

भारत सरकार
कार्यालय
कार्यपालक अभियन्ता
'ए' मंडल
केन्द्रीय लोक निर्माण विभाग, नई दिल्ली
निविदा आमन्त्रण सूचना

एन.आई.टी. सं: 50/EE/AD/2026-27

तकनीकी स्वीकृती सं: 33 / का0अ0 / ए0म0 / 2026-27

कार्य का नाम: A/R & M/O GPRA Complex Timarpur within jurisdiction of Sub Div-2A i.e. SC 234 during 2026-27. (SH: - Change of tenancy for various type of quarters - Civil work.)

अनुमानित लागत : ₹. 50,65,278/-

अग्रिम राशि : ₹. 1,01,306/-

अनुमत्य समय : Six Months

सहायक अभियन्ता (यो.)
'ए' मंडल, के.लो.नि.वि.
नई दिल्ली

कार्यपालक अभियन्ता
'ए' मंडल, के.लो.नि.वि.
नई दिल्ली

INDEX

निविदा आमन्त्रण सूचना

कार्य का नाम: A/R & M/O GPRA Complex Timarpur within jurisdiction of Sub Div-2A i.e. SC 234 during 2026-27. (SH: - Change of tenancy for various type of quarters - Civil work.)

Sl. No.	Contents	Page No.
1.	Check List for bidders	01 – 02
2.	CPWD-6 for e-tendering	03 – 06
3.	Information and instruction for Contractor for tendering	07 – 09
4.	Proforma for earnest money deposition	10
5.	Percentage Rate tender for works (Form CPWD-7)	11 – 13
6.	Schedule A to F	14 – 21
7.	General conditions	22 – 29
8.	Special Condition of work	30
9.	Condition for Cement	31
10.	Conditions For Reinforcement Steel	32 – 33
11.	Particular Specification	34
12.	Applicability of EPF and ESI and uploading of Labour Welfare Details	35
13.	List of Preferred Make of Materials	36 – 42
14.	List of Mandatory Test	43 – 44
15.	Field Testing Instruments	45
16.	Form of Performance Security Bank Guarantee	46 – 47
17.	NGT Guideline	48 – 52
18.	Water Proofing Bond	53 – 54
19.	Schedule of Quantities	55 - 67

प्रमाणित किया जाता है कि इस एन.आई.टी. मे 1 से 67 पेज है (सड़सठ पेज)

के द्वारा तैयार

के द्वारा जांचा गया

वरिष्ठ प्रारूपकार
'ए' मंडल, के.लो.नि.वि.
नई दिल्ली

सहायक अभियन्ता (यो.)
'ए' मंडल, के.लो.नि.वि.
नई दिल्ली

इस एन.आई.टी. सं. 50/EE/AD/2026-27 को ₹. 50,65,278/- (रैं पचास लाख पैसठ हजार दौ सौ अठहत्तर मात्र) के लिए मंजूरी दी जाती है।

कार्यपालक अभियन्ता
'ए' मंडल, के.लो.नि.वि.
नई दिल्ली

CHECK LIST FOR BIDDERS FOR SUBMISSION OF BIDS

- 1 The bidder should read all the instructions, items & conditions, contract clauses, nomenclature of items, specifications etc., contained in the bids document very carefully, before quoting the rates.
- 2 The bidder should also read the General Conditions of Contract - 2023 (Maintenance work) for CPWD works, published by DG (W), CPWD, Nirman Bhawan, New Delhi which will be a part of the Agreement with up to date amendments upto the date of receipt of tenders.
- 3 The bidder shall quote his rates keeping in mind the specifications, terms & conditions, additional and special conditions etc. and nothing extra shall be payable unless otherwise specified.
- 4 The bidder shall have to make his own arrangement for housing facilities for staff and labour away from construction site and shall have to transport the labour to and fro between construction site and labour camp at his own cost. No labour huts will be allowed to be constructed at the project site except a few temporary sheds for chowkidars and storekeepers at project site. Any decision in this regard shall rest with the Engineer-in-charge and the contractor shall have no claim on this account.
- 5 The work required to be executed in occupied buildings. The bidder shall take suitable precaution to ensure quality of workmanship as well as the progress of the work. He shall regulate the labour accordingly.
- 6 The bidder shall make environment friendly arrangement for disposal of dismantle/waste materials from upper floors.
- 7 **C.P.W.D Contractor's Labour Regulations:**

Payment of Wages (as per DG, CPWD OM no. DG/SE/CM/CON/283 dated 05.05.2015)

 - (i). Wages due to every worker shall be paid to him direct by contractor through Bank or ECS or online transfer to his bank account.
 - (ii) All wages shall be paid through bank or ECS or online transfer.
 - (iii) It shall be the duty of the contractor to ensure the disbursement of wages through bank account of labour
 - (iv) The contractor shall obtain from the junior Engineer or any other authorized representative of the Engineer-in-Charge as the case may be, a certificate under his signature at the end of the entries in the "Register of Wages" or the "Wage cum-Muster Roll" as the case may be in the following form:-

"Certified that the amount shown in column No.....has been paid to the workman concerned through bank account of labour on.....at....."

8 Modifications as per DG, CPWD OM no. DG/SE/CM/CON/285 dated 04/06/2015:-

- a. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/registration or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW welfare board and program chart(time and progress) within the period specified in schedule 'F' .
- b. As per recently introduced clause 7A, no running account bill shall be paid for the work till the applicable labour license, registration with EPFO, ESIC and BOCW welfare board whatever applicable are submitted by the contractor to the Engineer-in-charge.
- c. The contractor shall also comply with provision of the interstate migrant workman (regulation of employment) and condition of service Act 1979.

CPWD-6 (NOTICE E-TENDERING)

1. Online **Percentage Rate** tenders are invited on behalf of the President of India from approved eligible contractors of appropriate class in composite / Building & roads category in CPWD for the work of– **A/R & M/O GPRA Complex Timarpur within jurisdiction of Sub Div-2A i.e. SC 234 during 2026-27. (SH: - Change of tenancy for various type of quarters - Civil work.)**
The enlistment of the contractors should be valid on the last date of submission of tender. In case the last date of submission of tender is extended, the enlistment of contractor should be valid on the original date of submission of tenders
- 1.1 The work is estimated to cost ₹. **50,65,278/-**. This estimate, however, is given merely as a rough guide.
2. Agreement shall be drawn with the successful bidders on prescribed Form No. **CPWD-7** print edition 2023 with upto date amendments, which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in. Tenderer 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 **Six 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 tender documents.
4. The site for the work shall be made available in parts.
5. Tender documents consisting of plans, specifications, the schedule of quantities of the 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 and downloaded from website <https://etender.cpwd.gov.in> or www.cpwd.gov.in 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 time and date 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 of CPWD enlisted contractor) and by the concerned CE/SE (in case on 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 tender as notified.
8. When tenders 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 tender submitted earlier shall become invalid.
9. Tender Earnest money in the form of Treasury Challan or Demand Draft or Pay Order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour of Executive Engineer 'A' Division, CPWD, New Delhi) shall be scanned and uploaded to 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 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.**
This receipt shall also be uploaded to the e-tendering website by the intending bidder upto the specified bid submission date and time.

A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 lac, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any commercial

bank having validity for a period of 90 days for single bid works and 180 days for two bid system or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

Copy of Enlistment Order and certificate of work experience and other documents as specified in the press notice shall be scanned and uploaded to the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder only within a week physical 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 office of CPWD** and other documents scanned and uploaded are found in order.

The bid submitted shall be opened **at 3:30** PM on 10/09/2026****

10. The bid submitted shall become invalid if:-
 - (i) The bidder is found ineligible.
 - (ii) **The bidder does not deposit original EMD with division office of any Executive Engineer, CPWD.**
 - (iii) The bidder does not upload all the documents (GST registration) as stipulated in the bid document **including the copy of receipt for deposition of original EMD.**
 - (iv) 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 tender opening authority.
 - v) **If a bidder quotes nil rates against each item in Percentage 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 bidder.**
11. The contractor whose bid is accepted will be required to furnish performance guarantee **and additional performance guarantee (if any)** 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 and **additional performance guarantee (if any)** 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 **and additional performance guarantee (if any)**
 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.
 The contractor whose tender is accepted will also be required to furnish by way of Security Deposit for the fulfilment of his contract, an amount equal to 2.5% of the tendered amount of the work. The security deposit will be collected by deductions from the running bills as well as final bill of the contractor at the rates mentioned above. The security amount will also be accepted in the shape of Insurance Surety Bonds, Account Payee Demand Draft, Fixed deposit receipt, Banker's Cheque or Bank guarantee (as prescribed) from any of the commercial banks. Will be accepted for this purpose provided confirmatory advice is enclosed.
12. **The description of the work is as follows: A/R & M/O GPRA Complex Timarpur within jurisdiction of Sub Div-2A i.e. SC 234 during 2026-27. (SH: - Change of tenancy for various type of quarters - Civil work.)**
 Intending **bidders** are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders 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 circumstance which may influence or effect their tender. A **bidder** shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderes shall be responsible for arranging and maintaining at his own cost all materials, tools and 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 tender by a bidder implies that he has read this notice and all other contract documents 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 plants etc., will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the **bidder** shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractor who resort to canvassing will be liable to 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 tender and the **bidder** shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to tender 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 as Divisional Accountant or as an officer in any capacity between the grades of Executive 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 Gazette officer in the Central Public Works Department or in the Ministry of Urban Development. 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 Gazette 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 previous 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 tender or engagement in the contractor's service.
18. The bid for the works shall remain open for acceptance for a period of **Thirty (30) days** from the date of opening of bids in case of single bid system or **Seventy-Five (75) days** from the date of opening of technical bid in case bids are invited on 2 or 3 bid envelope system. Further
 - (i) if any tenderer withdraws his tender within 7 days after last date and time (24 hours basis) of submission bids or makes any modification in the terms & conditions of the tender which is not acceptable to the department 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 or makes any modification in the terms & conditions of the tender which is not acceptable to the department then the Government shall without prejudice to any other right of 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) Withdrawl of the tender, by the tendererm, shall only be made through e-tender portal. Any other method i.e. through letter / e-mail etc. shall not be considered.
 - (iv) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work. The tender inviting authority gets intimation through SMS and email in this regard.
19. This Notice inviting tender shall form a part of the contract document. The successful **Bidder**/contractor, on acceptance of his tender 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 tender, all the documents including additional conditions, specifications and drawings, if any, forming part of the tender as uploaded at the time of invitation of tender and 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** shall be applicable.
20. In case of extension of agreement due to delay and / or reduction in scope of work due to foreclosure, no claim on account of reduction in value of work, loss of business, loss of profit, consequently overheads, any type of interest etc. shall be entertained.
21. If the exigencies of the work so demand, the engineer-in-charge may allow payment to a third party, who is creditor to the contractor, after fulfilling the conditions under clause 7B. Addition
22. 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 and uploading tender can be resolved through the concerned Executive Engineer/ Assistant Engineer (Phone no *....., e- mail Id *.....) or ERP help line 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.

**Executive Engineer
'A' Division, CPWD
New Delhi.**

**INFORMATION AND INSTRUCTION FOR CONTRACTORS FOR
E-TENDERING
(Applicable for inviting open tenders)**

The Executive Engineer 'A' Division, CPWD 3rd Floor, I.P. Bhawan, New Delhi invites on behalf of President of India online **Percentage Rate tender** from approved eligible contractors in composite/ Building & roads category of appropriate class in CPWD for the following works :-

S. No.	NIT No	Name of work & location	Estimate cost put to tender	Earnest Money	Period of completion	Last date & time of submission of tender online	Time & date of opening of tender
1	50/EE/AD/2026-27	A/R & M/O GPRA Complex Timarpur within jurisdiction of Sub Div-2A i.e. SC 234 during 2026-27. (SH: - Change of tenancy for various type of quarters - Civil work.)	₹. 50,65,278/-	₹.1,01,306/-	Six Months	upto 3:00 PM on 10/09/2026 **	at 3:30 PM on 10/09/2026 **

- 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 for e-tendering forming 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 <http://www.cpwd.gov.in> or www.eprocure.gov.in free of cost.
- 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 Demand Draft or Pay order or Banker's Cheque or Deposit at call Receipt of Fixed Deposit Receipts and Bank Guarantee of any Schedule 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, CPWD** and other documents as specified.
- Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
- On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
- Contractor can upload documents in the form of JPEG format and PDF format.
- The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the Schedule of Quantities, which rates and prices shall, except as other wise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.
- If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document and his decision shall be final and binding on the contractor.

10. 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 <http://etender.cpwd.gov.in>.
11. GST on all materials as well as GST on Work Contract or any other taxes applicable in respect of this contract shall be payable by the Contractor. Percentage rate quoted by him shall be inclusive of such taxes, levies etc. and Government will not entertain any claim for reimbursement whatsoever in respect of the same. The percentage rates of the contract shall be inclusive of all taxes and levies and nothing extra shall be paid. Further the percentage rate quoted by the contractor shall be inclusive of labour welfare cess and the same shall be recovered from the contractors' bills and will be remitted by the department.
12. Applicants are advised to keep visiting the above-mentioned web-sites from time to time (till the deadline for bid submission) for any updates in respect of the tender documents, if any. Failure to do so shall not absolve the applicant of his liabilities to submit the applications complete in all respects including updates thereof, if any. An incomplete application may be liable for rejection.
13. The documents to be physically submitted shall be page numbered and each page shall be signed by authorized signatory.
14. Any error in description, quantity or rate in Schedule of quantities or any omission there from shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract.
15. If any information furnished by the applicant is found to be incorrect at a later stage, he shall be liable to be debarred from tendering/taking up of works in CPWD. The department reserves the right to verify the particulars furnished by the applicant independently.
16. Any dispute arising out of this tender including dispute related to encashment of any Bank Guarantee/ FDR etc., shall be subject to the jurisdiction of courts of Delhi State only.
17. **In case of extension of agreement due to delay/reduction in scope of work no claim on account of reduction in value of work, loss of business, loss of profit, consequently overheads, any type of interest etc. shall be entertained.**
18. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in pink colour and the moment rate is entered, it turns sky blue.
In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0".
Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO). **However If a tenderer quotes nil rates against each item in Percentage 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.** (Amended Vide No. DG/MAN/325 dated:- 24/08/2015)
19. **The EMD shall be made from the account of the bidder submitting the bid, if issued from the account other than that of the bidder submitting the bid shall not be accepted.**

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

1. Enlistment Order of the Contractor.
2. Certificate of Registration for GST, if already obtained by the bidder.
If the bidder has not obtained GST registration as applicable above then he shall scan and upload following under taking along with other 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”

3. Scanned Copy of proof of deposition of EMD. **(The EMD shall be made from the account of the bidder submitting the bid, if issued from the account other than that of the bidder submitting the bid shall not be accepted).**
4. Copy of PAN card.
5. Copy of receipt for deposition of original EMD issued from division office of any Executive Engineer, CPWD (The EMD document shall be issued from the place in which the office of receiving division office is situated).
6. Copy of Certificate of ERP Training through any of the CPWD Regional Training Institutes (RTIs) or through the National CPWD Academy (NCA), Ghaziabad or through any other special training arranged by ERP unit at CPWD Headquarter.

NOTE :- No cutting/over writing shall be allowed in Treasury Challan/Demand, Draft/Pay order of Banker's Cheque/ Deposit at Receipt / Bank Guarantee of any schedule Bank. If found so, their bid will be rejected.

**Executive Engineer
'A' Division, CPWD
IP Bhawan, New Delhi**

Section 20A.14

1. Information and Instructions for Executive Engineer for e-tendering.
2. The NIT approving authority/ EE at the time of issue of NIT shall also fill and upload the following prescribed format of receipt of deposition of original EMD along with NIT :-

Receipt of deposition of original EMD (Receipt No. / date)
Name of Work: - A/R & M/O GPRA Complex Timarpur within jurisdiction of Sub Div-2A i.e. SC 234 during 2026-27. (SH: - Change of tenancy for various type of quarters - Civil work.) 1. NIT No. 50/EE/AD/2026-27 2. Estimated Cost ₹. 50,65,278/- 3. Amount of Earnest Money Deposit ₹. 1,01,306/- 4. Last date of submission of bid upto 3:00 PM on 10/09/2026** ** To be filled by Divisional Accountant
1. Name of contractor# 2. Form EMD# 3. Amount of Earnest Money Deposit# 4. Date of submission of EMD# Signature, Name and Designation : of EMD receiving officer (EE/AE(P)/AAO) along with Office Stamp (# to be filled by EMD receiving EE)

3. The Executive Engineer receiving EMD in original from shall examine the EMD deposited by the bidder and shall issue a receipt of deposition of earnest money to the agency to the agency in a given format uploaded by tender inviting EE. The receipt may be issued by AE(P)/AAO.
4. The Executive Engineer receiving original EMD shall also intimate tender inviting Executive Engineer about deposition of EMD by the agency by email/fax/telephonically.
5. The original EMD receiving Executive Engineer shall release the EMD after verification from the e-tendering portal website (www.etender.cpwd.gov.in free view of tender) that the particular contractor is not L-1 tenderer and work is awarded.
6. The tender inviting Executive Engineer will call for original EMD of the L-1 tenderer from EMD receiving Executive Engineer immediately.

**Executive Engineer
'A' Division, CPWD
IP Bhawan, New Delhi**

के.लो.नि.वि./C.P.W.D.- 7

भारत सरकार /GOVERNMENT OF INDIA
केन्द्रीय लोक निर्माण विभाग/CENTRAL PUBLIC WORKS DEPARTMENT

राज्य STATE :- New Delhi.

परिमंडल CIRCLE: - Delhi Circle-2

शाखा BRANCH :- B & R

मंडल DIVISION :- A- Division

क्षेत्र REGION :- ADG (RD)

उपमंडल SUB DIVISION: -2/A Sub Division

सिविल कार्यों के लिए मद दर निविदा एवं संविदा
Percentage Rate Tender & Contract for Civil Works

(A) कार्य के लिए निविदा: Tender for the work of :--

A/R & M/O GPRA Complex Timarpur within jurisdiction of Sub Div-2A i.e. SC 234 during 2026-27. (SH: - Change of tenancy for various type of quarters - Civil work.)

(i) Tenders to be **submitted online** by **3:00** PM on 10/09/2026****

(ii) To be **opened** on line in presence of tenders who may be present at **3:30** P.M. on 10/09/2026**** in the office of Executive Engineer, A Division, CPWD, IP Bhawan, New Delhi.

Issued to Tender document made available Online to the agency.

Signature of the Officer issuing the documents. Online uploading authority

Designation: Executive Engineer, A Division, CPWD

Date of issue..... As per NIT

**** To be filled by Divisional Accountant**

निविदा / TENDER

मैंने/हमने कार्य के लिए निविदा आमंत्रण सूचना, अनुसूची क, ख, ग, घ, ङ, और च, लागू विनिर्देश, नक्शे एवं डिजाइन, सामान्य नियम एवं निर्देश, ठेके के उपबंध, विशिष्ट शर्तें, दर अनुसूची एवं अन्य कागजात तथा ठेके की शर्तों में दिए गए नियम तथा निविदा कागजात में उल्लिखित अन्य बातों को पढ़ व जांच लिया है।

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, clause 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 documents for the work.

मैं/हम, एतद्वारा भारत के राष्ट्रपति के लिए अनुसूची 'च' में विनिर्दिष्ट समय के भीतर विनिर्दिष्ट कार्य, यथा—मात्राओं की अनुसूची तथा सभी संबंधित विनिर्देशों, डिजाइनों, नक्शों के अनुरूप तथा सामान्य नियमावली के नियम-1 और ठेके की शर्तों के खंड-11 में उल्लिखित लिखित अनुदेशों एवं ऐसी सामग्रियों, जो प्रदान की जाती है और उसके संबंध में, ऐसी शर्तें जो लागू हों, के अनुरूप निष्पादन हेतु निविदा देता हूँ/देते हैं।

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 respects with the specifications, designs, drawings 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 respects in accordance with, such conditions so far as applicable.

हम निविदा को, इसके खोले जाने की अन्तिम तारीख से 30 (तीस) दिन के लिए खुला रखने तथा इसकी शर्तों एवं निबंधनों में किसी प्रकार का परिवर्तन न करने के लिए सहमत हैं।

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

₹की धनराशि, धरोहर राशि के रूप में नकद/देजरी चालान रसीद/अनुसूचित बैंक की माँग जमा रसीद/अनुसूचित बैंक की सावधी जमा रसीद/ अनुसूचित बैंक के डिमांड ड्राफ्ट/अनुसूचित बैंक द्वारा जारी बैंक गारंटी के रूप में एतद्वारा अग्रेषित की जाती है। यदि मैं/ हम निर्धारित निष्पादन गारंटी को निर्धारित समय अवधि में प्रस्तुत करने में असफल रहते हैं तो मैं/हम यह मंजूर करते हैं कि भारत के उक्त राष्ट्रपति या उनके कार्यालय के उत्तराधिकारी किसी अन्य अधिकारी या उपचारी उपाय पर प्रतिकूल प्रभाव डाले बिना उक्त धरोहर राशि जब्त करने के लिए पूर्णतया स्वतंत्र होंगे। इसके अलावा, यदि मैं/हम विनिर्दिष्ट कार्य प्रारम्भ करने के असफल रहते हैं तो मैं/हम यह मंजूर करते हैं कि भारत के राष्ट्रपति या उनके कार्यालय के उत्तराधिकारी कानून में उपलब्ध किसी अन्य अधिकार या उपचारी उपाय पर प्रतिकूल प्रभाव डाले बिना उक्त धरोहर राशि, तथा निष्पादन गारंटी जब्त करने के लिए पूर्णतया स्वतंत्र होंगे अन्यथा उक्त धरोहर राशि निविदा कागजात के अनुसार उसमें निहित शर्तों व निबंधनों के अनुसार कार्यों के निष्पादन एवं आदिष्ट विचलनों को अनुसूची 'च' में वर्णित प्रतिशत से अनधिक व निविदा प्रपत्र के खण्डों 12.2 व 12.3 में निहित प्रावधानों के अनुसार निश्चित की जाने वाली दरों पर उस सीमा से अधिक के विचलनों के करने के लिए उनके द्वारा प्रतिभूति-निक्षेप के रूप में रोक ली जायेगी। इसके अतिरिक्त मैं/हम सहमत हैं कि बयाना राशि या बयाना राशि तथा उपर्युक्त निष्पादन गारंटी जब्त हो जाने के मामले में मुझे/हमें कार्य की पुनः निविदा प्रक्रिया में भाग लेने से रोक दिया जाएगा।

A sum of **₹. 1,01,306/- is here by forwarded in** Cash /Receipt Treasury Challan /Deposit at call Receipt of a Scheduled Bank /fixed deposit receipt of schedule bank/demand draft of a Scheduled bank/Bank Guarantee issued by a schedule bank, as earnest money. If I/we, fail to furnish the prescribed performance guarantee **and additional performance guarantee (if any)** within prescribed period, the President of India or his successor, in office shall without prejudice to any other right or remedy, be at liberty to suspend the bidder for One year and bidder shall not be eligible to bid for

CPWD tenders from date of issue of suspension order. Further, if I/we the bidder fail to commence work as specified, then President of India or the successors in office shall without prejudice to any other right to or remedy available in law, be at liberty to forfeit the said performance guarantee **and additional performance guarantee (if any)** absolutely. The said Performance Guarantee **and additional performance guarantee (if any)** shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form. Further I/we agree that in case of forfeiture of Earnest money or both earnest money & Performance Guarantee **and additional performance guarantee (if any)** as aforesaid, I/we shall be debarred for participation in the re-tendering process of the work.

मैं वचन देता हूँ तथा पुष्टि करते हूँ/हम वचन देते हैं तथा पुष्टि करते हैं कि पात्रता के लिए समान निर्माण कार्य को बैंक टू बैंक आधार पर एक अन्य ठेकेदार द्वारा नहीं करवाया गया है। इसके अलावा यदि इस प्रकार का उल्लंघन विभाग की जानकारी में आता है तो मुझे/हमें भविष्य में केलोनिवि में निविदा देने के हमेशा के लिए वंचित कर दिया जाएगा। साथ ही, यदि कार्य के प्रारंभ होने की तारीख से पहले इस प्रकार का उल्लंघन विभाग की जानकारी में आता है तो भारसाधक इंजीनियर को बयाना राशि जमा से और कार्य निष्पादन गारंटी की समग्र राशि जब्त करने की स्वतंत्रता होगी।

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 **and additional performance guarantee (if any).**

मैं/हम एतद्वारा घोषणा करते हैं कि मैं/हम निविदा कागजातों, नक्शों और कार्य से संबंधित अन्य अभिलेखा को गुप्त/गोपनीय कागजात के रूप में रखेंगे और उनसे प्राप्त/ली गई जानकारी किसी अन्य को, जिन्हें मैं/हम सूचित करने के लिए प्राधिकृत हो, से भिन्न किसी को, नहीं बताएंगे या जानकारी को किसी ऐसे रूप में प्रयोग नहीं करेंगे जो राज्य की सुरक्षा के लिए प्रतिकूल हो।

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 authorised to communicate the same or use the information in any manner prejudicial to the safety of the State.

तारीख Dated

ठेकेदार के हस्ताक्षर Signature of Contractor

डाक पता Postal Address #

साक्षी Witness : #

पता Address: #

उपजीविका Occupation : #

स्वीकृति / ACCEPTANCE

मैं भारत के राष्ट्रपति की ओर से तथा उनके लिए ₹:- *-----/- (₹ *-----) की

राशि के लिए उपर्युक्त निविदा (अधोलिखित पत्रों के अनुसार परिवर्तित) स्वीकार करता हूँ।

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 ₹. *-----/- (₹ *-----/-)

नीचे दिए गए पत्र इस ठेका करार का हिस्सा होंगे।

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

i) *

ii) *

iii) *

भारत के राष्ट्रपति की ओर से तथा उनके लिए

For & on behalf of the President of India.

हस्ताक्षर Signature

पदनाम Designation

तारीख Dated *

* To be filled in by EE

To be filled by the contractor

सिविल कार्यों की अनुसूचियां SCHEDULES FOR CIVIL WORKS

अनुसूची 'क' SCHEDULE 'A' मात्राओं की अनुसूची (संलग्न)

Schedule of quantities (Enclosed)

At Pages : 55 - 67

अनुसूची 'ख' SCHEDULE 'B' ठेकेदार की निर्गत की जाने वाली सामग्रियों की अनुसूची

Schedule of materials to be issued to the contractor.

मद सं Sl. No.	मद विवरण Description of Item	मात्रा Quantity	जिस दर पर सामग्रियां ठेकेदार को प्रभावित होगी वह दर अंकों एवं शब्दों में। Rates in figures & words at which the material will be charged to the contractor	निर्गत स्थान Place of Issue
1	2	3	4	5
NIL (Material required for the work shall be arranged by the Contractor)				

अनुसूची 'ग' SCHEDULE 'C'

ठेकेदार को भाड़े पर दिए जाने वाले औजार एवं संयंत्र
Tools and plants to be hired to the contractor

क्रम सं Sl. No.	विवरण Description	भाड़ा प्रभार प्रतिदिन Hire Charges per day	निर्गत स्थान Place of Issue
1	2	3	4
NIL (shall be arranged by the Contractor)			

EXECUTIVE ENGINEER
A- Division, CPWD
New Delhi

अनुसूची 'घ' SCHEDULE 'D'

कार्य के लिए विशेष अपेक्षाएं/दस्तावेज, यदि कोई हों, की अतिरिक्त अनुसूची

Extra Schedule for specific requirements/documents for the work, if any.

1. As per particular specification, additional specification, General conditions, additional conditions and special condition etc attached and work shall be executed according to General Condition of Contract 2023(Maintenance works) for CPWD.

अनुसूची 'ड' SCHEDULE 'E'

ठेके की सामान्य शर्तों का संदर्भ

1. Reference to General Conditions of contract: **General Conditions of Contract 2023 (Maintenance works) for CPWD with amendments issued upto previous day of online receipt of tender.**

कार्य का नाम

Name of work: A/R & M/O GPRA Complex Timarpur within jurisdiction of Sub Div-2A i.e. SC 234 during 2026-27. (SH: - Change of tenancy for various type of quarters - Civil work.)

(i) कार्य की अनुमानित लागत Estimated cost of work: ₹. 50,65,278/-

(ii) धरोहर राशि Earnest money: : ₹. 1,01,306/-

(iii) निष्पादन गारंटी Performance guarantee

:(a) 5% of tendered value or Estimated Cost Put to Tender (ECPT) whichever is higher.

(b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.

(iv) प्रतिभूति निक्षेप: Security Deposit: : 2.5% of tendered value

अनुसूची 'च' SCHEDULE 'F'

सामान्य नियम एवं दिशानिर्देश:

General Rules & Directions: General Conditions of Contract for CPWD Works 2023 with amendments upto previous day of online receipt of tender shall be read with NIT.

निविदा आमंत्रण करने वाला प्राधिकारी

Officer inviting tender -

**Executive Engineer/A Division
CPWD/New Delhi.**

कार्य की मर्दों की मात्रा के लिए अधिकतम प्रतिशत जिससे अधिक निष्पादित मर्दों के लिए दरों का निर्धारण खण्ड 12.2 और 12.3 के अनुसार होगा. निम्नानुसार
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3. See below

परिभाषाएँ:— Definitions:

2(v)	भारसाधक इंजीनियर Engineer-in-Charge	Executive Engineer/A- Division /CPWD/New Delhi
2(viii)	स्वीकार कर्ता प्राधिकारी Accepting Authority	Executive Engineer/A- Division /CPWD/New Delhi.
2(x)	अतिरिक्त और लाभों को पूरा करने के लिए सामग्रियों की लागत पर प्रतिशतता Percentage on cost of materials and labour to cover all overheads and profits.	15% (7.5% C.P. + 7.5% O.H.)
2(xi)	दरों की मानक अनुसूची Standard schedule of Rates:	DSR 2023 with correction slips upto previous day of online receipt of tender & Market rate for Non DSR items
2(xii)	विभाग Department	Central Public Works Department
9(ii)	मानक के.लो.नि.वि. ठेका फार्म Standard CPWD contract form	General Conditions of Contract 2023 (Maintenance works) CPWD 7 as modified and corrected upto previous day of online receipt of tender.
खण्ड—1	(i) स्वीकृति पत्र जारी होने की तारीख से निष्पादन गारंटी के प्रस्तुतीकरण के लिए अनुमत समय, दिनों में। (OM No.:- DG/SE(C&M)/Misc/48 Dated:- 02/09/2015 & 288 Dated: 23/09/2015)	
Clause1	i) Time allowed for submission of Performance Guarantee with Additional Performance Guarantee If any , 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, in days एक्सटेंशन, दिनों में	07 Days
	ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee with Additional Performance Guarantee if any beyond the period as provided in i) above in days -	03 Days
खण्ड Clause 2	खण्ड 2 के तहत प्रतिकर निश्चित करने वाला प्राधिकारी Authority for fixing Compensation under clause 2	Superintending Engineer, Delhi Circle-2, CPWD, New Delhi.

खण्ड Clause 2 क. क्या खण्ड 2 क लागू होगा।

Whether Clause 2A shall be applicable.

**As per Modified provision
for maintenance work.**

खण्ड Clause 5 कार्य आरम्भ करने की तारीख की गणना के लिए स्वीकृति

पत्र जारी होने की तारीख से दिनों की संख्या.....दिन

Number of days from the date of issue

of letter of acceptance for reckoning date of start.

**10th Day or actual date of
PG deposit with late fee**

खण्ड Clause 5.1 The contractor shall submit a Programme chart (Time and Progress) for each milestone along with performance guarantee **and additional performance guarantee (if any)** and get it approved by the Department. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Engineer-in-charge and the contractor within the limitations of time imposed in the contract documents, and further to ensure good progress during the execution of the work, the contractor shall in all cases in which the time allowed for any work, exceeds one month (save for special jobs for which a separate programme has been agreed upon) complete the work as per mile stones given in schedule 'F'.

लक्ष्य मील-पत्थर सारणी: लक्ष्य नीचे दी गई सारणी अनुसार

Table of Milestones : -- As per Table given below

S. No.	Description of Milestone (Physical)	Time Allowed in days (from date of start)	Amount to be withheld in case of non achievement of milestone
1.	1/8 th (of whole work)	1/4 th (of stipulated period)	In event of non- achieving the desired progress 1% of the tendered value of the work shall be withheld for the failure of each milestone.
2.	3/8 th (of whole work)	1/2 th (of stipulated period)	
3.	3/4 th (of whole work)	3/4 th (of stipulated period)	
4.	Complete work	stipulated period	

कार्य निष्पादित करने के लिए अनुमत्य समय

Time allowed for execution of work

Six Months

निर्णायक प्राधिकारी

1. समय विस्तार (प्रभारी अभियंता या संयुक्त संविदा के मामले में कार्य के मुख्य हिस्से के प्रभारी अभियंता, जैसा भी मामला हो)
2. लक्ष्यों का पुनः अनुसूचिकरण (अधीक्षण अभियंता, या संयुक्त संविदा के मामले में कार्य के बड़े अवयव के अधीक्षण अभियंता, जैसा भी मामला हो)
3. देरी की स्थिति में साईट सौपने के कारण प्रारंभ तिथि में बदलाव (अधीक्षण अभियंता या संयुक्त संविदा के मामले में कार्य के मुख्य हिस्से के अधीक्षण अभियंता, जैसा भी मामला हो)

Authority to decide:

1. Extension of time (Engineer in Charge or Engineer in Charge of Major Component in case of Composite Contracts, as the case may be)

2. Rescheduling of mile stones (Superintending Engineer in Charge or Superintending Engineer of Major Component in case of Composite Contracts, as the case may be)
3. Shifting of date of start in case of delay in handing over of site (Superintending Engineer or Superintending Engineer in Charge of Major Component in case of Composite Contracts, as the case may be)

कार्य पूरा करने के लिए उचित और तार्किक

समय वृद्धि देने वाला प्राधिकारी

Authority to give fair and reasonable
extension of time for completion of work

Executive Engineer
A Division, CPWD

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	Site shall be made available in parts	
Part B	Portions with encumbrances		
Part C	Portions dependent on work of other agencies		

खण्ड Clause 5A

Not Applicable

खण्ड Clause 6,

खंड लागू – (6)/ Clause applicable – (6)

**Electronic Measurement Book
(EMB) through CPWD ERP Portal**

खण्ड Clause 7

अंतरिम भुगतान के लिए पात्र होने के लिए अंतिम ऐसे
भुगतान के बाद कुल भुगतान एकत्रित सामग्रियों के
अग्रिमों के समायोजन सहित किया जाने वाला कुल कार्य

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

10.00 Lakh

खण्ड Clause 7A

No Running Account Bill shall be paid for the work till the
applicable labour licenses, registration with EPFO, ESIC
and BOCW Welfare Board, whatever applicable are submitted
by the contractor to the Engineer-in-charge.

Whether Clause 7A shall be applicable

Yes

खण्ड Clause 7B

**for construction/EPC/Maintenance works for
payment to third party**

Yes

Clause 10 A

कार्यस्थल प्रयोगशाला में ठेकेदार द्वारा उलब्ध कराये जाने परीक्षण उपकरण की सूची
List of testing equipment to be provided by the contractor at site lab.

(As per applicable & required item of work)

Clause 10 B(i)- Whether Clause 10 B(i) shall be applicable:

No

क्या धारा 10बी(i) लागू है

Class 10C – Component of labour expressed as percentage of total value of work- **25%**

कार्य के कुल मूल्य की श्रम के घटक के प्रतिशत के रूप में

खण्ड.10गग खण्ड 10गग उन संविदाओं पर लागू होगा जिसमें कार्य समापन की अवधि, अगले कालम में दर्शायी गई अवधि से अधिक अनुबंधित है।
लागू / लागू नहीं

लागू नहीं

Clause 10CC- Clause 10CC to be applicable in contracts with stipulated period of completion exceeding the period shown in the next column.

Applicable/ Not Applicable

N/A

मूल्य वृद्धि के लिए अन्य सामग्री, श्रम, पी.ओ.एल आदि के घटकों की अनुसूची।

Schedule of component of other Materials, Labour, POL etc. for price escalation.

निर्माण कार्य सामग्री के लिए सिविल घटक (खंड 10 ग के अन्तर्गत शामिल सामग्रियों को छोड़कर)/वैधुत कार्य में कुल मूल्य के प्रतिशत के रूप में प्रदर्शित

Component of Civil -

Xm.....% **NIL**

(Except material covered under clause 10CA)

Electrical construction materials expressed as percent of total value of work

श्रम के घटक के कुल मूल्य की प्रतिशत के रूप में प्रदर्शित

Component of Labour expressed as percent of total value of work

Y.....% **NIL**

पी.ओ.एल के घटक-कार्य के कुल मूल्य के प्रतिशत के रूप में प्रदर्शित

Component of POL expressed as percent of total value of work

Z.....% **NIL**

खण्ड Clause 11 कार्य निष्पादन के लिए अनुपालन किए जाने वाले विनिर्देश

Specifications to be followed for execution of work

CPWD specification 2019, Volume-I & Volume-II with correction slips issued upto previous day of online receipt of tender

खण्ड— Clause 12

Type of Work : Maintenance works including works of Up-gradation, aesthetic, special repair, addition / Alteration.

The completion cost shall, in no case, exceed 1.5 times the contract amount. Contractor will devise a system to keep a watch on quantum of work taken up vis-a-vis balance items required to complete defined scope of work and will give the alerts to Engineer – in – charge before taking up extra item(s), deviation(s) so that completion cost does not exceed above limit. Work executed beyond above limit

will neither be recorded nor be paid. Engineer – in-charge will verify and confirm the alerts before assigning deviation(s) and / or extra item(s) to the contractor. If additional work(s) is required to complete defined scope of work beyond above limit then Engineer – in – charge may take up such work(s) separately. The contractor will not have any claim(s) whatsoever on this account.

खण्ड Clause 16

घटी हुई दरे निर्धारित करने की

लिए सक्षम प्राधिकारी

Competent Authority for
deciding reduced rates

**SE/DC-2/CPWD, New Delhi,
upto 5% of the contract value.
Beyond 5% ADG (RD)**

खंड – Clause 18

कार्यस्थल पर ठेकेदार द्वारा लगाये जाने वाली अनिवार्य मशीनरी, औजार एवं सयंत्रों की सूची:

List of mandatory machinery, tools & plants to be deployed by the contractor at site:
(As per actually required at site and as per direction of Engineer – in – charge.)

खंड – Clause 19 (Modified as DG/CON/314, dated 24.02.2021)

Clause 19C Authority to decide penalty for each default - Executive Engineer/A Division

Clause 19D Authority to decide penalty for each default - Executive Engineer/A Division

Clause 19G Authority to decide penalty for each default - Executive Engineer/A Division

Clause 19K Authority to decide penalty for each default - Executive Engineer/A Division

खंड – Clause 25 Shall be Govern by OM No. DG/CON/317 dated: 28-06-2021 & OM No. DG/CON/318 dated: 17-08-2021

खण्ड– CLAUSE 32 (i): - Requirement of Technical Representative(s) and Recovery Rate

S.No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical/Technical Representative)	Minium Experience	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i)	
					Figures	Words
1	Graduate Engineer	Civil	Principal Technical Representative	2 Years	One	₹. 15000/- (₹. Fifteen Thousand per Month)
	OR					
2	Diploma Engineer	Civil		5 Years	One	₹. 15000/- (₹. Fifteen Thousand per Month)

I) क) के.लो.नि.वि. द्वारा मुद्रित दिल्ली दर अनुसूची –2023, के आधार पर सीमेंट और बिटुमन की अनुमानमूल मात्रा निर्धारित करने के लिए। अनुसूची / विवरण

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. with up to date correction slips.

II) अनुमानमूलक मात्राओं में अनुमत विचलन
Variations Permissible On Theoretical Quantities

क) सीमेन्ट जिन कार्यों के लिए निविदा में अनुमानित

	मूल्य रु. 25 लाख से अधिक न हो	3 प्रतिशत जमा/घटा
a)	Cement for works with estimated cost put To tender not more than ₹. 25 lakhs	3% plus/minus.
	जिन कार्यों के लिए निविदा में अनुमानित मूल्य रु. 25 लाख से अधिक हो	2 प्रतिशत जमा/घटा
	for works with estimated cost put to Tender more than ₹. 25 lakhs	2 % plus/minus.
ख)	बिटुमन सभी कार्यों के लिए	2.5 प्रतिशत केवल जमा और घटा के पक्ष में शून्य
b)	Bitumen for all works	2.5% plus only & Nil on minus side.
ग)	इस्पात प्रत्येक व्यास, कोट और श्रेणी के लिए पूर्णवर्लन और संरचनात्मक इस्पात काट	2 प्रतिशत जमा/घटा
G..	Steel Reinforcement and structural steel sections for each diameter, section and category.	2% plus/minus
घ)	सभी अन्य सामग्रियां	शून्य
d)	All other materials	Nil.

अनुमत्य विचलन से अधिक की मात्राओं के लिए वसूली दरें

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

क्रम सं. Sl No.	मद विवरण Description of item	अंको और शब्दों में वह दर जिस पर ठेकेदार से वसूली की जाएगी Rates in figures and words at which recovery shall be made from the Contractor		
		अनुमत्य विचलन से Excess beyond permissible variation	अनुमत्य विचलन से अधिक आधिक्य अधिक उपयोग घटाया Less use beyond the permissible variation	Remarks
1.	Cement (P.P.C./O.P.C.)	NIL	NIL	Subject to condition that executed work is not substandard.
2.	Steel Reinforcement (TMT Steel) Primary manufacturer	NIL	NIL	

खण्ड Clause 41(Modified as DG/CON/314, dated 24.02.2021)

Release of Security Deposit

The Security Deposit of the work shall be refunded if no labour complaint has been received from the labour officer till the due date of its payment. If a labour complaint is received during this period, the Engineer-in-Charge shall, after issue of notice in this regard to the contractor, deduct the amount required to settle the complaint from his security deposit and refund the balance amount.

GENERAL CONDITIONS

- 1.1 In case there is any discrepancy between English Version and corresponding Hindi version, if provided, then the provisions in English Version will prevail.
- 1.2 Wherever any reference to any Indian Standard Specifications/ International standard occurs in the documents relating to this contract, the same shall be inclusive of all amendments issued there-to or revisions thereof, if any, up to the date of receipt of tenders.
- 1.3 Samples for particular items of work shall be prepared, where so specifically desired by Engineer-in-charge, for prior approval of the Engineer-in-charge, before taking up the same on mass scale and nothing shall be payable on this account.
- 1.4 Wherever desired by Engineer-in-charge, the contractor shall also construct a sample unit complete in all respect within time specified by the Engineer-in-charge & this sample unit shall be got approved from the Engineer-in-charge before mass construction is taken up. No extra claim, whatsoever beyond the payment due at agreement rates, will be entertained to the contractor on this account.
- 1.5 The contractor shall take instructions from the Engineer-in-charge for stacking of materials at site. No excavated earth or building materials shall be stacked on areas where the buildings, roads, services or compound walls or any other structure are to be constructed.
- 1.6 If as per municipal rules, or due to any other restrictions, the huts for labourers are not to be erected at the site of work by the contractors, then the contractors shall provide such accommodation at such locations as are acceptable to local bodies, or contractor shall make his own alternative arrangement for stay of labourers outside the site of work, for which nothing extra shall be payable.
- 1.7 Unless otherwise specifically provided in the Schedule of quantities, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing extra quoted rates in agreement shall be payable to him on this account. However, payment for centering, shuttering, if required to be done for floor heights greater than 3.5m, shall be admissible at rates arrived at, in accordance with clause 12 of the agreement, if not already specified otherwise.
- 1.8 The working drawings appearing at para 8.1(iii) of conditions of contract in the form CPWD-7/8, shall mean to include both architectural and structural drawings respectively. The structural and architectural drawings shall be properly correlated before executing the work. In case of any difference noticed between architectural and structural drawings, final decision, in writing of the Engineer-in-charge shall be obtained by the contractor before proceeding further.
- 1.9 If ISI marked products are available, the contractor shall use only ISI marked products. In other cases, the materials shall conform to CPWD specifications. In case a materials/product is neither covered by ISI nor by CPWD specification, the work shall be carried out as per sound engineering practice, in such case, the decisions of the Engineer-in-charge shall be final & binding. In such cases Engineer-in-charge shall satisfy himself about the quality of such materials and give his approval in writing. Only articles classified as first quality by the manufacturers shall be used, unless otherwise specified. All materials not bearing ISI mark shall be tested as per relevant ISI specifications. The Engineer-in-charge may relax the condition regarding testing if the quantity of the materials required for the work is small. In all cases of use of ISI marked materials, proper proof of procurement of materials from authentic manufacturers shall be provided by the contractor to the entire satisfaction of Engineer-in-charge.

- 1.10 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 restriction / instructions and nothing extra shall be payable on this account.
- 1.11 Other agencies doing works related with this project will also simultaneously execute the work and the contractor shall afford necessary facilities for the same. The contractor shall leave such necessary holes, opening etc., for laying/burying in the work pipes, cables, conduits, clamps, boxes and hooks for fan clamps etc. as may be required for other agencies. Conduits for electrical wiring/cables will be laid in such a way that they leave enough space for concreting and do not adversely affect the structural members. Nothing extra over the agreement rates shall be paid for the same. The contractor shall extend necessary co-operation to other such agencies without any claim on this account.
- 1.12 Any cement slurry, required to be added over base surface for bond or for continuation of concreting, its cost shall be deemed to have been included in the respective items, unless specified otherwise and nothing extra shall be payable nor extra cement shall be considered in the cement consumption on this account.
- 1.13 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.
- 1.14 No claim for idle establishment & labour, machinery & equipments, tools & plants and the like, for any reason whatsoever, shall be admissible during the execution of work as well as after its completion.
- 1.15 The building work will be carried out in the manner complying in all respect with the requirements of relevant bylaws 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 will be paid on this account.
- 1.16 The contractor shall give a performance test of the entire installation(s), as per standing specifications, before the work is finally accepted and nothing extra whatsoever shall be payable to the contractor for the test .
- 1.17 Any damage to work resulting from weathering conditions, defacing or from any other cause such as negligent act on the part of contractor, until the work is taken over by the Department after completion of work, shall be made good by the contractor at his own cost .
2. The corrected form CPWD-7/8 GCC-2023 is available online for inspection. The contractors are requested to go through the same. They will be bound by the terms and conditions stated therein.
3. The order of preference in case of any discrepancy as indicated in condition no 8.1 under “Conditions of Contract” given in General conditions of contract for Central P.W.D. works 2023 form may be read as the following:
 - 3.1 Description of item nomenclature in the schedule of quantities.
 - 3.2 Particular specifications for Repair and Rehabilitation works (if applicable)
 - 3.3 Particular specifications.
 - 3.4 Additional and Special conditio
 - 3.5 Contract Clauses of General conditions of contract for Central P.W.D. works.
 - 3.6 MORTH specifications for Road & Bridge works with correction slips upto date of receipt of tender.
 - 3.7 CPWD specifications as mentioned in Schedule ‘F’.

- 3.8 Architectural Drawings, if any.
 - 3.9 Indian Standard Specifications.
 - 3.10 Sound Engineering Practice.
4. The words “Equivalent”, “Approval” and authorized” in these specifications shall imply and require written approval of the Engineer-in-Charge.
 5. The rates shall include the following:-
 - 5.1 All necessary materials, bolts, nuts, fasteners, nails, screws, rawl plugs, etc. as may be necessary to complete the work detailed in the specifications, whether or not specifically mentioned. The **bidder** should ensure that he has studied the drawings carefully and should seek any clarifications he may have from the **Executive Engineer**, in-charge of the work. No extra claims will be entertained later on.
 - 5.2 Cutting, making and repairing of any holes/opening Junction Box for electrical purpose etc. required for any light fittings, loudspeakers, air-conditioning grills etc.
 6. The **Executive Engineer** has got the right to accept or reject the tender as whole or part of it and no claims what so ever will be entertained on this account.
 7. No payment will be made to the contractor for damages caused by rains during execution of the works and no claim on this account will be entertained.
 8. The dismantling wherever required shall be done in a manner so that no other portion of the building or its fixtures are damaged. If any damages are done to the building it will be made good by the contractor at his own cost and no claim what so ever will be entertained on this account.
 9. The rates for all items of work shall (Unless clearly specified) include the cost of all labour material and other aspects involved in the execution of work.
 10. The contractor shall make his own arrangement for getting the permission (to ply the trucks) from the traffic police.
 11. The contractors are advised to get acquainted with the proposed work and its site and also study the specifications and special conditions carefully before tendering. No claim of any sort shall be entertained on account of any site conditions and ignorance of specifications and special conditions.
 12. All dismantled materials/ Building rubbish/ Malba and other such material received and collected by the contractor during the course of execution of work will be removed from the site of work on the same day positively. All payments including running bills will be released on a certificate to this effect by the Engineer-in-Charge.
 13. **1% water charges (contractor shall not be allowed to use his own water), 2% income tax plus surcharge and GST (rate as applicable at the time of payment as decided by Govt. of India), 1% Labour Cess and other recoveries as per rule shall be made from the gross amount of each Bill.**
 14. In case of difference between Hindi and English version, the English version shall prevail and will be considered as correct.
 15. Tender with contradictory conditions/ Rebate will be rejected straight away.

16. The contractor shall write correct postal address on the application for tender papers. In case it is found that the address given in their application is not correct and as a consequence of the same if any registered letter sent through postal authorities is received back by the department undelivered to the contractor, the contractor shall be fully responsible for all the consequence and any such letter sent through registered post shall be deemed to have been delivered to him.
17. Wherever any reference to any Indian Standard specification occurs in the documents relating to this contract, the same shall be inclusive of all amendments issued there to or version thereof, if any, upto date of receipt of tender.
18. All the materials shall be got approved from the Engineer-in-Charge before it is put to use. Before the start of the work 100% of the total requirements or as decided by Engineer-in-charge for material will have to be deposited with the concerned AE/JE in first instance. Who shall also maintain an a/c of these materials and submit them with the bills for checking.
19. The contractor shall be issued materials for day to day work, according to the numbers of men employed by him. The unused materials should be returned by him at the end of the days work along with the empty containers etc. The empty containers shall be preserved till the completion of the work and the clearance to remove them is given by the Engineer-in-charge in writing.
20. Full quantity of material or as decided by Engineer-in-charge purchased from authorized dealers with their cash memos like paint/ distemper/ cement paint/ OBD/ plastic emulsion of the firm indicated in the items or elsewhere shall be deposited with the JE concerned before starting execution 100% Test Check shall be done by Assistant Engineer.
21. The sub-standard work shall be rejected out-right and shall not be measured and nothing extra shall be paid for it. The decision of the Engineer-in-charge shall be final and binding in this regard.
22. In case material consumed is less than the permissible variation then the work beyond theoretical consumption i/c variation shall be treated as substandard and quantity for payment purpose will be restricted to as per material actually consumed.
23. The material such as paints, varnish distempers, water proofing cement paint and primers etc. as required shall be of approved brand and manufactures, and of required shade and confirming (in all respects) to the relevant I.S. specifications.
24. Scrapping shall be got checked from Engineer-in-charge of the work before carrying out finishing work over it and it must be 100% test checked by Assistant Engineer.
25. The contractor shall have to remove all splashes after completing the day's work. In case the splashes are not removed by the contractor the same shall be got removed by the Engineer-in-Charge and necessary recovery for the cost of removal of splashes shall be made from the contractor as below:
 - a) For splashes of internal white wash/ distemper etc. Rs. 500/- per bungalow/ flat/room of office
 - b) For splashes of paint marks Rs. 1000/- per bungalow/ flats/ room of office.
 - c) For splashes of external white wash/ colour wash/ water proofing cement paint Rs. 500/- bungalow/ flat/ room of office.
26. The Co-efficient for working out theoretical consumption of materials is as below:

- a) Distemper with 1st acrylic distemper (ready mixed) having VOC
 - i) One or more coats on old work 0.62 kg per 10 sqm.
 - ii) Two or more coats on new work 1.25 kg per 10 sqm.
- b) Cement primer 0.70 ltr. Per 10 sqm
- c) Water proofing cement paint.
 - i) One or more coats on old work 2.2kg per 10 sqm.
 - ii) Two or more coats on new work & 3.84 kg per 10 sqm.
- d) Acrylic emulsion paint having VOC.
 - i) One coat 0.53 ltrs per 10 sqm
 - ii) Two coats 0.84 ltrs per 10 sqm.
- e) Premium Acrylic emulsion paint having VOC.
 - i) One coat 0.38 ltrs per 10 sqm
 - ii) Two coats 0.60 ltrs per 10 sqm.
- f) Synthetic enamel paint
 - i) One or more coats on old work @ 0.70 ltrs. Per 10 sqm
 - ii) Two or more coats on new work @ 1.16 ltrs per 10 sqm
- g) White cement based putty 1mm thick @ 14.58 kg per 10 sqm
- h) Plaster of putty 2mm thick @ 23 kg per 10 sqm

27 TESTING OF MATERIALS

- (a) Samples of various materials required for testing shall be provided free of cost by the contractor. All the test which are available in Central Lab of CPWD must be carried out in Central lab or the test must be conducted in the lab approved by the Engineer-in-charge. All expenditures required to be incurred for taking the samples, conveyance, packing including the testing charges shall be borne by the contractor himself.
- (b) The contractor shall produce all the materials in advance so that there is sufficient time for testing and approval of the materials and clearance before use in work. The Engineer in charge shall be at liberty to test representative sample(s) of each item of schedule of quantity in any approved laboratory as decided by him. The sample of testing shall be provided by the contractor free of cost. Any expenditure required to be incurred for taking sample, conveyance and packing shall be borne by the contractor. In case of any sample of particular lot fails in testing the contractor shall be bound to replace the entire lot with fresh material of prescribed specifications. The rejected lot shall be returned to the contractor only after fresh lot is supplied.
- (c) With a view to avoid controversy about quality of cement concrete as revealed in the test results of 7 days cubes falling short of the prescribed standards by over 10% to 20% and pending testing of balance 3 cubes for 28 days as final confirmatory acceptance tests, crushed samples of cement concrete from the failed 7 days cubes should be preserved in a sealed bag.
- (d) In case of concrete and reinforced concrete work, the contractor shall be required to make arrangement for carrying out crushing strength tests at his own cost. He shall render all assistance for the preparation of cubes, safe custody of the same, proper curing and carriage upto the laboratory where the test is to be performed. The cube test can be performed at any laboratory approved by the Engineer-in-charge.

28. No labour huts shall be allowed inside the campus of above said work. The contractor shall arrange for the stay of labour outside the campus including transport and nothing extra shall be payable on the account.
29. The work is required to be executed in **residential / non residential** area (restricted site) in odd hours and the agency shall plan the work to be carried out accordingly. The handling of material is to be done at site double or more time for which nothing extra shall be paid.
30. There may be some restrictions on free movement of labourers at site and restriction of working hours and the agency shall consider this fact while quoting the rates and executing the work. Photo passes if any required for worker shall be responsibility of the contractor.
31. Existing drains, pipes, cables, overheads wires, sewer lines and water lines and similar services encountered in the course of the execution of the work shall be protected against the damage by the contractor at his expenses. 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.
32. Malba received from site shall be removed to designated site (fixed by Engineer in charge) on same day, otherwise it will be removed and a penalty of Rs. 500/- shall be imposed on the contractor for each day of default
33. If the material as instructed is not brought to the site within 7 days from the date of start of work, Earnest money/ Performance Guarantee **and additional performance guarantee (if any)** shall be forfeited by Engineer in charge or his authorized representative by giving notice through site order book.
34. Before dismantling the structure / item the contractor shall bring the entire material required for particular job at site after getting the sample approved from the Engineer in charge.
35. The Engineer employed by the contractor must attend the office of AE/JE in charge daily and note any instructions given on site order book.
36. For mixing of mortar, M.S. sheet must be used over the brick platform. Mortar should not be mixed on road or floor or on garden. In case mortar / concrete is mixed on floor or on road etc., a recovery of Rs. 1000/- shall be made for each default. Malba should not be dumped over green grass / plants.
37. Splashes on the floors, walls, glasses & other places must be removed after completion of work. Glass panes must be cleaned after completion of works. In the event of failure to clean splashes the work of cleaning will be got done at the risk and cost of the agency.
38. Due to restriction of driving slow moving vehicle / hand driven rickshaw in NDMC areas, it is required that contractor should not operate the hand driven rickshaw. Contractor has to make his own arrangement of desired transportation & nothing extra shall be payable on this account.
39. Before starting the work the contractor shall chalk out a programme in consultation with the Junior Engineer /Assistant Engineer in charge so as to inform the occupants in advance. The contractor shall have to adhere this programme, failing which he shall be held responsible for any inconvenience caused to the occupants. In order to ensure that the work is carried out according to the programme drawn up, the contractor shall ensure adequate supply of the material and employ required labour strength for execution of work. In case contractor fails to arrange / employ adequate labour and stick to the programme, the Engineer in charge may supplement the labour at the risk and cost of the contractor after issue of one day's notice to the contractor through site order book. No claim for idle labour shall be entertained. The contractor shall put his

representative daily on site of work. His name & signature shall be attested by the contractor on the record for the department.

40. The contractor shall prepare one sample of all items which should be got approved from the Engineer in charge. Only after acceptance of sample work, contractor will be allowed to commence the work and sample is to be preserved by contractor till the whole work is completed. The quality of work should confirm to the approved samples.
41. No T & P shall be supplied by the department.
42. Any damage done to the existing structure shall be made good by the contractor at his own risk and cost.
43. The contractor shall be responsible for behavior and conduct of his worker. No worker with doubtful integrity or having a bad record shall be engaged by the contractor.
44. No dismantled material should be thrown out from ground or upper floors of the building. All the dismantled material should be carried out to ground through staircase only at no extra cost.
45. Rates including all heights, approved pattern/ drawing and level nothing extra shall be paid on any cost such as scaffolding etc.
46. It is mandatory to mention Invoice No./ Bill No. of material purchased for the work in the MAS register or / & photocopy of bill / invoice is also required along with RA/ Final Bill. Original bill shall be produced by contractor if demanded by Engineer – in – charge, otherwise no payment shall be made for relevant item.
47. Contractor should see the site and read the conditions carefully before quoting his rates
48. Full quantity of granite stone of approved colour & texture required for execution of work shall be brought by the contractor of single lot. No variation of lot shall be allowed. If the contractor brings the stone of different lots the same shall be rejected by the Engineer – in – charge and the contractor has to remove the rejected stone immediately for which nothing shall be payable extra on this account.
49. The structural design & drawings shall be got designed from approved structural designer or as approved by Engineer – in – charge. The structural design and drainage shall got vetted from a Govt. approved Engineering Institute, NIT or IIT to be done by the contractor.
50. Additional 10% amount of the Items of Water proofing shall be with held for guarantee period of 5 Years. If the contractor does not remove the defects within 7 days of issue of notice to him the work shall be got executed from other agency at his risk and cost.
51. The item of water proofing work shall be got done through the skilled applicator of specialised company as approved by Engineer – in - charge.
52. Fabricator / Casting Yard of precast RCC members shall have to be got approved from Engineer-in- Charge before starting the casting work.
53. The quality check of compressive strength of RCC precast members before dispatch at site will be checked by Engineer-in-charge. Necessary arrangements for testing shall be arranged and available at casting yard of fabricator.

54. All precast members shall be transported to site and their erection shall be in professional manner that have no damage or dent in the members. If any damage or dent is found the same will be get replaced with new member.
55. The contractor shall have to get the shades of all type of paints, distempers, water proofing cement paint etc. approved from the Engineer – in- charge before procurement of materials.
56. The contractor shall be required to produce samples of all materials sufficiently in advance to obtain approval of the Engineer – in – charge. Subsequently the materials to be used in the actual execution of the work shall strictly conform to the quality of samples approved. In case of variation, such material shall be liable to rejection.

**Executive Engineer
“A” Division, CPWD
New Delhi.**

SPECIAL CONDITION FOR WORK

1. The salary (as per minimum wages published in latest circular of Ministry of Labour and Employment, Govt. of India) will be paid to labour by the 7th day of each month compulsorily through Bank/ ECS/ online payment and EPF & ESIC contribution will also be deposited simultaneously. The proof of payment (Bank/ ECS/ online transaction) of salary will be submitted in the office of Engineer-in-charge by the 10th day of each month. In case of non payment of salary in specified time there will be a penalty of Rs. 300/- (Rupees three hundred only) per worker per day till 15th day of each month. After the 15th day of month, the penalty shall be Rs. 600/- (Rupees Six Hundred only) per day per worker till the final payment is made shall be imposed. The agency shall submit duly verified copy of bank statement showing transaction of payment to the workers.
2. Items taken in this schedule are function oriented and need based as and when required. Item are to be carried out as and when asked even during late night and whole night also. In case of failure of execution of item, the same shall be carried out by other means and recovery shall be made from the bill of the contractor.
3. Two Nos. passport size photo of each worker to be engaged for work shall be provided by the contractor to Assistant Engineer for issue of security passes at least 5 days in advance of each function without any payment. In case of failure recovery at rate Rs. 1500/- per function shall be made from the contractor and photo will be arranged by the department. To & fro conveyance shall be arranged by the contractor at his own cost for issue of passes from Delhi Police Security/any other Security agency offices and nothing extra shall be paid on this account. Security passes shall have to be returned on the day of function otherwise recovery shall have to be made from the bill @ Rs. 1000/- per day delay. In case of loss of any security pass, case shall have to be registered with the police station by the contractor and the copy of FIR shall have to be submitted while returning the other passes. Otherwise, recovery shall be made from the contractor's bill @ Rs. 500/- per pass for the lost/waste of security pass.
4. If any Carpenter/Mason/Plumber/Welder is not provided by the agency on same day/Next Day when asked by JE/AE through telephone/Whatsapp or by any other means, the recovery @ Rs. 1500/- per day delay per worker shall be made from the bill.
5. If any Beldar/Helper/Sewerman/Sweeper is not provided by the agency on same day/Next Day when asked by JE/AEE through telephone/Whatsapp or by any other means, the recovery @ Rs. 1000/- per day delay per worker shall be made from the bill.
6. Central industrial Security force is engaged for the security of Samadhi complex; Hence the contractor shall have to submit the list of workers along with their names, father's name and address at every time to The Assistant Engineer and permission for working shall have to be obtain from the CISF by the contractor.
7. A register shall be opened at respective Sub-Division Office to mark the attendance of Principal Technical Representative on all working days to ensure proper presence of said Representative / Technical Representative at site.
8. This Estimate has been prepared for day-to-day maintenance; hence work may be done in piecemeal.
9. When agency is directed to execute or rectify/remove the defective work and he fails to do the same within 3 days from the receipt of direction through Whatsapp or E-mail or Correspondence or site register, penalty shall be imposed at a Rate of 2000/- per day calculated on the basis of No. of days delayed.
10. As this estimate has been prepared for the period of one year for maintenance work, agency can be asked to execute Extra Item as per site requirement, The A/R of the required item shall be submitted by the agency within the period specified in the GCC. The rates shall be either accepted or unaccepted by the Engineer-in-charge, in case of rejection, rate determined by the Engineer-in-charge or prevailing in the division office shall be final and agency shall be bound to execute the extra item on such decided rates.
11. Rajghat Samadhi complex is of National importance area, high standard workmanship is required to maintain the work. The strict action will be recommended against agency and case will also be forwarded to Enlistment authority for administrative action as per enlistment rules, if Inferior quality of work is found or delay in work is noticed.

Executive Engineer
“A” Division, CPWD
New Delhi.

CONDITIONS FOR CEMENT

- 1 The contractor shall procure 43 grade (conforming to IS 8112) Ordinary Portland cement/ Fly ash based Portland Pozzolana Cement (PPC) as per IS: 1489 as required in the work, from reputed manufacturers of cement, having a production capacity of one million tonnes per annum or more, such as ACC, ULTRATECH, VIKRAM, SHREE, AMBUJA, JAYPEE, J.K., LAFARGE, L&T, BIRLA, JK LAKSHMI and Cement Corporation of India etc., i.e. agencies approved by Ministry of Industry, Govt. of India, and holding license to use ISI certification mark for their product. The **bidders** may also submit a list of names of cement manufactures which they propose to use in the work. The Engineer-in-charge reserves right to accept or reject name(s) of cement manufacture(s) which the **bidder** proposes to use in the work. No change in the tendered rates will be accepted if the Engineer-in-charge does not accept the list of cement manufacturers, given by the **bidder**, fully or partially. Supply of cement shall be taken in 50 kg bags bearing manufacturer's name and ISI marking except for concrete from RMC producer where bulk cement can be procured. Samples of cement arranged by the contractor shall be taken by the Engineer in Charge and got tested in accordance with provisions of relevant BIS Codes. In case test results indicate that the cement arranged by the contractor does not conform to the relevant BIS Codes, 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. Only the cement with satisfactory test results shall be allowed to be used in the work.
- 2 The cement shall be brought at site in bulk supply of 10 tonnes or as decided by the Engineer in Charge.
- 3 The cement godown of the capacity to store a minimum of 1000 bags of cement shall be constructed by the contractor at site of work for which no extra payment shall be made. Double lock provision shall be made to the door of the cement godown. The key of one lock shall remain with the Engineer in Charge or his authorised 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.
- 4 The contractor shall supply free of charge the cement required for testing and shall also bear the testing, packing, sealing, transportation & other incidental charges. All these charges of approved laboratory shall be borne by the contractor.
- 5 The day to day actual issue/receipt 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 the procedure prescribed in clause 38 of the contract and shall be governed by conditions laid therein.
- 6 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.
- 7 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 after allowing variation on the minus side as per clause 38, the cost of quantity of cement not so used shall be recovered from the contractor, at the rate of Rs.6000/- (Rupees Six thousand only) per metric tonne. Decision of the Engineer in Charge in regard to theoretical quantity of cement which should have been actually used as per the schedule shall be final and binding on the contractor. This recovery will be in addition to any other recovery otherwise required to be done by the Engineer-in-Charge.

Executive Engineer
“A” Division, CPWD
New Delhi.

CONDITIONS FOR REINFORCEMENT STEEL

- 1.1 The contractor shall procure steel reinforcement TMT bars of grade Fe500-D grade from primary producers such as SAIL, TATA STEEL, RINL, JSW & JSPL or any other producer as approved by Ministry of steel. The TMT bars procured from the primary producers shall conform to manufacturer's specifications/ BIS specifications.
- 1.2 The specifications of TMT bars procured from primary producers shall meet the provisions of IS 1786: 2008 pertaining to Fe 500D grade of steel as specified in the tender.
- 1.3 The contractor shall produce original vouchers for the total quantity of steel supplied under each consignment and manufacturer's Test Certificate if required by the Engineer-in-Charge.
- 1.4 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 as defined, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time of written orders from the Engineer-in-Charge to do so. Else the department shall remove it and recover double the cost of removal from the contractor
- 1.5 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.
- 1.6 The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent their distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
- 1.7 For physical and chemical tests, specimens of sufficient length shall be cut from each size of the bar at random and at frequency not less than that specified below:

Size of Bar	For Consignment below 100 tonnes	For consignments above 100 tonnes
Under 10mm dia bars	One sample (Three specimen) for each 25 tonnes or part	One sample for each 40 tonnes or part thereof
10 mm to 16mm dia bars	One sample (Three specimen) for each 35 tonnes or part	One sample for each 45 tonnes or part thereof
Over 16 mm dia bars	One sample (Three specimen) for each 45 tonnes or part	One sample for each 50 tonnes or part thereof

- 1.8 The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. The cost of tests shall be borne by the contractor/ Department in the manner indicated below:
 - a) By the contractor, if the results show that the cement does not conform to relevant BIS Codes.
 - b) By the department, if the results show that the cement conforms to relevant BIS Codes
- 1.9 The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 38 of the contract and shall be governed by the conditions laid therein. In case, the consumption is less than theoretical consumption including permissible variations, recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment shall be made.

- 1.10 The steel brought to site and the steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.
- 1.11 For the purpose of payment, the actual weight of steel reinforcement / structural steel sections/ plates / bolts and nuts shall be measured as below:
- a) Unit weight for reinforcement bars: The actual weight per meter of the reinforcement of various diameters shall be measured for three random samples collected (for each diameter of steel reinforcement) from each lot of particular diameter of steel reinforcement brought to the site for use in the work. For this, each sample (one sample consisting of three specimens) for each diameter of steel reinforcement shall be cut to require lengths and weighed and average weight calculated and recorded. The average weight for each type of steel section and steel reinforcement of each diameter shall be taken as the actual weight per metre for that steel section and that diameter of steel reinforcement.
 - b) In case actual unit weight is less than standard unit weights mentioned in CPWD specifications 2019 Volume 1, but within variation, in such cases payment shall be made on the basis of actual unit weight. However, if actual unit weight is more than standard unit weights mentioned in CPWD specifications 2019 Volume 1, then payment shall be made on the basis of standard unit weight in such cases. In such case nothing extra shall be paid for difference in actual weight and standard weight.
- 1.12 The work shall be carried out as per the relevant CPWD specifications.

**Executive Engineer
“A” Division, CPWD
New Delhi.**

PARTICULAR SPECIFICATIONS

1.0 GENERAL

- 1.1) The work shall be executed and measured as per metric dimensions given in the Schedule of quantities, drawings etc. (F.P.S. units wherever indicated are for guidance only).
- 1.2.1) All stone aggregate and stone ballast shall be of hard stone variety to be obtained from approved quarries to be got approved from the Engineer-in-charge.
- 1.2.2) Sand to be used for cement concrete work, mortar for masonry and plaster work shall be of standard quality and shall be obtained from approved source to be got approved from the Engineer-in-charge and screened as required. The same shall consist of hard siliceous material. It shall be clean sand.
- 1.3) Unless otherwise specified in the schedule of quantities, the rate of all items of the work shall be considered as inclusive of pumping out or bailing out water, if required, for which no extra payment will be made. This will include water encountered from any source such as rains, floods, sub-soil water table being high or due to any other cause whatsoever.
- 1.4) All the materials required to be tested shall be tested as per provisions of the relevant I.S. Codes. Should there be any difference between acceptance CRITERIA given in I.S. Codes, C.P.W.D. specifications and special conditions, the acceptance CRITERIA shall be in the following order of precedence :
1. Special conditions
 2. C.P.W.D. Specifications
 3. I.S. Codes

2.0 PAINT BROUGHT BY THE CONTRACTOR

- 2.1 The contractors shall bring sufficient quantity of paint/primer/distemper etc. (all finishing items) in maximum one lot of brand & shade approved by Engineer-in-charge prior to the commencement of work & keep it in his stores at site of work under double lock & key.
- 2.2 Contractor have submit original voucher / cash memo of material purchased by him along with each running and final bill.
- 2.3 The paint shall be issued to the contractor from time to time according to requirements for the work in the same manner after as followed for issue of cement.
- 2.4 Empty container of supplied material shall be the property of department and a recovery at following rates shall be made from contractor's bill or shall be taken in Dismantled Account Register by Assistant Engineer/ Junior Engineer.
- (i) 1 ltr./kg. plastic/tin container @ Rs. 10/-.
 - (ii) 4/5 ltr./kg. plastic/tin container @ Rs. 20/-.
 - (ii) 20 ltr./kg. plastic/tin container @ Rs. 100/-.
- 2.5 Empty containers shall be removed only after the written permission of the Engineer-in-charge after completion of work, which shall be enclosed with the final bill.

**Executive Engineer
'A' Division, CPWD
IP Bhawan, New Delhi.**

Special Condition regarding applicability of EPF and ESI and uploading of Labour Welfare Details. (OM No. DG/SE(C&M)/Misc/48 Dated:- 02/09/2015)

Applicability of EPF and ESI and uploading of Labour Welfare Details the following references has been received from EPFO, ESIC and the Cabinet Secretary, Govt. of the India which should be followed:-

- i. While awarding various contracts, it should be ensured that the contractor shall have Provident Fund Code Numbers and also a condition be included in the NIT that any sub contractor engaged should also have Provident Fund Code.
- ii. The contract conditions should stipulate that all the workers deployed by contractors or sub contractors are enrolled as members of Provident Fund and should be given the Universal Account Number (UAN).
- iii. While clearing the bills of such contractor, certificate be obtained that all workers employing directly or indirectly by him are registered for EPF and the due contributions have been into their account.
- iv. The EPFO in their official website has also made facility to verify whether the contractor having Provident Fund Code Number are regularly depositing the PF contribution every month in respect of all the employees deployed by them. The failure to provide social security benefits to the workers engaged by any organization directly or through a contractor is a offence under EPF & MP Act.
- v. In case of default, the principle employer is liable for penal action. Ministries/Departments PSUs and other bodies need to ensure that the contractor who is providing outsourced staff is registered with EPFO and ESIC and payment to the contractor is made only after verifying that social security cover is being extended to such staff.
- vi. In view of above, it is now clear that EPF and ESI is applicable for construction worker also. Hence, CPWD contractor will have to be registered with ESIC and EPFO if number of workers deployed in a day is more than 10 or 20 in preceding one year respectively. Accordingly, the Labour Welfare Details may also be updated and uploaded for each and every ongoing work.

**Executive Engineer
“A” Division, CPWD
New Delhi.**

LIST OF PREFERRED MAKE OF MATERIALS FOR CIVIL WORKS

Specification/brands names of materials (Refer materials, whichever are applicable for the scope of work) and finishes approved by the **Engineer-in-Charge** are listed below. However approved equivalent materials and finishes of any other specialized firms may be used, in case it is established that the brands specified below are not available in the market and subject to approval of the alternate brand by the **Engineer-in-Charge**.

THE LIST OF PREFERRED MAKES OF MATERIALS

S.No.	MATERIAL	MANUFACTURERS NAME
	CIVIL ITEMS	
1.	CEMENT	ACC, ULTRATECH, VIKRAM, SHREE, AMBUJA, JAYPEE, J.K., LAFARGE, L&T, BIRLA, JK LAKSHMI,
2.	REINFORCEMENT STEEL-TMT BARS-FE-500D GRADE	SAIL, TATA STEEL, RINL, JSW, JSPL
3.	STRUCTURAL STEEL SECTIONS	SAIL, TISCO, RINL, JSW, JINDAL STEEL & POWER, JINDAL, TATA
4.	STRUCTURAL STEEL TUBES/PIPES	JINDAL, TATA, APL APOLLO, ELECTRO STEEL, PRAKASH SURYA, LLOYDS
5.	READY MIXED CEMENT CONCRETE	ACC, LAFARGE, ULTRATECH, SHREE, ALCHON, L&T GRASIM, RMC READYMIX (INDIA), TECHNO PRIME RMC PVT LTD, VK READY MIX CONCRETE, SHRI RAM READY MIX CONCRETE
6.	SHUTTERING PLY	GREENPLY SHUTTERING PLY, ARCHID SHUTTERING PLY, EURO SHUTTERING PLY, BHUTAN TUFF
7.	SUPER PLASTICIZERS	MC BAUCHEMIE/FOSROC/SIKA/BASF/ CHRYSO/ VELOSIT/ PIDILITE
8.	WHITE CEMENT	BIRLA WHITE, J.K. WHITE
9.	AAC BLOCK	SHREE, INSTABLOCK, BILTECH, MAGICRETE, SIPROX, BIRLA AEROCON, J.K., CLAVECON INDIA PVT. LTD., J.K. LAKSHMI, ULTRATECH XTRALITE, TISCO BUILD
10.	BLOCK JOINTING MORTAR	JK LAKSHMI, BIRLA AEROCON SMARTFIX, MYK ARMENT, ULTRATECH, FERROUSCRETE, ARDEX, SIKa, SAINT GOBAIN
11.	GLAZED CERAMIC TILES	RAK CERAMICS, KAJARIA, NITCO, ORIENT BELL, JOHNSON, SOMANY, ASIAN, AGL
12.	VITRIFIED TILES (DOUBLE CHARGED / GVT/ANTISKID /MATT FINISH)	RAK CERAMICS, KAJARIA, ORIENT BELL, JOHNSON, SOMANY, ASIAN, AGL
13.	WALL PUTTY	JK WHITE, BIRLA WHITE, ASIAN, BERGER, SAKARNI WALL GUARD, SIKa
14.	PLASTER OF PARIS	JK LAKSHMI, SAKARNI, SHRIRAM, NIRMAL
15.	GYPSUM PLASTER	SAINT GOBAIN, SAKARNI, J.K. LAKSHMI, GYPTECH, GYPROX
16.	CC PAVERS, PRECAST CC KERB STONE, CC TILES, RCC SLAB/ GRASS PAVER	ULTRA, DURACRETE, KK MANHOLE & COVERS, TERRA FIRMA, UNISTONE, PAVIT, RESTILE, DALAL, KRISHNA
17.	SFRC/PRECAST C.C. COVERS	KK MANHOLE & COVERS, JAIN, PRAGATI, HINDUSTAN
18.	FLYASH BRICKS	POWER BRICK, YBW PROJECT, ASHTECH INDUSTRIES PVT. LTD.
19.	GLASS MOSAIC TILES	PALLADIO, CORAL, MRIDUL, BISAZZA, MMG TILES
20.	READY MIX PLASTER	BIRLA AEROCON, ULTRATECH, RAMCO, WEBER, LATICRETE
21.	SELF-DRILLING SCREWS	TW BUILDDEX & BOUSTED, CORROSHIELD, ATUL FATERNERS LTD., WURTH, HP
22.	TACTILE	SOMANY, KAJARIA, ORIENT BELL, JOHNSON,

		ASIAN(AGL), RESTILE, PAVIT
23.	HEAT RESISTANT TILES	SOMANY, KAJARIA, ORIENT BELL, JOHNSON, ASIAN(AGL), RESTILE, PAVIT
	CONSTRUCTION CHEMICALS	
1.	INTEGRAL WATERPROOFING COMPOUND	FOSROC, PIDILITE, SIKA, SUNANDA SPECIALITY COATINGS, MYK ARMENT, MC BAUCHEMIE, MAKPHALT
2.	ADMIXTURES	FOSROC, SIKA, VELOSIT, BASF, STP LTD., MYK ARMENT, MC BAUCHEMIE, MAKPHALT
3.	TILE ADHESIVE	ARDEX ENDURA, MYK LATICRETE, FOSROC, VELOSIT, FERROUS CRETE, BALENDURA, SIKA UNICRETE, MAKPHALT
4.	GROUTING COMPOUND	PIDILITE, LATICRETE, SUNANDA SPECIALITY FOSROC, VELOSIT, MYK ARMENT, RACHTR CHEMICALS, CHOWGULE, STP LTD, SIKA, MAKPHALT
5.	EPOXY MORTAR/ GROUTING COMPOUND	FOSROC, VELOSIT, SIKA, MYK ARMENT, FERROUS CRETE MAKPHALT
6.	HIGH PERFORMANCE EPOXY BASED RESIN ANCHOR SYSTEM	BASF, FOSROC, HILTI, SUNANDA SPECIALITY COATINGS, WURTH, SIKA, MYK ARMENT
7.	POLYSULPHIDE / SILICON SEALANT	GE, DOW CORNING, PIDILITE, WACKER, SUNANDA SPECIALITY COATINGS, BENGAL BITUMEN, MYK ARMENT, MAKPHALT
8.	FLOOR HARDENER	PIDILITE, FOSROC, SIKA, VELOSIT, MYK ARMENT, ARDEX ENDURA, STAR COATING.
9.	FIRE RETARDANT PAINT	AKZONOBEL, PROMAT, NEWKEM, CARBOLINE
10.	APP MEMBRANE WATERPROOFING	PIDILITE, SIKA, STP LTD., SUPREME BITUCHEM INDIA PVT LTD, BENGAL BITUMEN, CHOWGULE, MYK ARMENT, MAKPHALT
11.	ADHESIVES	FEVICOL, ANCHOR, DUNLOP, 3M, PIDILITE, SIKA, VAM ORGANIC, MYK ARMENT, VELOSIT
12.	WEATHER SILICON SEALANT	WACKER, DOW CORNING, MCCOY, SUNANDA SPECIALITY COATINGS, RACHTR CHEMICALS, STP LTD, SIKA
13.	BACKER ROD	SUPREME IND.LTD., SYSTRANS POLYMERS, RACHTR CHEMICALS
14.	BITUMEN, CRMB-55, CRMB-60, PMB	INDIAN OIL, HINDUSTAN PETROLEUM, BHARAT, PETROLEUM, SHIVA ASPHALT, OOMS PMR PVT LTD, BENGALBITUMEN, STP LTD.
15.	SUNKEN PORTION / TERRACE WATERPROOFING CEMENTITIOUS TREATMENT	VELOSIT, FORSOC, SIKA, MYK ARMENT, MAKPHALT
16.	PVC WATER STOPS	FOXOPAM, MARUTI RUBBER, VELOSIT, SIKA
17.	CORROSION INHIBITING ADMIXTURE (ASTM G1, ASTM G3, ASTM G 109)	SUNANDA SPECIALITY COATINGS, BASF, FOSROC, SIKA, MYK ARMENT, VELOSIT, STP LTD.
18.	LIQUID APPLIED MODIFIED PU WATERPROOFING MEMBRANE, TERRACE WATERPROOFING	VELOSIT, CHOWGULE, MYK ARMENT, ARDEX ENDURA, SIKA, ALCHIMICA, MAKPHALT
19.	EPOXY FLOORING	SUNANDA SPECIALITY COATINGS, SIKA, BASF, CHOWGULE, MYK ARMENT, ARDEX ENDURA
20.	PU FLOORING	SUNANDA SPECIALITY COATINGS, SIKA, BASF, VELOSIT, CHOWGULE, MYK ARMENT, ARDEX ENDURA
21.	PU COATINGS FOR STRUCTURAL STEEL	SUNANDA SPECIALITY COATINGS, SIKA, VELOSIT, X CALIBUR CONSTRUCTION SYSTEMS INC, CHOWGULE, STP LTD
22.	EPOXY COATINGS FOR STRUCTURAL STEEL	SUNANDA SPECIALITY COATINGS, SIKA, X CALIBUR CONSTRUCTION SYSTEMS INC, RACHTR CHEMICALS, STP LTD.

23.	EPDM & SILICON GASKET	HANU, ANAND, RAVEN, ZERO, ROOP, LESCUYER, BENGAL BITUMEN, AMEE RUBBER, OSAKA, ELTECH, AVIGIRI
24.	SBR POLYMER	DR. FIXIT, CICO, SIKA, FOSROC
	PAINTS	
1.	WATER-PROOFING CEMENT PAINT	DUROCEM OF BERGER PAINTS, SUPER SNOWCEM DECORATIVE OF SNOWCEM INDIA LTD. GATTUCEM OF ASIAN PAINTS, JENSON & NICHOLSON ROBBIACEM SUPER CEMENT PAINT OF JENSON & NICHOLSON.
2.	TEXTURED EXTERIOR PAINT	ASIAN, BERGER, NEROLAC, JSW, DULUX, ACRO, SNOWCEM INDIA LTD.
3.	SYNTHETIC ENAMEL PAINT	LUXOL HI-GLOSS OF BERGER, APCOLITE LUSTURE FINISH WHITE OF ASIAN PAINTS, DULUX GLOSS OF ICI MAKE, JENSON & NICHOLSON BROLAC HI-GLOSS POLYURETHANE ENAMEL.
4.	PLASTIC/ACRYLIC EMULSION PAINT	SILK LUXURY/SILK GLAMOUR EMULSION OF BERGER PAINT, DULUX PROFESSIONAL SOLITAIRE OF AKZONOBEL EMULSION OF KANSAI NEROLAC PAINT, ROYALE OF ASIAN PAINT, JENSON & NICHOLSON SPECIAL EFFECTS LUXURY SHEEN EMULSION.
5.	ACRYLIC DISTEMPER	M/S ASIAN PAINTS LTD (TRACTOR/PROFESSIONAL ACRYLIC DISTEMPER), M/S BERGER PAINTS INDIA LTD (BISON ACRYLIC DISTEMPER), M/S ICI INDIA LTD AKZONOBEL (MAXILITE ACRYLIC DISTEMPER), NEROLAC PREMIUM WASHABLE OF KNPL, JENSON & NICHOLSON (JENSOLIN ACRYLIC DISTEMPER).
6.	CEMENT PRIMER	B.P. (ALKALI RESISTANT) WATER THINABLE OF BERGER PAINT MAKE, PRIMOLITE WATER THINABLE GOODLASS NEROLAC PAINT MAKE, CEMPROVER OF SNOWCEM PAINT, CEMENT PRIMER OF ASIAN PAINT MAKE, JENSON & NICHOLSON WATER THINABLE CEMENT PRIMER (EXT & INT). PRIMOX OF J&K WHITE CEMENT.
7.	PREMIUM ACRYLIC SMOOTH EXTERIOR PAINT EMULSION	SNOWCRYL XT/ MXIMUS OF SNOWCEM PAINT, WEATHERCOAT SMOOTH/ WEATHERCOAT LONG LIFE FLEXO OF BERGER PAINTS, DULUX PROFESSIONAL WEATHER SHIELD OF AKZONOBEL, ULTIMA OF ASIAN PAINTS
8.	ACRYLIC SMOOTH EXTERIOR PAINT EMULSION	TRUMP/ ALPURA OF SNOWCEM PAINT, WALMASTA OF BERGER PAINTS, APEX, ASIAN PAINTS, WEATHER SHIELD OF MIS AKZONOBEL.
9.	STEEL/ WOOD PRIMER	ASIAN, DULUX, BERGER, NEROLAC,
10.	EPOXY PAINT	ASIAN, DULUX, BERGER, NEROLAC, SNOWCEM INDIA LTD, VELOSIT
11.	WOOD FINISH (MELAMINE & PU POLISH)	ASIAN, DULUX, BERGER, NEROLAC, PIDILITE, WEMBLEY, STP LTD.
12.	THERMOPLASTIC PAINTS	ASIAN PAINTS, BERGER, RELIANCE THERMOPLAST, S.N. IND. OSCAR, AUTOMARK (INDIA) INDUSTRIES LTD, STP LTD
13.	ROAD MARKING PAINT	NEROLAC, ASIAN, SHALIMAR, BERGER, STP LTD.
	WOOD WORK	
1.	BLOCK BOARD, PLYWOOD	GREEN PANEL, DURO, CENTURY, MERINO, BHUTAN TUFF, JAIN WOOD INDUSTRIES
2.	LAMINATE	MERINO, GREEN, CENTURY, FORMICA, BHUTAN TUFF, JAIN WOOD INDUSTRIES
3.	VENEER PLY, NATURAL WOOD VENEERS	MERINO, GREEN LAM, DURO, CENTURY, KALPATARU, BHUTAN TUFF, CENTURY,

4.	PRELAMINATED PARTICLE BOARD	CENTURY, MERINO, ACTION TESA, BHUTAN TUFF, GREEN LAM
5.	FACTORY MADE FLUSH DOOR	CENTURY, ARCHID, MERINO, DURO, GREENPANEL, ORION, BHUTAN TUFF
6.	GYPSUM BOARD	GYPROC, SAINT GOBAIN GYPROC INDIA PVT. LTD, USG BORAL, GYPTECH
7.	LOCKS, LETCH	GODREJ, HETTICH, DORMA, IPSA, HAFELE, KICH
8.	FRICITION STAY HINGES, BALL BEARING HINGES & SPRING HINGES	EARL-BIHARI, EBCO, GODREJ, DORMA, HAFELE, KICH
9.	NUTS, BOLTS & SCREWS	GKW, KUNDAN, PRIYA, ATUL, PUJA, IPSA, WURTH
10.	DASH, ANCHORING FASTENERS & SS STONE CLADDING CLAMP	HILTI, FISCHER, TRIXEL FROM AXELINDIA, CANON, BOSCH, WURTH, ANCHOR
11.	MDF/HDHMR/WPC BOARD	DURATUFE, MERINO, CENTURY, GREENPANEL, ACTION TESA, BHUTAN TUFF, KALPATARU
12.	FRAME SYSTEM FOR INTERAL PARTITION	SAINT GOBAIN GYPROC INDIA PVT. LTD, USG BORAL
13.	ACOUSTIC MINERAL FIBRE CEILING AND GRID SYSTEM	USG BORAL ARMSTRONG, GYPTECH, AEROLITE DIMOND, HI-STEEL, BOLLARD
14.	THERMAL INSULATION BOARDS	U.P TWIGA FIBERGLASS LTD, LLOYD, ROCKWOOL INDIA, TWIGA INSULATING INDIA, SIKA
15.	PREMIXED FORMULATED GYPSUM LIGHTWEIGHT PLASTER	ELITE-90 – GYPROC GOBAIN, FERRO – 700 GYPSUM PLASTER – FERROUS CRETE, RED TOP – USG BORAL BUILDING PRODUCTS (I) PRIVATE LIMITED,
16.	TOILET CUBICLES	GREENLAM, MERINO, CENTURY
17.	HIGH PRESSURE LAMINATE	MERINO, GREENLAM, FUNDERMAX, CENTURY
ALUMINIUM, STEEL, FALSE CEILING, ROOF AND GLASS WORK		
1.	STAINLESS STEEL HARDWARE FITTINGS (HEAVY DUTY)	DORMA, OZONE, GODREJ, GEZE, HAFELE, DORSET, KICH, IPSA, ASSA ABLOY, HETTICH
2.	ALUMINIUM SECTIONS FOR DOORS, WINDOWS& PARTITIONS ETC.	JINDAL, HINDALCO, INDALCO, NALCO, MAHAVEER
3.	ALUMINUM SHEET	NOVELIS, EURAMAX, JINDAL, HINDALCO
4.	ANODISED/POWDER COATED ALUMINIUM HARDWARE (HEAVY DUTY)	NU-LITE, GODREJ, KLASSIC, ALKA, JINDAL, PULSE, IPSA, ASSA ABLOY
5.	CLEAR/FLOAT/ FROSTED GLASS	MODI, SAINT GOBAIN, ASAHI, PILKINGTON, GOLD PLUS, GLAVERBEL (BELGIUM), SISECAM
6.	FIRE RETARDANT ALUMINIUM COMPOSITE PANEL	REYNOBOND, ALUDECOR, ALUCOBOND, ALSTONE, ALUBOND DACS
7.	STAINLESS STEEL SECTION	JINDAL, KICH, ESSAR, NSTYLE-D-LINE, FABRINOX, SALES STEEL, DORMA, GEZE, OZONE, IPSA
8.	HIGH PERFORMANCE TOUGHENED GLASS	SAINT GOBAIN, ASAHI, PILKINGTON, MODIGUARD
9.	FALSE CEILING- GYPSUM	SAINT GOBAIN GYPROC INDIA PVT. LTD., GYPROC/BORAL, GYPTECH
10.	FALSE CEILING- METAL WITH SUPPORTING GRID	SAINT GOBAIN, ARMSTRONG, DEXUNE, USG BORAL, DAIKEN, DIAMOND, NEWAGE, HI-STEEL, BOLLARD
11.	ACOUSTICAL FALSE CEILING SYSTEM	ARMSTRONG, USG BORAL, SAINT GOBAIN, GYPTECH, BOLLARD
12.	METAL MODULAR FALSE CEILING SYSTEM	ARMSTRONG, HUNTER DOUGLAS, DURLUM, GYPROC, DYNAMAX, BOLLARD, NEWAGE
13.	WOODEN METAL BAFFLE CEILING SYSTEM	ARMSTRONG, HUNTER DOUGLAS, DURLUM, GYPROC, BOLLARD
14.	CALCIUM SILICATE FALSE CEILING SYSTEM	AEROLITE, GYPTECH, ARMSTRONG, DIAMOND

15.	UPVC WINDOW/DOORS	FENESTA, REHAU, ALUPLAST, PRIZMA, KOMMERLING, ENCRAFT
16.	ALUMINIUM SECTIONS FOR DOORS, WINDOWS & PARTITIONS ETC.	JINDAL, HINDALCO, INDALCO, NALCO, BHORUKA, INDAL, MAHAVEER
17.	FIRE RETARDENT DOOR	GODREJ, SHAKTI, NAVAIR, SUKRI, KALPATARU, BHAWANI, KUTTY
18.	GRG FALSE CEILING	DIAMOND, HI-STEEL, BOLLARD, ARMSTRONG
19.	PVC DOORS	RAJSHRI PLASTIWOOD, FINOLEX PLASTICS, POLYLINE, DUROPLAST, SINTEX, FIBREWAYS, JAYNA
20.	FRP DOOR	FIBREWAYS, NAVIER, SUKARI PROMAT, KUTTY, JINDAL STAINLESS, BHATT FIBREWAYS, JAYNA, SELECTED, WURTH, SIKA
21.	INSULATED ROCKWOOL EXTERNAL PANEL	LLOYD INSULATION, KINGSPAN BY JINDAL, METECNO, SYNERGY, ROOFCLAD, RINAC ROCKWOOL, ROCKWOOL, SINTEX
22.	ANTI STATIC HIGH-PRESSURE LAMINATE	MERINO, FORMICA, GREENLAM, FUNDERMAX, BHUTAN TUFF, DURO
23.	MIRROR	SAINT GOBAIN, MODIGUARD, AIS, ATUL, GOLDEN, PILKINGTON
24.	MS / SS WIRE MESH	HAVER STANDARD, GRAND METAL, STRELING, TRIMURTY WELDED MESH, TIGER
25.	HYDRAULIC DOOR CLOSURE	HARDWYN, GODREJ, EVERITE, DORMA, HAFELE, DORSET, SANDHU
26.	S.S. RAILING	JINDAL, DORMA, FABRINOX, STEEL N STYLE, ALFA PRESS PIPES & FITTING
27.	G.I. SHEET	SAIL, TATA, JINDAL, ISPAT, ROOFCLAD, ESSAR
28.	FIBRE GLASS SHEET	SIMCRYL(SIMBA), FIBREWAYS, ADVANCE FIBRE, ROOFCLAD
29.	ROLLING SHUTTER	RAMA ROLLING SHUTTER, JYOTI ROLLING SHUTTER, ANAND INDST, SHRI RAM ROLLING SHUTTER
30.	ALUMINIUM DOORS & WINDOW FIXTURE	EVERITE, GODREJ, HARDIMA, HARDWARE, KLASSIC, ALKA, JINDAL, IPSA
31.	STEEL WINDOW	(I) M/S UNITED ENGG. WORKS, RAM NAGAR
		(II) M/S METAL WINDOW CORP. ROHTAK
		(III) M/S SKS STEEL INDUSTRIES PIRGARHI
		(IV) ANY OTHER ISI MARKED FACTORY MADE
		(V) JANGID ENGINEERING WORKS (JAIPUR)
32.	FIBRE CEMENT BOARD	HIL, VISHAKHA, EVEREST INDUSTRY LTD., JAMES HARDIE, NCL INDUSTRIES, EVEREST, BISON
33.	FABRICATORS FOR ALUMINIUM GLAZING, STRUCTURAL GLAZING, ALUMINIUM DOOR & WINDOWS, ACP WORK.	ALUMAX, WINDORZ INDIA PVT. LTD, JANGID ENGINEERING WORKS (JAIPUR)
34.	LAMINATE FLOORING	ARMSTRONG, PERGO, FLORENCE, ACTION TESA
35.	PVC FLOORING & VINYL WALL	ARMSTRONG, FORBO, GERELOR, INPROCORP,
36.	GLASS DOOR FITTINGS	DORMA, GEZE, HAFELE, ASBA ALLOY, OZONE, BENE, MARS, HETTICH
37.	CASEMENT WINDOW HINGES	GIESSE, ALUALPHA, LAVAL, SAVIO
38.	SS FRICTION HINGES	GIESSE, COTSWOLD, SECURISTYLE
39.	TOUGHENED GLASS FOR PARTITIONS	SAINT GOBAIN, ASAHI INDIA GLASS, SCHOTT, GOLD PLUS
40.	GLASS DOORS/PARTITION/HARDWARE/ALUMINUM PROFILE	DORMA, GEZE, HAFELE, ASBA ALLOY, OZONE, BENE, MARS

	WATER SUPPLY AND SANITARY WORKS	
1.	PTMT FITTINGS	PRAYAG, POLYTUF, Cardin
2.	KITCHEN LOFT TANK	SINTEX, TIRUPATI
3.	PLASTIC SEAT COVER	HINDWARE, CERA, PARRYWARE, KOHLER, NYCER, JOHNSON PEDDAR, JAQUAR
4.	PVC CISTERN	HINDWARE, CERA, PARRYWARE, KOHLER, NYCER, JOHNSON PEDDAR, JAQUAR
5.	C.I. MANHOLES COVERS	BIC, KAPILANSH DHATU UDHYOG, NECO, RIF, BCM, SKF, HIF
6.	BRASS STOP & BIB COCK	ZOLOT, SANT, L&K, JAQUAR, ESSCO, JOHNSON, PARRYWARE, CERA
7.	BRASS BALL VALVE WITH FLOATS	ZOLOTO, LEADER, SANT
8.	SS HINGED GRATING	GMGR, NEER, CHILLY
9.	SANITARY ACCESSORIES	JAQUAR, KOHLER, KEROVIT, HINDWARE, JOHNSON, SIMPOLO CERAMICS, PARRYWARE, CERA
10.	C.P. ACCESSORIES	JAQUAR, SOMANY, PARRYWARE, GROHE, KOHLER, HINDWARE, JOHNSON, CERA, KINGSTON
11.	MOISTURE RESISTANT BOARD	ST-GOBAIN, GYPROC, USG BORAL,
12.	FLOOR TRAP	JAINA, CHILLY, NIRALE
13.	VITREOUS CHINA SANITARYWARE AND FITTINGS	HINDWARE, CERA, PARRYWARE, KOHLER, NYCER, JOHNSON PEDDAR, SOMANY, JAQUAR
14.	STAINLESS STEEL SINKS	NEELKANTH, JAYNA, FRANKE, ANUPAM, NIRALI, COBRA, PRAYAG, CERA, KINGSTON
15.	C.P. BRASS FITTINGS	JAQUAR, SOMANY, PARRYWARE, GROHE, KOHLER, HINDWARE, JOHNSON, CERA, KINGSTON, CARDIN
16.	CENTRIFUGALLY CAST (SPUN) IRON PIPES & FITTINGS	NECO, RIF, SKF, ACL, HEPSCO, MARC, GEM, BIC, HIF, JAISWAL, RPMF
17.	CENTRIFUGALLY CAST (SPUN) IRON PIPES (CLASS LA)	RIF, NECO, SKF, ACL, HIF
18.	CPVC PIPES & FITTINGS	ASTRAL, PRINCE, SUPREME, FINOLEX, PRAKASH, ASHIRWAD, APL APOLLO
19.	G. I. PIPES	TATA, JINDAL (HISSAR), ZENITH, PRAKASH SURYA, G.S.T.
20.	G. I. FITTINGS	UNIK, ZOLOTO, KS, ICS, R, K.S, NVR, JINDAL, R BRAND, AMCO
21.	UPVC PIPES & FITTINGS	ASTRAL, PRINCE, SUPREME, FINOLEX, PRAKASH, ASHIRWAD, APL APOLLO
22.	GUNMETAL VALVES	LEADER, SANT, ZOLOTO, KIRLOSKAR, CASTLE, KARTAR, KILBURN
23.	BALL VALVES	LEADER, SANT, ZOLOTO, CASTLE, IBP, ARCO
24.	C.I. SLUICE VALVES	KIRLOSKAR, IVC, BURN
25.	SFRC MANHOLE COVER	KK, JAIN, PRAGATI, BIC, KAPILANSH DHATU UDHYOG, NECO, RIF, BCM, S.S. & CO.
26.	RCC PIPES	JAIN, PRAGATI, KK, LAKSHMI, SOOD & SOOD, JAIN & CO., USHA, DIWAN SPUN PIPE, J. K. SPUN PIPES
27.	LA (CI) PIPES	RIF, NEECO, ELECTRO STEEL, IISCO, NEECO, KAPLANSH, KESORMA SPUN PIPE & FOUNDRIES, CALCUTTA, SUPER ENTERPRISES, INDIAN IRON & CO. LTD. CALCUTTA.
28.	PPR PIPES	SFMC, SAFE, PIONEER INDST., SUPREME, RELIANCE
29.	DUCTILE IRON PIPE (WATER SUPPLY)	ELECRO STEEL, KESSO, KDUPL, ELECTRO SPUN
30.	SEWERAGE & DRAINAGE PUMPS	KIRLOSKAR, KSB, CROMPTON GREARES
31.	HDPE PIPES & FITTINGS	JAIN, ORIPLAST, KISAN
32.	G.I. PIPE JOINTING MATERIALS	LOCTITE 55/DR. FIXIT, MC BAUCHEMIE
33.	STONWARE PIPES AND GULLY TRAPS	PERFECT, BURN, ANAND, PARRY, SKINS GROHE, HIND, DEVRAJ ANAND CERAMIC (P) LIMITED., PERFECT

		POTTERI JABAL PUR (MP), BURN POTTERIES, JABALPUR
34.	WATER METER	CRESENT/ KAYEE/ KAPSTAN/ ANAND AASHI
35.	PVC WATER TANK	SFMC/SINTEX/SPL, UNITEK, SHEETAL, POLYCON ELECTRO PLAST, STAR, LOTUS
36.	SEWAGE WATER/RAIN WATER PIPES	ASTRAL, PRINCE, SUPREME, FINOLEX, PRAKASH, AJAY, ASHIRWAD, BIRLA AEROCON, KISAN
37.	SMC (Sheet Moulded Compound) Panel Tank	SINTEX, AMITEX
	MISCELLANEOUS ITEMS	
1	FRP CHAJJA, SHEET & DOORS, FRP SHUTTERS, RAILINGS, COVERS	FIBREWAYS, KUTTY, JINDAL STAINLESS, BHATT FIBREWAYS, WURTH, SIKKA
2	GRC/FRP SCREENS/RAILING/JALI/ CORNICES/STATUES/PANELS/MO ULDING	TERRA FIRMA, JINDAL STAINLESS, UNISTONE, UNIQUE
3	POLY CARBONATE SHEET	SABIC LEXAN, BAYER, COXABELL, ROOFCLAD, MNF METALS, GE LEXOL, EVEREST
4	DIAMOND CUTTING/ CORE CUTTING	WURTH, HILTI, TYROLIT
5	SIGNAGES	PROLITE, GLOLITE, VISTA
6	BLINDS	VISTA, DÉCOR, DECK, MAC
7.	FURNITURE	GODREJ, DURIAN, STEELCASE, HERMAN MILLER, FEATHERLITE,
8.	MICRO CONCRETE	FOSROC, CICO, PIDILITE
9.	CORIAN SHEET	DUPONT, STARON SOLID
10.	BROADLOOM WOOVEN CARPET	OBEETEE, FENIX, FELTECH, WILTON
11.	FIRE CHECK DOORS S.S. FITTINGS	HAFELE, GEZE, BECKER FIRE SOLOUTION
12.	WARNING & DIRECTORIAL TACTILE INDICATOR (STAINLESS STEEL STRIP & STUDS OF 304 GRADE WITH PU)	SIGNXPRESS INDIA, EMINENT TACTILE, FERROGRATE

Note: -The Articles / materials which are not mentioned in the above said list shall be approved by the NIT approving authority before execution of work.

ANNXURE-I**LIST OF MANDATORY TESTS**

Material	Clause	Test	Field/ Laboratory test	Test procedure	Min. quantity of material for carrying out the test	Frequency of testing
1	2	3	4	5	6	7
Water	3.1.1	(i) PH Value (ii) Limits of Acidity (iii) Limits of Alkalinity (iv) Percentage of solids a) Chlorides b) Suspended matter c) Sulphates d) Inorganic solids e) Organic solids	Lab Lab Lab Lab Lab Lab Lab	IS 3025	-	Water from each source shall be got tested before the commencement of work and thereafter once in every three months till the completion of the work. Water from municipal source need be tested only once in six months. Number of tests for each source shall be 3.
Cement	3.1.2	(a) Physical requirement (i) Fineness (ii) Soundness (iii) Setting time (initial & Final) (iv) Compressive strength (v) Consistency of standard cement paste	Lab Lab Lab Lab Lab	IS 4031 (Part II) IS 4031 (Part III) IS 4031 (Part V) IS 4031 (Part VI) IS 4031 (Part VI)	Each lot	Every 50 tonnes or part thereof. Each brand of cement brought to site shall be tested as per this frequency.
Sand	3.1.3.1	Organic impurities	Field	Appendix 'A'	20 cum	Every 20 cum or part thereof or more frequently as decided by Engineer-in-charge.
	3.1.3.2	Silt Content	Field	Appendix C	20 cum	Every 20 cum or part thereof or more frequently as decided by Engineer-in-charge.
	3.1.3.4	Particle size distribution a, b, c, d, & e	Field or Labour as decided by the Engineer in charge	Appendix B	40 cum	40 cum or part thereof.
	3.1.3.5	Bulking of sand	Field	Appendix D	20 cum	Every 20 cum or part thereof or more frequently as decided by Engineer in charge.
Steel tubular pipes	10.13	(a) Tensile Test (b) Bend Test (c) Flattening Test	Laboratory	IS 1608 IS 2329 IS 2328	Every 8 tonne or part thereof.	Every 8 tonne or part thereof.
Structural Steel if arranged by the contractor	10.1.1	(a) Tensile strength (b) Bend Test	Laboratory	IS 1599	20 tonne	Every 20 tonne or part thereof.
Bricks/Brick tiles	6.1.3 6.1.4 6.1.5	Testing of bricks/brick tiles for dimensions, Comprehensive strength, Water absorption and efflorescence	Laboratory	Appendix A,B,C & D of Chapter 6	As per the Table 6.3 and 6.4	Every 50000 or part thereof or more frequently as decided by Engineer in charge.
Stone aggregate	4.1.2.2	(a) Percentage of soft or delirious material	Field or laboratory Test as required	IS 2386-Part-II	As required by Engineer-in-charge	For all quantities
Reinforcement Steel	5.1.3	Physical Test and chemical test	Laboratory	IS 1786	As per CPWD specification	As per CPWD specification

	4.1.2.3	Particle size	Field/Lab	Appendix-‘A’	45 Cum	For every 45 cum or part thereof for RCC work only. For test of items as decided by Engineer-in-charge
	4.1.2.5	(a) Estimation of organic impurities	Field/Lab	IS 2386-Part-II	10 Cum	For every 40 cum or part thereof
		(b) Surface moisture	Field/Lab	IS 2386	10 Cum	-do-
		(c) Determination of 10% fine value	Field/Lab	IS 2386	10 Cum	-do-
		(d) Specific gravity	Field/Lab	IS 2386	10 Cum	-do-
		(e) Bulk density	Field/Lab	IS 2386	10 Cum	-do-
		(f) Aggregate crushing strength	Field/Lab	IS 2386	10 Cum	-do-
		(g) Aggregate impact value	Field/Lab	IS 2386	10 Cum	-do-
Concrete	5.4.1	Slump Test	Field	Appendix –‘D’	10 Cum	15 cum of part thereof
Reinforcement Concrete	5.4.9.1	Cube Test	Field / Lab	Appendix – ‘A’	5 cum	As per CPWD specifications
Timber	9.1.6	Moisture Content	Field (by moisture meter) laboratory test as required by Engineer-in-charge.	Appendix-‘C’	1 Cum	Every one cum or part thereof.
Stone	7.1.1 7.4 7.8 7.9	(i) Water absorption (ii) Transverse strength (iii) Resistance to wear (iv) Durability	Lab Test	IS 1121 IS 1121 Part II IS 1706 IS 1126	50 sqm for slabs and 10 cum in stone masonry	100 sqm/20 cum or part thereof or change of source as per direction of Engineer-in-charge.
Marble	8.3 (Table 8.2)	(i) Moisture Absorption (ii) Hardness Test (iii) Specific Gravity	Laboratory	IS 1124 Mho’s Scale IS 1122	50 Sq.m.	100 sqm. or part thereof.
Granite		(i) Moisture (ii) Specific Gravity	Laboratory	IS 1124 IS 1122	50 Sq.m.	100 sqm. or part thereof.
Concertina Coil	As per BIS code	1. Tensile Strength 2. Galvanising	Laboratory	IS 278: 2009	Per lot	Per lot.

Annexure II**Field Testing Instruments**

1. Steel tapes – 3m
2. Vernier calipers
3. Micrometer screw 25mm gauge
4. A good quality plumb bob
5. Spirit level, minimum 30cms long with 3 bubbles for horizontal vertical
6. Wire gauge (circular type) disc
7. Foot rule
8. Long nylon thread
9. Magnifying glass
10. Screw driver 30cms long
11. Ball pin hammer, 100 gms
12. Plastic bags for taking samples
13. Balances
 - (i) 7 kg. to 10 kg. capacity, semi self indicating type –accuracy 10gm.
 - (ii) 500 gm. Capacity, semi-self indicating type – accuracy 1 gm.
 - (iii) Pan balance – 5 Kg. capacity – accuracy 10 gms.
14. Ovens (if required)-electrically operated, thermostatically controlled upto 110°C – Sensitivity 1°C.
15. Sieves: as per IS 460-1962 (if required)-.
 - (i) I.S. sieves – 450mm internal dia, of sizes 100mm, 80mm, 63mm, 50mm, 40mm, 25mm, 20mm, 12.5mm, 10mm, 6.3mm, 4.75mm, complete with lid and pan.
 - (ii) I.S.. sieves – 200 internal dia (brass frame) consisting of 2.36mm, 1.18mm, 600 microns, 425 microns, 300 microns, 212 microns, 150 microns, 90 microns, 75 microns, with lid and pan.
16. Sieve shaker capable of 200mm and 300mm dia sieves, manually operated with timing switch assembly.
17. Equipment for slump test slup cone, steel plate, tamping rod, steel scale, scoop.
18. Dial gauges (if required)-, 25mm travel – 0.01 mm/division least count – 2nis.
19. Graduate measuring cylinders 200ml capacity – 3 nos.
20. Enamel trays (for efflorescence test for bricks).
 - (i) 300mm x 250mm x 40mm - 2 nos.
 - (ii) Circular plates of 250mm dia – 4 nos.
21. Cube Testing Machine with calibration certificate.
22. Cube Moulds – 12 Nos. 15x15x15 cm

On non-judicial stamp paper of minimum Rs. 100

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

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

1. Whereas the Executive Engineer (name of division), CPWD on behalf of the President of India (hereinafter called "The Government") has invited bids under (NIT number) dated for (name of work) The Government has further agreed to accept irrevocable Bank Guarantee for Rs. (Rupees only) valid upto (date)* as **Earnest Money Deposit** from (name and address of contractor) (hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR**

- Whereas the Executive Engineer (name of division), CPWD on behalf of the President of India (hereinafter called "The Government") has entered into an agreement bearing number with (name and address of the contractor) (hereinafter called "the Contractor") for execution of work (name of work) The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. (Rupees only) valid upto (date) as **Performance Guarantee/Security Deposit/Mobilization Advance** from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.
2. We, (indicate the name of the bank) (herein after referred to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs. (Rupees only) on demand by the Government within 10 days of the demand.
3. We, (indicate the name of the Bank), do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said Contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (Rupees only)
4. We, (indicate the name of the Bank), further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any Court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the Contractor shall have no claim against us for making such payment.
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


Y.P. Sahu
30.10.2020
300&M

whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

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

Date

Witnesses:

1. Signature.....
Name and address

Authorized signatory

Name

Designation

Staff code no.

Bank seal

2. Signature
Name and address

*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.


YP Sahu 20.10.2020
SECM

No. 1(10)/T&PR/2016
Government of India
Directorate General
Central Public Works Department
Technical & Public Relations Unit

Tel No. 23061584 Email: dirtech-pr.cpwd@nic.in

105-A, Nirman Bhawan,
 New Delhi, Dated: **27.01.2016**

OFFICE MEMORANDUM

Sub.: Directives of the Hon'ble Supreme Court and Hon'ble National Green Tribunal on air pollution from construction and demolition activity.

Attention is drawn to the Hon'ble National Green Tribunal earlier orders dated 4.12.2014 and 10.4.2015 in OA No. 21/2014 and OA No. 95/2014 and MoEF guidelines of 2010 regarding dealing with air pollution from construction and demolition sites. The directives in this regard are restated in the Annexure enclosed.

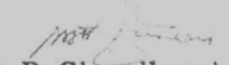
2. Hon'ble Tribunal had directed for mandatory strict adherence and compliance of above referred orders as well as MoEF guidelines 2010 while carrying out the construction activity.

3. Hon'ble Supreme Court, in a recent judgment has favoured imposing a fine of Rs. 50,000/- on a daily basis on construction sites for generating high levels of dust in Delhi and NCR. It has been directed by the apex court that EPCA may go around and check polluting construction sites with the help of the volunteers for strict compliance of its order.

4. Accordingly, all SDGs, ADGs, CEs, CPMs, PMs are enjoined upon to strictly comply with the directives of Hon'ble Supreme Court & Hon'ble NGT and MoEF guidelines 2010 to control air pollution at CPWD construction sites. Any laxity found or reported by the checking authorities in this regard shall be viewed seriously.

This issues with the approval of Director General, CPWD.

Encl. As above.


(S. P. Chaudhary)
Director (Tech & PR)

To **(through CPWD website)**

All SDGs, CPWD

All ADGs, CPWD

All CEs/CPMs/PMs, CPWD

Directives of Hon'ble National Green Tribunal in O.A. No.21 of 2014 and O.A. No. 95 of 2014 and MoEF guidelines 2010 on Air Pollution from Construction and Demolition activity.

(A) NGT order dated 04.12.2014:

- No government, authority, contractor, builders or any person would be permitted to store/dump construction material or debris on metalled road.
- Beyond the metalled road the area where such the construction material or debris can be stored shall be physically demarcated by officers of all the concerned Authorities/Corporation ensuring that it would not cause any obstruction to the free flow of traffic/inconvenience to the pedestrians. It should be ensured that no accidents occur on account of such permissible storage.
- Every builder, contractor or person shall ensure that the construction material is covered by tarpaulin and all other precaution should be taken to ensure that no dust particles are permitted to pollute air quality as a result of such storage. It shall also be ensured that appropriate protection measures are taken by raising wind breakers of appropriate height on all sides of the plot/area using plastic and /or other similar material to ensure that no construction material dust fly outside the plot area and it will be the builder/contractor responsibility to ensure that their activity does not cause any air pollution during course of construction and/or storage of material or construction activity. This condition shall be strictly adhered to by every builder, contractor, person or authority. In the event of default they shall be liable to be prosecuted under the law in force, as well as for causing environmental pollution and will be liable to pay compensation which would be determined by Tribunal in accordance with law.
- All the trucks or vehicles of any kind which are used for construction purposes/or are carrying construction material like cement, sand and other allied material should be fully covered. The vehicles should be properly cleaned, should be dust free and every necessary precautions is to be taken to ensure that enroute their destination, the dust, sand or any other particles are not permitted to be released in air/contaminate air. Any truck not complying with the above directions would not be permitted to enter NCR, Delhi.

(B) NGT order dated 10.04.2015:

- Every builder or owner shall put tarpaulin on scaffolding around the area of construction and the building. No person including builder, owner can be permitted to store any construction material particularly sand on any part of the street, roads in any colony.

- The construction material of any kind that is stored in the site will be fully covered in all respects so that it does not disperse in the Air in any form.
- All the construction material and debris shall be carried in the trucks or other vehicles which are fully covered and protected so as to ensure that the construction debris or the construction material does not get dispersed into the air or atmosphere, in any form whatsoever.
- The dust emissions from the construction site should be completely controlled and all precautions taken in that behalf.
- The vehicles carrying construction material and construction debris of any kind should be cleaned before it is permitted to ply on the road after unloading of such material.
- Every worker working on the construction site and involved in loading, unloading and carriage of construction material and construction debris shall be provided with mask to prevent inhalation of dust particles.
- Every owner and or builder shall be under obligation to provide all medical help, investigation and treatment to the workers involved in the construction of building and carry of construction material and debris relatable to dust emission.
- It shall be the responsibility of every builder to transport construction material and debris waste to construction site, dumping site or any other place in accordance with rules and in terms of this order.
- All to take appropriate measures and to ensure that the terms and conditions of the earlier order and these orders should strictly comply with by fixing sprinklers, creations of green air barriers.
- Compulsory use of wetjet in grinding and stone cutting.
- Wind breaking walls around construction site.
- All the builders who are building commercial, residential complexes which are covered under the EIA Notification of 2006 shall provide green belt around the building that they construct. All Authorities shall ensure that such green belts are in existence prior to issuance of occupancy certificate.
- All builders shall ensure that C&D waste is transported in terms of this order to the C & D Waste site only and due record in that behalf shall be maintained by the builders, transporters and NCR of Delhi.
- Even if constructions have been started after seeking Environmental Clearance under the EIA notification 2006 and after taking other travel but is being carried out without taking the preventive and protective environmental steps as stated in this order and MoEF guidelines, 2010, the State Government, SPCB and any officer of any department as afore stated shall be entitled to direct stoppage of work.

(C) Environmental Impact Assessment Guidance Manual for Building, Construction, Township and area Development Projects of February, 2010 envisages the following guidelines for mitigation measures in respect of dust control from Building, Construction projects:

"Adopting techniques like, air extraction equipment, and covering scaffolding, hosing down road surfaces and cleaning of vehicles can reduce dust and vapour emissions. Measures include appropriate containment around bulk storage tanks and materials stores to prevent spillages entering watercourses."

The other measures to reduce the air pollution on site are:

- Sprinkling of water and fine spray from nozzles to suppress the dust.
- On-Road- Inspection should be done for black smoke generating machinery.
- Promotion of use of cleaner fuel should be done.
- All DG sets should comply emission norms notified by MoEF
- Vehicles having pollution under control certificate may be allowed to ply.
- Use of covering sheet to prevent dust dispersion at buildings and infrastructure sites, which are being constructed
- Use of covering sheets should be done for trucks to prevent dust dispersion from the trucks, implemented by district offices.
- Paving is a more permanent solution to dust control, suitable for longer duration projects. High cost is the major drawback to paving.
- Reducing the speed of a vehicle to 20 kmph can reduce emissions by a large extent.

Speed bumps are commonly used to ensure speed reduction. In cases where speed reduction cannot effectively reduce fugitive dust, it may be necessary to divert traffic to nearby paved areas.

Material storages / warehouses — Care should be taken to keep all material storages adequately covered and contained so that they are not exposed to situations where winds on site could lead to dust / particulate emissions. Fabrics and plastics for covering piles of soils and debris is an effective means to reduce fugitive dust.

(D) Copy of NGT orders dated 04.12.2014, 10.04.2015, copy of MoEF guidelines 2010 are available at the DPCC website "<http://dpcc.delhigovt.nic.in>".



CENTRAL PUBLIC WORKS DEPARTMENT

OFFICE MEMORANDUM

No. DG/CON/Misc./04

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAVAN, NEW DELHI

DATED: 23.01.2017

Sub : Compliance on Construction & Demolition Waste Management Rules, 2016 – Regarding Disposal of Waste to the approved by local Authority.

Ref : Ministry of Environment and Forest notification dt. 29.03.2016 Construction and Demolition Waste Management Rules 2016 in exercise of powers Conferred by Environment (Protection) Act 1986 (Available at web address www.moef.gov.in).

The above Rules notified by Ministry of Environment and Forest are brought to the notice of all NIT approving authorities and they are directed to incorporate suitable provisions in the special conditions and ensure compliance of the Rules.

This issues with the approval of ADG(TD).

23/01/17

Superintending Engineer (C&M)

Issued from file No. CSQ/CM/C/17(1)/2017

Copy to:-

1. All Spl. DGs, CPWD, E-in-C, PWD, Delhi Govt. They are requested to endorse a copy of this O.M. to all ADGs, CEs, SEs & EEs concerned.

[Signature]
Executive Engineer (C)

**(GUARANTEE TO BE EXECUTED BY CONTRACTORS FOR REMOVAL OF
DEFECTS
AFTER COMPLETION IN RESPECT OF WATER PROOFING WORKS.**

The Agreement made this _____ day of _____ one thousand
nine hundred and _____ between _____ son of

_____ 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 said 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 **five years** from the date of giving of water
proofing treatment.

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 **FIVE YEARS** to be reckoned from the date after the maintenance period
prescribed in the contract.

Providing that the Guarantor will not be responsible for 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 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 such rectification within seven days from the
date of issue of the notice from the Engineer-in-charge calling upon him to rectify the defects
failing which the work shall be got done by the Department by some other contractor at the
GUARANTOR'S cost and risk. The decision of the Engineer-in-charge as to the cost, payable by
the Guarantor shall be final and binding.

That if the Guarantor fails to execute the water proofing or commits breach there under, then the Guarantor will indemnify the Principal and his successors against all loss, damage, cost, expense or otherwise which may be incurred by him by reason of any default the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and / or damage and /or cost incurred by the Government the decision of the Engineer-in-charge will be final and binding on the parties.

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

Signed, sealed and delivered by Obligor in the presence of -

1. _____
2. _____

Signed for and on behalf of the President of India by _____

In the presence of –

Schedule of Quantity

Name of Work: A/R & M/O GPRA Complex Timarpur within jurisdiction of Sub Div-2A i.e. SC 234 during 2026-27. (SH: - Change of tenancy for various type of quarters - Civil work.)

S No	Description	Quantity		Rate	Unit	Amount
1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
1.1	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)	1.00	cum	6518.60	cum	6519.00
2	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° 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	cum	11506.00
3	Centering and shuttering including strutting, propping etc. and removal of form for :					
3.1	Suspended floors, roofs, landings, balconies and access platform	13.00	sqm	927.25	sqm	12054.00
4	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					
4.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	100.00	kg	107.85	kg	10785.00
5	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 to edges to give high gloss finish etc. complete at all levels.					
5.1	Granite of any colour and shade					
5.1.1	Area of slab upto 0.50 sqm	3.00	sqm	5413.50	sqm	16241.00
5.1.2	Area of slab over 0.50 sqm	34.00	sqm	5136.30	sqm	174634.00

6	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.	64.00	metre	568.55	metre	36387.00
7	Providing and fixing Ist 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.	207.00	sqm	1267.95	sqm	262466.00
8	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters :					
8.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	73.00	sqm	2392.65	sqm	174663.00
8.2	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	42.00	sqm	2093.70	sqm	87935.00
9	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.					
9.1	Fixed to steel windows by welding	267.00	kg	219.10	kg	58500.00
10	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :					
10.1	100x10 mm	216.00	Nos.	44.30	each	9569.00
11	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :					
11.1	100 mm	108.00	Nos.	32.55	each	3515.00
12	Providing and fixing oxidised M.S. hasp and staple (safety type) conforming to IS : 363 with necessary screws etc. complete :					
12.1	150 mm	18.00	Nos.	33.10	each	596.00
13	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 :					

13.1	250x16 mm	36.00	Nos.	260.60	each	9382.00
14	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 :					
14.1	250x10 mm	72.00	Nos.	115.15	each	8291.00
14.2	150x10 mm	36.00	Nos.	82.55	each	2972.00
15	Providing and fixing aluminium pull bolt lock, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws bolts, nut and washers etc. complete.	36.00	Nos.	100.80	each	3629.00
16	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 :					
16.1	125 mm	144.00	Nos.	66.25	each	9540.00
17	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness .The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat . Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	87.00	metre	570.95	metre	49673.00
18	Providing and fixing to existing door frames.					
18.1	30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.	50.00	sqm	3720.75	sqm	186038.00
19	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.					
19.1	125 mm	126.00	Nos.	119.20	each	15019.00

20	Providing and fixing 6 mm thick both sides Pre-laminated cement bonded wood particle board as per IS : 15786:2008 of approved brand and shade with suitable full threaded steel screws etc. on the backing of racks, drawer, cupboard,kitchen cabinet under kitchen counter etc. all complete as per direction of Engineer- In-Charge.	30.00	sqm	1010.60	sqm	30318.00
21	Providing and fixing cupboard shutter with 19mm thick one side decorative and other side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand including 2mm thick PVC edge banding tape with hot glue by edge bending machine etc. with auto closing spring loaded hinges (hydraulic type) etc. complete as per direction of Engineer- In-Charge.(Payment of providing and fixing auto closing hinges shall be paid separately).	28.00	sqm	2829.25	sqm	79219.00
22	Providing and fixing 19mm thick both sides balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand boxes, shelves, racks, almirah, cupboard and drawer etc. including necessary nails, screws, etc. complete as per direction of Engineer-In-Charge.	108.00	sqm	2593.15	sqm	280060.00
23	Providing and fixing stainless steel soft closing spring hinges at 0 degree hinges (hydraulic type) of approved make/brand to cupboard shutters with full threaded steel screws including making necessary recess in board and finished etc. complete as per direction of Engineer-In-Charge.	252.00	Nos.	272.00	each	68544.00
24	Providing and fixing 2mm thick 16 to 19 mm wide PVC edge binding tape of approved quality for cupboard/wardrobe shutters including necessary synthetic resin hot pressed to edges on binding machine etc.complete as per direction of Engineer-In-Charge.	182.00	metre	43.80	metre	7972.00
25	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	131.00	kg	117.35	kg	15373.00
26	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).					

26.1	Fixing with carbon steel galvanized dash fastener of required dia and size (to be paid for separately)	472.00	kg	128.25	kg	60534.00
27	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.					
27.1	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	268.00	kg	136.00	kg	36448.00
28	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.					
28.1	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	523.00	kg	181.25	kg	94794.00
29	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.					
29.1	Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	38.00	sqm	1133.55	sqm	43075.00
30	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.	200.00	sqm	1096.55	sqm	219310.00
31	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), including grouting the joints with white cement and matching pigments etc., complete.	131.00	sqm	1330.00	sqm	174230.00
32	12 mm cement plaster of mix :					
32.1	1:4 (1 cement: 4 coarse sand)	250.00	sqm	357.35	sqm	89338.00

33	15 mm cement plaster on rough side of single or half brick wall of mix :					
33.1	1:4 (1 cement: 4 coarse sand)	350.00	sqm	411.75	sqm	144113.00
34	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.	1920.00	sqm	25.15	sqm	48288.00
35	Disconnecting damaged overhead/terrace PVC water storage tank of any size from water supply line and removing from the terrace including shifting at ground level as per direction of Engineer-in- charge.	30.00	Nos.	433.75	each	13013.00
36	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in-Charge.	18.00	Nos.	134.10	each	2414.00
37	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	432.00	metre	3.25	metre	1404.00
38	Taking out existing wooden door shutter, repair by cutting, painting etc. and re-fixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge.	36.00	Nos.	429.10	each	15448.00
39	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.					
39.1	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	1.00	cum	1503.60	cum	1504.00
40	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	1.00	cum	3551.25	cum	3551.00
41	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :					
41.1	Of area 3 sq. metres and below	72.00	Nos.	367.20	each	26438.00
42	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.					
42.1	For thickness of tiles 10 mm to 25 mm	338.00	sqm	73.40	sqm	24809.00

43	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead :					
43.1	75 to 80 mm dia pipe	40.00	metre	75.70	metre	3028.00
43.2	100 mm dia pipe	40.00	metre	78.00	metre	3120.00
44	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	25.00	Nos.	112.05	each	2801.00
45	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	600.00	sqm	54.65	sqm	32790.00
46	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.	120.00	cum	263.95	cum	31674.00
47	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 :					
47.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	8.00	Nos.	6767.40	each	54139.00
48	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 :					
48.1	W.C. pan with ISI marked white solid plastic seat and lid	10.00	Nos.	6515.55	each	65156.00
49	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:-(a) White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	15.00	Nos.	3960.55	each	59408.00

50	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :					
50.1	Kitchen sink without drain board					
50.1.1	610x460 mm bowl depth 200 mm	15.00	Nos.	3873.80	each	58107.00
51	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :					
51.1	Rectangular shape 453x357 mm	18.00	Nos.	1361.80	each	24512.00
52	Providing and fixing soil, waste and vent pipes :					
52.1	100 mm dia					
52.1.1	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	40.00	metre	1180.75	metre	47230.00
52.2	75 mm diameter :					
52.2.1	Centrifugally cast (spun) iron socketed pipe as per IS: 3989	40.00	metre	1186.00	metre	47440.00
53	Providing and filling the joints with spun yarn, cement slurry and cement mortar 1:2 (1 cement : 2 fine sand) in S.C.I./ C.I. Pipes :					
53.1	75 mm dia pipe	50.00	Nos.	168.20	each	8410.00
53.2	100 mm dia pipe	50.00	Nos.	198.15	each	9908.00
54	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.					
54.1	100 mm dia					
54.1.1	Sand cast iron S&S as per IS - 3989	10.00	Nos.	705.20	each	7052.00
54.2	75 mm dia					
54.2.1	Sand cast iron S&S as per IS- 3989	10.00	Nos.	522.80	each	5228.00
55	Providing and fixing plain bend of required degree.					
55.1	100 mm dia					
55.1.1	Sand cast iron S&S as per IS : 3989	8.00	Nos.	570.05	each	4560.00
55.2	75 mm dia					
55.2.1	Sand cast iron S&S as per IS - 3989	8.00	Nos.	390.50	each	3124.00
56	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.					
56.1	100x100x100 mm					
56.1.1	Sand cast iron S&S as per IS - 3989	12.00	Nos.	925.70	each	11108.00
56.2	75x75x75 mm					

56.2.1	Sand cast iron S&S as per IS - 3989	12.00	Nos.	665.05	each	7981.00
57	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	18.00	Nos.	231.95	each	4175.00
58	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.					
58.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	18.00	Nos.	673.40	each	12121.00
59	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.	18.00	Nos.	713.20	each	12838.00
60	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.					
60.1	20 mm nominal dia. Pipes	512.00	metre	537.60	metre	275251.00
61	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	7500.00	litre	11.00	per litre	82500.00
62	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 i/c fittings & fixtures for tank shall be paid separately.	2250.00	litre	11.00	per litre	24750.00
63	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.					
63.1	15 mm nominal bore	18.00	Nos.	670.45	each	12068.00
64	Providing and fixing PTMT bib cock of approved quality and colour.					

64.1	15 mm nominal bore, 165 mm long, weighing not less than 110 gms	144.00	Nos.	176.85	each	25466.00
65	Providing and fixing PTMT grating of approved quality and colour.					
65.1	Circular type					
65.1.1	100 mm nominal dia	72.00	Nos.	37.60	each	2707.00
66	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./H.P.H.D. plastic ball.					
66.1	15 mm nominal bore, 105 mm long, weighing not less than 138 gms	36.00	Nos.	182.10	each	6556.00
67	Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms	108.00	Nos.	156.90	each	16945.00
68	Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40 gms	18.00	Nos.	121.40	each	2185.00
69	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	18.00	Nos.	111.45	each	2006.00
70	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.					
70.1	15 mm nominal bore with 30cm length	72.00	Nos.	96.35	each	6937.00
71	Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge					
71.1	25 mm average thickness	120.00	sqm	126.75	sqm	15210.00
72	Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge.					
72.1	Bars upto 12 mm diameter	1920.00	metre	8.25	metre	15840.00

73	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect.					
73.1	SBR Polymer (@10% of cement weight) modified cementitious bond coat @2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer.	240.00	sqm	141.20	sqm	33888.00
74	Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge. Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and / or the 75mm size cube crushing strength at the end of 28 days to be not less than 30 N/ mm ²).					
74.1	12 mm average thickness.	120.00	sqm	388.65	sqm	46638.00
74.2	25 mm average thickness in 2 layers.	120.00	sqm	587.35	sqm	70482.00
75	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour : (Distemper and cement primer will be supplied by the department free of cost.)					
75.1	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	2520.00	sqm	172.35	sqm	434322.00
76	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour. (Distemper will be supplied by the department free of cost.)					
76.1	Two Coats over old work	720.00	sqm	100.95	sqm	72684.00
77	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. (Putty will be supplied by the department free of cost.)	2520.00	sqm	117.45	sqm	295974.00

78	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : (Synthetic enamel paint will be supplied by the department free of cost.)					
78.1	Two or more coats on new work	538.00	sqm	125.75	sqm	67654.00
79	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : (Synthetic enamel paint will be supplied by the department free of cost.)					
79.1	One or more coats on old work	542.00	sqm	84.70	sqm	45907.00
80	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content. (Pink or grey primer will be supplied by the department free of cost.)					
80.1	With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre	285.00	sqm	59.55	sqm	16972.00
81	Providing and placing 1st quality acrylic distemper (ready mixed) having VOC (Volatile Organic Compound) content less than 50 gram/ litre, of approved brand and manufacturer in required packing complete as per direction of Engineer - in - charge.	386.00	kg	69.20	kg	26711.00
82	Providing and placing synthetic enamel paint of approved brand and manufacture of required colour and packing complete as per direction of Engineer - in - charge.	100.00	Litre	258.45	per litre	25845.00
83	Providing and placing ordinary paint (ready mixed pink or grey primer) having voc content less than 50 grams / litre of approved brand and manufacture in required packing complete as per direction of Engineer - in - charge.	22.00	Litre	143.95	per litre	3167.00
84	Providing and placing white cement based putty of approved brand and manufacture in required packing complete as per direction of Engineer - in - charge.	3675.00	kg	26.50	kg	97388.00
85	Providing and placing water thinnable cement primer having VOC content less than 50 grams/litre of approved brand and manufacture in required packing complete as per direction of Engineer - in - charge.	176.00	Litre	66.25	per litre	11660.00
86	Providing and fixing Stainless steel curtain rod 25 mm dia of grade 304 with SS bracket of grade 304 brackets fixing with rawl plug complete as per direction of Engineer -in-Charge :	198.00	Metre	405.45	Metre	80279.00

87	P/F transparent polycarbonate sheet 3.0 mm thick of approved make to windows, clerestory windows and balcony with M.S Flat 15x3 mm by nuts and bolts or any other suitable means including welding etc. (if required) at any height complete as per direction of Engineer-in-charge.	38.00	sqm	1764.70	sqm	67059.00
88	P/F G.I. tank nipple 15 mm dia for tank with rubber washer for making connection etc complete as per Direction of Engineer-in-charge	54.00	Nos.	80.30	each	4336.00
89	Credit on account of taking away the unserviceable dismantled material received from dismantling from all floor levels (The dismantled material will be the property of the contractor). Before removing from site the dismantled material so received will be duly measured/ weighed in the presence of Engineer-in-charge or his authorized representative.					
	a.) G.I./C.I./M.S. Sections etc.	550.00	kg	-45.00	kg	-24750.00
	b.) Wooden door window shutters chowhats etc. and similar other items.	375.00	kg	-8.00	kg	-3000.00
	c.) PVC doors windows shutters, cistern, bibcock and pvc tank and other PVC and FRP material etc.	150.00	kg	-20.00	kg	-3000.00
	Total of DSR item i.e.(item no.1 to 86)					4964013.00
	Estimated cost after using modified factor of GST on DSR 2023 @ 0.973 (A)					4829985.00
	Add Cost Index @ 4.03%					194648.00
	Total (A)					5024633.00
	Total of MR item 87 to 89 (B)					40645.00
	Total(A+B)					5065278.00

Note:-

1. Contractor should see the site and read the conditions carefully before quoting his rates.
2. Rate of credit items will be treated at par if the quoted percentage by contractor is in lesser side than estimated cost, if the percentage quoted by contractor is in higher side, the rate of these items shall be enhanced accordingly.

Executive Engineer
“A” Division, CPWD
New Delhi