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NAME OF WORK: A/R & M/O to GPRA 400 'E' Type Quarters at Pandara Road under N Division, CPWD, New Delhi during 2026-27 (Provision for Removal of Malba from Various Locations within Pandara Road Campus and Transportation by Rickshaw for Disposal at the Designated Dumping Ground, Including Cleaning Works).


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Certified that this NIT contains **1 to 100** pages.

Assistant Engineer
2/N Sub-Division, CPWD
New Delhi

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/Man AE (P) EE

# NOTICE INVITING e-TENDERS

The Assistant Engineer '2/N' Sub-Division, CPWD, Pandara Road, New Delhi on behalf of the President of India, invites online **Percentage rate tenders** from the eligible and enlisted contractors of appropriate class of CPWD for the following work.

| S. No | NIT No | Name of work & location | Estimate cost put to bid (Rs.) | Earnest Money (Rs.) | Stipulated period of completion of work (in months) | Last date of online submission of bid, EMD and other documents as specified in the bid document. | Date and time of opening of bid |
|---|---|---|---|---|---|---|---|
| 1 | **225/EE/NDN/2026-27** | A/R & M/O to GPRA 400 'E' Type Quarters at Pandara Road under N Division, CPWD, New Delhi during 2026-27 (Provision for Removal of Malba from Various Locations within Pandara Road Campus and Transportation by Rickshaw for Disposal at the Designated Dumping Ground, Including Cleaning Works). | **₹ 5,63,878/-** | **₹ 11,278/-** | **03 Months** | **13.11.2026 At 3:00 PM** | **13.11.2026 At 3:30 PM** |

The bid forms and other details be obtained from the website http://etender.cpwd.gov.in or www.cpwd.gov.in free of cost.

**Assistant Engineer**
**2/N** Sub- Division,
CPWD New Delhi

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/Man AE (P) EE

**INTEGRITY PACT**

To

……..,

……..,

……..

Sub: NIT No. 225/EE/NDN/2026-27 :- A/R & M/O to GPRA 400 'E' Type Quarters at Pandara Road under N Division, CPWD, New Delhi during 2026-27 (Provision for Removal of Malba from Various Locations within Pandara Road Campus and Transportation by Rickshaw for Disposal at the Designated Dumping Ground, Including Cleaning Works).

Dear Sir,

It is here by declared that CPWD is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender/bid documents, failing which the tenderer/bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the CPWD.

Yours faithfully

Assistant Engineer
2/N Sub-Division,
CPWD, Pandara
Road, New Delhi

# INTEGRITY PACT

To,

The Assistant Engineer,
2N Sub- Division,
CPWD,
Pandara road,New Delhi

Sub: Submission of Tender for the work of: A/R & M/O to GPRA 400 'E' Type Quarters at Pandara Road under N Division, CPWD, New Delhi during 2026-27 (Provision for Removal of Malba from Various Locations within Pandara Road Campus and Transportation by Rickshaw for Disposal at the Designated Dumping Ground, Including Cleaning Works).

Dear Sir,

I/We acknowledge that CPWD is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by CPWD. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, CPWD shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid is accordance with terms and conditions of the tender/bid.

Yours faithfully

(Duly authorized signatory of the Bidder)

TO BE SIGNED BY THE BIDDER AND SAME SIGNATORY COMPETENT / AUTHORISED TO SIGN THE RELEVANT CONTRACT ON BEHALF OF CPWD

# INTEGRITY AGREEMENT

(Integrity Agreement is applicable for all works of estimate cost put to tender equal to or more than the threshold value given in Schedule-F)

This Integrity Agreement is made at ..... on this ..... day of 2025

BETWEEN

President of India represented by the Engineer-In-Charge (hereinafter referred to as the Principal, which expression shall unless repugnant to the meaning or hereof include its successors and permitted assignees)

AND

.....

(Name and Address of the bidder)

(hereinafter reference to as the "Bidder/Contractor" and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assignees)

Preamble

WHEREAS the Principal has floated the tender (NIT No **225/EE/NDN/2026-27**) (hereinafter referred to as the Tender) and intends to award, under laid down organizational procedure contract for:- A/R & M/O to GPRA 400 'E' Type Quarters at Pandara Road under N Division, CPWD, New Delhi during 2026-27 (Provision for Removal of Malba from Various Locations within Pandara Road Campus and Transportation by Rickshaw for Disposal at the Designated Dumping Ground, Including Cleaning Works).

hereinafter referred to as the "Contract".

AND WHEREAS the Principal values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as Integrity Pact), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

In order to achieve these goals, the Principal will appoint Independent External Monitors (IEMs) who will monitor the tender process and the execution of the contract for compliance with the principles mentioned hereunder.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this integrity Pact witnesses as under:

Articles

Article 1: Commitment of the Principal/Owner

The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:

No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.

The Principal/Owner shall endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.

If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

Article 2: Commitment of the Bidder(s)/Contractor(s)

It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.

The Bidder(s)/Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:

The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.

The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.

The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/ Contract(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/ representatives in India, if any. Similarly Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign Principal/Owner or the foreign Principal/Owner directly could bid in a tender but not both. Further, in cases where an agent participates in a tender on behalf of one manufacturer, he shall not be

allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.

The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.

The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.

The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (Which shall include the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/ Contractor accepts and undertakes to respect and uphold the Principal/Owner absolute right:

If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. Such exclusion may be forever or for a limited period as decided by the Principal/Owner.

Forfeiture of EMD/Performance Guarantee/Security Deposit: If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.

Criminal Liability: If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of PC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country confirming to the anticorruption approach or with Central Government or State

Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.

If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Contractor as deemed fit by the Principal/Owner.

If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors

The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Subcontractors/sub-vendors.

The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.

The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6- Duration of the Pact

This integrity Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 02 Months after the completion of work under the contract or expiry defect liability period or last payment made under the contract, whichever is later and for all other bidders, 6 months after the Contract has been awarded.

If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the ADG/SDG, CPWD concerned.

Article 7- Other Provisions

This integrity Pact is subject to Indian Law, place of performance and jurisdiction is the Head quarters of the Division of the Principal/Owner, who has floated the Tender.

Changes and supplements as well as termination notice need to be made in writing.

If the Contractor is a partnership or a consortium, this integrity Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the integrity Pact must be signed by a representative duly authorized by board resolution.

Should one or several provisions of this integrity Pact turn out to be invalid; the remainder of this pact remains valid. In this case, the parties will strive to come to an agreement to their original intensions.

Issued like Warranty/Guarantee etc. shall be outside the purview of IEMs.

It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this integrity pact, any action taken by the Principal/Owner in accordance with this integrity pact or interpretation thereof shall be subject to arbitration.

In view of the nature of integrity pact, the integrity pact is irrevocable and shall remain valid even if the main tender/contract is terminated till the currency of the integrity pact.

If any complaint regarding violation of IP is received directly by the Principal/Owner in respect of the contract, the same shall be referred to the IEM for comments/recommendations.

Article 8- Legal and Prior Rights

All rights and remedies of the parties here to shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard to any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

.....

(For and on behalf of Principal/Owner)

.....

(For and on behalf of Bidder/Contractor)

WITNESSES:

1 .....

(signature, name and address)

2 .....

(signature, name and address)

Place:

Dated:

Note: To be signed by the Bidder and the Engineer-In-Charge

## 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 bid document very carefully, before quoting the rates.

2 The bidder should also read the General Conditions of Contract for CPWD works 2023, 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. Any decision in this regard shall rest with the Engineer-in-charge and the contractor shall have no claim on this account in any kind.

5 The bidder shall quote his rebate if required, mentioning specifically on what component it is applicable otherwise it shall be considered general rebate on total quoted rates.

6 The work required to be executed in occupied building. The bidder shall take precautions to ensure quality of workmanship as well as the progress of the work. He shall regulate the labourers accordingly.

7 The bidder shall make arrangement for disposal of dismantled materials, malba from upper floors or from the sites on daily basis which should be environment friendly.

**8 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 labourers.

(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 labourer on……at..... "

9 **Modifications as per DG, CPWD OM no. DG/SE/CM/CON/285 dated 08/11/2015:-**

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 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 at 1979.

10 GST as applicable shall be borne by the agency. The agency shall quote his rates considering applicable GST and other taxes and nothing extra shall be paid on this account.

11 Necessary recoveries as applicable shall be made from the bill as per Govt. Rule.

12 Agency has to be following the up to date direction/guidelines issued by the department time to time regarding pandemic Covid-19.

13 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.

14 The agency shall be bound to do the work in any location under the jurisdiction of 'N' Division as decided by Engineer-in-Charge for which nothing extra shall be paid.

15 Testing charges to be borne by contractor:-
All expenditure to be incurred for testing of samples e.g. packaging, sealing, transportation, loading, unloading etc. including testing charges shall be borne by the contractor from approved laboratories by ADG (RD) / SDG.

16. Malba obtained from execution of work shall be removed immediately and shall not remaining in premises more than 24 hours.

17. The guidelines regarding preventive measures for Air Pollution from demolition & construction activities issued by Delhi Pollution Control Committee vide no. DPCC/EIA/Res-001 to 172/NGT-21/2015/225-408 dated 17.04.2015 in compliance of Hon'ble National green Tribunal directions are applicable to the contractor. All appropriate protection measures as per NGT, DPCC and Ministry of Environment and Forest issued time to time shall be taken by the contractor at his own cost. Nothing extra shall be payable to the contractor on this account.

## INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR E-TENDERING FORMING PART OF BID DOCUMENT

**(Applicable for inviting open tenders)**

The Assistant Engineer '2/N' Sub-Division, CPWD, Pandara Road, New Delhi on behalf of the President of India invites online Percentage rate tender from the approved, eligible and enlisted contractors of CPWD for the following work.

| S. No | NIT No | Name of work & location | Estimate cost put to bid (Rs.) | Earnest Money (Rs.) | Stipulated period of completion of work (in months) | Last date of online submission of bid, EMD and other documents as specified in the bid document. | Date and time of opening of bid |
|---|---|---|---|---|---|---|---|
| 1 | 225/EE/NDN/2026-27 | A/R & M/O to GPRA 400 'E' Type Quarters at Pandara Road under N Division, CPWD, New Delhi during 2026-27 (Provision for Removal of Malba from Various Locations within Pandara Road Campus and Transportation by Rickshaw for Disposal at the Designated Dumping Ground, Including Cleaning Works). | ₹ 5,63,878/- | ₹ 11,278/- | 03 Months | 13.11.2026 At 3:00 PM | 13.11.2026 At 3:30 PM |

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

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

3. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website http://etender.cpwd.gov.in or www.cpwd.gov.in free of cost.

4. **But the bid can only be submitted after deposition of EMD Online through e-gateway.**

5. Those contractors who are not registered or have not updated their profile on the website mentioned above, are required to get registered/update their profile beforehand. The necessary training materials including the videos with step-to-step process are available on download section of https://etender.cpwd.gov.in.

6. The intending bidder must have valid class-III digital signature certificate with encryption key (Combo type) to perform any operations/transactions on the e-tendering portal/website and the bidders should download and install the eMsigner on their system as per instruction available on download section of https://etender.cpwd.gov.in.

7. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.

8. Contractor can upload documents in the form of JPG format and PDF format.

9. Contractor must ensure to quote rate in the prescribed column(s) meant for quoting rate in figures appears in yellow colour and the moment rate is entered, it turns sky blue

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

   However, If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

10. SC/ST contractors enlisted under class V category are exempted from processing fee payable to ITI.

11. The Contractor should quote the percentage above or below to two places of decimal only.

12. The officer inviting tenders shall have the right of rejecting all or any of the tenders and will not be bound to accept the lowest or any other tender.

13. The tenderers shall sign a declaration under the officials Secret Act 1923, for maintaining secrecy of the tender documents drawings or other records connected with the work given to them. The unsuccessful tenderers shall return all the drawings given to them. Otherwise, department may reject the bid.

14. 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 otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.

15. 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.

16. 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.

17. The agency shall follow the standard operating procedure and guidelines scrupulously at the construction site to contain the outbreak of COVID-19. It is the sole responsibility of the agency

to adhere to the SOPs issued by CPWD and other orders & Guidelines issued by various Governments (Govt. of India and or/ state Govt. and /or Dist. Administrative of local Govt). The quoted rates shall inclusive of all such required measures and materials like Soaps, Detergents, Sanitizers, Disinfections, Masks, Gloves and other personal protection equipment's to contain COVID-19 and nothing extra shall be paid."

18. The bidder, who has backed out, shall not be allowed to participate in the re-tendering process.

19. Testing charges to be borne by contractor:-

All expenditure to be incurred for testing of samples e.g. packaging, sealing, transportation, loading, unloading etc. including testing charges shall be borne by the contractor from approved laboratories by ADG (D) / SDG.

20. The agency shall be bound to do the work in any location under the jurisdiction of 'N' Division as decided by Engineer-in-Charge for which nothing extra shall be paid.

21. Malba obtained from execution of work shall be removed immediately and shall not remain in premises more than 24 hours.

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

| S.No. | For eligible CPWD Registered Contractors |
|---|---|
| 1. | Copy of Enlistment Order of CPWD Contractor in appropriate class of B and R category. |
| 2. | GST Registration Certificate of the State in which the work is to be taken up, if already obtained by the bidder.<br><br>If the bidder has not obtained GST registration in the State in which the work is to be taken up, or as required by GST authorities then in such a case the bidder shall scan and upload following undertaking along with other bid documents.<br><br>"lf work is awarded to me, I/we shall obtain GST registration Certificate of the State, in which work is to be taken up, 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 a/c of the work executed and/or for any action taken by CPWD or GST department in this regard. |
| 3. | Scanned copy of original bank guarantee including e-Bank Guarantee of any commercial bank against EMD. |
| 4. | Form 'F' Undertaking on structural stability and soundness of already completed buildings and infrastructure Projects. (Page.-99) |
| 5. | 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. |

**Notes:- Lowest bidder shall submit the uploaded documents mentioned above within 3 days of opening of bid with the Assistant Engineer, 2/N Sub-Division, CPWD, New Delhi.**

**Assistant Engineer**
N- Division, CPWD
New Delhi- 110 002

**CPWD-6 (for e-Tendering)**

Online Percentage Rate bids are invited on behalf of the President of India from approved, eligible contractors of appropriate class of CPWD for the following work:- "A/R & M/O to GPRA 400 'E' Type Quarters at Pandara Road under N Division, CPWD, New Delhi during 2026-27 (Provision for Removal of Malba from Various Locations within Pandara Road Campus and Transportation by Rickshaw for Disposal at the Designated Dumping Ground, Including Cleaning Works).

1. The enlistment of the contractors should be valid on the last date of submission of bids. 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 bids.

1.1 The work is estimated to cost **₹ 5,63,878/-**This estimate, however, is given merely as a rough guide.

2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 7/8 (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.

3. The time allowed for carrying out the work will be **03 Months** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.

4. The site for the work is available.

5. The architectural and structural drawings shall be made available in phased manner, as per requirement of the same as per approved programme of completion submitted by the contractor after award of work. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website https:// etender.cpwd.gov.in or www.cpwd.gov.in free of cost.

6. After submission of the bids the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.

7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.

8. When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.

9. **Earnest Money will be paid online through CPWD e-Tendering platform within the period of bid submission.**

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 through **online payment mode** and balance may be deposited in the shape of Bank Guarantee including e-Bank Guarantee any commercial bank having validity for a period of 90 days for single bid works and 180 days for two bid system or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

The earnest money given by all the tenderers except the lowest tenderer shall be refunded immediately after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier. However, in case of two/ three bid system, earnest money deposit of bidders unsuccessful during technical bid evaluation etc. should be returned within 03 Months of declaration of result of technical bid evaluation.

Copy of Enlistment Order and certificate of work experience and other documents as specified in the notice inviting e-tender shall be scanned and uploaded on the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in e-tender notice shall have to be submitted by the lowest bidder within a week physically in the office of tender opening authority. **Online bid documents submitted by intending bidders shall be opened only of those bidders, who has deposited EMD online through CPWD e-tendering portal and Bank Guarantee including e-Bank Guarantee (for balance amount as prescribed) from a Commercial Bank on CPWD e-tendering platform and other documents scanned and uploaded are found in order.**

The bid submitted shall be opened at **03:30 PM** on **13.11.2026**.

10. The bid submitted shall become invalid and e-Tender processing fee shall not be refunded if:

(i) The bidder is found ineligible.

(ii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.

(iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.

(iv) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

11. The contractor whose bid is accepted will be required to furnish performance guarantee at specified percentage of the tendered amount as mentioned in schedule E and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from

any of the Commercial Banks in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work within the period specified in Schedule F.

12 **The Description of work is as follows: -**

A/R & M/O to GPRA 400 'E' Type Quarters at Pandara Road under N Division, CPWD, New Delhi during 2026-27 (Provision for Removal of Malba from Various Locations within Pandara Road Campus and Transportation by Rickshaw for Disposal at the Designated Dumping Ground, Including Cleaning Works).

Intending tenderers 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 circumstances which may influence or effect their tender. A tenderer 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 tenderer 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 tenderer 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 for rejection.

15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.

16. The contractor shall not be permitted to bid for works in 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 Superintending Engineer, DC-1 and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Gazetted officer in the Central Public Works Department or in the Ministry of Housing and Urban Affairs. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

17. No. Engineer of 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 prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the tender or engagement in the contractor's service.

18. The bids for the work shall remain open for acceptance for a period of 30 (thirty) days from the date of opening of bids further.

(i) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department within 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.

(ii) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.

(iii) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work.

19. This Notice inviting bid shall form a part of the contract document. The successful Tenderer/contractor, on acceptance of his bid by the Accepting Authority, shall, within **15(Fifteen)** Days from the stipulated date of start of the work, sign the contract consisting of:-

(a) The notice inviting bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and 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 or other Standard C.P.W.D. Form as applicable.

## 20. For Composite Bids

20.1.1 The Assistant Engineer in charge of the major component will call bids for the composite work. The cost of bid document and earnest money will be fixed with respect to the combined estimated cost put to tender for the composite bid.

20.1.2 The bid document will include following three components:

**Part A:-**CPWD-6, CPWD-7 including schedule A to F for the major component of the work, Standard General Conditions of Contract for CPWD 2023 as amended/modified up to date of submission of tender.

**Part B:-**General / specific conditions, specifications and schedule of quantities applicable to major component of the work.

**Part C:-**Schedule A to F for minor component of the work (competent authority under clause 2 and clause 5 shall be same authority as mentioned in schedule A to F for major components), General/specific conditions, specifications and schedule of quantities applicable to minor component(s) of the work.

20.1.3 The bidders must associate himself, with agencies as per NIT conditions.

20.1.4 The eligible bidders shall quote percentage rates for all items of major component as well as from minor components of work.

20.1.5 After acceptance of the bid by competent authority, the EE in charge of major component of the work shall issue letter of award on behalf of the President of India. After the work is awarded, the main contractor will have to enter into one agreement with EE In charge of major component and has also to sign two or more copies of agreement depending upon number of EE's in-charge of minor components. One such signed set of agreement shall be handed over to EE in-charge of minor component(s). EE of major component will operate **Part A** and **Part B** of the agreement. EEin charge of minor component(s) shall operate **Part C** along with **Part A** of the agreement.

20.1.6 Entire work under the scope of composite bid including major and all minor components shall be executed under one agreement.

20.1.7 Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.

20.1.8 The main contractor has to associate agencies for specialized component(s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency(s) to Engineer-in-charge of relevant component(s).within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer-in-charge of relevant component(s).

20.1.9 In case the main contractor intends to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer-in-charge of relevant specialized component(s).

The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-charge is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.

20.1.10 The main contractor has to enter into MoU with agency(s) associated by him . Copy of such MoU shall be submitted to EE/ DDH in charge of each relevant component as well as to EE in-charge of major component. In case of change of associate contractor, the main agency(s) has to enter into MoU/agreement with the new contractor associated by him.

20.1.11 Running payment for the major component shall be made by EE of major discipline to the main contractor. Running payment for minor components shall be made by the Engineer-in-charge of the discipline of minor component directly to the main contractor. The EMB shall be maintained independently by Engineer-in-charge of major and minor components.

20.1.12A. The composite work shall be treated as complete when all the components of the work are complete. The completion certificate of the composite work shall be recorded by Engineer-in-charge of major component after record of completion certificate of all other components.

20.1.12B. Final bill of whole work shall be finalized and paid by the EE of major component. Engineer(s) in charge of minor component(s) will prepare and pass the final bill for their component of work and pass on the same to the EE of major component for including in the final bill for composite contract.

21. Integrity Pact (IP) is to be made part of NIT/Agreement only for works with estimated cost put to tender of Rs. 300 Crores and above as per OM No. DG/CON/Misc./24 dated 05.09.2022.

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/uploading tender can be resolved through the concerned Assistant Engineer/ Junior Engineer (Phone no *011-23389475 e- mail Id *delaec2n.cpwd@nic.in) or ERP helpline no. 18001803286 or e-mail ld 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. DG/SOP/36 dated 25.03.2022.

23. In Case of extension of agreement due to delay/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.

24. 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 of Schedule A to F.

25. GST as applicable shall be borne by the agency. The agency shall quote his rates considering applicable GST and other taxes and nothing extra shall be paid on this account.

26. The agency shall be bound to do the work in any location under the jurisdiction of 'N' Division as decided by Engineer-in-Charge for which nothing extra shall be paid.

27. Necessary recoveries as applicable shall be made from the bill.

Assistant Engineer '2/N'
Sub-Division, CPWD
New Delhi

*C.P.W.D.- 7*

**GOVERNMENT OF INDIA**

**CENTRAL PUBLIC WORKS DEPARTMENT**

STATE :-**Delhi** CIRCLE:- **Delhi Circle-1**
BRANCH :-**B&R** DIVISION **:- 2/N Sub-Division**
REGION :- **Delhi**

**Percentage Rate Bid**

Bid for the work of**: -**A/R & M/O to GPRA 400 'E' Type Quarters at Pandara Road under N Division, CPWD, New Delhi during 2026-27 (Provision for Removal of Malba from Various Locations within Pandara Road Campus and Transportation by Rickshaw for Disposal at the Designated Dumping Ground, Including Cleaning Works).

Dear Sir,

(i) Tenders to be uploaded online by at **03:00 PM** on **13.11.2026**

(ii) To be opened online in presence of tenders who may be present on **13.11.2026** at **03:30** PM in the office of Assistant Engineer, 2/N Sub-Division, CPWD, IP Bhawan, New Delhi.

**TENDER**

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

I/We hereby tender for the execution of the work specified for the President of India within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all 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 of accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for **03 Months** from the due date of its opening and not to make any modification in its terms and conditions.

**I/We have deposited EMD through online payment mode for the prescribed amount as per the bid document.**

In respect of portion of EMD prescribed in the shape of BG, the scanned copy of original Bank Guarantee including e-Bank Guarantee (as applicable) of any commercial bank having validity for a period of 90 days for single bid and 180 days for two bid systems or more from the last date of receipt of bids (strike out as the case may be), is to be uploaded. If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/ We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

I/We have deposited EMD for the prescribed amount in the office of concerned Assistant Engineer as per the bid document. A copy of earnest money deposit receipt of prescribed amount deposited in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee includes e-Bank Guarantee (as prescribed) issued by a Commercial Bank, is scanned and uploaded (strike out as the case may be).

(i) If I/We withdraw my tender or makes any modification in the terms & condition of the tender which is not acceptable to the department within 7 days after qualification for financial bid then the Government shall without prejudice to any other right or remedy, forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.

(ii) If I/We withdraw my tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 days after qualification for financial bid then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.

A sum of **Rs 11,278/-** is hereby forwarded in Insurance Surety Bond, Accounts Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (for balance amount as prescribed) from any of Commercial Banks as earnest money. If I/We fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said President of India or his successors in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely.

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

Further, I/We agree that in case of forfeiture of performance guarantee as aforesaid I/We shall be debarred for participation in the retendering process of the work.

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

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

Dated ……

Signature of the Contractor
Postal Address ..
Telephone No. ..
FAX. ...
E-Mail ID .....

Witness. .....
Address. .....
Occupation .....

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/Man AE (P) EE

## ACCEPTANCE

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

The letter referred to below shall form part of this contract agreement.

a)
b)
c)

For & on behalf of President of India

Signature …….*……

Dated …….*…… Designation …….*……

* To be filled in by the Engineer-in-charge

**Assistant Engineer**
**2/N Sub-Division, CPWD**
**New Delhi**

# PROFORMA OF SCHEDULES

| | | | | |
|---|---|---|---|---|
| **SCHEDULE 'A'** | | | | |
| Schedule of quantities | | | As attached | |
| **SCHEDULE 'B'** | | | | |
| Schedule of materials to be issued to the contractor Schedule | | | | |
| S. No. | Description of item | Quantity | Rates in figures & words at which the material will be charged to the contractor | Place of Issue |
| 1 | 2 | 3 | 4 | 5 |
| ------NIL--------- | | | | |
| | | | | |
| ***SCHEDULE 'C'** | | | | |
| Tools and plants to be hired to the contractor | | | | |
| S. No. | Description | | Hire charges per day | Place of Issue |
| 1 | 2 | | 3 | 4 |
| ------NIL--------- | | | | |

| | | |
|---|---|---|
| **SCHEDULE 'D'** | | |
| Extra schedule for specific requirements/documents for the work, if any. | : | **NIL** |
| **SCHEDULE 'E'** | | |
| Reference to General Conditions of contract | : | General Conditions of Contract 2023 (Maintenance Works) for CPWD Works with amendments issued upto last day of online receipt of tender |
| Name of Work | : | A/R & M/O to GPRA 400 'E' Type Quarters at Pandara Road under N Division, CPWD, New Delhi during 2026-27 (Provision for Removal of Malba from Various Locations within Pandara Road Campus and Transportation by Rickshaw for Disposal at the Designated Dumping Ground, Including Cleaning Works). |
| Estimated cost of work | : | **₹ 5,63,878/-** |
| (i) Earnest Money | : | **₹ 11,278/-** |
| (ii) Performance Guarantee | : | 5% of tendered value |
| (iii) Security Deposit | : | 2.5% of tendered value of the work to be deducted from each R/A & Final Bill. |

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/Man AE (P) EE

**SCHEDULE 'F'**

| | | |
|---|---|---|
| GENERAL RULES & DIRECTIONS | | |
| Officer inviting tender | : | Assistant Engineer, 2/N Sub-Division, CPWD, New Delhi. |
| 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. | : | As per clause 12.2 and 12.3. |
| Definitions | | |
| 2(v) Engineer -in- Charge | : | Assistant Engineer, 2/N, Sub- Division, CPWD, Pandara Road, New Delhi. |
| 2(viii) Accepting Authority | : | Assistant Engineer, 2/N, Sub- Division, CPWD, Pandara Road, New Delhi. |
| 2(x) Percentage on cost of materials and Labour to cover all overheads and profits | : | 7.5% |
| 2(xi) Standard Schedule of Rates | : | Market Rates and DSR-2023 with correction slips issued upto last date of online receipt of tender. |
| 2(xii) Department | : | Central Public Works Department. |
| 9 (ii) Standard CPWD Contract Form GCC 2023, CPWD Form 7/ 8 as modified & corrected upto | : | CPWD Form 7 modified & corrected up to last date of submission of tender. |
| **Clause 1** | | |
| (i) Time allowed for submission of Performance Guarantee, Programme Chart (Time and Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance. | : | 07 days |
| | | |
| (ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) Above. | : | 03 days |
| | | |
| **Clause 2** | | |
| Authority for fixing compensation under Clause- 2 | : | Superintending Engineer, DC-1, CPWD, I.P.Bhawan, New Delhi. |
| **Clause 2A** | | |
| Applicable Clause 2A | : | No |
| **Clause 5** | | |

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/Man AE (P) EE

| | | |
|---|---|---|
| Number of days from the date of issue of letter of acceptance for reckoning date of start. | : | 03 Months |

Mile stone(s) as per table given below:-

| Sl. No. | Description of Milestone (Financial) | Time allowed in days (from date of start) | Amount to be with- held in case of non- achievement of Milestone |
|---|---|---|---|
| As described in general condition & silent points. | | | |

Time allowed for execution of work: **03 Months.**

| | Authority to decide | |
|---|---|---|
| (i) | Authority to convey the decision of shifting of milestone and extension of time | **Assistant Engineer, 2/N Sub-Division, CPWD, Pandara Road, New Delhi** |
| (ii) | Authority to decide for Rescheduling of milestones and extension of time | **Superintending Engineer, DC-1, CPWD, New Delhi** |
| (iii) | Shifting of date of start in case of delay in handing over of site. | **Superintending Engineer, DC-1, CPWD, New Delhi** |

**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 is to be made available in phased manner as per approved programme chart by the Engineer-in-charge | |
| Part B | Portions with encumbrances | | |
| Part C | Portion dependent on work of other agencies | | |

| | | |
|---|---|---|
| **Clause 6**<br>Electronic Measurement Book | : | Electronic Measurement Book (EMB) through CPWD ERP Portal |
| **Clause 7** | : | |
| Gross work to be done together with net payment/adjustment of advances for material collected, if any, since the last such payment for being eligible tointerim payment | : | Rs. **5.00** Lacs |
| **Clause 7A** | | |
| Whether Clause 7A shall be applicable | : | Yes |

| | | |
|---|---|---|
| **Clause 10A** | : | "List of testing equipment's to be provided by the contractor at site lab"<br>As Per the Annexure – B (on page 64)<br>and<br>As per the requirement of the item of work as per direction of the Engineer-in-charge. |
| **Clause 10B (i)** | | |
| Whether Clause 10 B (i) shall be applicable | : | No |

| | | |
|---|---|---|
| **Clause 10C** | | |
| Component of labour expressed as percent of value of work | : | 25% |

| | | | | |
|---|---|---|---|---|
| **Clause 10CA** | | : | Not applicable | |
| S. No. | Material coveredunder this clause | | Nearest Materials (other than cement, reinforcement bars and the structural steel) for which All India Wholesale Price Index to be followed | Base Price of all Materials covered under clause 10 CA* |
| **---------- NIL ----------** | | | | |
| * Base price and its corresponding period of all the materials covered under clause 10 CA is to be mentioned at thetime of approval of NIT. In case of recall of tenders, the base price may be modified by adopting latest base price and its corresponding period. | | | | |
| **Clause 10 CC**<br>Clause 10 CC to be applicable in contracts with stipulated period of completion exceeding the period shown in the next column.<br><br>Applicable/Not applicable | | : | Not Applicable | |
| Schedule of component of other Materials, Labour etc. for price escalation | | | | |
| Component of civil (except materials covered under **clause 10CA)** /Electrical construction Materials expressed as percentage of total value of work. | | **:** | Not Applicable | |
| **Component of Labour**<br>Expressed as percentage of total value of work. | | **:** | Not Applicable | |

| | | |
|---|---|---|
| **Clause 11** | | |
| **Specifications to be followed for execution of work** | : | CPWD Specification 2019, Volume - I & Volume-II with upto date correction slips and Manufacturer's Specifications. with correction slips issued up to last day of online receipt of bids |

| | | |
|---|---|---|
| **Clause 12**<br>**Type of Work** | : | Maintenance Work<br>**The completion cost of agreement should not exceed 1.50 times of Tendered amount.** |
| **Authority to decide Deviation:-** | | |
| (i) Upto 1.25 times of Contract Amount (with recorded reasons)<br>(ii) Beyond 1.25 times upto 1.50 times of Contract amount (with recorded reasons) | | Engineer-in-charge<br><br>SE, DC-1 |
| 12.3<br><br>Deviation, Deviated Quantities, Pricing | : | All deviated quantities shall be paid at agreement rate. |
| Deviation beyond quantity taken in schedule of quantity | | All deviated quantities shall be paid at agreement rate. |
| **Clause 16** | | |
| Competent Authority for deciding reduced rates | : | Superintending Engineer, DC-1, CPWD, I.P. Bhawan, New Delhi.Upto 5% value of agreement quantity beyond that with the approval of ADG (Delhi) |
| **Clause 18** | | |
| List of mandatory machinery, tools & plants to be deployed by the contractor at site. | : | As per actually required at site and shall be arranged by the contractor as per direction of Engineer-in-charge. |

## Clause 19

| | | |
|---|---|---|
| Clause 19 C | Authority to decide penalty for each default | Engineer – in – charge |
| Clause 19 D | Authority to decide penalty for each default | Engineer – in – charge |
| Clause 19 G | Authority to decide penalty for each default | Engineer – in – charge |
| Clause 19 K | Authority to decide penalty for each default | Engineer – in – charge |

## Clause 25: -

| | |
|---|---|
| Conciliator | ADG (Delhi), CPWD |
| Arbitrator appointing authority | Superintending Engineer, DC-1, CPWD |
| Place of arbitration | New Delhi |

## *Clause 32*

**Requirement of Technical Representative(s) and recovery Rate: -**

| S.No | Minimum Qualification of Technical Representative | Discipline | Designation (Principal Technical/ Technical representative) | Minimum experience | Number | Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 32<br>Figures Words. |
|---|---|---|---|---|---|---|
| 1. | Graduate Engineer<br>or<br>Diploma Engineer | Civil | Project Manager Cum Planning/quality/ Site billing Engineer | 2<br>Or<br>5<br>Respectively | 1 | Rs. 15,000/- per month per person |

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

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

| **Clause 38** | | | |
|---|---|---|---|
| (i) | (a) Schedule/statement for determining theoreticalquantity of cement & bitumen on the basis of Delhi Schedule of Rates 2021 printed by C.P.W.D. | : | |
| (ii) | Variations permissible on theoretical quantities: | : | |
| | Cement For works with estimated cost put to bid notmore than Rs. 25 lakh.<br>For works with estimated cost put to bid more thanRs.25 lakh | : | 3% plus/minus<br>2% plus/minus |
| b) | Bitumen for all works. | : | 2.5% plus only & nil on minus side |
| c) | Steel Reinforcement and structural steel sections foreach diameter, section and category. | : | 2% plus/minus |
| d) | All other materials. | : | Nil |

**Integrity Pact**

| S. No. | Integrity Pact | | Remarks |
|---|---|---|---|
| 1 | Integrity Pact is to be made part of NIT/Agreement only for works with estimated cost put to tender of Rs. 300 crores and above. | : | Circular on DG/CON/Misc./24 dated 05.09.2022 |

# GENERAL CONDITIONS AND SALIENT POINTS

1. The contractor shall make his own arrangements for electricity required for the execution of the work and nothing extra shall be paid for the same. However, for electrical connection, Engineer- In-Charge shall recommend the application to concerned local authorities. He shall also make his own arrangement for obtaining telephone connections for his own use. Necessary fees and i/c consumption charges shall be paid by the contractor directly to the department concerned. In case the authorities fail to sanction the electric connection or delay the sanction of electric connection, the contractor shall make his own arrangements by providing diesel generators of adequate capacity at his own cost.

2. In general water shall be provided by the department. However, if the water could not be supplied by the department, the agency has to arrange the water at his own cost and nothing extra shall be paid by the Department for arrangement of water or on its treatment to meet the requirements.

3. All the materials will be arranged by the contractor himself. If any material is issued by the department the contractor shall bear all incidental charges for cartage, storage and safe custody of such material.

4. All material shall only be brought at site as per programme finalized with the Engineer-in-Charge. Any pre-delivery of the material, not required for immediate consumption shall not be accepted and thus not paid for.

5. Except for the items, for which particular specifications are given or where it is specifically mentioned otherwise in the description of the items in the schedule of quantities, the work shall generally be carried out in accordance with the "CPWD Specifications 2019 Vol. I & II with up to date correction slips (up to date of receipt of tender) and instructions of Engineer-In-Charge. Wherever CPWD Specifications are silent, the latest IS Codes / Specifications shall be followed.

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

7. The rates for all items of work shall, unless clearly specified otherwise, include cost of all labour, material, tools and plants and other inputs involved in the execution of the item.

8. The contractor(s) shall quote all-inclusive rates against the items in the schedule of quantities and nothing extra shall be payable for any of the conditions and specifications mentioned in the tender documents unless specifically specified otherwise.

9. Unless otherwise specified in the schedule of quantities the rates for all items shall be considered as inclusive of pumping / bailing out water, if necessary for which no extra payment shall be made.

10. The rate for all items, in which the use of cement is involved is inclusive of charges for curing.

11. The work shall be executed and measured as per metric dimensions given in the schedule of quantities, drawings etc. (FPS units wherever indicated are for guidelines only).

12. Any legal or financial implications resulting out of disposal of earth shall be the sole responsibility of the contractor. Nothing extra shall be paid on this account.

13. All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested as per the design conditions before covering.

14. The contractor shall indemnify the Govt. against any claims or obligations arising out of any damage to adjacent property, structure or to building work done by him.

15. **Licenses**:-

(i) The contractor shall pay to the municipal, police or other authorities all the fees etc. that may be required by law, obtain requisite licenses for temporary constructions, enclosures and pay all fees taxes and charges which shall be leviable on account of his obligations in executions of the contract. No extra claim will be entertained on this account.

(ii) All licensing fees, royalty charges for property rights etc. shall be paid by the contractor direct to the authorities concerned. No extra claim will be entertained on this account.

16. In case services are encountered during excavation / earthwork, and such services are required to be shifted, the contractor is bound to carry out the shifting operation as per guidance / instructions and with the approval of the Engineer-In-Charge. However, necessary payments shall be made in this regard as per provision of the agreement.

17. The building, water supply, internal sanitary installations and drainage work etc. shall be carried out in the manner complying in all respects with the requirements of relevant byelaws of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer in charge and nothing extra shall be paid on this account.

18. Existing drains, cables, pipes, overhead wires, sewer lines, water lines and similar services encountered in the course of execution of work shall be protected against the damages by the contractor at his own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.

19. Contractor shall take all precautionary measures to avoid any damage to adjoining property/ building. All necessary arrangements shall be make in his own cost by the Contractor.

20. The contractor shall be responsible for the watch and ward / guard of the buildings, safety of all fittings and fixtures including sanitary and water supply fittings and fixtures provided by him against pilferage and breakage during the period of installations and thereafter till the building is physically handed over to the department. No extra payment shall be made on this account.

21. The order of preference in case of any discrepancy as indicated under "Conditions of Contract" given in the General Conditions of contract for Central P.W.D. works 2023 (Maintenance Works) Form may be read as the following:

    (i) Description of schedule of quantities.
    (ii) Additional Specification and special condition, if any.
    (iii) Contract clauses of General conditions of contract for Central P.W.D. works maintenance 2023 Form.
    (iv) CPWD Specifications
    (v) Manufacturers Specifications
    (vi) Indian Standard Specifications/BIS.
    (vii) Architectural drawings.
    (viii) Sound engineering practice.

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

22. The contractor shall take all precautions to avoid accidents by exhibiting caution boards day and night. The contractor shall be responsible for all damages and accident due to negligence on his part.

23. No foreign exchange shall be made available by the department for the purchase of equipments, plants, machinery, material of any kind or other items required to be carried out in execution of work.

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

25. The contractor shall be bound to follow the instruction and restrictions imposed by the Administration/Police authorities on the working and/or movement of labour, materials etc. and nothing extra shall be payable on this account or due to less/restricted working hours or suspension of work or any detours in movement of vehicles due to stated instructions and restrictions.

26. The contractor shall also be required to follow the rules & restrictions imposed on working /movement/stacking of materials by the local competent authority at all times. Nothing extra shall be payable on this account.

27. Any damage caused by the contractor to the existing building/installations/roads/boundary walls shall be made good by him (the contractor) at his own cost.

29. Site is located in sensitive and high security & VVIP area, where movement and routes are restricted. The contractor shall have to apply for passes well in advance for carrying out the work. No claim whatsoever shall be entertained for any loss on this account. Some restrictions may be imposed by the security staff/ Delhi police on the working and for movement of labour, materials etc.
    (i) The movement of trucks and vehicles shall be regulated in accordance with rules and regulations as approved by competent authority.

    (ii) The contractor shall be bound to follow all such restrictions / instructions and nothing extra shall be payable on this account.

    (iii) No claim whatsoever will be entertained by the department on account of any, restrictions (including temporary suspension of work) imposed by the security agencies in execution of work.
    (iv) In respect of maintenance/repair or renovation works etc. where the labour have an easy access to the individual houses, the contractor shall issue identity cards to the labourers, whether temporary or permanent and he shall be responsible for any untoward action on the part of such labour. AE/JE will display a list of contractors working in the colony/Blocks on the notice board in the colony and also at the service centre, to apprise the residents about the same.
30. Before start of work, the contractor keeping in view the space available is limited, shall furnish a construction yard layout, specifying area for construction, positioning of machinery, material yard, cement and other storage, steel fabrication yard, site laboratory, water tank, conveyers belt, etc. and seek formal approval of the Engineer-in-charge. No space will be available at site of work for the fabrication of steel / aluminium work grating, railing, etc. The contractor should make his own arrangement for the same in his workshop. Nothing shall be paid for the carriage of such manufactured items from workshop to site of work. The contractor shall not stack building material / malba on NDMC land or road or on the land owned by any other authority and he shall face penal action as per the rules, regulation and bye-laws of the said body or authority. The Engineer-in-charge shall be at liberty to recover the amount due but not paid to the concerned authorities on account of the above from any amount due to the contractor including amount of the security deposit or retention money in respect of this contractor or any other contract.

31. No labour huts shall be kept at the site of work. Tenderers shall quote their rates accordingly nothing extra shall be paid on this account:-

    (a) The contractor shall provide CGI sheet barricading as required according to the rules of NDMC or any other relevant authority for the work. The same shall be maintained by the contractor till the work is completed. After completion of work, the same shall be removed and deposited with the department as per the direction of Engineer-in-charge.

    (b) The contractor shall take all necessary measures for the safety of traffic during construction and provide, erect and maintain such barricades, including signs, marking, flags lights and flagman as necessary, at either end of the excavation / embankment and at such intermediate points, as directed by the Engineer-in-charge for the proper identification of construction area. He shall be responsible for all damages and accidents caused due to negligence on his part. Nothing extra shall be paid on this account.

**32. Integrated Programme chart:-**

32.1 The contractor shall prepare an integrated programme chart for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment and machinery required for the fulfillment of the programme within the stipulated period or earlier and submit the same for approval to the engineer in charge within two weeks of the awards of the contract.

The programme chart should include the following:

a) Descriptive note explaining sequence of various activities.

b) Network (PERT/CPM/Bar Chart)

c) Programme of procurement of materials by the contractor.

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

e) Time schedule of the requirement of materials to be supplied by the department.

32.2 If at any time it appears to the Engineer in Charge that the actual progress of the work does not conform to the approved programme referred above, the contractor shall produce a revised programme showing the modifications to the approved programme to ensure completion of the work within the stipulated time for completion.

32.3 The submission for approval by the engineer in Charge of such programmes or the furnishing of such particulars shall not relieve the contractor of any or his duties or responsibilities under the contract. This is without prejudice to the right of the Engineer in Charge to take action against the contractor as per terms and conditions of the agreement.

32.4 In order to adhere to the program, the work shall be carried out in more than one shift and no claim on this account shall be entertained. Contractor should give advance notice in writing to Engineer-in-charge for doing any work in odd hour. Contractor shall arrange suitable to and for transportation of CPWD site staff to their residences, incase the site staff is required to stay beyond office hours.

32.5 The agency shall comply the order and guidelines of NGT & MoEF.

**33. PERFORMANCE GUARANTEE:**

i) The contractor shall submit an irrevocable Performance guarantee of **5% (Five percent of the tendered amount)** in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (notwithstanding and/ or without prejudice to any other provisions in the contract) within period specified in schedule `F' from the date of issue of letter of acceptance. This period can be further extended by the Engineer-in-Charge upto a maximum period of as specified in schedule `F' on written request of the contractor stating the reason for delays in procuring the Bank Guarantee to the satisfaction of the Engineer-in-Charge.

This guarantee shall be in the form cash (in case guarantee amount is less than **Rs. 10,000/-)** or in the form of deposit at call receipt of any scheduled bank / banker's cheque of any scheduled bank / demand draft of any scheduled bank/pay order of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or in the form of Government securities or fixed deposit receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the form annexed hereto. In case a fixed deposit receipt of any Bank is furnished by the contractor to the Government as part of the performance guarantee and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Government to make good the deficit.

ii) The Performance Guarantee shall be initially valid upto the stipulated date of completion plus 60 days beyond that. In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the contractor, without any interest.

iii) The Engineer-in-Charge shall not make a claim under the performance guarantee except for amounts to which the President of India is entitled under the contract (not withstanding and/ or without prejudice to any other provisions in the contract agreement) in the event of :-

- Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance Guarantee.

- Failure by the contractor to pay President of India any amount due, either as agreed by the contractor or determined under any of the clauses/ conditions of the agreement, within **02 Months** of the service of notice to this effect by Engineer-in-Charge.

iv) In the event of the contract being determined or rescinded under provision of any of the clause/ condition of the agreement, the performance guarantee shall stand forfeited in full and shall be absolutely at the disposal of the President of India.

34. **Minimum Quality Assurance Plan**

34.1 Maintenance of Register of Tests.

(i) All the registers of tests carried out at Construction Site or in outside laboratories shall be maintained by the contractor which shall be issued to the contractor by Engineer-in-charge in the same manner as being issued to CPWD field staff.

(ii) All Samples of materials including Cement Concrete Cubes shall be taken jointly with contractor by JE and out of this at least 50% samples shall be taken in presence of AE in charge. If there is no JE, all Samples of materials including Cement Concrete Cubes shall be taken by AE jointly with Contractor. All the necessary assistance shall be provided by the contractor. Cost of sample materials is to be borne by the contractor and he shall be responsible for safe custody of samples to be tested at site.

(iii) All the test in field lab setup at Construction Site shall be carried out by the Engineering Staff deployed by the contractor which shall be 100% witnessed by JE and 50% of tests shall be witnessed by AE-in-change. At least 10% of the tests are to be witnessed by the Assistant Engineer.

(iv) All the entries in the registers will be made by the designated Engineer Staff of the contractor and same should be regularly reviewed by JE/AE/EE. The registers shall be produced before senior officers inspecting the work.

(v) Contractor shall be responsible for safe custody of all the test registers.

34.2 Submission of copy of all test registers, Material at site Register and hindrance register along with each alternate Running Account Bill and Final Bill shall be mandatory. These registers should be duly checked by Drawing Branch in Division Office and receipts of registers should also be acknowledged by Accounts Officer by signing the copies and register to confirm receipt in Division office.

Maintenance of Material at Site (MAS) Register-

(i) All the MAS Registers including Cement and Steel Registers shall be maintained by Contractor which shall be issued to the contractor by Engineer-in-charge.

(ii) Each of the entry of receipt of material at site shall be 100% test checked by JE or by AE.

35 Each of the entry shall be checked by JE at least twice a week and at least once a week by AE. If there is no JE then MAS registers will be checked by AE at least twice a week.

36 Cement Register shall be reviewed by AE at least once in a month.

## SPECIAL CONDITIONS FOR REPAIR AND MAINTENANCE WORK

1. All malba / rubbish /silt / waste / garbage / etc. generated due to any operation from houses and other open spaces whatsoever shall be collected on daily basis by the Contractor / Agency to the specified common disposal point and nothing extra shall be paid on this account. After the accumulation of full truck load of the said malba (approximate 4.5 cubic metre), the same shall be disposed of by the Contractor / Agency to the authorized municipal dhalao / dumping ground and contractor will submit the slip of dumping ground. In case of non-removal / disposal in the specified period, a sum of Rs. 2000/- (Two Thousand) per day shall be recovered from the Contractor / Agency.

2. The Engineer(s) who are employed by the contractor under clause-32 (ii) of the agreement shall be present at the site from 9:00 AM to **05:00** PM on all working days. Engineer(s) shall visit the Enquiry Office daily in the morning and directed to take the instructions for attending the complaints / work from the JE / AE, a register will be maintained at the Enquiry Office for this purpose. Engineer(s) shall carry mobile telephone(s) with a facility of "email" and "WhatsApp" to enable the Engineer-in-Charge or his authorized representative to have easy and quick communication. Nothing extra shall be paid to the contractor on this account and his quoted rates for various items under this contract will be inclusive of this obligation. The contractor shall take immediate action to attend to any complaint assigned to him in following time frame;-

a) Any complaint assigned to the agency is to be attended within shortest reasonable time, which shall not be more than **48 Hours** in any case.

b) In case of failure to meet these deadlines a recovery of Rs. 900/- (Rs. Nine Hundred only) per complaint per day will be made from his bills/Security Deposit for each default to attend the complaints assigned to him. The decision of Engineer-in-Charge regarding correctness of complaint shall be final and binding.

c) The agency cannot ask for the availability of full site at a glance. It will be given to him in phased manner or as and when required at site. The site / complaints shall be given to the agency in writing or telephonically or verbally. Nothing extra shall be paid for idle sitting of workers (if any) due to non availability of complaints/ works.

3. All doors, windows, floors, furniture, Electrical and all other fitting shall be cleaned from all splashes (old or new), dust, dirt and mortars etc. The rate for the white washing/ colour washing/ distempering/ painting etc. include the cost of removal of splashes and paint marks. In the event of failure on the part of contractor to remove the splashes and the paint mark, recovery at the rate of Rs. 90/- each shall be made.

4. The agency is bound to execute the work anywhere within the jurisdiction of 2/N Sub-Division. Nothing extra shall be payable on this account.

5. For prompt monitoring, Agency should ensure that a mobile No. should be given to the deptt. So that all necessary instructions/directions can be given telephonically. The mobile should be on active mode for 24 hours. Nothing extra shall be payable on this account.

6. While carrying out repair work or any maintenance work in the office building/quarter where the existing tile/flooring required to be retained should be covered with tarpaulin/paper boards or other material so as to protect them, for which nothing extra shall be paid to the agency. Failure of which a recovery shall be made @ Rs. 50/- sqm from the agency.

7. Unless otherwise specified in the schedule of quantities, the rates tendered by the contractor shall be inclusive of scaffolding and shall apply to all lifts & all heights, floors including terrace, leads and depths and nothing extra shall be payable on this account.

8. 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.

9. 1% (One percent) water charges shall be recovered from the gross amount of the work done, if same is supplied by the department.

10. All materials obtained from Govt. stores or otherwise shall be got checked by the Engineer-in-charge or his authorized representative of the work on receipt of the same at site of work before use.

11. The Contractor has to make his own arrangement for all T & P like ladders, gohree, sutli, empty containers, brushes, and paper, kuchies etc. required for work and nothing extra shall be paid for the same.

12. The contractor shall have to get approved the brands/shades of Acrylic Distemper, Synthetic Enamel Paint, Plastic Emulsion Paint etc. from the Engineer-in-charge before execution of same.

13. Materials shall be brought to the site of work in original containers with the Manufacturers seal intact.

14. The materials required for day's work shall be issued to the contractor or his authorised representative daily by the Junior Engineer-in-charge of the work. Any balance of the material left at end of the days of work and the empty containers shall be returned to the Junior Engineer. The day to day issue account of the materials shall be maintained by the Junior Engineer-in-Charge and shall be signed daily by the contractor or his authorised agent in token of receipt of the materials failing which no payment of bill shall be made to the contractor. The empty containers shall not be removed from the site of work without written orders of the Engineer-in-charge.

15. Before the commencement of work, the contractor shall prepare one sample as instructed by the Engineer-in-charge for approval of the Engineer-in-charge. After the sample is approved by the Engineer-in-Charge, the contractor shall be allowed to commence the work and the quality of work shall confirm to the approved sample.
16. Before the commencement of work, the contractor shall draw up a programme in consultation with the Engineer-in-charge for the execution of work so as to inform the occupants of the office building/flat/quarter at least on week in advance regarding the execution of the work.

17. In case the office building/quarter/flats are not made available to the contractor according to the programme, the contractor shall not be entitled for any claim for idle labour or any other claim on any account what-so-ever.

18. Defective work/sub-standard work or work not done according to the specifications of the contract shall be liable for summary rejection & shall not be measured and paid for. This shall be without prejudice to taking any other action against the contractor in accordance with the terms & conditions of contract.

19. The contractor shall depute his representative daily to the site of work. The name and signature of his representative attested by the contractor shall be intimated to the Engineer-in-charge.

20. The entire work shall be carried out in close co-operation and Co-ordination with all other agencies working in the building. The Contractor (s) shall not be entitled to any compensation on account of temporary stoppage of work due to other construction.

21. No payment will be made to the contractor for damage caused by rains during the execution of the works and no claim on this account will be entertained.

22. It will be the responsibility of the contractor for damage caused by rains during the execution of the works and no claim on this account will be entertained.

23. Scrapping shall be shown to the Assistant Engineer and got approved and test checked by him prior to Painting or other finishing work.

24. Deviation in quantities shall be done only with prior written permission of the Engineer-in-charge. Deviation in quantities done on the order of other than the Engineer-in-charge shall not be measure and paid for.

25. The contractor should write their 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 by such letter sent through registered post shall be deemed to have been delivered to him.

26. Full quantity of material or quantity approved by Engineer-in- Charge. Such as paint plastic emulsion paint, Acrylic distemper etc. shall be deposited in sealed contained in advance and get it checked by Engineer-in-Charge before use.

27. The Contractor will be required to shift the existing furnitures such as Sofa, tables, chairs, Carpets, glasses and other items for execution of work, whenever required, as per direction of Engineer-in-Charge and make necessary arrangements to protect the furniture, carpets, floors etc. from any damage during the execution of work. Also the said shifted items will be required to be placed again by the Contractor as per direction of Engineer-in-Charge. Nothing extra will be paid in this regard. Any damage if done, shall be made good by the Contractor at his own cost and nothing shall be paid extra in this regard.

28. The site may be made available to the Contractor for execution of work in piece meal/ in parts, and the Contractor shall execute the work in the portion made available to him and the Contractor shall not claim anything extra over agreement rates, due to execution of works in piece meal manner.

29. No labour huts shall be allowed inside the campus of above said work. The Contractor shall arrange for the stay of labours outside the campus including transport and nothing extra shall be payable on this account.

30. Any damage to the building, furniture, fittings of any other articles etc. done by the contractor or his workmen during the execution of work, shall be made good by the contractor, failing which the same shall be made good by the Engineer-in-charge or his authorized representative at the risk and cost of the contractor.

31. All doors, windows, floors, furniture, electrical fittings and other articles shall be protected from dust, splashes & damaged sufficient covering for the day's work shall be shown to the representative of the Engineer-in-charge before the contractor is allowed to proceed with the work. Splashes & droppings from white washing, colour washing, distempering painting etc. on walls, floors, doors and window, down take pipes, furniture shall be removed by the contractor at his own cost and the surface cleaned simultaneously after the completion of the day's work is done, without waiting for the actual completion of the other items of work of the contract. In case the contractor fails to comply with this requirement, the Engineer-in-charge or his authorized representative shall be the right to get this work done at the risk and cost of the contractor either departmentally or through another agency without issue of any notice to the contractor, on his account. The representative of the Engineer-in-charge will however, mention about it in the site order Book before employing the labour on the job at the contractor's cost.

# PARTICULAR SPECIFICATIONS & CONDITIONS FOR CIVIL WORKS

**1. General.**

1.1 Unless otherwise e specified in the schedule of quantities, the rates tendered by the contractor shall be all inclusive and shall apply to all lifts & all heights, floors including terrace, leads and depths and nothing extra shall be payable on this account. **Centering, shuttering, however if required to be done for RCC beams, RCC floor slabs and landings only for centering heights greater than 3.5m, shall be measured and paid for separately**.

1.2 Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should conform to bylaws and municipal body / corporation where CPWD Specifications are not available. The contractor should engage licensed plumbers for the work and get the materials (fixtures/fittings) tested by the Municipal Body / Corporation authorities wherever required at his own cost.

1.3 The contractor shall give performance test of the entire installation(s) as per the standing specifications before the work is finally accepted and nothing extra whatsoever shall be payable to the contractor for the test,

1.4 Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been included in the items and nothing extra shall be payable (or) extra cement considered in consumption on this account. For RCC work, only factory made round type cover block shall be used. For Brickwork unless otherwise specified FPS bricks shall be used in all items of work. The classification of bricks brought by the contractor shall conform to the CPWD Specifications.

1.5 The work shall be carried out in accordance with the Architectural drawings and structural drawings, to be issued from time to time, by the Engineer-in-Charge. Before commencement of any item of work, the contractor shall correlate all the relevant architectural and structural drawings issued for the work and satisfy himself that the information available there from is complete and unambiguous. The discrepancy, if any, shall be brought to the notice of the Engineer-In-Charge before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and or incomplete information.

1.6 Other agencies will also simultaneously execute and install the works of internal electrical installations, sub-station / generating sets, air-conditioning, lifts, etc. for the work and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings trenches etc. as may be required for such related works (for which inserts, sleeves, brackets, conduits, base plates, clamps etc. shall be supplied free of cost by the department unless otherwise specifically mentioned) and the contractor shall fix the same at the time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account.

1.7 Sampling and testing

1.7.1 All materials and fittings brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-charge, which shall be preserved till the completion of the work. If a particular brand of material is specified in the item of work in Schedule of Quantity, the same shall be used after getting the same approved from Engineer-In-Charge. Wherever brand / quality of material is not specified in the item of work, the contractor shall submit the samples as per suggestive list of brand names given in the tender document / particular specifications for approval of Engineer-In- Charge. For all other items, materials and fittings carrying ISI Mark shall be used with the approval of Engineer-In-Charge. Wherever ISI Marked material / fittings are not available, the contractor shall

submit samples of materials / fittings manufactured by firms of repute conforming to relevant specifications or IS codes and use the same only after getting the approval of Engineer-In-Charge. To avoid delay, contractor should submit samples as stated above, well in advance so as to give timely orders for procurement. If any material, even though approved by Engineer-In-Charge is found defective or not conforming to specifications shall be replaced / removed by the contractor at his own risk & cost.

1.7.2 The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material / work beyond set-out tolerance limit shall be summarily rejected by the Engineer-in-charge & contractor shall be bound to replace / remove such sub-standard / defective work immediately.

1.7.3 BIS marked materials except otherwise specified shall be subjected to quality test besides testing of other materials as per the specifications described for the item/material. Wherever BIS marked materials are brought to the site of work, the contractor shall furnish manufacturer's test certificate or test certificate from approved testing laboratory to establish that the material produced by the contractor for incorporation in the work satisfies the provisions of BIS codes relevant to the material and / or the work done.

1.7.4 BIS marked items (except cement & steel) required on the work shall be got tested. Only important tests, which govern the quality of the product, shall be carried out. The frequency of such tests shall be 25% of the frequency specified in the CPWD Specifications 2019 vol I & II with upto date correction slips.

For certain items, if frequency of tests is not mentioned in the CPWD Specifications then relevant IS code shall be followed and tests shall be carried out @ 25% of the frequency specified therein. Wherever NIT/CPWD specifications/relevant BIS codes do not specify the frequency of tests, the same shall be carried out as per direction of the Engineer in charge.

1.7.5 All the materials obtained from Govt. Store or otherwise shall be got checked by the Engineer in charge or his authorized supervisory staff, on receipt of the same at site before use.

1.7.6 All materials which are specified to be tested by the manufacturer's work shall satisfactorily pass the tests in presence of the authorized representative of Engineer in charge before being used in this work. In case all requisite testing facilities are not available at the manufacturer's premises, such testing shall be conducted at laboratory approved by the Engineer in charge. The charges for such testing shall be borne by the contractor.

1.7.7 The Engineer-in-Charge will be at liberty to take respective sample(s) of each item of Schedule of Quantity in any approved laboratory as decided by him. The sample for testing will be provided by the contractor. All expenditure required to be incurred for taking sample, conveyance, packing and testing charges etc. will be borne by the contractor himself. In case any sample particular lot fails in testing, the contractor will be bound to replace the entire lot with fresh material of prescribed specification and the rejected lot will be returned to the contractor only after fresh lot is supplied.

(i) Rejected materials will have to be removed by the contractor at his own cost immediately of the instructions of doing so.

(ii) In case of any dispute regarding rejection of quality of materials, the decision of the Engineer-in-Charge will be final and binding upon the contractor.

1.7.8. The contractor has to establish field laboratory and skilled manpower for the following tests at his own cost.

- Particle size and shape.
- Ten percent fine value
- Aggregate impact test
- Surface moisture test
- Slump test
- Flakiness and elongation index tests.
- Compressive strength (concrete or bricks) test
- Rebound hammer test
- Bulking of sand
- Silt content of sand
- Thermometer with brass protected end (0-1000 C)

1.8 The contractor should remove from site, the net surplus earth only. If he disposes earth more than the surplus quantity and earth is required later to be brought from outside, the contractor shall be liable to supply at site the such required quantity of earth of required quality at his own cost and nothing shall be paid on the account. The quantity of the surplus earth to be disposed off from the site shall be worked out on the basis of levels to be taken before and after the excavation. The decision of the Engineer-in-Charge regarding the quantity of net surplus earth shall be final & binding. Nothing extra shall be payable to the contractor for stacking the excavated earth.

1.9 Equipment like excavators/Transit mixer etc. shall be allowed to be moved away from the site when, in written opinion of Engineer-in-Charge, the same are no longer required at site of work.

1.10 All the equipment shall be brought, installed and commissioned at site of work at least one week before their actual planned use at site.

1.11 All the item of works related to foundation and plinth includes the work of basements also.

1.12 Deviation in quantities shall be done only with prior written permission of the Engineer in charge. Deviation in quantities done on the order of other than the Engineer in charge shall not be measured and paid for.

1.13 To avoid disputes later on, contractor is advised to get the measurement recorded within a week's time and shall submit his bills as per relevant clause (7) of the contract. Any dispute regarding measurement including work done shall be judged within a week's time failing which measurement, certified and recorded shall be entertained.

1.14 The work of addition and alterations covered under this contract shall be carried out in piece meal/in parts, and the contractor shall execute the work in the area made available to him and the contractor shall not claim anything extra over agreement rates, due to execution of works in piece meal manner.

2. CONDITIONS FOR CEMENT:

2.1 The contractor shall procure 43 grade (conforming to IS 8112) Ordinary Portland cement/PPC as required in the work, from reputed manufacturers of cement, having a production capacity of one million tons per annum or more, such as ACC, JK Cement, Ultratech, Shree Cement, etc., i.e. agencies approved by Ministry of Industry, Govt. of India, and holding license to use ISI certification mark for their product. The tenderers 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 tenderer 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 tenderer, 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.

2.2 The quantity of cement shall be brought at site as decided by the Engineer in Charge.

2.3 Double lock provision shall be made to the door of the cement store. The key of one lock shall remain with the Engineer in Charge or his authorized representative and the key of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement godown.

2.4 The contractor shall supply free of charge the cement required for testing and shall also bear the packing, sealing, transportation & other incidental charges. The testing charges of approved laboratory shall be borne by the contractor.

2.5 The day to day actual issue/receipt and consumption of cement on work shall be regulated and proper accounts maintained in cement register which shall be issued by Engineer-in- charge.

2.6 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

2.7 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. 5500/- (Rupees Five thousand Five hundred only) per metric tone. This recovery will be in addition to any other recovery otherwise required to be done by the Engineer-in-Charge

3. STEEL REINFORCEMENT BARS:

3.1 The contractor shall procure steel reinforcement TMT bars of grade Fe-500-D confirming to IS code (latest edition) from main producers as approved by the Ministry of Steel and secondary producers of re-rollers having valid BIS licence for TMT bars conforming to relevant BIS code, procurement shall be made from main producers and secondary producers having valid BIS licence. The name of secondary producer however will have to be got approved by engineer-in-charge before procurement. The contractor shall have to obtain and furnish test certificates to the Engineer in Charge in respect of all supplies of steel brought by him to the site of work. 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 BIS Codes, the same shall stand rejected and shall be removed from the site of work by the contractor at his cost within a week's time from written orders from the Engineer in Charge to do so

3.3 The quantity of steel shall be brought at site as decided by the Engineer in Charge.

3.3 The steel reinforcement shall be stored by the contractor at site of work in such a way as to prevent distortion and corrosion and nothing extra shall be paid on this account. Bars of different sizes and

lengths shall be stored separately to facilitate easy counting and checking. The cement slurry to be applied to prevent corrosion. The nothing extra shall payable on this account.

3.4 For checking nominal mass, tensile strength, bend test, re-bend test etc. specimen of sufficient length shall be cut from each size of the bar section at random at frequency not less than that specified below :-

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

3.5 The contractor shall supply free of charge the steel reinforcing bars required for testing and shall also bear the packing, sealing, transportation & other incidental charges. The testing charges of approved laboratory shall be borne by the contractor.

3.5 The actual issue and consumption of steel on work shall be regulated and proper accounts maintained. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 38 of the contract and shall be governed by conditions laid therein.

3.6 Steel brought to site and steel remaining unused shall not be removed from site without the written permission of the Engineer in Charge.

3.7 The contractor shall take all precautions to avoid accidents by exhibiting caution boards day and night. The contractor shall be responsible for all damages and accident due to negligence on his part.

3.8 The contractor shall arrange steel reinforcement bars as cut and bend bars from approved workshop/suppliers. In case of non availability of the same on justified reasons, the same can be manufactured at site, however no extra payment whatsoever shall be made for same.

## Special Condition for Steel
## (Reference para 27.2)

| Sl. No. | Item | Checkpoint | Remarks |
|---|---|---|---|
| 1 | Steel Producer having manufacturing facilities at Plant | Factory address and Registration no. | |
| | | Certificate of manufacturing process | |
| | | Refining process of steel producer | |
| | | C-1 BF-BOF Route | |
| | | C-2 Corex – BOF route | |
| | | C-3 DRI – EAF route | |
| | | With documentary evidence a either for BOF or EAF | |
| | | Steel plant having infrastructure for producing sponge iron, billete and TMT Rebars | |
| | | Production and Quality Flow Chart | |
| | | Plant evaluation an process verification | |
| | | List of Plant & Machinery | |
| 2 | Established | Document Verification for: | |
| | | Govt./PSE Approvals | |
| | | Supply orders of TMT Re-bars in Govt. Projects (Minimum 5 years) | |
| | | Verification of direct supply orders to any State/Central Govt. Department | |
| | | User Certificate issued by any Govt. Department directly | |
| 3 | Indigenous | Documentary evidence like; | |
| | | Certificate of incorporation | |
| | | Memorandum of Articles of Association | |
| | | Credit rating of the company from CARE/CRISIL/ICRA should not be C/D grade (minimum last 3 years) | |
| 4 | Reliable | Test results from Govt/NABL accrediated laboratories | |
| | | In-house testing facility for physical/chemical tests (NABL accrediated) | |
| | | Calibration certificates | |
| | | List of Lab Equipments | |
| | | Spectrometer | |
| | | Computerized UTM | |
| 5 | Use of iron-Ore/Processes iron are as basic raw materials | Verification of iron-Ore/Process iron ore invoices | |
| 6 | In-house rolling facility | Plant verification of identity in-house rolling facilities production of liquid steel & crude steel | |
| 7 | Licenses & Certificates | ISO 9001: 2008 Certification | |
| | | ISO 14001:2004 Certification | |
| | | OHSAS 18001:2007 Certification | |
| | | IS 1786:2008 (TMT Re-bars) | |
| | | IS 2830:1992 (Billets) | |
| 8 | Product Range | TMT Re-bars FE 415/415D/500/500D/500/550D | |
| | | CRS (Corrosion Resistant) & EQR (Earthquake Resistant) TMT Re-bars<br>Size 8 to 36mm dia | |

## SPECIAL CONDITIONS FOR FLY ASH CONCRETE IN PAVEMENT CONSTRUCTION

1. The CPWD specification 2019 Vol. I & II upto date correction slips shall be followed for preparation, mixing, transportation, placing of concrete, except mix of the concrete which shall be as specified under the relevant item.

2. Ready mix fly ash concrete from RMC producer only shall be procured. Firm of RMC producer shall be got approved from Engineer-in-charge before taking mass supply. The RMC producer should have experience of handling fly ash Concrete.

3. Fly ash for use in OPC shall conform to IS 3812: 2003 -Pulverized Fuel Ash Specifications. Fly ash shall be Pulverized ash extracted from flue gases by any suitable process such as by cyclone separator or electrostatic precipitator. The concrete supplier shall furnish a notarized certificate from the fly ash marketer at the time of submittal of concrete mix design for approval indicating conformance with these requirements. Also a copy of most recent chemical analysis shall be provided.

4. At no time during the course of project will a change of fly ash source (plant) be permitted without the prior written approval of the Engineer in charge.

5. The fly ash concrete pavement (after initial setting) shall be flooded for 14 days for curing.

6. Alternate panels of 3X3 Metre size shall be cast as per the CPWD specifications. The Joints shall be machine cut as per the nomenclature of the item in the panel sizes 3X3 Metres after it has set.

7. The contractor shall arrange for the full length side shuttering and no joints shall be permitted in the shuttering between the panels.

8. Details for broom finish shall be as per the drawing and details or as directed by the Engineer-in- charge.

**RCC WORK :**

1. The cover blocks, wherever used, for proper cover & to avoid displacement of reinforcement bars shall be manufactured in factory nothing extra shall be paid for providing such cover blocks in the work.

2. Nothing extra shall be paid for the centering & shuttering circular in shape wherever the form work is having a mean radius exceeding 6m in plan.

**STEEL WORK :**

1. The standard sectional weights referred in CPWD Specifications 2019 Vol. I & II (with upto date correction slips) shall be considered for conversion of length of various sizes of Mild Steel/CTD/TMT bars into weight.

However, the average sectional weight of each diameter shall be arrived on the basis of samples of each lot from steel received at site. In case the actual weight of steel is less than the standard co efficient given in CPWD Specification but is within the tolerance limit of acceptance, the same (actual weight) shall be taken into account for working out the variations between the actual and standard co efficient & contractor shall be paid for the actual weight of steel in this case.

However, nothing extra shall be payable in case the actual weight of steel is more than the standard coefficient mentioned above in para 22(i).

**The rate of Tee/Angle iron frame shall include the cost of materials & labour of the following:-**

a) M.S. tie of 10 mm dia. bar shall be welded to M.S. frames at the bottom to keep the frames in correct position. The tie shall be embedded in floor concrete. No tie shall be necessary for window frames.

b) M.S. frame for doors shall have 4 Nos. M.S. lugs 15 x 3 mm., 10 cm long, welded to each vertical member of the frame.
c) The M.S. plate cramps 15 x 6 mm thick for holding arrangements shall be provided and welded as per site conditions.
d) All welded steel work shall be tested for quality of weld as laid down in IS 822 before actual erection.
e) Steel windows/ventilators to be provided in the work shall be from ISI approved manufacturers or from the firms approved by the Superintending Engineer, CPWD.

**FLOORING :**

The Granite marble, Kota, Chittor, Jaiselmer, white sand stone and black Cuddapah or any other stones mentioned in the tender document and as directed by Engineer in Charge shall be executed as per patterns and cuttings or patterns of various combinations of marbles/granite/stones shown in the architectural drawings and or as directed by Engineer in Charge. Nothing extra shall be payable on this account.

Samples of flooring marbles/stones/granites shall be deposited well in advance with the Engineer in Charge for approval. Approved samples should be kept at site with the Engineer in Charge and the same shall not be removed except with the written permission of Engineer in Charge. No payment whatsoever shall be made for these samples.

The granite/stone/marble mentioned herein shall conform to the requirements given in CPWD specifications 2019, Volume I & II. (with upto date correction slips)

**Marble / Granite flooring** :

These will be read in addition to the specifications of marble flooring given in CPWD specifications2019, Volume I & II. (with upto date correction slips)

a) The sample shall not be of size less than 600 mm x 600 mm or as decided by the Engineer-in-charge.

b) The samples shall be fully supported by the details of the quarry and location.

c) The contractor shall use necessary pigments to match the colour of the marble with pointing/jointing. The pigments shall be got approved, from the Engineer in Charge prior to commencement of flooring item.

d) Samples for sand blasted granite shall be produced separately. Sand blasting shall be carried out after the selection of the basic granite sample.

e) The rate of items of flooring is inclusive of providing sunken flooring in bathrooms, kitchen etc. and nothing extra on this account is admissible. The Granite/marble stone flooring in treads and risers of stair case is to be laid in single piece. Nothing extra shall be paid on these accounts.

f) The measurement shall be made for finished work of flooring.

g) Wooden laminated flooring :

h) Wooden flooring shall be premium AC-4 grade having multi layer composite high pressure laminated surface treated with aluminium oxide surface guard & high density fiber board of density minimum 910kg/cum and specially developed core planks which shall be approved by Engineer-In-Charge before using on work.

## WATER SUPPLY AND SANITARY INSTALLATIONS :

The contractor shall submit completion plans for water supply, internal sanitary installations and building drainage work on drawings prepared preferably through computers (1 original copy plus 3 Photostat) on suitable scales to show the general arrangement and desired details. In case the contractor fails to submit the completion plans as aforesaid, security deposit shall not be released.

8.1 **General requirements**

8.1.1 Sanitary fixtures shall be of the best quality and shall be of approved make and manufacture (wherever specified) as defined in the item of work or defined anywhere in this document otherwise shall be as mentioned in the CPWD specifications failing which the same shall be of ISI mark duly approved by the Engineer-in-Charge.

8.1.2 All fixtures and fittings shall be provided with all such accessories as are required to complete the item in working condition whether specifically mentioned or not in the Schedule of Quantities, specifications, elsewhere in this tender document & drawings. The quoted rates shall be deemed to be all inclusive for a complete item fit for use including all materials, labour, T&P, specials, equipments, testing & commissioning etc. Accessories shall include proper fixing arrangement, brackets, nuts, bolts, screws and required connection pieces. All the accessories shall be of the quality and make as per manufacturer's specifications except otherwise specified in specifications, schedule of quantities and elsewhere in this tender document. Nothing extra whatsoever shall be payable on aforesaid account.

8.1.3 Fixing screws shall be half round head chromium plated brass screws with C.P. washers where necessary or otherwise as provided in the item.

8.1.4 Porcelain sanitary ware shall be glazed vitreous china of first quality free from warps, cracks and glazing defects and shall conform to I.S. 2556-1967.

8.1.5 All fittings and fixtures shall be fixed in a neat workmanlike manner true to required level and heights and in accordance with the manufacturer's recommendations and directions of Engineer-in-charge. Care shall be taken to fix all inlet and outlet pipes at correct positions.

8.1.6 All holes or chases shall be properly made good by C.C 1:2:4 (in brick wall) or the concrete mix of RCC element as directed by the Engineer-in-Charge. Nothing extra shall be payable on this account.

8.1.7 Wherever M.S. clamps are required to be anchored directly to brick walls, concrete slabs, beams, walls or columns, nothing extra shall be payable for making good the same.

8.1.8 The soil waste and vent pipes & its related fitting shall conform to IS 3989-84 with latest amendments.

8.1.9 Nothing extra for providing and fixing CP Brass caps/extension pieces wherever required for CP Brass fittings shall be paid beyond the rates payable for corresponding CP Brass fittings.

8.2 **Urinals with infra-red No-touch flushing system**

8.2.1 Urinals shall be half stall white glazed vitreous china of size as specified in Schedule of Quantities.

8.2.2 Half stall urinals shall be provided with 15 mm dia C.P. spreader, 32 mm dia C.P. domestic waste and C.P. cast brass bottle trap with pipe and wall flange, and shall be fixed to wall by cutting necessary chases, fixing C.I. brackets and C.I. wall clips as recommended by manufacturer, and making good the surface as directed by Engineer-in Charge all complete.

8.2.3 Drain pipes shall be G.I. pipes concealed in wall chase but with chromium plated bends at inlet and outlet or as given in Schedule of Quantities. Cost of the G.I. drain pipes concealed in wall shall be paid for separately.

8.2.4 Urinals shall be flushed with No-touch electric operated automatic infra-red flushing system operated by a solenoid valve. The infra-red unit shall be vandal proof type with no exposed screw.

8.2.5 Urinals shall be measured by numbers.

8.2.6 Rate for providing and fixing of urinals shall include all items and operations stated in the respective specifications except G.I. drain pipes as mentioned above and Schedule of Quantities to provide a complete item fixed for use and nothing extra is payable. Quoted rates above shall be inclusive of cutting required holes and chases and making good the same, C.P.brass screws, nuts, bolts and any fixing arrangements required and recommended by manufacturer including testing and commissioning.

8.2.7 Urinal bowl: shall be of Hindustan model 60006 or equivalent. Urinal
No-touch flush valve shall be of Robo flush or Toshi or Utec.

8.3 **Pig Lead**

The pig lead to be used in jointing 150mm, 100 mm, 75 mm, 50 mm S&S centrifugally pipe joints shall not be less than 1.76 kg., 0.98 kg., 0.88 kg and 0.77 kgper joint respectively. However, in case of less use of pig lead by more than 5% the quantity of pig lead used less than the quantity specified above shall be recovered from the contractor at market rate to be determined by Engineer in Charge whose decision in the matter will be final.

## 9 ALUMINIUM DOORS, WINDOWS, VENTILATORS ETC. GLAZING SPECIFICATIONS:-

The work in general shall be executed as per the CPWD specifications supplemented by the following:-

The work shall be carried out through an approved firm, who shall furnish all materials, labour, accessories, equipment, tool and plant and incidentals required for providing and installing powder coated aluminium doors, windows, claddings, louvers and other items as per architectural drawings.

The agency shall be got approved from Engineer in Charge before execution. The Architectural drawings of the Deptt. and these specifications cover the major requirements and are for guidance only, required fastenings, accessories, features, and all other items which are not mentioned specifically therein, but are necessary to make a complete installation shall be provided by the Contractor at his cost.

### 9.1 General:-

Aluminium doors, windows etc. shall be of sizes, section as per details as shown in the drawings. The details shown on the drawings indicate generally the sizes of components parts and general standards. These may be varied slightly to suit the standard adopted by the manufacture. Before proceeding with manufacturing, the contractor shall prepare and submit complete manufacturing and installation drawings for approval of the Engineer-in-Charge and no work shall be performed until the approval of these drawings is obtained.

## 10. WATER PROOFING:

The work in general shall be executed as per CPWD specifications:-

10.1 The water proofing compound used in integral water proofing treatment shall satisfy all the requirements indicated in IS:2645 and shall be got tested before its use.

10.2 Total quantity of the water proofing compound required shall be arranged only after obtaining the prior approval of the Engineer in Charge in writing. Materials shall be kept under double lock and key and proper account of water proofing compound used in the work shall be maintained. It shall be ensured that the consumption of the compound is as per specified requirements.

10.3 The finished surface after water proofing treatment for floor in sunken portion shall have minimum slope of 1 in 48 unless otherwise decided by the Engineer in Charge.

10.4 Before commencement of treatment on floor surface, it shall be ensured that the outlet drain pipes/spouts have been fixed and the spout openings have been eased and rounded off properly for easy flow of water.

10.5 Contractor shall associate himself with anyone of the specialist firms mentioned in relevant para of specifications for the work relating to any kind of Water Proofing Treatment. In case the contractor intends to get the water proofing work executed from an agency other than as specified in relevant para of the specifications, he shall apply to the Engineer-in-Charge in writing along with the credentials and relevant details including name of owner/company, its location, capacity technical establishment, past experience etc. Engineer-in-Charge shall give approval in writing and the work shall not be started without said written approval of the Engineer-in-Charge. The entire responsibility for the quality of this treatment and its efficiency shall however, rest with the main contractor only.

10.6 The contractor shall ensure that the basement of the building shall be absolutely water tight and seepage/leak free. In case any seepage/leakage etc. is noticed the contractor shall make it water tight & seepage/leak proof at his own cost.

**10.7 Expansion Joints:**

PVC water stops shall conform to IS:12200 (Code of practice for provision of water stop at Transverse contraction joints in masonry and concrete dams).

**10.7.1 Construction Joints:**

The contractor shall give his proposal for location and treatment of construction joints. The construction joints shall be provided only at places and in the manner as approved by Engineer-in- Charge.

Except where shown otherwise on the drawing, reinforcement shall continue through construction joints.

The foreign matter and laitance shall be cleaned properly by compressed air before starting further work.

11.0 **Door shutters frames of M.S. tube.**

11.1 The M.S. Tube shall be hot fusion welded type of steel grade ST 32. The door shutter frames shall be factory manufactured as per drawings & specifications.

11.2 Vertical styles, to prail and bottom rail shall be of size 25 mm x 50mm of tube thickness 1.25mm.

11.3 Lock rail shall be of size 25 x 75mm of tube thickness 1.25mm.

11.4 The shutter frames shall be made of tubes which have been cut to length & mitered. The corners shall be welded to form a solid fused welded joint conforming the requirements of the CPWD Specifications 2019, Volume I & II. (with upto date correction slips). The process of welding shall be flash butt welding.

11.5 Actual size of shutter frame shall not vary by more than ± 2mm than those shown in drawings.

11.6 Necessary holes and slots for hinges & fittings shall be made.

11.7 Priming coat of red oxide zinc chrome primer conforming to I.S. 2074-1979 shall be given. Before priming coat the steel surface shall be thoroughly cleaned of rust, scale & dust.

11.8 The door shutter frame shall be measured in running metre, along the centre line of the frame correct to a 1 mm & weight calculated according to standard tables. No deduction or extra payment shall be made for making holes/slots and making arrangements for fixing fittings.

11.9 The rate includes cost of material and labour involved in all the operations described above.

**12.0 M.S. Sheet Door**

12.1 M.S. Sheet and the welding shall be as per CPWD Specifications 2019, Volume I & II. (with uptodate correction slips). The M.S. Sheet on each face shall be in each piece. No joints in M.S. Sheets shall be permitted. The doors shall be factory manufactured as per drawings & specifications.

12.2 The M.S. Sheet shall be cut to size and welded to the M.S. Tube door shutter frames at the junctions. Tack welds 1 cm long @ 30 cm c/c shall be provided to each junction of M.S. Sheet & M.S. Tube vertical styles & horizontal rails. Tack welds between lock rail of M.S. tube shutter frame & the outer M.S. Sheet shall be provided before welding the inner sheet to the door shutter frame.

Necessary slots for providing 1 cm long tack welds between lock rail of M.S. tube door shutter & inner M.S. Sheet shall be made in the M.S. Sheet and tack welds provided.

12.3 2 cm tack welds shall be provided at each corner in addition to the 1 cm tack welds specified. in 18.2.

12.4 Painting shall be as per CPWD Specifications 2019, Volume I & II. (with upto date correction slips).

12.5 Necessary holes/slots/arrangements for fittings shall be made.

12.6 Measurements shall be as per CPWD Specifications 2019, Volume I & II. (with upto date correction slips)

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

13. Powder coating on aluminium sections & fittings/fixtures

13.1 Wherever specified the aluminium sections and fittings/fixture shall be coated in approved colour and shade with pure polyester powder of Berger/Interpon/Hardcastle/Nerocoat or equivalent to a minimum thickness of 50 microns.

13.2. The pure polyester powder coating shall be got executed from specialized agency. The contractor shall submit names of at least three specialized agencies with details of their experience, capability etc. to the Engineer-in-Charge who after satisfying himself shall give the approval in writing. The work shall start only after approval of specialized agency.

13.2.1 The pure polyester powder shall have following properties:-

| | | | |
|---|---|---|---|
| 13.2.1.1 | Free Flow-ability | - | Satisfactory |
| 13.2.2 | Particle size | - | < 100 microns suitable for Electrostatic spray. |
| 13.2.3 | Specific gravity | - | 1.1 to 1.5 depending on the colour. |
| 13.2.4 | Shelf life | - | 6 months. |
| 13.2.5 | Stoving Schedule | : | $200^0$ C for 10 mins. (metal temp.) |

13.2.6 Test Certificates from approved laboratory for the representative samples shall be submitted by the Contractor.

13.3 The curing schedule shall be as specified by the manufacturer of pure polyester powder.

13.4 The properties of cured powder films shall be:-

| | | | |
|---|---|---|---|
| 13.4.1 | Scratch hardness | - | Equal to or more than 4 Kg. |
| 13.4.2 | Impact resistance | - | Min 150 Kg cm |
| 13.4.3 | Pencil hardness | - | 3H to 4H |
| 13.4.4 | Salt spray resistance | - | 500 Hrs. |
| 13.4.5 | Water soak at room | - | No change after 500 Hrs. temperature |
| 13.4.6 | Detergent resistance | - | No attack after 500 Hrs. |
| 13.4.7 | Cross Hatch adhesion | - | GT= O (ASTM D-3359) |
| 13.4.8 | Cured Film thickness | - | Min 75 microns. |

13.5 Tests for properties of cured film as given in 4 above shall be carried out at frequency specified in relevant BIS/BS/ASTM codes.

13.6 The surface of aluminium shall be prepared and pretreated as follows before powder coating:-

13.6.1 Removal of all foreign matter.

13.6.2 Chromatisation of aluminium surface as specified by the manufacturer of pure polyester powder by at least a five stage process consisting of alkali degrease, rinse and chromate conversion followed by two rinses. The chromate coating and alkali degrease shall be as per requirement of the pure polyester powder manufacturer.

13.6.3 Proper curing at required temperature shall be done for specified time period so as to achieve the desired properties.

13.7 The pure polyester coated surface shall be of uniform texture, colour and gloss and shall be free from cracks, warps and other imperfections.

**14.0 INTEGRAL WATER PROOFING TREATMENT**

14.1 Treatment for roof surface with integral cement based compound.

14.1.1 The execution of work shall have to under taken strictly as per relevant item of work.

14.1.2 **MEASUREMENTS:** The measurements shall be taken along the finished surface of treatment including the rounded and tapered portion at junction of parapet wall. Length and breadth shall be measured correct to one centimeter and area shall be worked out to nearest 0.01 sqm. No deduction

in measurements shall be made for either opening or recesses for chimneys, stacks, roof lights and the like of areas upto 0.10 sqm. Nor anything extra shall be paid for forming such openings. For similar areas exceeding 0.10 sqm. Deductions will be made in measurements for full openings and nothing extra shall be paid for making such opening.

14.1.3 **Rates:** The rate shall include the cost of all labour and materials involved in all the operation described above.

## 15.0 TECHNICAL SPECIFICATIONS FOR PRE-CAST CONCRETE PAVING BLOCKS

### 15.1 BASE

15.1.1 The finished surface of the concrete base shall match the design the profile of the concrete blocks with + or – 20 mm.

15.1.2 Compaction shall be done with vibrating roller.

### 15.2 BEDDING LAYER

15.2.1 The bedding shall be from either a single source or blended to achieve the following grading.

| Sieve Size | % Passing |
|---|---|
| 9.52 mm | 100 |
| 4.75 mm | 95-100 |
| 2.36 mm | 80-100 |
| 1.18 mm | 50-100 |
| 600 microns | 25-60 |
| 300 microns | 10-30 |
| 150 microns | 5-15 |
| 75 microns | 0-10 |

Single sized, gap-graded sands or those containing an excessive amount of fines will not be used. The sand particles should preferably be sharp not rounded.

The joint-filling sand should pass a 2.35 mm sieve and be well graded. The following grading has been shown to give good results.

| Sieve Size | % Passing |
|---|---|
| 2.36 mm | 100 |
| 1.18 mm | 90-100 |
| 600 microns | 60-90 |
| 300 microns | 30-60 |
| 150 microns | 15-30 |
| 75 microns | 0-10 |

The use of cement in the joint-filling sand is not recommended as a general practice as the cemented sand is likely to crack into segments which are easily dislodged.

15.2.2 Average thickness of this laying course shall be 50mm with minimum of 40mm and a maximum of 80 mm.

15.2.3 Humidity contents shall be atleast 4% by weight.

15.2.4 It should contain not more than 3% by weight of clay and silt and the materials shall be free from deleterious or contaminates.

15.2.5 The finished surface of the bedding layer shall match exactly the design profile as indicated on the drawings.

15.2.6 Before placing the bedding layers, clean the surface of concrete by sweeping.

15.2.7 During construction the draining of the bedding and / or concrete use assured by perforations in the gully chambers at a matching level.

15.2.8 Do not allow any walking or driving on the finished surface of the bedding layers.

**15.3 CONCRETE PAVING BLOCKS.**

15.3.1 Laying of the blocks shall be done, precisely at the indicated level and profile and in a way that good surface draining to the gully chambers is assured.

15.3.2 Around gully chambers inspection pits etc. the pavement shall have a level of 5mm higher than the above mentioned elements.

15.3.3 The blocks shall be laid in an elbow pattern. The blocks shall be laid as tight as possible to each other and also along connections. The maximum joint width is limited to 4mm.

15.3.4 Laying of broken blocks is not allowed except along connections. The maximum length of a purpose broken block is 100mm. Breaking of the blocks shall be done with a block "block splitter".

15.3.5 Fine angular sand as per specification shall be brushed into the joints, thereafter compaction shall be done with a vibrating plate compactor on clean surface. After compaction again fine angular sand shall be brushed into the joints.

15.3.6 A well as before as after the compacting the maximum tolerance in profile under a lineal with a length of 3m shall be within + or – 5mm.

**16. VITRIFIED PORCELAIN TILES (ANTI SKID)**

The tiles shall be Anti-skid unpolished / matt finished and shall be of approved make and pattern / design / colour.

16.1 Dimensional and surface quality requirements and physical and chemical properties shall be as follows:-

| | | |
|---|---|---|
| 16.1.1 | Deviation in length & width of each tile from the prescribed length | ± 0.5% |
| 16.1.2 | Deviation in length & width of each tile from the average size of 10 test specimens | ± 0.75% |
| 16.1.3 | Deviation in thickness of each tile from the prescribed thickness | ± 5% |
| 16.1.4 | Straightness of sides (Facial sides) related to prescribed sizes | ± 0.5% |
| 16.1.5 | Rectangularity related to prescribed size | ± 0.6% |

| | | |
|---|---|---|
| 16.1.6 | Surface Flatness | |
| 16.1.6.1 | Centre curvature related to diagonal calculated from prescribed size | ± 0.5% |
| 16.1.6.2 | Edge curvature related to prescribed size | ± 0.5% |
| 16.1.6.3 | Warpage related to diagonal calculated from prescribed size | ± 0.5% |
| 16.1.7 | Surface Quality | - Minimum 95% of tiles shall be free from visible defects that would impair the appearance of a major area of tiles. |
| 16.1.8 | Water absorption by weight | - Less than or equal to 3% average & max. 3.3% for individual tile. |
| 16.1.9 | Modulus of rupture | - Min. 300 $Kg/cm^2$ |
| 16.1.10 | Scratch hardness (Moh's scale) | - Equal to or more than 6 |
| 16.1.11 | Abrasion resistance | - Less than or equal to $205mm^3$ |
| 16.1.12 | Thermal shock resistance | - Resistance to 10 cycles |
| 16.1.13 | Co-eff of thermal expansion from ambient temp. to $100^o$ C($K^{-1}$) | - Max $9 \times 10^{-6}$ |
| 16.1.14 | Resistance to staining of glazed size | - Min. Class 2 |

16.1.15 The sampling of tiles for various test shall be as per IS – 13711.

16.1.16 The tests shall be carried out as per provisions of IS 13630 (Pt 1 13).

**16.2 Preparation of surface & laying**

Base concrete or the RCC slab on which the tiles are to be laid shall be cleaned wetted & mopped. The bedding mortar shall be as specified in the item of the work. Mortar and tiles shall be laid as per CPWD Specifications 2019, Volume I & II. (with upto date correction slips).

16.2.1 The pointing & finishing of tiles shall be as per CPWD Specifications 2019, Volume I & II. (with upto date correction slips).

16.2.2 The measurements shall be as per CPWD Specifications 2019, Volume I & II. (with upto date correction slips).except that the glazed tiles mentioned therein shall mean ceramic glazed tiles.

16.2.3 The rate shall include the cost of all materials and labour involved in all the operations. Nothing extra shall be paid for use of cut (sawn) tiles in the work.

## 17 ACRYLIC BASED TEXTURE PAINT

17.1 The acrylic based texture paint shall be of make, composition, texture and shade as per item of work and as approved by the Engineer-in-charge.

17.2 The surface on which the paint is to be applied shall be smooth, regular and free from dust etc. Undulations, broken edges, minor imperfections and irregularities shall be rectified as specified by manufacturer and approved by Engineer-in-charge so as to make the surface smooth and regular.

17.3 The texture paint shall be applied in a single coat on the surface as per specifications of the manufacturer.

During application, the surface should be well protected from strong winds, hot sun and cold weather. Adequate arrangement in this regard shall be made by the contractor.

17.4 The film thickness shall be 1.5 to 2 mm. The consumption rate of the texture paint for film thickness of 1.5 to 2 mm shall be average 2.5 kg / sqm.

17.5 Specifications in respect of scaffolding, protective measures, measurement and rate shall be as CPWD Specifications 2019 (with upto date correction slips).

18 The vitreous china oval type counter top wash basin of size 580 x 450 mm shall be of make and colour as approved by the Engineer-in-charge. The contractor shall submit samples of various makes & colours to the Engineer-in-charge in advance for approval.

The item of work shall include cutting the counter to the required shape as required, fixing the wash basin & making necessary repairs to the counter. The item of work shall, however, not include providing and fixing of CI brackets in the walls to support the wash basin.

19 The aluminum perforated sheets shall be got approved from the Engineer-in-charge.

20 The work of internal finishing will be executed through approved applicator of Asian Paints/Dulux Paint which will be got approved from Engineer-In-Charge before start of work.

21 The approved sample of Italian marble is available in the office of AE. The contractor has to provide the marble stone as per sample.

**22 FALSE CEILING**

22.1 In case of removal of false ceiling for maintenance, fresh cleat, and fasteners shall be used.

22.2 Regular inspection by field Engineers including Load Test of False Ceiling Frame as per feasibility at regular intervals.

22.3 Considering the safety of occupants, exiting GI, butterfly level clip suspension system should be thoroughly checked and shall be replaced if any crack or damage are observed, all false ceiling work shall be executed through 4/6 mm fully thereaded hanger rod and L- shaped level adjuster system.

22.4 Opening in walls, if any with outgoing pipes, Cables and ducts shall be properly sealed to avoid entry of rodents/monkeys on false ceiling and to prepared any damage to false ceiling.

## ANNEXURE-I

## SAMPLE GUARANTEE BOND

This agreement made this ..... day of .....two thousand..... between M/s ..... (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 the contract (hereinafter called the Contract) dated

…..made between the Guarantor of the one part and Government of the other part, whereby the Contractor, inter alia, undertook to render the buildings and structures in the said Contract recited, completely termite-proof/water and leak-proof.

And whereas the Guarantor agreed to give a guarantee to the effect that the said structure will remain termite-proof for ten years to be reckoned from the date after the maintenance period prescribed in the contract expires.

During this period of guarantee the Guarantor shall make good all defects and for that matter, shall replace at his risk and cost such wooden members as may be damaged by termites, and in case of any other defect being found he shall render the building termite-proof at his cost to the satisfaction of the Engineer-in-charge, and shall commence the works of such rectification within seven days from date of issuing 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, and in the later case the decision of the Engineer-in-charge as to the cost recoverable form the Guarantor shall be final and binding.

That if the Guarantor fails to execute the anti-termite treatment or commits breaches hereunder then the Guarantor will indemnify principal and his successors against all loss, damage, cost, expense or otherwise which may be incurred by him by reason of any default on the part of the Guarantor in performance and observance of this supplemental 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

…..for and on behalf of the President of India on the day, month and year first above written.

Signed, sealed and delivered by OBLIGOR in the presence of –

1.

2.

Signed for and on behalf of THE PRESIDENT OF INDIA by.....in the presence of.

1.

**ANNEXURE-II**
**GUARANTEE TO BE EXECUTED BY CONTRACTORS FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER PROOFING WORKS, SPECIAL REPAIR & STRENGTHENING OF BEAMS & COLUMNS ETC.**

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

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

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

Signed, sealed and delivered by OBLIGOR in the presence of—
1.
2.
Signed for and on behalf of THE PRESIDENT OF INDIA by..... in the presence of—

**Annexure-III**

## *GUARANTEE TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTERCOMPLETION IN RESPECT OF WATER SUPPLY AND SANITARY INSTALLATIONS.*

The agreement mad this _____ Day of _____ Two thousand _____ between M/s _____ S/o _____ (Hereinafter called the GUARANTOR of the one part) and the President of India (hereinafter called the Government of the other part).

WHEREAS this agreement is supplementary to a contract (hereinafter called the contract) dated_____and made between the GUARANTOR OF THE ONE PART AND the Government of the other part, whereby the contractor inter-alia, undertook to render the work in the said contract recited structurally stable workmanship, finishing and use of sound materials.

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

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

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

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

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

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

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

1. _____ 2. _____

SIGNED FOR AND ON BEHLAF OF THE PRESIDENT OF INDIA BY _____in presence of:-

1. _____ 2. _____

**(Annexure-B)**
**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 (if required) 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.~~

## NOTIFICATION AND CIRCULERS

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 leadto dust / particulate emissions. Fabrics and plastics for covering piles of soils and debris is aneffective 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".

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# 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.

**Executive Engineer (C)**

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/Man AE (P) EE

# NOTIFICATION

## Published In the Gazette of India, Part-II, Section-3, Sub-section (ii)]Ministry of Environment, Forest and Climate Change

**New Delhi, the 29th March, 2016**

**G.S.R. 317(E).-**Whereas the Municipal Solid Wastes (Management and Handling) Rules, 2000 published vide notification number S.O. 908(E), dated the 25th September, 2000 by the Government of India in the erstwhile Ministry of Environment and Forests, provided a regulatory frame work for management of Municipal Solid Waste generated in the urban area of the country;

And whereas, to make these rules more effective and to improve the collection, segregation, recycling, treatment and disposal of solid waste in an environmentally sound manner, the Central Government reviewed the existing rules and it was considered necessary to revise the existing rules witha emphasis on the roles and accountability of waste generators and various stakeholders, give thrust to segregation, recovery, reuse, recycle at source, address in detail the management of construction and demolition waste.

And whereas, the draft rules, namely, the Solid Waste Management Rules, 2015 with a separate chapter on construction and demolition waste were published by the Central Government in the Ministry of Environment, Forest and Climate Change vide G.S.R. 451 (E), dated the 3rd June, 2015 inviting objections or suggestions from the public within sixty days from the date of publication of the said notification; and Whereas, the objections or suggestions received within the stipulated period were duly considered by the Central Government;

Now, therefore, in exercise of the powers conferred by sections 6, 25 of the Environment(Protection) Act, 1986 (29 of 1986), and in supersession of the Municipal Solid Wastes (Management and Handling) Rules, 2000, except as respect things done or omitted to be done before such supersession, the Central Government hereby notifies the following rules for Management of Construction and Demolition Waste –

**1. Short title and commencement-**

(1) These rules shall be called the Construction and Demolition Waste Management Rules, 2016.

(2) They shall come into force on the date of their publication in the Official Gazette.

**2. Application.-**The rules shall apply to every waste resulting from construction, re-modelling, repair and demolition of any civil structure of individual or organisation or authority who generates construction and demolition waste such as building materials, debris, rubble.

**3. Definitions –**(1) In these rules, unless the context otherwise requires,-

(a) "ACT' means the Environment (Protection) Act, 1986 (29 of 1986);

(b) "**construction**" means the process of erecting of building or built facility or other structure, or building ofinfrastructure including alteration in these entities;

(c) "**construction and demolition waste**" means the waste comprising of building materials, debris and rubbleresulting from construction, re-modelling, repair and demolition of any civil structure;

(d) **"de-construction"** means a planned selective demolition in which salvage, re-use and recycling of the demolished structure is maximized;

(e) **"demolition"** means breaking down or tearing down buildings and other structures either manually or usingmechanical force (by various equipment) or by implosion using explosives.

(f) **"form"** means a Form annexed to these rules;

(g) **"local authority"** means an urban local authority with different nomenclature such as municipal corporation, municipality, nagar palika, nagar nigam, nagar panchayat, municipal council including notified

area committee and not limited to or any other local authority constituted under the relevant statutes such as gram panchayat, where the management of construction and demolition waste is entrusted to such agency;

(h) **" schedule"** means a schedule annexed to these rules;

(i) **"service provider'** means authorities who provide services like water, sewerage, electricity, telephone, roads, drainage etc. often generate construction and demolition waste during their activities, which includes excavation, demolition and civil work;

(j) **"waste generator" means any person or association of persons** or institution, residential and commercial establishments including Indian Railways, Airport, Port and Harbour and Defence establishments who undertakes construction of or demolition of any civil structure which generate construction and demolition waste.

(2) Words and expressions used but not defined herein shall have the same meaning defined in theACT.

## (4) Duties of the waste generator –

(1) Every waste generator shall prima-facie be responsible for collection, segregation of concrete, soil and others and storage of construction and demolition waste generated, as directed or notified by the concerned local authority in consonance with these rules.

(2) The generator shall ensure that other waste (such as solid waste) does not get mixed with this waste and is stored and disposed separately.

(3) Waste generators who generate more than 20 tons or more in one day or 300 tons per project in a month shall segregate the waste into four streams such as concrete, soil, steel, wood and plastics, bricks and mortar and shall submit waste management plan and get appropriate approvals from the local authority before starting construction or demolition or remodelling work and keep the concerned authorities informed regarding the relevant activities from the planning stage to the implementation stage and this should be on project to project basis.

(4) Every waste generator shall keep the construction and demolition waste within the premise or get the waste deposited at collection centre so made by the local body or handover it to the authorised processing facilities of construction and demolition waste; and ensure that there is no littering or deposition of construction and demolitionwaste so as to prevent obstruction to the traffic or the public ordains.

(5) Every waste generator shall pay relevant charges for collection, transportation, processing and disposal as notified by the concerned authorities; Waste generators who generate more than 20 tons or more in one day or 300 tons per project in a month shall have to pay for the processing and disposal of construction and demolition waste generated by them, apart from the payment for storage, collection and transportation. The rate shall be fixed by the concerned local authority or any other authority designated by the State Government.

## (6) Duties of service provider and their contractors –

(1) The service providers shall prepare within six months from the date of notification of these rules, a comprehensive waste management plan covering segregation, storage, collection, reuse, recycling, transportation and disposal of construction and demolition waste generated within their jurisdiction.

(2) The service providers shall remove all construction and demolition waste and clean the area every day, if possible, or depending upon the duration of the work, the quantity and type of waste generated, appropriate storage and collection, a reasonable timeframe shall be worked out in consultation with the concerned local authority.

(3) In case of the service providers have no logistics support to carry out the work specified in sub rules(1) and (2) , they shall tie up with the authorised agencies for removal of construction and demolition waste and pay the relevantcharges as notified by the local authority.

**(6) Duties of local authority-**The local authority shall

(1) issue detailed directions with regard to proper management of construction and demolition waste within its jurisdiction in accordance with the provisions of these rules and the local authority shall seek detailed plan or undertaking as applicable, from generator of construction and demolition waste.

(2) chalk out stages, methodology and equipment, material involved in the overall activity and final clean up aftercompletion of the construction and demolition

(3) seek assistance from concerned authorities for safe disposal of construction and demolition waste contaminatedwith industrial hazardous or toxic material or nuclear waste if any

(4) shall make arrangements and place appropriate containers for collection of waste and shall remove at regularintervals or when they are filled, either through own resources or by appointing private operators

(5) shall get the collected waste transported to appropriate sites for processing and disposal either through ownresources or by appointing private operators

(6) shall give appropriate incentives to generator for salvaging, processing and or recycling preferably in-situ

(7) shall examine and sanction the waste management plan of the generators within a period of one month or from the date of approval of building plan, whichever is earlier from the date of its submission

(8) shall keep track of the generation of construction and demolition waste within its jurisdiction and establish a data base and update once in a year

(9) shall device appropriate measures in consultation with expert institutions for management of construction and demolition waste generated including processing facility and for using the recycled products in the best possible manner

(10) shall create a sustained system of information, education and communication for construction and demolition waste through collaboration with expert institutions and civil societies and also disseminate through their own website;

(11) shall make provision for giving incentives for use of material made out of construction and demolition waste in the construction activity including in non-structural concrete, paving blocks, lower layers of road pavements, colony and rural roads.

**(7) Criteria for storage, processing or recycling facilities for construction and demolition wasteland application of construction and demolition waste and its products-**

(1) The site for storage and processing or recycling facilities for construction and demolition waste shall be selectedas per the criteria given in **Schedule I**;

(2) The operator of the facility as specified in sub- rules (1) shall apply in **Form I** for authorization from StatePollution Control Board or Pollution Control Committee.

(3) The operator of the facility shall submit the annual report to the State Pollution Control Board in **Form II.**

(4) Application of materials made from construction and demolition waste in operation of sanitary landfill shall beas per the criteria given in **Schedule II.**

## (8) Duties of State Pollution Control Board or Pollution Control Committee-

(1) State Pollution Control Board or Pollution Control Committee shall monitor the implementation of these rules by the concerned local bodies and the competent authorities and the annual report shall be sent to the

Central Pollution Control Board and the State Government or Union Territory or any other State level nodal agency identified by the State Government or Union Territory administration for generating State level comprehensive data. Such reports shall also contain the comments and suggestions of the State Pollution Control Board or Pollution Control Committee with respect to any comments or changes required;

2) State Pollution Control Board or Pollution Control Committee shall grant authorization to construction and demolition waste processing facility in **Form-III** as specified under these rules after examining the application received in **Form I**;

(3) State Pollution Control Board or Pollution Control Committee shall prepare annual report in**Form IV** with special emphasis on the implementation status of compliance of these rules and forward report to Central Pollution Control Board before the 31stJuly for each financial year.

## (9) Duties of State Government or Union Territory Administration-

(1) The Secretary in-charge of development in the State Government or Union territory administration shall prepare their policy document with respect to management of construction and demolition of waste in accordance with the provisions of these rules within one year from date of final notification of these rules.

(2) The concerned department in the State Government dealing with land shall be responsible for providing suitable sites for setting up of the storage, processing and recycling facilities for construction and demolition waste.

(3) The Town and Country planning Department shall incorporate the site in the approved land useplan so that there is no disturbance to the processing facility on a long term basis.

(4) Procurement of materials made from construction and demolition waste shall be made mandatory to a certain percentage (say 10-20%) in municipal and Government contracts subject to strict quality control.

**(10) Duties of the Central Pollution Control Board -** (1) The Central Pollution Control Board shall,-

(1) prepare operational guidelines related to environmental management of construction and demolition waste management;

(2) analyze and collate the data received from the State Pollution Control Boards or Pollution Control Committee to review these rules from time to time;

(3) coordinate with all the State Pollution Control Board and Pollution Control Committees for any matter related to development of environmental standards;

(4) forward annual compliance report to Central Government before the 30thAugust for each financial year based on reports given by State Pollution Control Boards of Pollution Control Committees.

**(11) Duties of Bureau of Indian Standards and Indian Roads Congress -**The Bureau of Indian Standards and Indian Roads Congress shall be responsible for preparation of code of practices and standards for use of recycled materials and products of construction and demolition waste in respect of construction activities and the role of Indian Road Congress shall be specific to the standards and practices pertaining to construction of roads.

## (12) Duties of the Central Government –

(1) The Ministry of Urban Development, and the Ministry of Rural Development, Ministry of Panchayat Raj, shallbe responsible for facilitating local bodies in compliance of these rules;

(2) The Ministry of Environment, Forest and Climate Change shall be responsible for reviewing implementation ofthese rules as and when required.

**(13)** **Time frame for implementation of the provisions of these rules -**The timeline for implementation of these rules shall be as specified in **Schedule III:**

**(14)** **Accident reporting by the construction and demolition waste processing facilities-**In case of any accident during construction and demolition waste processing or treatment or disposal facility, the officer in charge of the facility in the local authority or the operator of the facility shall report of the accident in **Form-V** to the local authority. Local body shall review and issue instruction if any, to the in chargeof the facility.

## Schedule I

## Criteria for Site Selection for Storage and Processing or Recycling Facilities for construction andDemolition Waste

**[See Rule 7(1)]**

(1) The concerned department in the State Government dealing with land shall be responsible for providing suitable sites for setting up of the storage, processing and recycling facilities for construction and demolition and hand over the sites to the concerned local authority for development, operation and maintenance, which shall ultimately be given to the operators by Competent Authority and wherever above Authority is not available, shall lie with the concerned local authority.

(2) The Local authority shall co-ordinate (in consultation with Department of Urban Development of the State or the Union territory) with the concerned organizations for giving necessary approvals and clearances to the operators.

(3) Construction and demolition waste shall be utilized in sanitary landfill for municipal solid waste of the city or region as mentioned at Schedule I of thse rule. Residues from construction and demolition waste processing or recycling industries shall be land filled in the sanitary landfill for solid waste.

(4) The processing or recycling shall be large enough to last for 20-25 years (project based on-site recycling facilities).

(5) The processing or recycling site shall be away from habitation clusters, forest areas, water bodies, monuments, National Parks, Wetlands and places of important cultural, historical or religious interest.

(6) A buffer zone of no development shall be maintained around solid waste processing and disposal facility, exceeding five Tonnes per day of installed capacity. This will be maintained within the total area of the solid waste processing and disposal facility. The buffer zone shall be prescribed on case to case basis by the local authority in consultation with concerned State Pollution Control Board.

(7) Processing or recycling site shall be fenced or hedged and provided with proper gate to monitor incoming vehicles or other modes of transportation.

(8) The approach and or internal roads shall be concreted or paved so as to avoid generation of dust particles due to vehicular movement and shall be so designed to ensure free movement of vehicles and other machinery.

(9) Provisions of weigh bridge to measure quantity of waste brought at landfill site, fire protection equipment and other facilities as may be required shall be provided.

(10) Utilities such as drinking water and sanitary facilities (preferably washing/bathing facilities for workers) and lighting arrangements for easy landfill operations during night hours shall be provided and Safety provisions including health inspections of workers at landfill sites shall be carried out made.

(11) In order to prevent pollution from processing or recycling operations, the following provisions shall be made, namely:

(a) Provision of storm water drains to prevent stagnation of surface water;

(b) Provision of paved or concreted surface in selected areas in the processing or recycling facility for minimizing dust and damage to the site.

(c) Prevention of noise pollution from processing and recycling plant:

(d) Provision for treatment of effluent if any, to meet the discharge norms as per Environment (Protection) Rules, 1986.

(12) Work Zone air quality at the Processing or Recycling site and ambient air quality at the vicinity shall be monitored.

(13) The measurement of ambient noise shall be done at the interface of the facility with the surrounding area, i.e., at plant boundary.

(14) The following projects shall be exempted from the norms of pollution from dust and noise as mentioned above:

For construction work, where at least 80 percent construction and demolition waste is recycled or reusedin-situ and sufficient buffer area is available to protect the surrounding habitation from any adverse impact.

(15) A vegetative boundary shall be made around Processing or Recycling plant or site to strengthen the buffer zone.

## Schedule II

## Application of materials made from construction and demolition waste and its products.

## [See Rule 7(3)]

| Sl. No. | Parameters | Compliance Criteria |
|---|---|---|
| **1** | Drainage layer in leach ate collection system at bottom of Sanitary Landfill Gas Collection Layer above the waste at top of Sanitary Landfill and Drainage Layer in top Cover System above Gas Collection Layer of Sanitary Landfill For capping of sanitary landfill or dumpsite, drainage layer at the top | Only crushed and graded hard material (stone, concrete etc.) shall be used having coarse sand size graded material (2mm – 4.75mm standard sieve size)Since the coarse sand particles will be angular in shape (and not rounded as for riverbed sand), protection layers of non-woven geo- textiles may be provided, wherever required, to prevent puncturing of adjacent layers or components. |
| **2** | Daily cover | Fines from construction and demolition processed waste having size up to 2 mm shall be used for daily cover over the fresh waste. Use of construction and demolition fines as landfill cover shall be mandatory where such material is available. Fresh soil (sweet earth) shall not be used for such places and borrow-pits shall not be allowed. Exception – soil excavated during construction of the same landfill. During hot windy days in summer months, some fugitive dust problems may arise. These can be minimised by mixing with local soil wherever available for limited period. |
| **3** | Civil construction in a sanitary landfill | Non-structural applications, such as kerb stones, drain covers, paving blocks in pedestrian areas |

## Schedule III
## Timeframe for Planning and Implementation[See Rule 13]

| Sl. No. | Compliance Criteria | Cities with population of 01 million and above | Cities with population of 0.5-01 million | Cities with population of lessthan 0.5 million |
|---|---|---|---|---|
| 1 | Formulation of policy by State Government | 12 Months | 12 Months | 12 Months |
| 2 | Identification of sites for collection and processing facility | 18 months | 18 months | 18 months |
| 3 | Commissioning and implementation of the facility | 18 months | 24 Months | 36 months |
| 4 | Monitoring by SPCBs | 3 times a year – once in 4 months | 2 times a year – once in 6 months | 2 times a year – oncein 6 months |

*The time Schedule is effective from the date of notification of these rules.

## FORM – I

### See [Rule 7 (2)] Application for obtaining authorization

To,
The Member Secretary

Name of the local authority or Name of the agency :appointed by the municipal authority

| | |
|---|---|
| Correspondence address<br>Telephone No.<br>Fax No. | |
| Nodal Officer and designation (Officer authorized by the competent authority or agency responsible for operation of processing or recycling or disposal facility) | |
| Authorisation applied for (Please tick mark) | Setting up of processing or recycling facility of<br>construction and demolition waste |
| Detailed proposal of construction and demolition waste processing or recycling facility to include the following<br>Location of site approved and allotted by the Competent Authority. Average quantity (in tons per day) and composition of construction and demolition waste to be handled at the specific site.<br>Details of construction and demolition waste processing or recycling technology to be used.<br>Quantity of construction and demolition waste to be processed per day.<br>Site clearance from Prescribed Authority.<br>Salient points of agreement between competent authority or local authority and operating agency (attach relevant document).<br>Plan for utilization of recycled product.<br>Expected amount of process rejects and plan for its disposal (e.g., sanitary landfill for solid waste).<br>Measures to be taken for prevention and control of environmental pollution.<br>Investment on project and expected returns.<br>Measures to be taken for safety of workers working in the processing or recycling plant.<br>Any preventive plan for accident during the collection, transportation and treatment including processing and recycling should be informed to the Competent Authority (Local Authority) or Prescribed Authority | |

**Form-II**

## Format for Issue of Authorization to the Operator

File No.:

Date.:

To,

_____

_____

_____

*Ref : Your application number* *Dt. ……*

The_____State Pollution Control Board or Pollution Control Committee after examining the proposal hereby authorizes _____ having their administrative office at _____ to set up and operate construction and demolition waste processing facility at _____on term and conditions (including the standards to comply) attached to this authorization letter.

1. The validity of this authorisation is till. After expiry of the validity period, renewal of authorisation is to be sought.

2. The State Pollution Control Board or Pollution Control Committee may, at any time, for justifiable reason, revoke any of the conditions applicable under the authorisation and shall communicate the same in writing.

3. Any violation of the provision of the construction and demolition Waste Management Rules,2016 shall attract the penal provision of the Environment (Protection) Act, 1986 (29 of 1986).

**Date: (Member Secretary)**

**Place: State Pollution Control Board/**

**Pollution Control Committee**

# Form - III

**Format of Annual Report to be submitted by Local Authority to the State Pollution Control Board**

(i) Name of the City or Town…….

(ii) Population……

(iii) Name and address of local authority or competent authority Telephone No :
……
Fax : …….

Email ID: …….

Website: ……..

(iv) Name of In-charge or Nodal Officer dealing with construction and demolition wastesmanagement with designation ……

***Quantity and composition of construction and demolition waste including any deconstruction waste***

(a) Total quantity of construction and demolition waste generated during the whole year in metric ton Any figures for lean period and peak period generation per day
……..
Average generation of construction and demolition waste (TPD) Total quantity of construction and demolition waste collected per day

Any Processing / Recycling Facility set up in the city ……

Status of the facility

(b) Total quantity of construction and demolition waste processed / recycled (in metric ton) Non-structural concrete aggregate :
Manufactured sand :

Ready-mix concrete (RMC) :

Paving blocks :

GSB :

Others, if any, please specify :

(c) Total quantity of Construction & Demolition waste disposed by land filling without processing (last option) orfilling low lying areas

No of landfill sites used :

Area used :

Whether weigh-bridge : Yes / No

facility used for quantity estimation?

(d) Whether construction and demolition waste used in sanitary landfill (for solid waste) as perSchedule III: Yes /No

*Storage facilities*

(a) Area or location or plot or societies covered for collection of Construction and Demolition waste

(b) No. of large Projects (including roadways project) covered

(c) Whether Area or location or plot or societies collection isPracticed (if yes, whether done by Competent Authority or Local Authority or through Private Agency or Non-Governmental Organization) :

(d) Storage Bins : Specifications Existing
Proposed
(Shape & Size) Number for future

(i) Containers or receptacle (Capacity) :

(ii) Others, please specify :

(e) Whether all storage bins/collection spots areattended for daily lifting : Yes No

(e) Whether lifting of Construction & DemolitionWaste from Storage bins is manual or mechanical

(please tick mark) please specify mode : Manual Mechanical Others,and equipment used (specify equipment)

## 3. Transportation

Existing Actually Required/Proposed number

Truck :

Truck-Hydraulic :

Tractor-Trailer :

Dumper-placers :

Tricycle :

Refuse-collector :

Others (Please specify) :

**4.** Whether any proposal has been made to improve Construction and Demolition wastemanagement practices

**5.** Have any efforts been made to involve PPP for processing of Construction & Demolition waste : If yes, what is (are) the technologies being used, such as:

Processing / recycling Steps taken

Technology (Quantity to be processed)

Dry Process :

Wet Process :

Others, if any :

Please specify :

**6.** What provisions are available to check unauthorized operations of:

Encroachment on river bank or wet bodies :

Unauthorized filling of low line areas :

Mixing with solid waste :

Encroachment in Parks, Footpaths etc. :

**7.** How many slums are provided with construction and demolition waste receptaclesFacilities:

**8.** Are municipal magistrates appointed for taking penal action for non-compliance with these rules:
Yes No

[ If yes, how many cases registered & settled during last three years (give year wise details)]

# Form – IV

**See [Rule (8)(3)]**

**Format of Annual Report to be submitted by the State Pollution Control Board/Committees to the Central Pollution Control Board**

The Chairman,

Central Pollution Control Board,

Parivesh Bhawan, East Arjun Nagar,

Delhi-110032

1. Name of the State/Union territory:
2. Name & address of the State Pollution Control Board/PollutionControl Committee:

3. Number of municipal authorities responsible for management of municipal solid wastes in the State/Union territory under these rules:

4. A Summary Statement on progress made by municipal authorities in respect of implementation of **Schedule III**]: Please attach as Annexure-I
5. A Summary Statement on progress made by municipal authorities in respect of implementation of **Schedule IV** : Please attach as Annexure-II

**Date: Chairman or the Member Secretary**
**State Pollution Control Board/ Place:**
**Pollution Control Committee**

**Form – V**

**See [Rule 14]**

1. Date and time of accident:
2. Sequence of events leading to accident:

3. The type of construction and demolition waste involved in accident:
4. Assessment of the effects of the accidents

a. on traffic, drainage system and the environment:

5. Emergency measures taken :
6. Steps taken to alleviate the effects

a. of accidents :

7. Steps taken to prevent the recurrence

a. of such an accident :

8. Regular monthly health checkup of workers at

a. Processing / recycling site shall be made

9. Any accident during the collection,

a. transportation and treatment including

b. processing and recycling should be informed

c. to the Competent Authority (Local Authority) or

d. Prescribed Authority

Date :

Place: Designation:

Authorized Signatory

## LIST OF APPROVED MAKE OF MATERIALS (FOR CIVIL WORKS)

Make/Brands of Materials and Models approved are listed below. However, equivalent materials and Models of any other Specialized firms may be used, in case it is established that the Makes/brands specified below are not available in the market or for any other reasons, subject to approval of the alternateMake/brand by the Engineer-in-Charge.

| Sl. No. | MATERIALS | APPROVED MAKE |
|---|---|---|
| 1. | Structural Steel, Sections | Tata, Jindal, Prakash, Rana Capital, Apollo, Bhushan |
| 2. | Admixture | Fosroc, Hygie Profile, MCBAUCHEMIE, CICO / CHOCKSEY/ BASF |
| 3. | Bitumen | Indian Oil, Hindustan Petroleum, Bharat Petroleum |
| 4. | Injection Grouting | Pidilite (Dr. Fixit), Hygie Profile, SIKA, FOSROCCHOCKSEY/ DURABUILD |
| 5. | Locks/Latch | Godrej, Harrison, Plaza, Dorma, Yale, Dorset |
| 6. | Laminates | Formica, Decolam, Merino, Greenlam, Amulya |
| 7. | Stainless steel wire mesh | Sterling enterprises, Trimurty WeldedMesh |
| 8. | Prelaminated MDF Board | Green Penel max, Marino, Veer, Century |
| 9. | Adhesive | Pidilite, Hygie Profile, Dunlop, Vamorganic CHOCKSEY / DURABUILD |
| 10. | Flush Door Shutters (Decorative/Non Decorative) | Duro, Merino, Centuryply |
| 11. | Block Boards, Ply boards | DURO, CENTURY, Greenlam |
| 12. | Hydraulic Door Closer/Floor spring | Dorma, Hafele, Hettich |
| 13. | Panic Exit Device | Ingerrsoll, Geze, Hardwyn, Everest, ASSAABLOY |
| 14. | Aluminium Extruded Profile/Sections for door and windows | Hindalco, Jindal, Indalco, ASSAABLOY |
| 15. | Anodised Aluminium Hardwares (Heavy Type) | Hardima, Everite, Sigma (ISI marked), Earl Bihari. Doorace, Dorma |
| 16. | Tempered Glass | Modi Float, Saint Gobain, ASAHI |
| 17. | Polyster Powder Coating Shades | Nerolac, Berger, J & N |
| 18. | Dash/anchoring Fasteners | Hilti/Fischer/Canon/Bosch/Wurth |
| 19. | Friction Stay Hinges | Earl-Bihari, Hettich |

| | | |
|---|---|---|
| 20. | Steel Nuts, Bolts and Screws | Kundan, Puja, Atul, Wurth |
| 21. | EDPM Gasket | Hanu/Anand |
| 22. | Ceramic Tiles | Johnson, Nitco, Varmora/AGL/Simpolo/ Kajaria |
| 23. | Vitrified Tiles (Double Charged/ Nano Tech) (GVT/ AntiSkid/ Glossy/Matt finish 1st Quality). | Nitco/ Varmora/ Simpolo |
| 24. | Terrazzo Tiles | Nitco, Unistone, K.K. Manhole |
| 25. | Chequered Tiles | Nitco, Unistone, K.K. Manhole, Dalal |
| 26. | Fire Door | Kutty, 4C Fire, Promat, Relient (Wooden metal glazed) Bhawani Fire Protection Pvt. Ltd. |
| 27. | Cement Concrete Tiles | NITCO, Unistone, Dalal, Surendera |
| 28. | Tile Adhesive | CICO, PIDILITEFERROUS, Home Pride, Hygie Profile, Fosroc/ CHOKSEY, MYK Laticrete |
| 29. | White Cement | Birla White, JK White |
| 30. | Clay Tile on Roof | KENZAI, JOHNSON |
| 31. | CC PAVERS/ CHEQURED PRE CAST CONCRETE TILES | NITCO, Hygie Profile, TUFTEK/ K.K Pvt. Ltd. /,Hindustan Tile, Dalal, Surendera |
| 32. | Water Proofing Cement Paint | Snowcem, Hygie Profile, Berger, ICI India Ltd., Asian Paints |
| 33. | Synthetic Enamel Paint (Premium Quality) | JSW/Akzo Novel, Nippon |
| 34. | Acrylic/Plastic Emulsion Paint (Premium Quality) | JSW/Akzo Novel, Nippon |
| 35. | Fire Clay Sink & Drain Board | Parryware, Hindware, Cera. |
| 36. | Soil waste & Vent Pipes & fittings (a)Centrifugal Cast iron pipes | NECO, RIF, SKF, HIF, Kapilansh, RPMF |
| 37. | LA(CI)Pipes | Electro Steel, Kesoram |
| 38. | G.I. Pipes & M.S. Pipe | TATA, JINDAL (Hissar), PrakashSurya |
| 39. | MAZZA AC PIPE | A Infrastrcutre, Ltd. Apurva Vinimay P.Ltd. Koanoraia Sugar Gen Mfg Company |
| 40. | G.I. Fittings (Malleable Cast Iron) | UNIK, ICS |
| 41. | Gun metal Valves (Full way chech Valves.) | Leader, Zoloto, SANT |
| 42. | Stone ware Pipes & Gully Traps | Perfect/ Parry/Anand |

| | | |
|---|---|---|
| 43. | PVC Doors/Windows | Syntex, Rajshri, Jain Doors,Jayna |
| 44. | M S pipes | Kirloskar, Electro Steel. |
| 45. | C.I. Double Flnaged Sluice Valves | Kirloskar, IVS, Burn |
| 46. | C.I. Double Flnaged Non Return Sluice Valves | Kirloskar |
| 47. | C.I. Manhole Covers | RIF,NECO,SKF,RPMF |
| 48. | UPVC pipes | Supreme, Prince, Finolex, Astral |
| 49. | SS Auto close Hinges | Hettich, Earl-Bihari |
| 50. | Ball Valves | Zoloto, IBP, Arco |
| 51. | Butterfly Valves | Audco |
| 52. | Unglazed Vitrified Heavy | Johnson-(Endura), Somany-(Dura Stone), Kajaria, |
| 53. | Duty Tiles | Oasis, Varmora |
| 54. | Spider Fittings | Dorma, Sevax, Hettich, Hafele |
| 55. | Mineral Fiber False ceiling | Armstrong or equivalent as per ISI codes |
| 56. | APP | Bitumat co. Ltd., STP, Dermabit Technow NICOL/Torchtar |
| 57. | FRP Doors & Frames | Ashoo Model Arts, Selected Product Co., Fiber ways, Jayna Doors of Jain wood Industries, Jain Doors Pvt. Ltd, FRP Bhatt |
| 58. | PVC/Synthetic Water Storage Tank | Sintex/Uniplast, Polycon |
| 59. | RMC | ACC, UltraTech (Birla), RMC India, Lafarge, M/S NDCON Construction, V.K.Ready Mix Concrete Pvt. Ltd., Shri Ram Ready Mix Concrete Pvt. Ltd. |
| 60. | Indian/European WC, Wash Basin and other Sanitary Installation. | Parryware, Hindware, Cera, Jaquar |
| 61. | C.P. Brass Fittings | Jaquar, Kohler, Prima, Kingston |
| 62. | Water Proofing compound | CICO, IMPERMO (By Snowcem India Ltd.) PIDILITE/CHOKSEY/HYGIEPROFILE/DURABUILD/Fosroc. |
| 63. | Stainless Steel Sink | Jayna/Neelkantha/Nirali |
| 64. | Bevelled Edge Mirror | ATUL/JOLLY/MODIGAURD |
| 65. | Glass Panes | Modi Guard/Saint Gobin/ASAHI |
| 66. | Plaster of Paris | Birla White/JK Cement/Saint Gobain |
| 67. | Wall Putty | Birla White/Hygie Profile/JK White/Home Pride |

| | | |
|---|---|---|
| 68. | Cement | ACC/Birla/Ultratech/J.P.Rewa & Cement Corporation Of India. J.K, Gujrat Ambuja, Shree Cement, M/S Binani Cement. |
| 69. | Aluminium hinges | Classic/Argent/Crown |
| 70. | Steel Reinforcement (TMT Bars) | Tata, SAIL, RINL, JSPL, JSW |
| 71. | Galvanised/Galvalume Profile Sheets | Tata, Jindal, Kamdhenu |
| 72. | Metal False ceiling | Durlum, Hygie Profile, Armstrong, Dexune, Credence |
| 73. | Acrylic Distemper | JSW/Akzo Novel, Nippon |
| 74. | Smooth Exterior Paint. | JSW/Akzo Novel, Nippon |
| 75. | Premium Exterior Paint with Silicon | Asian(Apex-Ultima),Berger (AllGuard), |
| 76. | Additives | Nerolac (Suraksha advanced), ICI India Ltd (Weathershield).,HUFCOR |
| 77. | Acoustic Foldable movable partitions | Hafele, Dorma, Azazo, ASSAABLOY |
| 78. | Door Fittings | Hafele, Dorma, Hardwyn, Godrej, Dorset |
| 79. | PVC pipes & Fittings | Supreme, Hygie Profile, Finolex, AKG, SFMC |
| 80. | Steel Primer | Berger, Hygie Profile, Nerolac, ICI India Ltd. Asian Paints. |
| 81. | Wood Primer | Berger, Nerolac, ICI India Ltd. Asian Paints. |
| 82. | Plastic Seat covers of W.C. | Commander, Diplomant, Hindware, Somany |
| 83. | PVC flushing Cistern | Commander, Hindware (Slimline), Hindustan, Somany. |
| 84. | Stainless Steel Railing | Connect Arch. Pvt. Ltd., Jindal S.S. Ltd., Geze, ICICH Inds., ESSAL, Dorma, Dline, KICH |
| 85. | C-PVC pipes | Astral, Ashirvad, Prince |
| 86. | Stainless Steel hardware fittings | Dorma, Hafele, Godrej, Geze., Dorset |
| 87. | Hermitically Sealed Performance glass & Toughened glass. | Saint Gobin, Asahi, Pilington, Viracon (Processed by the me or their approved Processors). |
| 88. | Epoxy Paint | Asian, ICI, Hygie Profile, Kansai, Nerolac. |
| 89. | Sanitary Fittings | Hindware, Parryware, Cera, Hindustan, Jaquar |
| 90. | Textured Exterior Paint | Ultratech(MAS)texturepaint,Spectrum,Heritage,Asi |

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|---|---|---|
| | | an,Dulux(AkzoNobel) |
| 91. | Gypsum Board | Saint Gobain, USG Boral, Armstrong |
| 92. | Calcium Sillicate false ceiling /frame work | Aerolite, Hilux, Armstrong, Gyptech |
| 93. | Glass Reinforced Jali | UniStone, Dalal, Ultra Tech |
| 94. | AAC Blocks | Finecrete, Ultra Tech, R S Green |
| 95. | Wooden Door Frame sand Shutters | Goyla, Jayna, Kutty |
| 96. | DI Pipes | Electro steel, Jindal Saw, Tata Metalls |
| 97. | PRECAST KERB STONE | DALAL, PAVERINDIA,K.K. |
| 98. | Bitumen | Indian Oil, Hindustan Petroleum, Bharat Petroleum |
| 99. | HDMR Board | Action Tesa-Boilo, Greenlam-Boilo |
| 100. | UPVC door/window | Fenesta/Aluplast/L.G. |
| 101. | Water Proofing Compounds, Plasticizer, Super Plasticizer, Grouts, Polymers, Polyexpanse, Other construction chemicals | Chowgule Koster, Fosroc, Sika, Huntsman (Ciba Geigy), Pidilite, Ferrous Crete, MAKPHALT, Birla Opus Prime |
| 102. | Rockwool and Spray over deck Insulation | ROCKWOOL, Lloyd Insulation, Loin Insulation, NGP Industries |
| 103. | Polycarbonate Sheet | SUNPOL, GALENA, ALCOX, GE Plastic, LEXAN, TATA, JINDAL, ESSOR STEEL |
| 104. | Decking steel sheet | LYSAGHT Ezydek of TATA, Lloyds, JSW |
| 105. | False Ceiling- Gypsum | Saint Gobain, Lafarage, Vans Gypsum, India gypsum, Beral gypsum, Armstrong, USG, M/s Gyptech Systems Private Limited, HI-STEEL |
| 106. | Plywood/ Veneer | Green, Century, Merino, Duro |
| 107. | Melamine Polish | Asian Paints Melamine Gold, Wudfin of Pidilite, Timbertone of ICI Dulux. |
| 108. | Floor Spring | HARDWYN, Godrej, Grace, Sandhu. |
| 109. | Aluminium structural members Windows, Glazing and Partitions. | Jindal, Indalco, Hindalco. |
| 110. | Glazing Structural / Suspanded /Skylight | Saint Gobain, Pilkington, Asahi. |
| 111. | Float Glass, Frosted Glass | Saint Gobain, Asahi, Pilington, Modi Float, Bhawani Fire |
| 112. | Glass Spider Canopy | Dorma, Alucob, Alupro |
| 113. | Fire rated vision Panels | Pilkington, SCHOTT, FERILITE, Saint Gobain. |
| 114. | Skylight – Thermoform | Mccoy Architectural System, Vergola, Abucob |

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/Man AE (P) EE

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|---|---|---|
| 115. | Aluminium composite Panels | Reynobond, Alpolica, Aluco Bond |
| 116. | G.I. Steel door frame | Kutty Doors, Shakti Metdoor, NAVAIR, ROMAT, Synergy Thrislington, Bhawani Fire |
| 117. | Glass processor DGU/Toughning | Art N Glass, Sheeshmahal, Shivshakti or authorized by manufacturer of glass. |
| 118. | Silicon Sealant,Weather Sealant | G.E. Plastics, Dow Corning, BECKER |
| 119. | Poly-Sulphide Sealant | Choksey Chemicals, Fosroc, Pidilite, Sika |
| 120. | Fire sealent | BTMH, Promat, Alstom, Birla 3M. |
| 121. | Grouting Compound/Admixture | Bal Endura, Pidilite, Fosroc, Base-x Ferrous Crete. |
| 122. | OIL BOUND WASHABLE DISTEMPER | PREMIUM WASHABLE OIL BOUND DISTEMPER OF KANSAI -NEROLAC MAKE, TRACTOR BRAND WASHABLE DISTEMPER OF ASIAN PAINTS MAKE, MAXILITE OF ICI- DULUX PAINTS MAKE. |
| 123. | ACRYLIC / PLASTIC EMULSION | BEAUTY GOLD OF KANSAI - NEROLAC MAKE, APCOLITE ACRYLIC EMULSION OF ASIAN PAINTS MAKE, SUPER COVER ICI- DULUX PAINTS MAKE. |
| 124. | Fire Paint | Akzo Nobel Coatings India Ltd., PROMAT, Jotun, Asian Paints |
| 125. | DI Fittings | Kartar , Electrosteel |
| 126. | CI Fittings | Neel , Kartar , Sarkar |
| 127. | Float Valve | IVC, Leader, Prayag, Kalsi Pump Pvt. Ltd., Dhawan Sanitary Udyog (Prima) |
| 128. | UPVC pipe and Fittings | Prince, Supreme, Astral, AKG, Finolex |
| 129. | Centrifugally Cast (spun) Iron Pipes & Fittings | NECO, ACL SKF, BIC, RPMF |
| 130. | Centrifugally Cast (spun) iron Pipes (Class LA) | Neco, Electro Steel, Kapilansh, TATA |
| 131. | SFRC Manhole covers | KK, JAIN, PARGATI |
| 132. | Brass stop & Bib Cock | Zoloto, Sant, L&K, Leader, Kalsi Pump Pvt. Ltd., Jaquar (Continental), Kingston (Elta), Marco (Oriental) |
| 133. | Mirror Glass | Atul, Modi Guard, Golden Fish |
| 134. | Non Return valve (Check valve) ½" to 1¼" | Kalsi Pumps Pvt. Ltd. Zoloto,Annapurna |
| 135. | Brass Ferrules | Dhawan Sanitary Udyog (PRIMA), Kalsi , Annapurna |
| 136. | Polyethylene water storage tank | SINTEX, DIPLAST or equivalent |
| 137. | Insulation for hot water pipes | KAIFLEX , ARMAFLEX, Careflex |
| 138. | Insulation for external/exposed hot water pipes | KAIFLEX , ARMAFLEX, Careflex |
| 139. | Pipe protection for external water supply pipes | PYPKOTE, MAKPOLYKOTE, ARMAFLEX |

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|---|---|---|
| 140. | Toilet Cubicles | Merino Industries Ltd (Titan Series), Green Sturdo, Green Ply Industries Ltd (Greenlam Sturdo Classic), Trespa, Dorma |
| 141. | Adhesive Compound/ Mortar for AAC block | Ferrous, Crete, Greeco Bond, JK Lakshmi, Base-x, Ultratech, Ardex Endura |
| 142. | SS Mortise lock with one dead bolt and pair off ss handles steel grade-SS304 | DORMA (ST-800-TYPE-3) or equivalent Model of D-Line or Hafele |
| 143. | SS Mortise latch & lock with six levers and pair off ss handles steel grade-SS304 | DORMA (ST-8100-TYPE-1) or equivalent Model of D-Line or Hafele, Hettich |
| 144. | SS Tower bolt | DORMA (3200-1/2/3/4) or equivalent Model of ARKAY or Hafele, Hettich |
| 145. | SS Butt hinges with ball bearing grade-SS304 | DORMA (3090) or equivalent Model of D-line or Ingersoll Rand, Hettich |
| 146. | Magic Eye | DORMA (1200) or equivalent Model of D-line or Ingersoll Rand |
| 147. | Stainless steel sliding door bolts | Dorma or Geze or Hafele or Ingersoll Rand, Hettich |
| 148. | Pull handle back to back of length 150 mm of steel grade- SS 304 | Dorma TGDI-D 150 or equivalent model of Geze or Ozone |
| 149. | Pull handle single side of length 150 mm of steel grade- SS 304 | Dorma TGDI-D 150 or equivalent model of Geze or Ozone |
| 150. | Aluminium lever handles | HARDIMA, EVERITE or equivalent |
| 151. | Lever Handle in SS 304 finish | Pure Dorma 8100 or equivalent model of D-line or Hafele |
| 152. | Push plate in SS 304 grade | Ozone model No. OOPP STD SSS or equivalent model of Hafele or Geze |
| 153. | Dust excluding socket | Dorma 3124 or equivalent model of Hafele or Ingersoll Rand |
| 154. | Wall mounted door stopper with rubber buffer | Dorma 4012 or equivalent model of Geze or Ingersoll Rand |
| 155. | Kick plate thickness 0.9mm in SS 304 grade | Ozone model no. OKP STD SS or equivalent model of Geze or Hafele |
| 156. | Disable sign plate in SS 304 satin stainless steel finish | Dorma3040-D or equivalent model of Geze or Hafele. |
| 157. | white vitreous china laboratory/ Kitchen sink | Hindware “or perryware or Cera, Jaquar, ROCA |
| 158. | Gypsum Plaster | Ferrous Crete, Gyproc, Saint Gobain, Boral |
| 159. | Modular Expansion Joint | Herculus, CS, Vexcolt. Devin. |
| 160. | Anti cockroach trap of SS | Viking No. 47405, Jayna, Chillis |
| 161. | PRELAMINATED PARTICLE BOARD | CENTURY PLY, KITLAM, ECOBOARD, MERINO |
| 162. | PRECAST C.C. COVER | KKMG, NIMCO, HINDUSTAN, TERRAFERMA |

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/Man AE (P) EE

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|---|---|---|
| 163. | R.C.C. PIPES-(NP-2) | PRAGATI, LAKSHMI, SOOD & SOOD, JAIN SPUN PIPES, INDIAN HUME PIPE CO. SPUN PIPE CO., SEMENTIA, |
| 164. | STONEWARE PIPE & GULLY TRAPS | PERFECT, PARRY, ANY ISI MARK |
| 165. | SMC STORAGE PANEL TANK | SINTEX, BINANI, DEVI POLYMERS |
| 166. | PLY WOOD | DUROPLY, KITPLY INDUSTRIES CENTAURY OR EQUIVALENT, DUROPLY (BWR) CENTURY PLYWOOD, GREEN PLYWOOD, MYSORE BOARDS. |
| 167. | PTMT FITTINGS | PRAYAG, SHAKTI |
| 168. | READY TO USE MICRO CONCRETE | DR, FIXIT ( MICRO CONCRETE), BRONCO (CEMREPAIR MC), BASF (MASTEREMACO ® S 346), FOSROC(RENDEROC ® RG. |
| 169. | Gunmetal Valves (Full way chech Valves.) | Leader, Zoloto, SANT, |
| 170. | WPC/PVC/door frame and doors | Alstone, AVSL, Amulya, Century |
| 171. | Precoated Galvanized Iron Profile Sheet | TATA, JINDAL, ESSAR STEEL |
| 172. | Indian type W.C. Pan (Odissa Pattern) | Perryware, Hindware, Cera |
| 173. | GRG False Ceiling | Diamond Ceiling |
| 174. | Bamboo wood flooring and Wall Paneling | Epitome Bamboowood Products, Floor India, Ecogreen Flooring |
| 175. | HDPE Pipe & fittings (DWC) | SUPEREME, FINOLEX, ASTRAL |
| 176. | Concrete curing compound | SIKA, FOSROC, MAPEI |
| 177. | Epoxy based corrosion protection | IPSS, VECTOR, FOSROC |
| 178. | Shear keys | IPSS, SIKA, FOSROC |
| 179. | Zinc Anode | IPSS, VECTOR, Krishna Conchem |

For Items/Materials not covered in the list above, the 1st quality material is to be used as per the Nomenclature of items or 1st quality material of the reputed Make/Brand required to be used for execution of either agreement items or any Extra/Substituted item as per approval and direction of Engineer-in-Charge.

On Non-Judicial Stamp Paper of Minimum Rs. 100/-

(Guarantee offered by Bank to CPWD in connection with the execution of contractors) Form of Bank Guarantee for Earnest Money Desposit/ Performance Guarantee/ SecurityDeposit/Mobilization Advance

1. Whereas the Assistant Engineer, 2/N Sub-Division, CPWD on behalf of the President of India (hereinafter called "The Government") has entered into and 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 03 Months 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 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 …….

Witness:-

1. Signature …….
   Name and address

Authorized signatory
Name

Designation

Staff code no.

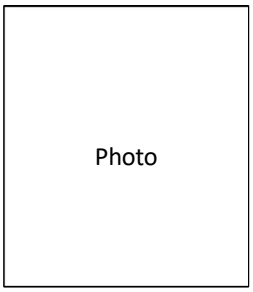
Bank seal

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 180days for two/three bid system from the date of submission of tender.

** In paragraph I, strike out the portion not applicable. Bank Guarantee will be made either for performance guarantee/security deposit/mobilization advance, as the case may

| | |
|---|---|
| NOTE:-<br><br>1. This Card is valid only for specified working place/place of duty.<br><br>2. The Contractor is fully responsible for any misuse of this card beyond duty hours/days.<br><br>3. The Contractor bears responsibility for the character of Card holder worker. | Sl. No.....<br><br>**WORKERS**<br><br>**IDENTITY CARD**<br><br>Name of Agency<br><br>with address :-<br><br>Telephone No./Mobile<br><br>Registration No. :-<br><br>VALID UPTO |

| | |
|---|---|
| Name of Worker :-<br><br>Present Address:-<br><br>Permanent Address:-<br><br>Identification Mark:-<br><br>Place of Duty | <br><br>Signature of Worker<br><br>Signature of Contractor : |

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/Man AE (P) EE

भारत सरकार
कार्यालय सहायक अभियंता(2/एन
उपमण्डल) के0लो0नि0वि0, पंडारा रोड़,
नई दिल्ली - 110003
ई–मेल : delaec2n.cpwd@nic.in

## FORM – III

[Under rule 21(2) 0f the Contract Labour (Regulation and Abolition) Central Rules, 1971; and rule 7(3) of the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Central Rules, 1980]

## Form of Certificate by Principal Employer

**Certified that:**

I have engaged the applicant M/s/Sh..... contractor in my establishment for the work of "A/R & M/O to GPRA 400 'E' Type Quarters at Pandara Road under N Division, CPWD, New Delhi during 2026-27 (Provision for Removal of Malba from Various Locations within Pandara Road Campus and Transportation by Rickshaw for Disposal at the Designated Dumping Ground, Including Cleaning Works).

1. I undertake to be bound by all the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 (37 of 1970) and the Contract Labour (Regulation and Abolition) Central Rules, 1971 / the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979 (30 of 1979) and the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Central Rules, 1980 in so far as the provisions are applicable to me in respect of the employment of contract labour/inter-state migrant workmen by the applicant in my establishment.

2. The engagement of contract labour in the said work is not prohibited under sub section (1) of section 10 of the Contract Labour (Regulation and Abolition) Act, 1970 (37 of 1970) or an award or a settlement.

Assistant Engineer
'2/N' Sub-Division, CPWD
New Delhi
Registration No. LRA/ALCNEWDELHI3/2022/R-14.
(LIN No. 2-1634-5358-8)

Place: Delhi

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/Man AE (P) EE

## SPECIAL CONDITIONS FOR PAINTING WORKS

1. Full quantity or quantity as decided by Engineer-in- Charge of the materials such as paint, Acrylic emulsion paint, Acrylic distemper etc. shall be deposited in sealed containers in advance before use. Packing size shall be decided by Engineer-in- charge.
2. The contractor shall have to get approved the brands / shades of Acrylic Distemper, Synthetic Enamel Paint, Acrylic Emulsion Paint, Exterior Paint etc. from the Engineer-in-Charge and also shall be got checked by the Engineer-in-charge or his authorized representative on receipt of it atsite before execution of same.
3. The materials required for day's work shall be issued to contractor or his authorized representative daily by the JE / AE -in-charge of the work. Any balance of the material left at end of the days of work and the empty containers shall be returned to JE / AE. The day to day issue account of the materials shall be maintained by the Junior Engineer-in-Charge and shall be signed daily by the Contractor or his authorized agent in token of receipt of the materials failing which no payment of bill shall be made to the Contractor. The empty containers shall not be removed from the siteof work without written orders of the Engineer-in-charge.
4. Before the commencement of work, the contractor shall prepare one sample as instructed by the Engineer-in-charge. After the sample is approved by the Engineer-in-Charge, the Contractor shall be allowed to commence the work and the quality of work shall confirm to the approved sample.
5. In case the Bungalows / quarters are not made available to the Contractor according to the programme, the Contractor shall not be entitled for any claim for idle labour or any other claim on any account what-so-ever.
6. No payment will be made to the Contractor for damage caused by rains during the execution of the works and no claim on this account will be entertained.
7. Scrapping shall be shown to the Assistant Engineer and got approved and test checked by him prior to painting or other finishing work.
8. To avoid disputes later on, contractor is advised to get the measurement recorded within a week's time and shall submit his bills as per relevant clauses of contract. Any dispute regarding measurement including work done shall be judged within a week's time failing which measurement, certified and recorded, shall be entertained.
9. All doors, windows, floors, furniture, electrical fittings and other articles shall be protected from dust, splashes & damage Splashes & droppings from white washing, colour washing, distempering painting etc. on walls, floors, doors and window, down take pipes / furniture shall be removed by the Contractor at his own cost and the surface cleaned simultaneously after the completion of the day's work is done, without waiting for the actual completion of the other itemsof work of the contract.
10. The Contractor shall comply with the provisions of 'Construction and Demolition Waste Management Rules, 2016' as notified by the Ministry of Environment and Forest vide notification dated 29.03.2016 (available at web address www.moef.gov.in)..
11. For some of the specific nature of work such as anti-termite treatment and waterproofing work contractors who associate specialized agencies / specialized firm executing the work give a specific guarantee that they are responsible for

removal of any defects cropping up in these works executed by them during the guarantee period.

a) **The form of the guarantee to be executed by the contractors is given as per annexureattached.**

b) **10% of the amount pertaining to anti-termite treatment and waterproofing work as security deducted from the bills of the contractors will be refunded after expiry of guarantee period in accordance with the terms of the contract in this behalf.**

12. During execution of work, water supply, installations / fittings & sanitary, installation / fittings, will be dismantled / demolished for which nothing extra shall be paid except the items already exist in the schedule of quantities (civil) attached.

13. Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been included in the items and nothing extra shall be paid on this account.

14. If in the description / nomenclature of item the thickness of board / ply is mentioned 18mm thick and manufacturer does not provide / manufacture 18mm thick board / ply then 19mm thick board / ply can be used there, for that nothing extra shall be paid on this account, viceversa.

**Agency should take extra precaution for protection of existing floor, wall, fittings, fixtures etc. nothing extra shall be paid on this account.**

# Form 'F'

## Undertaking on structural stability and soundness of already completed buildings and infrastructure Projects.

I/we undertake and confirm that any building / infrastructure constructed by our firm /partnership firm/ company has not suffered any failure, making it unfit for intended use, either due to structural design and defects or due to use of sub-standard materials or execution of sub-standard work, poor workmanship or any other reason during the last 25 (twenty five) years.

I/we, further, undertake that if such information comes to the notice of CPWD, then Engineer-in-Charge shall be free to terminate the bid/agreement and to forfeit the entire amount of earnest money deposit, performance guarantee and security deposits.

I/we, also undertake that in addition to above, the Engineer-in-Charge shall be free to debar us forever from tendering in CPWD.

The decision of Engineer-in-Charge or any higher authority shall be final and binding.

**Signature of notary with seal**

**Signature of bidder or an authorized person of the firm with stamp**

**Note: Affidavit to be furnished on a 'Non-judicial' stamp paper of Rs. 200/-(scanned copy of the notarized affidavit to be uploaded at the time of submission of bid).**

**Schedule of Quantity**

**Name of Work:-A/R & M/O to GPRA 400 'E' Type Quarters at Pandara Road under N Division, CPWD, New Delhi during 2026-27 (Provision for Removal of Malba from Various Locations within Pandara Road Campus and Transportation by Rickshaw for Disposal at the Designated Dumping Ground, Including Cleaning Works).**

| S.No. | Description | Qty | Unit | Rate | Amount |
|---|---|---|---|---|---|
| 1 | 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. | 1200.00 | cum | 263.95 | 316,740.00 |
| | | **TOTAL** | | | **316,740.00** |
| | Add correction factor on all DSR item 2023 @ 0.973 | | | | 308188.00 |
| | | **Total** | | | **308188.00** |
| | Add cost Index @ 4.03% on DSR Items | | | | 12420.00 |
| | | **Total** | | | **320608.00** |
| | | | | | |
| 2 | Providing the services of Beldars for cleaning and maintenance of Pandara Road Campus, including removal of malba lying at various locations within the campus, collection and loading of the same onto a rickshaw, transportation by rickshaw and disposal at the designated dumping ground. The work shall also include cleaning of roofs, floors, staircases, common corridors, footpaths, skirting, pucca roads, glass panes and jallis, removal of grass from roads and paver blocks, and other miscellaneous cleaning works as directed by the Engineer-in-Charge, complete in all respects. The rates shall be inclusive of all tools and plants ( Like Riskshaw, Phawda, Karni & Belcha). | 200 | per day | 1216.35 | 243270.00 |
| | | | | **TOTAL** | **563878.00** |

Assistant Engineer

2/N Sub-Division, CPWD,
New Delhi

Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, Sr. D/Man AE (P) EE