineer of CPWD.

1.2 Classification of Steel Bars

The bar shall be classified as:

- Bar Set I*, if it complies with the requirements given in the latest version of **IS: 1786**, and those given in Para 2 of this document, and
- Bar Set II*, if it complies with the requirements given in the latest version of **IS 1786**.

2. ADDITIONAL REQUIREMENTS

Four additional requirements as specified hereunder.

2.1 Chemical Composition Requirement

The permissible limits of additional elements shall be as per **Table 1**.

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Table 1: Permissible limits of additional elements

Constituent	Permissible Limit (% of cast metal quantity)		
	Fe 415 D	Fe 500 D	Fe 550 D
Manganese (Mn)			
<i>Maximum</i>	1.60	1.60	1.60
Copper (Cu)			
<i>Maximum</i>	0.80	0.80	0.80
<i>Minimum</i>	0.20	0.20	0.20
Notes: The above composition shall be obtained as per latest version of IS 228: (1) Manganese using Periodate Spectrophotometric Method (Part 12), and (2) Copper using Thiosulphate Iodide Method (Part 15) or Spectrophotometric (Diethyl Dithiocarbonate) Method (Part 21).			

2.2 TM Ring Requirement

The following two requirements shall be met with:

- (1) Does the *Tempered Martensite(TM)* Ring satisfy the visual analysis as per **Step 1** of **Table 2**; and
- (2) The thickness of the TM Ring obtained as per **Step 2** of **Table 2** shall be between 0.07f and 0.15f, where f is the *original nominal diameter* of the bar.

(a) Test Procedure

The following is the procedure:

- (1) The test setup to capture the *Cross-Sectional Phase Distribution (CSPD)* of the TMT bars shall be as shown in **Figure 1**.
- (2) Steel bars may be cut using handsaw or an abrasive cutter with continuous supply of coolant to limit the temperature of steel, and thereby avoid any transition or changes in *Tempered Martensite(TM)* and *Ferrite-Pearlite (FP)* phases (**Figure 2**). The sharp edges of cut bars should be smoothened using

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silicon carbide abrasive sheets. A metal polishing machine can be used to achieve effective smoothening.

- (3) The smoothened steel specimen shall be moulded in cold setting epoxy with good surface finish. Setting time of epoxy is about 10-15 minutes.
- (4) The moulded specimen surface shall be course polished using abrasive sheets of 80, 150, 220, 320, and 600 grit sizes in sequence. Specimens shall be micro-etched using Nital (5% Nitric acid in alcohol) to capture the CSPD.

(b) Measurements

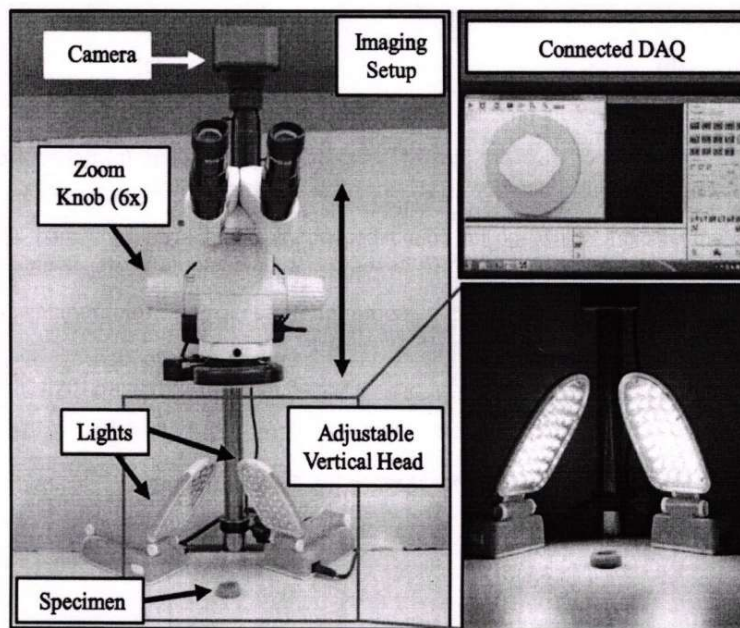
The procedure for obtaining the CSPD of the TM Ring along the perimeter shall be as per **Table 2**.

2.3 Marking Requirement

All bars shall have marks introduced during rolling, which indicate the *name of manufacturer or brand name*, and *grade of steel*.

2.4 Manufacturing Process Requirement

The process of manufacturing steel shall comply with the provisions of ISO 9001:2015 and ISO 14001:2004.



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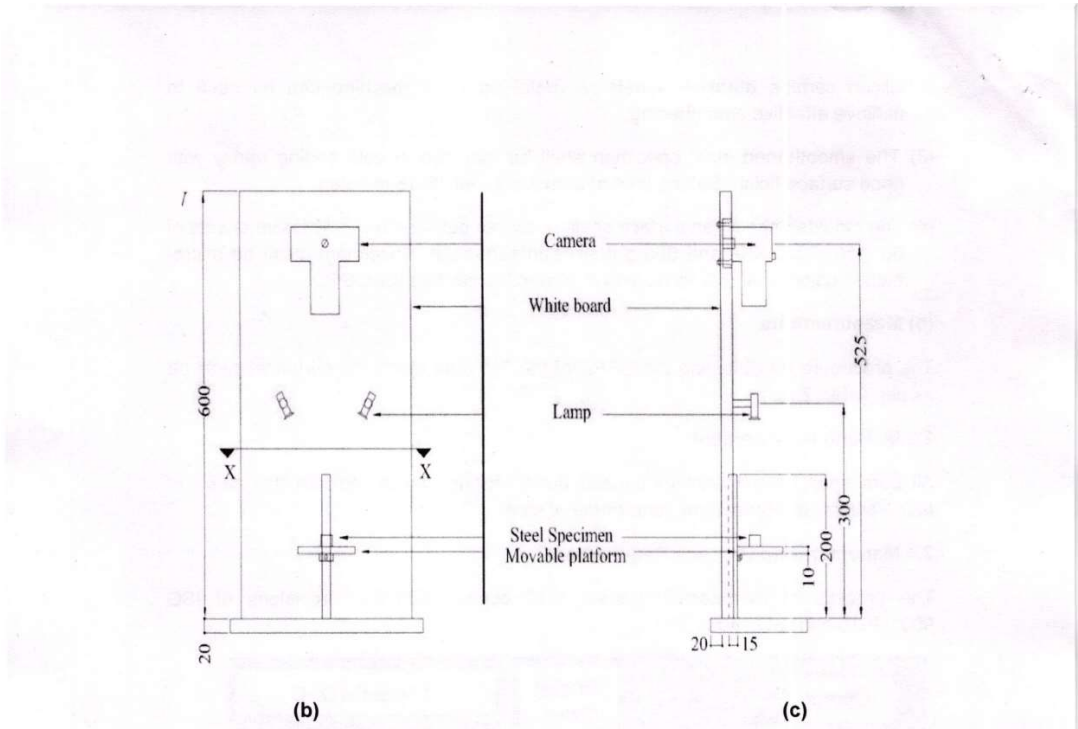


Figure 1: Test setup for CSPD of the TMT bars: (a) Imaging Setup, (b) Schematic Front View (c) Schematic Side View

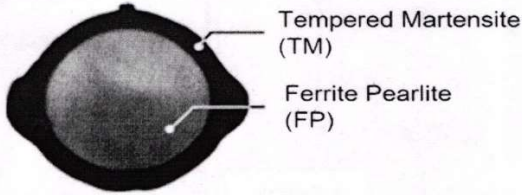
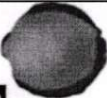
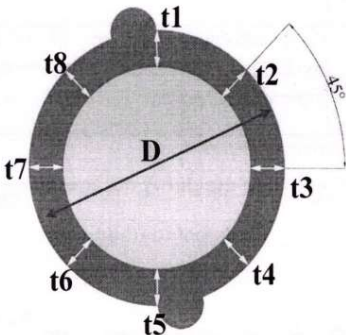


Figure 2: Cross-section of the steel bar showing the TM and FP areas

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Table 2: Method of obtaining CSPD of TM Ring

Step 1: Visual Analysis of etched Cross-Section			
			
A	B	C	D
Acceptable	Not acceptable	Not acceptable	Not acceptable
1. Is a dark grey peripheral region and light grey core seen as in Case A?			Yes/No
2. Does the dark grey peripheral region form a continuous outer ring?			Yes/No
Step 2: Dimension Analysis of TM-Ring thickness			
3. Diameter $D(mm)$ of the steel bar			
4. Geometry			t_1
			t_2
			t_3
			t_4
			t_5
			t_6
			t_7
			t_8
			Measured t_{min} (mm)
			Measured t_{max} (mm)
			5. Is the measured $t_{min} \geq 0.07 f$?
Is the measured $t_{max} < 0.15 f$?			Yes / No

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SPECIAL CONDITIONS

- 1 The order of preference in case of any discrepancy between SOQ, the specification and/or drawings shall be followed as :-

- 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 2019 Vol. 1 and Vol. 2 (with up to 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.

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- 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.
- 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.

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- 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 If as per local Municipal regulations, huts for labour are not to be erected at the site of work, the contractor shall be required to provide such accommodation at a place as is acceptable to the local body and nothing extra shall be paid on this account.
- 18 It shall be ensured by the contractor that no electric live wire is left exposed or unattended to avoid any accidents in this regard.
- 19 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.
- 20 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
- 21 As the work is to be executed within the functional premises of the **NCZCC, Prayagraj** the contractor shall carry out this work with utmost care without creating any nuisance/disturbances to the students/occupant/visitors. Contractor shall have to keep the site clean and free from dust/dirt/pollutants etc. Nothing extra shall be paid on these accounts.
- 22 All C.P. fittings and fixtures for water supply viz. pillar work, bib cock, stop cock, angle valve, mixer etc. shall be of quarter turn type only.
- 23 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.

24 **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.
- ii) The programmes chart should include the following:-
 - a) Descriptive note explaining sequence of various activities.
 - b) Network (PERT/CPM/BAR CHART)
 - c) Programme for procurement of materials by the contractor

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- 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.
- 25 If it appears to the Engineer-in-Charge that the actual progress of work does not conform to the approved programme referred above the contractor shall produce a revised programme showing the modifications to the approved programme to ensure completion of the work within the stipulated time for completion.
- 26 The submission for approval by the Engineer-in-Charge of such programme or the furnishing of such particulars shall not relieve the contractor of any of his duties or responsibilities under the contract. This is without prejudice to the right of Engineer-in-Charge to take action against the contractor as per terms and conditions of the agreement.
- 27 If the work is carried out in more than one shift or during night, no claim on this account shall be entertained.
- 28 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.
- 29 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.
- 30 The contractor shall bear all incidental charges for cartage, storage and safe custody of materials issued by department.
- 31 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.
- 32 The contractor shall take instructions from the Engineer-in-charge for stacking of materials. No excavated earth or building materials etc. shall be stacked/collected in areas where other buildings, roads, services, compound walls etc. are to be constructed.
- Any trenching and digging for laying sewer lines/water lines/cables etc. shall be commenced by the contractor only when all men, machinery's and materials have been arranged and closing of the trench(s) thereafter shall be ensured within the least possible time.
- 33- 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.

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- 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 thereof 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, 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.
- 34 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.

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35 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.

36 Condition regarding secured advance:-

Secured advance shall be admissible only on those bona fide 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.

37 Testing charges:-

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 in all cases.

38 If work attended at any quarters is having complaint registered on e-sewa portal / CPGRAMS quoting of same in CMB is compulsory. Satisfaction of allottee will be considered same through cpwd. e-sewa portal / In written.

39 List of approved laboratories for testing:-

Laboratories approved by the competent authority i.e. ADG(Lucknow) or Successor thereof.

40 (i) The scope of work also includes Preliminary works like setting and maintenance of permanent bench marks reference points, central line of the carriageway etc. It shall also include making adjustment in the layout if required as per site conditions and as directed by the Engineer-in-Charge. The layout shall be got approved from the Engineer-in-charge before starting actual work. Existing levels of the area under the scope of work shall also be recorded.

(ii) Clearing of site for construction of the work and all activities connected therewith before commencement of work to the satisfaction of the Engineer-in-Charge.

(iii) Clearing of site (to be satisfaction of the Engineer-in-Charge) after completion of entire work and handing over the same to the department.

(iv) All the exposed concrete surfaces shall have shutter or form liner finish (except for piles and lean concrete) and nothing shall be paid extra for the same

(v) Protection and maintenance of existing services.

(vi) Provision for all safety measures for traffic, pedestrian workmen, machinery etc. as considered necessary by the Engineer-in-charge.

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- (vii) It may be noted that all the safety requirements as may be felt necessary by the Engineer- in- Charge, shall have to be provided for allowing the traffic to pass underneath the superstructure at all times during the construction period.
- (viii) In case of defective construction by the contractor or on account of any other reason attributable to the contractor if the consultants appointed by the. department, submit additional claims for re-designing on account of additional input by them, due to such reasons, the same shall also be borne by the contractor. The opinion of the Engineer-in- charge in these matters shall be final and binding.
- (ix) All ancillary and incidental facilities required for execution of the work i.e. labour camps, stores, offices for contractors, work shop facilities, watch and ward, temporary structure for plants and machinery, well equipped site laboratory as mentioned in the tender document, water storage structure, tube wells, electric/telephone installation and charges, liaison work, protection work during execution and not included in the main items, any other item /activity contained elsewhere in the tender documents which is necessary for execution of work in the opinion of the Engineer-in-Charge.
- (x) Pumping and bailing out water in suitable manner as directed by Engineer-in-Charge shall be done by the agency, if required, at his own cost and nothing extra shall be payable on this account.
- (xi) It is also made clear that the work shall be carried out at various locations. Intending tenderer should visit the sites/location of work including contractor's compound and physically assess the activities which are involved for completing the work, including the quantum of work besides the information supplied in the tender document. No claim whatsoever shall be entertained on this account.
- (xii) The construction agencies shall make arrangement for a regular fortnightly or other frequency as desired by Engineer-in-Charge for the documentation of the progress of work.
- (xiii) Activities related to setting of various items such as permanent bench-marks, reference points, central line of carriageway, layout of foundations and bearings etc. shall be performed by total station survey.
- 41 Some restrictions may be imposed by the concerned authorities on quarrying of sand, stone etc. from certain areas. For timely completion of work, the contractor shall have to bring such material from other quarries located elsewhere, and nothing extra shall be payable on this account.
- 42 Unless otherwise specified in the Schedule of Quantities, the rates for all items of work shall be considered as inclusive of working in or under water and/or liquid mud and/or foul conditions including pumping or bailing out liquid mud or water accumulated in excavations during the progress of the work from springs, tidal or river seepage, rain, broken water mains or drains and seepage from subsoil aquifer.
- 43. Stacking of materials and excavated earth including its disposal shall be done as per the directions of the Engineer-in-Charge. Double handling of materials or excavated earth, if required, shall have to be done by the contractor at his own cost.

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44. The contractor shall have to make approaches to the site, if so required and keep them in good condition for transportation of labour and materials as well as inspection of works by the Engineer-in-Charge. Nothing extra shall be paid on this account.
45. The contractor shall make his own arrangements for obtaining electric connection(s), if required, and make necessary payment directly to the Department concerned. The Department will however make all reasonable recommendations to the authority concerned in this regard.
46. The structural and other drawings for the work, shall at all times, be properly correlated before executing any work and no claim whatsoever shall be entertained in this respect.
47. The contractor shall provide a total station Instrument for recording all initial and final levels of entire earth work, and marking levels for all other related items to ensure proper supervision at his own cost & as per direction of Engineer-in-Charge.
48. Royalty at the prevalent rates and all other incidental expenditure shall have to be paid by the contractor on all the boulders, metal, shingle, earth, sand, bajri etc. collected by him for the execution of the work directly to the concerned Revenue Authority of the State or Central Government. His rates are deemed to include all such expenditure and nothing extra shall be paid.
49. For taking the permission to execute the work, if any required from any Govt. Municipal corporation, Prayagraj Development Authority, PWD etc. the contractor will associates himself and for this nothing shall be paid extra.
50. Incidental charges for taking permission from traffic police/penalty imposed by traffic police for violations of traffic rules by police local bodies etc. shall be borne by the contractor.
51. It is necessary that the contractor may keep a record of procurement of materials required in this work. It will be sole responsibility of the contractor to produce the same to any agency, if asked for at any stage.

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PARTICULAR SPECIFICATION OF WORK

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.

1. 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 authorized 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 42) 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 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.
- 2.6 **Ultrasonic Pulse velocity Method of Test for RCC:** Ultrasonic pulse velocity method of test for RCC shall be done as routine test as per IS 13311 (Part-I): 1992 Concrete quality grading shall be done and concrete having graded as good and excellent shall be accepted.

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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

2.7 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.

2.8 *Necessary arrangements shall be made for field tests and all required equipment's shall be arrange 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 PRE-CAST RCC WORK

3.1 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.

3.2 Pre-cast units shall be clearly marked to indicate the top of member and its locations.

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

4 FLOORING

4.1 All work in general shall be carried out as per CPWD Specifications- 2019 - Vol.I& Vol. II with upto date correction slips.

4.2 Whenever flooring is to be done in patterns tiles/ stone, the contractor shall get samples of each pattern laid and approved by the Engineer-in-Charge before final laying of such flooring for which nothing extra shall be paid.

4.3 Different stones/ tiles used in pattern flooring as per the approved architectural drawings and nothing extra for laying pattern flooring shall be paid. No additional wastage if any shall be accounted for any extra payment.

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- 4.4 The rate of items of flooring is inclusive of providing sunken flooring in bathrooms, kitchen etc. and nothing extra on this account is admissible. The samples of flooring, dado & skirting as per approved pattern shall be prepared & got approved from the Engineer-in-charge before execution of work.
- 4.5 Nothing extra shall be payable for using combination of marble, granite and kota in the required pattern at various locations unless otherwise specified.
- 4.6 The pattern, spacing and locations of joints shall be as per drawings and direction of the Engineer-in-Charge and nothing extra shall be paid on account of the same.
- 4.7 Different stones / tiles used in pattern flooring shall be measured separately as defined in the nomenclature of the item and nothing extra for laying pattern flooring shall be paid over and above the quoted rate. No additional wastage, if any, shall be accounted for any extra payment.
- 4.8 Proper gradient shall be given to flooring for toilets, verandah, kitchen, courtyard etc. so that the wash water flows towards the direction of floor trap. Any reverse slope if found, shall be made good by the contractor by ripping open the floor/grading concrete and nothing shall be paid for such rectifications.
- 4.9 The stone slabs used for providing and fixing in the sills, soffits and jambs of doors, windows, ventilators and similar locations shall be in single piece unless otherwise directed by the Engineer-in-Charge. Wherever stone slab other than in single piece is allowed to be fixed, the joints shall be provided as per the architectural drawings and as per the directions of the Engineer -in-Charge. In the cabin areas, the joints in sills shall preferably be provided in line with the partition wall. Depending on the number of joints, as far as possible, the stone slabs shall be procured and fixed in slabs of equal lengths as per the architectural drawings and as directed by Engineer in-Charge. **Nothing extra shall be paid on providing single piece stones in aforesaid location unless otherwise provided in the schedule of quantity.****
- 4.10 All the flooring works specified under this sub -head shall be adequately protected by a layer of plaster of paris which shall be laid over a 400 micron PVC film. The protective layer shall be maintained throughout the execution of works and removed just before handing over of the site for which nothing extra shall be payable.
- 4.11 All holes, rebates, recesses etc. for providing fixing and inserts shall be predrilled and precut and worked using precision machine tools. Nothing extra on this account shall be payable.
- 4.12 One-piece Granite stone for treads / risers in steps and staircase shall be used and nothing extra shall be paid on this account.
- 4.13 All corner joints of tiles/stone in dado shall be made by chamfering the edges of tiles to 45 degree to produce a fine mitred joint and filling same with matching grout. Nothing extra shall be paid on this account.

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5 WATER PROOFING TREATMENT

The contractor shall associate himself with the specialized firm, to be approved by the Engineer-in-charge in writing, for water proofing treatment for basement/lower ground floor, underground tank and on roofs. Guarantee in the prescribed proforma attached with tender document shall be given by the specialized firm, for a period of 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/FDR of equivalent amount for 10 years is produced and deposited with the department by the contractor.

6. SANITARY INSTALLATIONS, WATER SUPPLY AND DRAINAGE

- 1.1 The scope of work comprises supply, laying, installation, commissioning and testing of water supply, sewerage and drainage works including sanitary fixtures and fittings. These works shall be executed as per the specifications of items attached and CPWD specifications- 2019 Vol. I & II with up-to-date correction slips up to the date of tender submission.
- 1.2 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.*
- 1.3 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.
- 1.4 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.

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- 1.5 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.
- 1.6 All sanitary wares and fittings shall conform to IS standards and to be procured from approved makes. The contractor shall submit samples of all fittings and fixtures proposed to be used to the Engineer-in-charge for his approval. The approved samples shall remain with the Engineer-in-charge till the completion of the work.
- 1.7 P or S and floor traps (long arm upto 90 cm length or more) in WCs shall be of deep seal type of RIF make or equivalent and shall have a minimum water seal of 75 mm. Floor traps (long arm upto 90 cm length or more) shall have a minimum water seal of 50 mm.
- 1.8 The pig lead to be used in jointing 100 mm, 75mm, 50 mm SCI pipe joints shall not be less than 0.98 kg, 0.88 kg and 0.77 kg per joint respectively. A variation of 5% is allowed on higher side. However, in case of variation on lower side, the quantity of pig lead less used shall be recovered from the contractor at market rate to be determined by the Engineer-in-Charge whose decision in the matter shall be final.
- 1.9 All fixtures and accessories shall be fixed in accordance with a set pattern matching the tiles or interior finish as per architectural requirements. Wherever necessary the fittings centered to dimensions and pattern desired.
- 1.9 The rates shall include the cost of cutting chases, holes in walls, floors, RCC slabs etc. Wherever required and making good the same for which nothing extra shall be paid. The work in general shall be carried out as per CPWD specifications.
- 1.10 The piping stack shall be installed at least 50mm using MS brackets, away from the finished / plastered shaft wall. The Item of Brackets and Clamps shall be paid for separately. From floor traps to outside CI fittings only single piece connection pipe shall be used.
- 1.11 All vertical Sanitary & water supply pipes shall be fixed to pre primed and pre painted M.S supporting frame with "U" shaped G.I bolts, threaded at both ends, as specified, with GI nuts, GI washers, GI cleats etc. as approved by the Engineer-in-charge. Supporting frame shall be fixed with approved anchor fasteners / plumbing nails as directed by the Engineer-in-charge. In all cases, pipelines shall be fixed, minimum 50 mm away from the finished wall face and shall not be fixed directly to the walls. The cost of providing and fixing GI supporting frame, "U" bolts, GI nuts, GI washer, anchor fastener etc., for clamping the pipes to the supporting frame shall be paid for separately under relevant item.
- 1.12 Rate includes all materials, labour and all the operations mentioned in the respective items unless and otherwise specifically mentioned.

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- 1.13 The SCI pipe wherever necessary shall be fixed to RCC columns, beams etc. with rawl plugs of approved quality and nothing extra shall paid for on this account.
- 1.14 All the works shall be completely concealed either within shafts or chases or in fills and dropped ceilings, unless specifically shown in drawings or required otherwise.
- 1.15 All the works shall be adequate protected against corrosion, so that the whole work is free from damage throughout.
- 1.16 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.
- 1.17 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.
- 1.18 The CP fittings such as pillar cock, angle valve, bib cock, mixers etc. shall all be quarter turn type. All such CP fittings fixed on the wall such as angle valve, bib cock, mixers shall be provided with flanges. Nothing extra shall be paid on these accounts even if it specifically not mentioned in the schedule of quantities for the work.
- 1.19 The CP fittings and sanitary fixtures to be installed in Type-V& Type- VI Qtrs shall be of approved makes of superior series as mentioned in approved make list.
- 1.20 Before the work is handed over, the contractor shall clean all fixtures removing all plaster, stickers, rust stains and other foreign matter, leaving every part in acceptable condition and ready for use to the satisfaction of the Engineer-in-charge.
- 1.21 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.

1.22 INSPECTION AND TESTING

Inspection and testing of water supply sewerage and drainage installations shall be carried out as per National Building Code 2016 with up to date amendments.

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

Sl. No.	Name of Equipment	Numbers
1	Excavators (various sizes)	Nil
	Equipment for hoisting & lifting	
1	Tower Crane or Builder's hoist (Desirable)	Nil
	Equipment for Concrete work	
1	Concrete pump (Desirable)	1 No.
2	Concrete transit mixer	Nil
3	Concrete mixer (diesel)	1 No.
4	Concrete mixer (electrical)	1 No.
5	Needle vibrator (electrical)	2 Nos.
6	Needle vibrator (petrol)	2 Nos.
7	Surface vibrator	2 Nos.
	Equipment for Building work	
1	Bar bending Machine	1 No.
2	Bar cutting machine	1 No.
3	Drilling machine	Nil
4	Welding machine i/c transformer	1 No.
5	Cube testing machines	1 No.
6	M.S. pipes	---
7	Steel shuttering	---
8	Steel scaffolding	---
	} For 250sqm. Equivalent area or as desired by Engineer—in- Charge	
9	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)	1 No.
2	Pump (electric) (Desirable)	1 No.
	Power equipment	
1	Diesel generator	1 No.

- 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

Sl. No.	Material description	Approved Manufacturer / Brand Name
RCC Work		
1	Ordinary Portland Cement/ Portland Pozzolana Cement	ACC, Ultratech, Ambuja Cement, J.K. Cement, Century Cement, Shree Cement
2	White Cement	Birla White, J.K. White
3	Reinforcement Steel	SAIL, Tata Steel Ltd, RINL, Jindal Steel & Power Ltd and JSW Steel Ltd
4	Admixtures, Plasticizer, Super Plasticizer, Curing Compounds	Fosroc, CICO, Sika, BASF, Ardex Endura
5	Modular Expansion Joint	Herculus, Sanfield India Ltd. Vexcolt, MNR, CS
6	Ready Mix Concrete (RMC)	Ultratech, ACC, RMC Ready Mix (India)
Structural Steel Work		
7	Structural Steel	SAIL, Tata Steel, Rashtriya Ispat Nigam Ltd. (RINL), JSW Steel Ltd. and Jindal Steel & Power Ltd, APL Apollo
8	M.S. tubular windows	Jangid Engineering, AGFUV, SEN HARVIC, NAVAIR Delhi, SUKRITI Delhi, Chandni industries, or as approved by E-I-C.
9	Pressed steel door frame	Bhawani fire Ghaziabad (UP) any other manufacturer as approved by Engineer-in-Charge
10	GPSP Door frame & Shutters	Tata Pravesch, Shakti Hormann, Home's Guard
11	MS Tubular door frames	Apollo, as approved by Engineer-in-Charge
Block Work		
12	AAC Blocks	Ultratech, HIL, BILTECH or any other ISI marked as approved by E-I-C.
13	AAC Block Adhesive	UltraTech, Ardex Endura, Ferrous Crete, Saint Gobin-Weber,
Roofing Work		
14	Profile Steel Sheet (PPGL)	Ezydec of TATA, JSW Steel Ltd., Jindal Steel & Power Ltd, Super deck of Lloyd
15	Sandwich Insulated Panel	Kingspan, Metecno India, Lloyd
16	Polycarbonate sheet	GE Plastic, LEXAN, DPI Daylighting,
Water proofing		
17	Integral Water Proofing compound with cement (For Plaster & Mortar)	Fosroc : Conplast 421, Dr. Fixit : LW+, Sika : Sikacin, Ultratech weather Pro WP+200 Asian Paints : Smart care vitalia & equivalent product of BASF, MYK Arment, CICO, Ardex Endura, Birla Opus
18	Water proofing for bathroom/toilet/ balcony & other wet areas	Fosroc : Brush Bond Dr. Fixit : Pidifine 2K Sika : Nito Bond Asian Paints : Damp Block 2K, MYK Arment: AquaArm Saniflex & equivalent product of BASF, CICO, Ardex Endura, Ultratech weather Pro HI-FLEX, Birla Opus C2K, C2K+

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19	Crystalline water proofing compound	Fosroc : Fosroc Crystalline Dr. Fixit : Dr. Fixit Crystalline Sika : Sika Crystalline Asian Paints: Crystalline Quarty , MYK Arment: AquaArm C-35 & equivalent product of BASF, Ardex Endura,
20	HDPE/SBS membrane	Fosroc, Pidilite, Tikidan, BASF, MYK Arment
	Flooring	
21	Ceramic Tiles (Antiskid/Matte/Glazed	Kajaria, RAK, Somany, NITCO, Johnson
22	Vitrified Tiles (Antiskid/Matt/Glazed)	Kajaria, RAK, Somany, NITCO, Johnson
23	Mosaic tiles/Chequered Tiles	Ultra Tiles, NITCO, Kajaria, Johnson
24	Grouts, Tile Adhesive	Latecrete, Kerakoll, BASF, Ardex Endura, Ferrous Crete, Roff (Pidilite), Ultratech TILEFLXO
25	Vinyl flooring	Armstrong/Forbo/Polyflor or approved equivalent make
	Wood Work	
26	Flush door shutters	Duro, Merino, Century, Durian, Green Ply (Only ISI marked flush doors shutters to be used.)
27	Particle Board	Kitply, Action TESA, Greenlam, Merino.
28	WPC (Wood Polymer Composite) board, Frame Shutter	ALSTONE, GREEN PLY, RAJSHRI
29	Laminated Particle Board	Action TESA, Greenlam, Century Ply, Merino
30	Laminates	Greenlam, Century Ply, Merino
31	Plywood	Green Ply, Century, Merino, Duro, Durian.
32	Natural veneer	Century, Green Ply, Merino, Greenlam
33	PVC Shutter	Rajshri, Sintex, M/s Jain Wood Industries
34	Block Board	Jayna, Orion Doors(Modern Wudtech Industries), Archidply, Saburi, Black Cobra, Green Panel
35	FRP Doors/Panelled & Wiremesh doors	Jayna, Jain Doors Pvt. Ltd., Bhatt FRP
36	Bamboowood Panel door, Flush door, cupboard shutter	Epitome Bamboo wood products (Mutha Industries Pvt. Ltd.) or approved equivalent make
	Fire doors	
37	Fire Rated Doors	Signum Fire Protection, Shakti Hormann, NAVAIR, Promat International, TATA Pravesh
38	Fire door Accessories	Yale, AssaAbloy, Ozone, Dorma, Becker Fire Solution, Shakti Hormann
	False Ceiling & Wall paneling	
39	False Ceiling suspension Grid	Armstrong, Hunter Douglas, Bollard, USG Boral, Saint Gobain, Aerolite, Dexune, Diamond Ceiling.
40	False Ceiling tiles (GRG tiles, Calcium silicate tiles, Mineral fiber tiles)	Armstrong, Hunter Douglas, USG Boral, Saint Gobain, Aerolite, Diamond Ceiling.
41	Gypsum Board	Gyproc (Saint Gobain), USG Boral,
42	Glass Wool	Dow Corning, U.P. Twiga, Isover
43	Acoustic Wall paneling	KNAUF (Armstrong), Anutone, Bollard, Saint Gobain, Arolite, Himalayan Acoustics

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44	Cement bonded wood particle board	Bison (NCL), Birla aerocon
Aluminium/ uPVC Doors & Windows		
45	Aluminium Section	Hindalco, Jindal, Indian Aluminium Co.
46	UPVC Doors & Windows (PROFILE makers & their authorized Fabricators only)	Fenesta, KOMERLING, Aluplast, Duroplast, Advika Fenster
Hardware (Doors, Windows, Cupboard, Kitchen)		
47	Anodised Aluminium Hardware (Heavy Duty)	Kinlong, Alualpha, Classic, Ebco
48	Aluminium sliding door roller etc.	TPI, Classic or equivalent
49	Hardware for uPVC Windows	Rotto, Dorset, Kinlong, Fenesta
50	Floor Spring	Godrej, Dorma, Hafele, Geze, DORSET, KICH
51	Door Closure	Godrej, Dorma, Hafele, Geze, DORSET, KICH
52	Stainless steel Fittings	Jindal, Dorma, Dorset, Godrej, Ozone, KICH, ARCH
53	Dash/Anchoring Fasteners	HILTI, Fischer, Bosch, Wurth
54	SS 304 Grade Kitchen Baskets	Godrej, Ebco, Hettick
Glass		
55	Clear/Float/Frosted/Reflective/ Coated Glass	Saint Gobain, AIS, Modiguard, Sisecam Flat Glass
Facade work		
56	Aluminium Composite Panel	Alstone, VIRGO, EUROBOUND, ALUTUFF, VIVA, REYNOARCH, Timex, ALEX, ALUTECH.
57	Aluminium High Pressure Composite Panel	VIRGO, ALUTUFF, VIVA, Timex.
58	Structural Glazing	Schueco India Pvt. Ltd./Wicono / Guttman or approved equivalent
59	Curtain Glazing	Hindalco, Jindal, Indal
60	Patch fittings/spider fitting	Godrej Dorma, Kich, Dorset, Hafele
61	High Pressure Laminate	Virgo, Marino, Century ply, Greenlam
Paints & Distempers		
62	Cement Based Wall Putty	Birla wall care, JK White, Berger, Asian Paints
63	Cement Primer (Interior)	Nerolac, BP White (Berger), Decoprime WT (Asian), White Primer (ICI), Birla Opus Prime I-10
64	Cement Primer (Exterior)	Nerolac Popular Primer White, Asian Paints (AP Trucare Exterior Wall Primer), Berger Weather Coat Exterior Primer, Dulux Professional Exterior, Birla Opus Prime E-10
65	Acrylic Emulsion Paint (Interior)	Asian Paints (Apolite All Protek), Nerolac (Beauty Gold Washable), Berger (Platina Easy Clean), ICI- Dulux: (3 in 1.), Birla Opus Calista Ever Clear/I50
66	Premium Acrylic Emulsion Paints (Interior)	Asian Paints: Royale, Nerolac : Impression, Berger : Silk Glamor ICI Dulux : Velvet touch Birla Opus Prime One Pure Elegance
67	Oil Bound Washable Distemper/Dry Distemper	Asian Paints (Professional Acrylic Distemper), Nerolac : Beauty Acrylic Distemper Berger : Bison Acrylic Distemper

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		Dulux ICI : Maxilite Birla Opus Prime D-20
68	1 st Quality Acrylic Distemper (washable/Ready Mix/Low VOC)	Asian Paints (Tractor Aqua Lock Paint) Berger : Commando or equivalent paints Birla Opus Prime D-20
69	Premium Acrylic Smooth Exterior Paint with silicon additive	Asian Paints : Apex Ultima, Nerolac : Excel Total Berger : Weathercoat Long Life 7/ All Guard ICI-Dulux : Weathersheild Ultra Clean Birla Opus Prime E-70/True look
70	Textured Exterior Paint	Asian Paints, Nerolac, Berger Paints, ICI Dulux (Tex-matt), Ultratech Paint, Luxture Birla Opus Prime
71	Synthetic Enamel Paint	Asian (Apolite Premium gloss enamel), Nerolac : Synthetic Hi gloss Berger : Luxol Hi gloss ICI-Dulux : Gloss Synthetic enamel Birla Opus Prime N-53/N52/ Sparkle glass/ Style Cover Max
72	Epoxy Paint	Asian Nerolac, Berger, ICI, Kansai Akzo Nobel, Birla Opus Prime
73	Fire Paint	Asian Paint, Akzo Nobel Coatings India Ltd. PROMAT, Jotun, Berger Paint, Birla Opus
74	Steel Primer (Red Oxide Zinc Chromate Primer)	Asian Paints, Nerolac, Berger, ICI, Birla Opus Prime/ NR8/ SGE RO Primer
75	Wood Primer	Asian Paints (Wood Primer- White/Pink), Berger ICI, Nerolac, Birla Opus Prime
76	Melamine Polish	Asian Paints Melamine Gold, Wudfin of Pidilite, Timbertone of ICI Dulux, Birla Opus Allwood
77	Gypsum Plaster	Ferrous Crete, Gyproc Saint Gobain, Ultratech, JK White
	Weather seals	
78	Epoxy Grouting compound	Saint Gobin-Weber, Markchem, Home Pride
79	Silicon based Structural sealant & Weather sealant	G.E. Plastics, Dow Corning, (Wacker), BASF, Pidilite (Dr. Fixit/Roff)
80	Poly-Sulphide Sealant	Fosroc, Pidilite (Dr. Fixit/Roff), Sika, BASF
	Plumbing & Drainage Works	
81	G.I./M.S. Pipe	Tata, Jindal (Hisar), PRAKASH SURYA.
82	G.I. Fittings	Unik, AVAk, Zoloto, Leader
83	CPVC Pipe & fitting	Astral, Supreme, Prince, Ashirwad, PRAYAG POLYMERS PVT. LTD
84	HDPE Pipes	Reliance, Jain Pipes, ORIPLAST, Supreme
85	DI Pipes	Electosteel, JSAW-JAL (JINDAL), Tata Ductura
86	DI Fittings	Electosteel, Jindal, Tata Ductura.
87	uPVC pipe and fittings	Astral, Supreme, Ashirwad, Prince, Finolex
88	Centrifugally Cast (spun) Iron pipes & fittings	NECO, Kapilansh, SKF, RPMF, BIC
89	Hubless Centrifugally Cast (spun) Iron Pipes & Fittings	NECO,SKF, Kapilansh

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90	C.I. Manhole covers, frames & GI Gratings	NECO, BIC, Kapilansh, SKF, RAJ Iron Foundary Agra.
91	SFRC/RCC Manhole covers & gratings	KK, JAIN, PARGATI, NTC
92	RCC Pipes (NP-2)/(NP-3)	Lakshmi, Sood&Sood, Jain Pipe Co. (Newai), Mahaveer Enterprises (Newai), any other ISI marked with the approved by Engineer in Charge.
93	PE-AL-PE Composite pressure pipes and accessories	Jindal (Jindal Pex tube Pvt. Ltd.), Kitec.
CP & Sanitary Fitting		
94	CP Brass Fittings (Superior Range)	Jaquar, Grohe, Roca, Kohler
95	CP Brass Fittings (Normal Range)	Hindware, Jaquar (ESSCO Series), Parryware, PRIMA (ISI marked), CERA, Plumber, Johnson, KINGSTON, PRAYAG POLYMERS PVT. LTD. (Series 7000 & 6000), PLATO, KEROVIT, RAK, Euronics
96	Sanitary ware, Fittings & accessories (Superior Range)	Kohler, Roca, Hindware, Jaquar
97	Sanitary ware, Fittings & accessories (Normal Range)	Hindware, CERA, Parryware, Jaquar (Esco), Johnson, PRIMA PRAYAG POLYMERS PVT. LTD, Somany, GLOCERA, RAK Ceramics, KEROVIT, Euronics
98	Mirror Glass	Atul, Modi Guard, Golden Fish, Sisecam
99	Stainless Steel Sink	Neelkanth, Nirali, Jayna, Johnson, PRAYAG POLYMERS PVT. LTD
100	Extruded Polystrene Insulation Board	Dowcorning, Supreme, Texas, Analco
101	SMC Tank	Sintex (Welspun), Sivosky, Mahindra
Miscellaneous		
102	Stainless Steel Railing, Accessories etc.	JINDAL, Dorma, Giesse, Godrej, Hardwyn, KICH
103	Paver Block & Kerb Stone	Pavcon Hyper Tiles/Dynamic Industries, Dala Tiles, Mayur, KK, Power, Sharda, Navya, Any other ISI marked with the approval of engineer in charge.
104	Floor hardener	Ironite, Ferrok, Hardonate, Saint Gobin-Weber
105	PVC water tank	ISI Market tanks of sintex, Supreme, Prayag, Astral.
Other Chemicals		
105	Acrylic Polymer	Sunanda Polyalk EP, Sika Latex, Dr. Fixit, Forsoc
106	Micro Concrete	Fosroc Renderoc RG or equivalent of Dr. Fixit, Sika, Ultratech, Forsoc
107	Polymer based bonding agent	Nitobond SBR 300 or equivalent of Sika, Dr. Fixit, Ultratech
108	Orgnosilane (water repellant coating on lime)	Zydex- Zycosil Max, CTS- Silo 112, Protecto Seal SW
109	Elastomeric coating compatible with lime and organosilicane protection	Zydex- Elastomax, or equivalent of Dr. Fixit, Forsoc, Sika Ultratech
110	Silicone solvent (Conservation grade water repellent containing silane or siloxane)	Silo 111, Silo 112 or equivalent of product of Dr. Fixit, Forsoc.
111	PU Injection grout	Sika Injection 201 CE, Dr. Fixit PU Foam Injection, Asian smartcare PU Injection foam or equivalent from Forsoc

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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 thereunder then the Guarantor will indemnify the principal and his successors against all loss, damage, cost expense otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR

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in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Government the decision of the Engineer-in-Charge will be final and binding on the parties.

IN WITNESS WHEREOF these presents have been executed by the 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:

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**TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN
RESPECT OF ALUMINIUM DOORS, WINDOWS VENTILATORS, STRUCTURAL GLAZING &
ALUMINIUM COMPOSITE PANEL WORKS**

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

WHEREAS THIS agreement is supplementary to a contract (Hereinafter called the Contract) dated _____ and made between the GUARANTOR OF THE ONE PART AND the Government of the other part, whereby the contractor inter alia, undertook to render the work in the said contract recited structurally stable, leak proof and sound material, workmanship, anodizing, colouring, sealing.

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

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

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

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

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

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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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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 affect 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

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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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**TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS
AFTER COMPLETION IN RESPECT OF STONE WORKS**

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 affect that the said work will remain structurally stable and guaranteed against faulty workmanship, finishing and unsound materials and other related problems.

NOW THE GUARANTOR hereby guarantee that work executed by him will remain structurally stable after the expiry of maintenance period prescribed in the contract for the minimum life of five years to be reckoned from the date after 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 risk and cost. The decision of the Engineer-in-Charge as to the cost payable by the Guarantor shall be final and binding.

That if the guarantor fails to make good all the defects, 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

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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. _____
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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 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

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of our liability for payment there under and the contractor shall have no claim against us for making such payment.

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. We, (indicate the name of the Bank) undertake not to revoke this guarantee except with the consent of the Government in writing.
8. This Bank Guarantee shall be valid up to unless extended on demand by the Government. Notwithstanding any 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:

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Signature.....
Name and address 2. Signature.....
Name and address | <p>Authorized signatory
Name
Designation
Staff code no.
Bank seal</p> |
|--|---|

*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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FROM OF APPLICATION BY THE CONTRACTOR FOR SEEKING RESCHEDULING OF MILESTONES

[Refer Clause 5.3]

1. Name of contractor
2. Name of work as given in the agreement
3. Agreement No.
4. Estimated amount put tender
5. Date of commencement of work as per agreement
6. Period allowed for completion of work as per agreement
7. Date of completion stipulation in agreement
8. Rescheduling of milestones done previously

Milestone No. Already Rescheduled	EE's Letter No. and Date	Rescheduling Of Milestones Done	
		Original Date	Rescheduled Date
(A) 1 st Milestone			
(B) 2 nd Milestone			

Rescheduling of Milestone applied for

Milestone No. For Which Rescheduling is Applied	Original/Rescheduled Date	Details And Period of Hindrances	Comments of Executive Engineer	Proposed Rescheduled Date of
(A) 1 st Milestone				
(B) 2 nd Milestone				

Submitted to the Sub-Divisional Officer

Signature of Contactor

Dated

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SCHEDULE OF QUANTITY

N/W Renovation of Prekshagrih, Shilphaat, Kalavithika and Kala Bhawan of North Central Zone Cultural Centre at Allahabad.
(SH:- Renovation of Kalavithika and General Toilet including Electrical works at NCZCC Campus Prayagraj.)

SLNo	Description	Qty	Unit	Rate	Amount	DSR No.
1	CEMENT CONCRETE (CAST IN SITU)					4
1.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					4.1
1.1.1	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	15.00	cum	7878.50	1,18,178.00	4.1.3
1.1.2	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	15.00	cum	6518.60	97,779.00	4.1.10
2	REINFORCED CEMENT CONCRETE					5
2.1	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15 degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	1.00	cum	11505.50	11,506.00	5.3
2.2	Centering and shuttering including strutting, propping etc. and removal of form for					5.9
2.2.1	Suspended floors, roofs, landings, balconies and access platform	7.00	sqm	927.25	6,491.00	5.9.3
2.3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					5.22
2.3.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	159.00	kg	107.85	17,148.00	5.22.6
3	CLADDING WORK					8
3.1	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels.					8.2
3.1.1	Granite stone slab of colour black, Cherry/Ruby red					8.2.2
3.1.1.1	Area of slab upto 0.50 sqnn	2.00	sqm	5413.50	10,827.00	8.2.2.1
3.1.1.2	Area of slab over 0.50 sqm	12.00	sqm	5136.30	61,636.00	8.2.2.2

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3.2	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3(1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	250.00	sqm	1267.95	3,16,988.00	8.31
4	WOOD AND P. V. C. WORK					9
4.1	Providing and fixing IS: 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete :					9.71
4.1.1	125x64x2.50 mm	48.00	each	129.85	6,233.00	9.71.1
4.2	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :					9.96
4.2.1	250x16 mm	72.00	each	260.60	18,763.00	9.96.2
4.3	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :					9.97
4.3.1	250x10 mm	72.00	each	115.15	8,291.00	9.97.2
4.3.2	150x10 mm	72.00	each	82.55	5,944.00	9.97.4
4.4	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :					9.1
4.4.1	125 mm	72.00	each	66.25	4,770.00	9.100.1
5	STEEL WORK					10
5.1	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.					10.16
5.1.1	Hot finished welded type tubes	160.00	kg	194.40	31,104.00	10.16.1
6	FLOORING					11
6.1	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including pointing the joints with white cement and matching pigments etc., complete.	130.00	sqm	1439.40	1,87,122.00	11.4

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6.2	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only. Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.					11.41A
6.2.1	Double charge vitrified tile polished finish of size					11.41A.1
6.2.1.1	Size of Tile 600 x 600 mm	340.00	sqm	1453.65	4,94,241.00	11.41A.1.1
6.3	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).					11.47
6.3.1	Size of Tile 600x600 mm	24.00	sqm	1893.90	45,454.00	11.47.2
7	ROOFING					12
7.1	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-Charge) of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05mm) with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	40.00	sqm	738.65	29,546.00	12.5
8	FINISHING					13
8.1	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					13.47
8.1.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)	1000.00	sqm	171.10	1,71,100.00	13.47.1
8.2	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :					13.61
8.2.1	Two or more coats on new work	170.00	sqm	155.90	26,503.00	13.61.1
8.3	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	1330.00	sqm	156.05	2,07,547.00	13.8

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8.4	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.					13.82
8.4.1	Two coats	1330.00	sqm	137.45	1,82,809.00	13.82.2
8.5	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.					13.85
8.5.1	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	1330.00	sqm	73.95	98,354.00	13.85.3
8.6	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	1330.00	sqm	25.15	33,450.00	13.91
9	REPAIRS TO BUILDING					14
9.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.					14.1
9.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	110.00	sqm	547.40	60,214.00	14.1.1
9.2	Dismantling W.C. Pan of all sizes including disposal of dismantled materials including malba all complete as per directions of Engineer-in-Charge.	12.00	each	134.10	1,609.00	14.82
9.3	Dismantling 15 to 40 mm dia G.I. pipe including stacking of dismantled pipes (within 50 metres lead) as per direction of Engineer-in-Charge. (a) Internal Work-Exposed on wall	430.00	metre	3.25	1,398.00	14.84
10	Dismantling and Demolishing					15
10.1	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :					15.13
10.1.1	Of area 3 sq. metres and below	33.00	each	143.50	4,736.00	15.13.1
10.2	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.					15.23
10.2.1	For thickness of tiles 10 mm to 25 mm	780.00	sqm	73.40	57,252.00	15.23.1
10.3	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:					15.28
10.3.1	Asbestos Cement sheet	40.00	sqm	77.30	3,092.00	15.28.2
10.4	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	40.00	cum	263.95	10,558.00	15.6
11	SANITARY INSTALLATIONS					17

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11.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:					17.1
11.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	10.00	each	6767.40	67,674.00	17.1.1
11.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :					17.2
11.2.1	W.C. pan with ISI marked white solid plastic seat and lid	8.00	each	6515.55	52,124.00	17.2.1
11.3	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :					17.4
11.3.1	One urinal basin with 5 litre white P.V.C. automatic flushing cistern	3.00	each	6258.75	18,776.00	17.4.1
11.4	Providing and fixing soil, waste and vent pipes :					17.35
11.4.1	100 mm dia					17.35.1
11.4.1.1	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	174.00	metre	1180.75	2,05,451.00	17.35.1.2
11.5	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :					17.6
11.5.1	100 mm inlet and 100 mm outlet					17.60.1
11.5.1.1	Sand cast iron S&S as per IS: 3989	30.00	each	1996.50	59,895.00	17.60.1.1
11.6	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.					17.73
11.6.1	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	8.00	each	708.95	5,672.00	17.73.2
11.7	Providing and fixing PTMT shelf 440 mm long, 124 mm width and 36 mm height of approved quality and colour, weighing not less than 300 gms.	8.00	each	713.20	5,706.00	17.74
12	WATER SUPPLY					18
12.1	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. Internal work - Exposed on wall					18.1
12.1.1	25 mm dia nominal bore	205.00	metre	551.70	1,13,099.00	18.10.3
12.2	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, including making good the walls etc. concealed pipe, including painting with anti corrosive					18.11

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	bitumastic paint, cutting chases and making good the wall :					
12.2.1	15 mm dia nominal bore	205.00	metre	580.45	1,18,992.00	18.11.1
12.2.2	20 mm dia nominal bore	40.00	metre	635.20	25,408.00	18.11.2
12.3	Providing and fixing rectangular high density polyethylene water storage loft tank with cover, conforming to ISI : 12701, colour of opaque white or as approved by Engineer-in-charge. The rate includes making necessary holes for inlet, outlet & over flow pipes. The base support including fittings & fixtures for tank shall be paid separately.	8000.00	per litre	11.00	88,000.00	18.48A
12.4	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :					18.49
12.4.1	15 mm nominal bore	18.00	each	506.80	9,122.00	18.49.1
12.5	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.					18.51
12.5.1	15 mm nominal bore	14.00	each	798.95	11,185.00	18.51.1
12.6	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931					18.53
12.6.1	15 mm nominal bore	60.00	each	574.30	34,458.00	18.53.1
13	WATER PROOFING					22
13.1	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	116.00	sqm	617.05	71,578.00	22.5
13.2	Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer- in-Charge.	193.00	sqm	563.10	1,08,678.00	22.22A
14	NEW TECHNOLOGIES AND MATERIALS					26

C= }
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14.1	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid decorative type flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm ² , modulus of elasticity 850 N/mm ² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant. WPC to be laminated with PVC foil of minimum 14 microns thick of approved design pasted with hot melt adhesive on both faces of shutter and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately)					26.88
14.1.1	30 mm thick	47.00	sqm	4764.20	2,23,917.00	26.88.1
14.1.2	35 mm thick	8.00	sqm	5432.85	43,463.00	26.88.2
	Total				35,93,841.00	
	Modified Estimated Cost after using correction factor on DSR 2023 on account of GST @ 0.973 * 3673055 = 3573883				34,96,807.00	
	Add Cost Index as per letter issued by vide letter no. 23(197)/ADG(L)/3164 dated 18.12.2025 @3% on SR&DR Total 35,73,883.00				1,04,904.00	
	Total				36,01,711.00	
15	N.S. Items					50
15.1	Providing and fixing ABS body Hand shower Health Faucet with 1.00 metre long flexible tube in chrome finish with wall hook Make Jaquar Cat No. ALD-565 or equivalent including cutting and making good the walls wherever required complete as per directed by Engineer-in-Charge (Contractor Shall Provide 10 year Warrantee certificate and Manufacturer's Test Certificate).	5.00	Nos.	1036.05	5,180.00	50.922
15.2	Providing and fixing oval shape under counter wash basin with 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :White Vitreous China Wash basin size 510 x 405 x 185 mm with a single 15 mm C.P. brass pillar tap of approved make.	18.00	each	3275.83	58,965.00	50.923
	Total				36,65,856.00	

Executive Engineer Allahabad
CPWD, Prayagraj

C= }
I= } Nil
O= }

AE(P)(C)