**Government of India**
**Central Public Works Department**

*Office Of The EE-I, CPWD,*
*Bangalore (Karnataka)*
**Tele phone No :-(080) 25535013, Fax No. 080-25635015)**
**Email:- eebcd1cpwd-kar@nic.in**

## Notice Inviting Tender

## NIT NO:- 47/EE/BCDI/e- Tendering/2026-27/Bangalore

**Name of Work :** Providing and laying new sewage lines in place of damaged sewage lines pipes, including construction of manholes and gully chambers at Central Excise Quarters, Madiwala, Bengaluru..

**Estimated Cost** :- **Rs. 45,65,514/-**

**EMD** :- **Rs. 91,310/-**

**Performance Guarantee:-** Performance Guarantee: (a) 5% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher). (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.

**Security Deposit** :- **2.5% of Tendered Value**

**Period of completion** :- **04 (Four) Months**

**Certified that, this Composite NIT contains 1 to 136 pages.**

**Senior D' Man** **Assistant Engineer(P)**

**APPROVED**

**Executive Engineer-I**

Insertion : Nil Correction : Nil Omission : Nil Sr. D' man AE-(P)

# PART - A

# INDEX

**NAME OF WORK:** Providing and laying new sewage lines in place of damaged sewage lines pipes, including construction of manholes and gully chambers at Central Excise Quarters, Madiwala, Bengaluru.


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It is certified that this document contains five parts i.e. Part A, Part B & Part C containing Page nos. 01 to 154.

Executive Engineer-I

Insertion : Nil Correction : Nil Omission : Nil Sr. D' man AE-(P)

## INFORMATION & INSTRUCTIONS FOR BIDDERS FOR e-TENDERING: -

**The Executive Engineer-I,** CPWD, 3rd floor, 'A' wing, Kendriya Sadan, Koramangala, Bengaluru- 560034 on behalf of President of India invites online percentage rate bids from approved Enlisted contractors of (Class-II and above) and CPWD Enlisted Contractors of [Class-III and below only SR Region Enlisting in SDG(Chennai), ADG(Kochi), ADG(Bengaluru) and ADG(Hyderabad)] for the following work:

| Sl.No. | Description | Details |
|---|---|---|
| 1 | NIT No. | **NIT No. 47/EE/BCDI/e-Tendering /2026-27/ Bangalore** |
| 2 | Name of Work & Locations | Providing and laying new sewage lines in place of damaged sewage lines pipes, including construction of manholes and gully chambers at Central Excise Quarters, Madiwala, Bengaluru. |
| 3 | Estimated Cost Put to Bid / Tender | **Rs. 45,65,514/-** |
| 4 | Earnest Money (EMD) | **Rs. 91,310/-** |
| 5 | Period of Completion | **04 (Four) Months** |
| 6 | Last date & time of online submission of bid, Copy of Receipt for Deposition of Original EMD and other documents. | **Up to 15:00 Hours on 11.11.2026** |
| 7 | Date and Time of opening of Bid | **Up to 15.30 Hours on 11.11.2026** |
| 8 | Period during which original receipt of deposition of EMD and other eligible documents shall be physically submitted in division office | Only by lowest bidder within a week (day of opening includes also) of opening of financial bid up to 15:30 Hrs. |

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 original EMD either in the Office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission and

uploading the mandatory scanned documents such as Insurance Surety Bonds, Account Payee Demand draft or Bankers Cheque or Fixed Deposit Receipts or / and Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank towards EMD in favour of Executive Engineer as mentioned in NIT, receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/AE), CPWD and other documents as specified.

5. Those contractors who are not registered or have not updated their profile on the website mentioned above, are required to get registered / update their profile beforehand. The necessary training materials including the videos with step to step process are available on download section of https://etender.cpwd.gov.in
6. The intending bidder must have valid Class-III digital signature certificate with encryption key (combo type) to perform any operations / transactions on the e-tendering portal / website and the bidder should download and install the e-M signer on their system as per instructions available on download section of https://etender.cpwd.gov.in.
7. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
8. Contractor can upload documents in the form of JPG format and PDF format.
9. Contractor must ensure to quote percentage 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) (for item rate tender only)

   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. GST, Works Contract Tax, Labour Cess and any other tax / levy etc. as applicable shall be borne by the contractor himself. The bidder shall quote his rates considering all such taxes with reasonable foresight.
11. Income tax, GST, Labour cess & other statutory deductions etc as per government laws at the time of release of payment will be deducted at source.

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

**Table - 1**

| | |
|---|---|
| i) | Enlistment Order of the Contractor in appropriate class of composite category in CPWD. |
| ii) | Scan copy of Insurance Surety Bond, Demand Draft/ Account Payee Bankers Cheque / FDR/ Bank Guarantee of any commercial Bank against EMD in favour of Executive Engineer, BCDI, CPWD, Bangalore. |
| iii) | Copy of receipt for deposition of original EMD to division office of any Executive Engineer, CPWD (including NIT issuing EE), shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format, up loaded by tender inviting EE in the NIT **(Form 'F') (Page 06)** |
| iv) | GST registration certificate, if already obtained by the bidder. lf the bidder has not obtained GST registration as applicable, then he shall scan and upload following undertaking along with bid documents. "lf work is awarded to me, l/we shall obtain GST registration certificate, **as applicable**, within one month from the date of receipt of award letter or before release of any Payment by CPWD, whichever is earlier, failing which l/we shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by CPWD or GST department in this regard". **(FORM "G') Page 07)** |
| v) | ERP training Certificate (The enlisted contractors will not be allowed to participate in tendering process without uploading the E.R.P Training Certificate). |

**Bid shall be summarily rejected if bidder fails to upload any of the above documents in proper shape.**

- **Physical submission of documents by lowest bidder.**

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

**Executive Engineer-I**

Receipt of deposition of original EMD **(FORM F)**

( Receipt No ……Date……)

1 Name of work :- Providing and laying new sewage lines in place of damaged sewage lines pipes, including construction of manholes and gully chambers at Central Excise Quarters, Madiwala, Bengaluru.

2 NIT No :- **47/EE/BCDI/e-Tendering/2026-27/Bangalore**

3 Estimated cost :- **Rs. 45,65,514/-**

4 Amount of Earnest Money Deposit :- **Rs. 91,310/- (In favour of Executive Engineer, BCDI, CPWD, Bangalore)**

5 Last date & time of submission of bid :- **11.11.2026** up to **15:00 Hrs.**

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

1) Name of contractor :-
2) Form of EMD :-
3) Amount of Earnest Money Deposit :-
4) Date of submission of EMD :-
5) EMD Document No., date and, name of issuing bank,
6) Email ID, Where EMD deposit
7) Phone No., Where EMD deposit

*Signature, Name and Designation of EMD Receiving officer (EE / AE / AAO ) Along with office stamp*

**Note:**

(i) The Executive Engineer receiving EMD in original form shall examine the EMD deposited by the bidder and shall issue a receipt of deposition of earnest money to the agency in a given format uploaded by tender inviting EE. The receipt may be issued by the AE/AAO.

(ii) The Executive Engineer receiving original EMD shall also intimate tender inviting Executive Engineer about deposition of EMD by the agency by email/ fax/telephonically.

(iii) The original EMD receiving Executive Engineer shall release the EMD after verification from the e-tendering portal website (http:/etender.cpwd.gov.in > tender free view> advance search> awarded tenders) that the particular contractor is not L-1 tenderer and work is awarded.

(iv) The tender inviting Executive Engineer will call for original EMD of the L-1 tenderer from EMD receiving Executive Engineer immediately.

**FORM 'G'**

**UNDERTAKING REGARDING GST REGISTRATION**

To.

The Executive Engineer-I
CPWD, Bangalore.

**Subject :** Providing and laying new sewage lines in place of damaged sewage lines pipes, including construction of manholes and gully chambers at Central Excise Quarters, Madiwala, Bengaluru.

Sir,

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

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

Seal of bidder.

Date of submission

Signature (s) of Bidder(s)

## CPWD-6 FOR E-Tendering

**The Executive Engineer-I,** CPWD, 3rd floor, 'A' wing, Kendriya Sadan, Koramangala, Bengaluru- 560034 on behalf of President of India invites online percentage rate bids from approved Enlisted contractors of (Class-II and above) and CPWD Enlisted Contractors of [Class-III and below only SR Region Enlisting in SDG(Chennai), ADG(Kochi), ADG(Bengaluru) and ADG(Hyderabad)] for the following work:

NIT No. : **47/EE/BCDI/e-Tendering/2026-27/Bangalore**

Name of Work :- Providing and laying new sewage lines in place of damaged sewage lines pipes, including construction of manholes and gully chambers at Central Excise Quarters, Madiwala, Bengaluru.

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

In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.

**Joint ventures / Consortium and special purpose vehicle are not accepted.**

1.1.1 The work is estimated to cost **Rs. 45,65,514/-** This estimate, however, is given merely as a rough guide.

1.1.2 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids.

For composite bid the bidders, besides indicating the percentage above/below the combined estimated cost put to bid, should also indicate the amount in word for each component separately.

The eligibility of bidder will correspond to the combined estimated cost of different components put to bid.

2. Agreement shall be drawn with the successful bidders on prescribed Form No. **CPWD 7/8 (or other Standard Form as mentioned)** which is available as a Govt. of India Publication and also available on website **www.etender.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 **04 (Four) 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.

(i) The site for the work is available.

(ii) 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.

4 The Agency shall take all Safety Precautions during execution of the work to avoid any untoward incident, including proper barricading of all the sites and installing necessary caution sign boards wherever required. The Agency shall be solely responsible for any untoward incident at the site and during transportation of men and material at site.

5 The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on websit **www.etender.cpwd.gov.in www.eprocure.gov.in free of cost.**

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

7. While submitting the revised bid, contractor can revise the rate of one or more items 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 (for Item rate tender)

8. a) Earnest money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (for balance amount as prescribed) from any of the Commercial Banks **(drawn in favour of Executive Engineer, BCDI, CPWD, Bangalore)** shall be scanned and uploaded to the e-Tendering website within the period of bid submission. **The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. (The EMD document shall only be issued from the place in which the office of receiving division office is situated).** The EMD receiving Executive Engineer shall issue a receipt of deposition of earnest money deposit to the bidder in prescribed format (of this NIT format at Page No. **06**) uploaded by tender inviting EE in the NIT.

**This receipt shall also be uploaded to the e- tendering website by the intending bidder up to the specified bid submission date and time.**

A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 lac, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any Commercial bank having **validity for a period of 90 days for single bid works and 180 days for two bid system** or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

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

week physically in the office of tender opening authority (The week i/c the day of opening of bid) A check list for Bidders for documents has been given at page 6 of this NIT.

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

**Online bid documents submitted by intending bidders shall be opened only of those bidders, whose original EMD deposited with any division of CPWD and other documents scanned and uploaded are found in order.**

The bid submitted shall be opened at **15:30 Hrs on 11.11.2026**

**9 The Contractors registered prior to 01.04.2015 on e-tendering portal of CPWD shall have to deposit tender processing fee at existing rates, or they have option to switch over to the new registration system without tender processing fee any time**

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

(i) The bidder is found ineligible.

(ii) The bidder does not upload scanned copies of all the documents (including Certificate of Registration for GST and acknowledgement of up to date filed returns as per NIT stipulations.) as stipulated in the bid document including the copy of receipt for deposition of original EMD.

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

(iv) If a tenderer quotes Nil rates 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: (a) 5% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher). (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount. 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 (in case guarantee amount is less than Rs. 1,00,000/-) 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/registration or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. if applicable and also ensure the compliance of aforesaid provisions by the subcontractors, if any engaged by the contractor for the said work and Programme Chart (Time and Progress) within the period specified in Schedule F**

12. The description of the work is as follows: Providing and laying new sewage lines in place of damaged sewage lines pipes, including construction of manholes and gully chambers at Central Excise Quarters, Madiwala, Bengaluru.

Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidders shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidders implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.

14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.

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

16. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

17. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a Person who had not obtained the permission of the Government of India as aforesaid before Submission of the bid or engagement in the contractor's service.

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

(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 bidders / contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-

    (a) The Notice Inviting Bid, all the documents including additional conditions, specifications
    and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.

    (b) Standard C.P.W.D. Form 7

20. The intending bidders are required to update their profile in CPWD e- tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile / uploading tender can be resolved through the concerned Executive Engineer/ Assistant Engineer or ERP help line no. 18001803286 or e-mail id cpwd.support@techmahindra.com. The e-tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest.

Executive Engineer-I
CPWD, Bangalore.

| CPWD – 7 | CPWD |
|---|---|

**GOVERNMENT OF INDIA**
**CENTRAL PUBLIC WORKS DEPARTMENT**

**PERCENTAGE RATE TENDER & CONTRACT FOR WORK: -**

**Tender for the work of** : Providing and laying new sewage lines in place of damaged sewage lines pipes, including construction of manholes and gully chambers at Central Excise Quarters, Madiwala, Bengaluru.

(i) To be uploaded online by **15:00** Hrs. on **11.11.2026** to Executive Engineer-I, Central P.W.D., Bangalore. by uploading at http:/etender.cpwd.gov.in/cpwd

(ii) To be opened in presence of tenderers who may be present at **15.30** Hrs on **11.11.2026** in the office of the Executive Engineer-I, CPWD, Bangalore-560034.

**TENDER**

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

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

I/We agree to keep the tender open for **Thirty (30) days** from the due date of its opening in case of single bid system (strike out as the case may be) and not to make any modification in its terms and conditions.

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

A copy of earnest money deposit receipt of prescribed amount deposited in the form Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (for balance amount as prescribed) from any of the Commercial Banks is scanned and uploaded (strike out as the case may be). If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money

absolutely. Further, if I/We fail to commence work as specified, I/ We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, beat liberty 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 Clause12.2 and 12.3 of the tender form.

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

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

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

Dated:

Signature of Contractor
Witness:
Postal Address

Address:

Occupation:

**A C C E P T A N C E**

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

(Rupees.....

.....

.....

.....)

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

(a)

(b)

(c)

For & on behalf of the President of India.

Signatures.....

Dated:

Designation.....

| **PROFORMA OF SCHEDULES (CIVIL WORKS)**<br>(Separate Pro-forma for Civil, Elect. & Hort. Works in case of Composite e-bids) | |
|---|---|
| **SCHEDULE 'A'**<br>Schedule of quantities (as per PWD-3) | = **As per enclosed SOQ** |
| **SCHEDULE 'D'**<br>Extra schedule for specific requirements / document for the work, if any. | As per Tender documents |
| **SCHEDULE 'E'**<br>Reference to General Conditions of contract : | GCC 2023, **Maintenance works** CPWD form 7 as modified & corrected up to previous day of the last date of submission of tender |
| Name of work | Providing and laying new sewage lines in place of damaged sewage lines pipes, including construction of manholes and gully chambers at Central Excise Quarters, Madiwala, Bengaluru. |
| Estimated cost of work | **Rs. 45,65,514/-** |
| Earnest money | **Rs. 91,310/-** |
| Performance guarantee | **Performance Guarantee: (a) 5% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher). (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.** |
| Security deposit | **2.5% of tendered value.** |
| **SCHEDULE 'F'** | |
| **GENERAL RULES & DIRECTIONS:** Officer inviting tender | Executive Engineer-I, CPWD, Bangalore. |
| Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3: | See below |
| **DEFINITIONS:** | |

| | |
|---|---|
| 2(vi) Engineer-in-Charge | Executive Engineer-I, CPWD, Bangalore. |
| 2(viii) Accepting Authority | Competent authority as per delegated financial powers of CPWD |
| 2(x) Percentage on cost of materials and labour to cover all overheads and profits: | 15% |
| 2(x) (b) Standard Schedule of Rates | D.S.R. 2023 with correction slips issued up to previous day of the last date of submission of tender |
| 2(xi) Department | Central Public Works Department. |
| 9(ii) Standard CPWD Contract Form | GCC 2023, **Maintenance works**, CPWD form 7 as modified & corrected up to previous day of the last date of submission of tender |
| **Clause 1** | |
| (i) Time allowed for submission of performance guarantee, programme chart (time and progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance. | 07 days |
| (ii) Maximum allowable extension with late fee at 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 | Chief Engineer (B), CPWD, Bangalore or successor thereof. |
| ~~**Clause 2A**~~ | |
| ~~Applicable Clause2~~ | ~~Clause 2~~ |
| ~~**Clause 2A**~~ | ~~Not applicable~~ |
| **Clause 5** | |
| Number of days from the date of issue of letter of acceptance for reckoning date of start | 07 days |

**Mile Stones are as per Table given below:-**

| S. No | Financial progress | Time allowed in days (from date of start) | Amount to be withheld in case of non-achievement of milestone |
|---|---|---|---|
| 1. | 1/8th (of whole work) | 1/4th (of whole work) | In the event of not achieving the necessary progress as assessed from the running payments, 1.25% of the tender value of work will be withheld for failure in case of non achievement of each milestone / rescheduled milestone subjected to maximum amount shall not exceed 5% of tendered value of the work. |
| 2. | 3/8th (of whole work) | 1/2 (of whole work) | |
| 3. | 3/4th (of whole work) | 3/4th (of whole work) | |
| 4. | Full | Full | |

**The Contractor shall submit a Programme Chart (Time and Progress) for each milestone along with performance guarantee.**

| | |
|---|---|
| Time allowed for execution of work | **04 (Four) Months** |
| **Authority to decide**: | |
| (i) Extension of time | Executive Engineer-I, CPWD, Bangalore Or success or thereof |
| (ii) Rescheduling of mile stones | Executive Engineer-I, CPWD, Bangalore Or success or thereof |
| (iii) Shifting of date of start in case of delay in handing over of site | Executive Engineer-I, CPWD, Bangalore Or success or thereof |

**Proforma of Schedules Clause 5 Schedule of handing over of site**

| **Part** | **Portion of Site** | **Description** | **Time Period for handing over reckoned from date of issue of letter of intent** |
|---|---|---|---|
| Part A | Portion without any hindrance- | Entire site | 07 days |
| Part B | Portions with encumbrances- | | |
| Part C | Portions dependent on work of other agencies | Nil | Not Applicable |
| **Clause 5** Applicable Clause 5 / 5A | | | Clause 5 |
| **Clause 5.3** Nature of Hindrance Register (Either Physical or Electronic) | | | Physical /Electronic |
| **Clause 5.4** | | | Not applicable |

| Schedule of rate of recovery for delay in submission of the modified programme in terms of delay days | | |
|---|---|---|
| **S.No** | **Contract Value** | **Recovery (Rupees)** |
| I. | More than Rs 1 Crore but less than or equal to Rs 5 Crore | 1000 |
| II. | More than Rs 5 Crore but less than or equal to Rs 20 Crore | 2500 |
| III. | More than Rs 20 Crore | 5000 |

| | |
|---|---|
| **Clause 6** | |
| **(i)** Mode of measurement: CMB / EMB<br>Note:- One option to be kept by NIT approving authority. | EMB / CMB |
| **Clause 7** | |
| Gross work to be done together with net payment / adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment | **Rs 11.50 Lakhs (**Reasonable part thereof to facilitate progress of work direction of Engineer-in-Charge.) |
| **Clause 7A**<br>Whether Clause 7A shall be applicable | Yes |
| **Clause 8**<br>Competent authorities to inspect and issue completion certificate | Engineer-in-charge |
| **Clause 10A** | **List of testing equipment to be provided by the contractor at site lab.**<br>**As per [TABLE-1] of Appendix-I attached** |
| **Clause 10B(ii)**<br>Whether Clause 10 B (ii) shall be applicable | No |
| **Clause 10C** | **Applicable** |
| Component of labour expressed as percent of value of civil work | **25%** |
| **Clause 10 CC** | **Not Applicable** |
| Schedule of component of other Materials, Labour etc. for price | |

| | |
|---|---|
| escalation. | |
| Component of civil (except materials covered under clause 10CA) /Electrical construction | Xm _____ % |
| value of work. - | |
| Component of Labour - expressed as percent of total value of work | Y ..... % |
| **Note :** Xm .....% should be equal to (100) - (materials covered under clause 10CA i.e. Cement, Steel, POL and other material specified in clause 10CA + Component of Labour) | |
| **Clause 11** | |
| Specifications to be followed for execution of work | CPWD Specifications 2019 (Civil works), Volume-I and II with correction slips issued up to previous day of the last date of submission of e-bid (Herein after called CPWD specifications also) and manufacturer's specification wherever applicable. |
| **Clause 12** | |
| Deviation Limit beyond which clauses 12.2 shall apply for building work | **All the deviated quantities shall be paid at agreement rates.** |
| **Clause 16** | |
| Competent authority for deciding reduced rates. | Chief Engineer (B), CPWD, Bangalore Or successor thereof. |
| **Clause 18** | |
| List of machinery, tools & plants to be deployed by the contractor at site:- | **As per appendix -I (table 1 & 2)** |
| **Clause 19C** | Executive Engineer-I, CPWD, Bangalore Or success or thereof |
| **Clause 19D** | Executive Engineer-I, CPWD, Bangalore Or success or thereof |
| **Clause 19G** | Executive Engineer-I, CPWD, Bangalore Or success or thereof |
| **Clause 19K** | Executive Engineer-I, CPWD, Bangalore Or success or thereof |
| **Clause – 25** | |
| Conciliator | The Additional Director General, RB, CPWD, Bangalore |

| | |
|---|---|
| Arbitrator Appointing Authority | The Chief Engineer (B), CPWD, Bangalore |
| Place of Arbitration | Bangalore |

**Clause 32 Requirement of Technical Representative(s) and Recovery rate.**

| Sl. No | Minimum Qualification of Technical Representative | Discipline | Designation (Principal /Technical Representative) | Minimum Experience | Number | Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36 (i) | |
|---|---|---|---|---|---|---|---|
| | | | | | | Figures | Words |
| 1 | Graduate Engineer or Diploma Engineer | Civil | Principal technical representative (Project / Planning / Site / billing Engineer). | 2 years or 5 years | 1 | Rs. 15,000/- Per month | (Rupees Fifteen Thousand Only) Per month |

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

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

| **Clause 38** | | |
|---|---|---|
| (i) | Schedule/ statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2019 with up to date correction slips. | D.S.R. 2023 with correction slips up to previous day of last date of submission of tender. |
| (ii) | Variations permissible on theoretical quantities: | |
| (a) | Cement for works with estimated cost put to tender not more than Rs. 5 lakh. | 3% plus/minus |
| | For works with estimated cost put to tender more than Rs.5 lakh. | 2% plus/ minus |
| (b) | Bitumen all works | 2.5% plus & only & nil on |

| | | |
|---|---|---|
| | | minus side |
| (c) | Steel reinforcement and structural steel sections for each diameter, section and category | 2% plus/ minus |
| (d) | All other materials. | Nil |

- **RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION:**

| Sr. No. | Description of Item | RATES IN FIGURES AND WORDS AT WHICH RECOVERY SHALL BE MADE FROM THE CONTRACTOR | |
|---|---|---|---|
| | | Excess Beyond permissible variation | Less use Beyond Permissible Variation |
| 1 | N.A. | | |
| 2 | N.A. | | |

*Subject to acceptance of quality of work by the Competent Authority.

## Appendix – I

## (TABLE-1)

### Equipments for Testing of Materials & Concrete at Site Laboratory

All necessary equipment for conducting all necessary tests shall be provided at the site laboratory by the contractor at his own cost. The following minimum laboratory equipments shall be set up at site office laboratory:

| Sl. No. | Equipment | Numbers (Minimum) |
|---|---|---|
| 1. | Slump cone | As per requirement of work & Direction of Engineer-in-Charge |
| 2 | Pumps and pressure gauges for hydraulic testing of pipes | |
| 3 | Graduated glass cylinder | |
| 4 | Sets of sieves for coarse aggregate [40; 20; 12.5, 10; 4.75, 2.36 mm] | |
| 5 | Sets of sieves for fine aggregate [4.75mm; 2.36mm; 1.18mm; 600 micron; 300 micron & 150 micron] | |
| 6 | Cube moulds size 150mmx150mmx150mm | |
| 7 | Electronic balance 100 kg capacity | |
| 8 | Physical balance weight up to 5 kg | |
| 9 | Measuring jars 100ml, 200ml, 500ml | |
| 10 | Vernier calipers 12” & 6” size | |
| 11 | Digital Micrometer least count. 0.01mm | |
| 12 | Rebound hammer test digital rebound hammer | |
| 13 | Screw gauge 0.1mm-10mm, least count 0.05 | |
| 14 | Theodolite | |

**(TABLE-2)**

**PLANT AND EQUIPMENT REQUIRED TO BE OWNED / TAKEN ON LEASE BY THE CONTRACTOR**

| Sl. No. | Equipment | Numbers (Minimum) |
|---|---|---|
| 1 | Machinery as required for completion of the work. | As per actual requirement of work & direction of Engineer-in-Charge |
| 2 | Mini batching Weigh mixer | |
| 3 | Needle Vibrators. | |
| 4 | Plate Vibrators. | |
| 5 | Dumper. | |
| 6 | Reinforcement bending machine. | |
| 7 | Reinforcement cutting machine. | |
| 8 | Power driven earth rammer. | |
| 9 | Auto level & staff. | |
| 10 | Tractor with trolley. | |
| 11 | Water tanker. | |
| 12 | Steel Scaffolding | |

**Note:** The above list is only indicative and not exhaustive.

# PART - B

# Special/ Additional Conditions & Particular Specifications

## SPECIAL / ADDITIONAL CONDITIONS FOR CIVIL WORK

### 1. GENERAL

1.1 The Contractors are advised to inspect and examine the site and its surroundings and satisfy themselves with the nature of site, the means of access to the site, constraints put by local regulations, if any, weather conditions at site, general ground / subsoil conditions etc. or any other circumstances which may affect or influence their tenders. The Contractor shall carry out survey of the work area, at his own cost, setting out the layout and fixing of alignment of the building as per architectural and Structural drawings in consultation with the Engineer-in-Charge. Any discrepancy between the architectural drawings and actual layout at site shall be brought to the notice of the Engineer-in-charge. It shall be responsibility of the Contractor to ensure correct setting out of alignment. Nothing extra shall be payable on this account. No claims, whatsoever, shall be entertained at a later date for any errors found, on plea that the information supplied by the Department in the tender is insufficient or is at variance with the actual site conditions.

1.2 The nomenclature of the item given in the schedule of quantities gives in general the work content but is not exhaustive i.e. does not mention all the incidental works required to be carried out for complete execution of the item of work. The work shall be carried out, all in accordance with true intent and meaning of the specifications and the drawings taken together, regardless of whether the same may or may not be particularly shown on the drawings and/or described in the specifications, provided that the same can be reasonably inferred. There may be several incidental works, which are not mentioned in the nomenclature of each item but will be necessary to complete the item in all respects. All these incidental works / costs which are not mentioned in item nomenclature but are necessary to complete the item shall be deemed to have been included in the rates quoted by the contractor for various items in the schedule of quantities. No adjustment of rates shall be made for any variation in quantum of incidental works due to variation / change in actual working drawings. Also, no adjustment of rates shall be made due to any change in incidental works or any other deviation in such element of work (which is incidental to the items of work and are necessary to complete such items in all respects) on account of the directions of Engineer-in-Charge. Nothing extra shall be payable on this account.

1.3 The work shall generally be carried out in accordance with the "CPWD Specifications 2009 Vol. I & II" with up to date correction slips, additional/Particular Specifications, architectural /Structural drawings and as per instructions of Engineer-in-Charge. Any additional item of the work, if taken up subsequently, shall also confirm to the CPWD/other relevant specifications as mentioned above.

1.4 In case of any difference or discrepancy between the description of items as given in the schedule of quantities, particular specifications for individual items of work (including special conditions) and I.S. Codes etc., the following order of preference shall be observed

Description of items as given in Schedule of quantities

(ii) Particular specifications
(iii) Special conditions
(iv) Additional Conditions
(v) Tender drawings attached
(vi) CPWD Specifications
(vii) General Conditions of Contract for CPWD works
(viii) I.S. Codes
(ix) ASTM, BS, or other foreign origin code mentioned in tender document
(x) Decision of Engineer-in-Charge
(xi) Sound Engineering practices or well established local construction practices

1.5. The work shall be carried out in accordance with the Good for Construction 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 from there 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 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 authorities. No extra payment shall be made on this account.

1.7 The Contractor shall make all necessary arrangements for protecting from rains, fog or likewise extreme weather conditions, the work already executed and for carrying out the further work, during monsoon including providing and fixing temporary shelters, protections etc. Nothing extra shall be payable on this account. Also, no claims for

hindrance shall be entertained on this account.

1.8 In case of flooding of site on account of rain or any other cause and any consequent damage, whatsoever, no claim financially or otherwise shall be entertained not withstanding any other provisions elsewhere in the contract agreement. Also, the Contractor shall make good, at his own cost, the damages caused, if any. Further, no claims for hindrance shall be entertained on this account.

1.9 The Contractor shall do proper sequencing of the various activities by suitably staggering the activities within various pockets in the plot so as to achieve early completion. The agency may deploy adequate equipment, machinery and labour as required for the completion of the entire work within the stipulated period specified. Also ancillary facilities shall be provided by contractor commensurate with requirement to complete the entire work within the stipulated period. Nothing extra shall be payable on this account. Adequate number/sets of equipment in working condition, along with adequate stand-by arrangements, shall be deployed during entire construction period. It shall be ensured by the Contractor that all the equipment, Tools & Plants, machineries etc. provided by him are maintained in proper working conditions at all times during the progress of the work and till the completion of the work. Further, all the constructional tools, plants, equipment and machineries provided by the Contractor, on site of work or his work shop for this work, shall be exclusively intended for use in the construction of this work and they shall not be shifted / removed from site without the permission of the Engineer-in-Charge.

1.10 **Royalty** at the prevalent rates shall be paid by the Contractor or the RMC supplier as per the terms of supply between them, on all materials such as boulders, metals, all sizes stone aggregates, brick aggregates, coarse and fine sand, moorum, river sand, gravels and bajri etc. collected by him for the execution of the work, directly to the revenue authority of the state government concerned. Further, contractor needs to submit proof of submission of full royalty to the state government or local authority. Nothing extra shall be payable on this account.

1.11 **PRESERVATION AND CONSERVATION MEASURES**

i) Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor, at his own expense, for which nothing is payable. 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.

ii) All fossils, coins, articles of value of antiquity, structures and other remains or things of geological or archaeological interest discovered on project location during excavation/construction shall be the property of the Government, and shall be dealt with as per provisions of the relevant legislation. The contractor will take reasonable precaution to prevent his workmen or any other persons from removing and damaging any such article or thing. He will, immediately upon discovery thereof and before removal acquaint the Engineer-in-charge of such discovery and carry out the official instructions of Engineer-in-charge for dealing with the same, till then all work shall be carried out in a way so as not to disturb/ damage such article or thing.

## 1.12 **RESPONSIBILITY**

i) The Contractor shall keep himself fully informed of all relevant acts and laws of the Central & State Governments, orders, decrees of statutory bodies, tribunals having any jurisdiction or authority, which in any manner may affect those engaged or employed and anything related to carrying out the work. All the rules & regulations and bye-laws laid down by District Collector / Local Authority and any other statutory bodies shall be adhered to, by the contractor, during the execution of work. The Contractor shall also adhere to all traffic restrictions notified by the local authorities. The water charges (for municipal water connection as well as tanker water) shall be borne by the contractor. Also, if the contractor obtains water connection for the drinking purposes from the municipal authorities or any other statutory body, the consequent sewerage charges shall be borne by the contractor. All statutory taxes, levies, charges (including water and sewerage charges, charges for temporary service connections and / or any other charges) payable to such authorities for carrying out the work, shall be borne by the Contractor. The Contractor shall arrange to give all notices as required by any statutory / regulatory authority and shall pay to such authority all the fees that is required to be paid for the execution of work. He shall protect and indemnify the Department and its officials & employees against any claim and /or liability arising out of violations of any such laws, ordinances, orders, decrees, by himself or by his employees or his authorized representatives. Nothing extra shall be payable on these accounts.

ii) The Contractor shall assume all liability, financial or otherwise in connection with this contract and shall protect and indemnify the Department from any and all damages and claims that may arise on any account. The Contractor shall indemnify the Department against all claims in respect of patent rights, royalties, design, trademarks of name or other protected rights, damages to adjacent buildings, roads or members of public, in course of execution of work or any other reasons whatsoever, and shall himself defend all actions arising from such claims and shall indemnify the Department in all respect from such actions, costs and expenses. Nothing extra shall be payable on this account.

## 1.13 CO-OPERATION WITH OTHER CONTRACTORS / SPECIALIZED AGENCIES / SUBCONTRACTORS

i) The Contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupants of the adjacent properties and to the public in general .The Contractor shall take all care, as not to damage any other adjacent property or other services running adjacent to the plot. If any damage is done, the same shall be made good by the Contractor at his own cost and to the entire satisfaction of the Engineer-in-Charge. The Contractor shall use such methodology and equipments for execution of the work, so as to cause minimum environmental pollution of any kind during construction, to have minimum construction time and minimum inconvenience to road users and to the occupants of the buildings on the adjacent plot and public in general, etc. He shall make good at his own cost and to the entire satisfaction of the Engineer in Charge any damage to roads, paths, cross drainage works or public or private property whatsoever caused, due to the execution of the work or by traffic brought thereon, by the Contractor. Further, the Contractor shall take all precautions to abide by the environmental related restrictions imposed by Bangalore state Pollution control board, Govt. of Bangalore as well as prevent any pollution of streams, ravines, river bed and waterways. All waste or superfluous materials shall be transported by the Contractor, entirely to the satisfaction of the Engineer-in-Charge. Utmost care shall be taken to keep the noise level to the barest minimum so that no disturbance as far as possible is caused to the occupants / users of adjoining buildings. No claim what so ever on account of site constraints mentioned above or any other site constraints, inadequate availability of skilled, semi-skilled or unskilled workers in the near vicinity, non-

availability of construction machinery spare parts and any other constraints not specifically stated here, shall be entertained from the Contractor. Therefore, the Tenderers are advised to visit site and get first-hand information of site constraints. Accordingly, they should quote their tenders. Nothing extra shall be payable on this account.

ii) The Contractor shall cooperate with and provide the facilities to the sub-Contractors and other agencies working at site for smooth execution of the work. The contractor shall indemnify the Department authorities against any claim(s) arising out of such disputes. The Contractor shall :

a) Allow use of scaffolding, toilets, sheds etc.
b) Properly co-ordinate their work with the work of other Contractors.
c) Provide control lines and benchmarks to his Sub-Contractors and the other Contractors.
d) Provide electricity and water at mutually agreed rates.
e) Provide hoist and crane facilities for lifting material at mutually agreed rates.
f) Co-ordinate with other Contractors for leaving inserts, making chases, alignment of services etc. at site.
g) Adjust work schedule and site activities in consultation with the Engineer-in-Charge and other Contractors to suit the overall schedule completion.
h) Resolve the disputes with other Contractors/ sub-contractors amicably and the Engineer-in-Charge shall not be made intermediary or arbitrator.

iii) The work should be planned in a systematic manner so as to ensure proper co-ordination of various disciplines viz. sanitary & water supply, drainage, rain water harvesting, electrical, firefighting, information technology, communication & electronics and any other services.

1.14 **SPECIALIZED AGENCIES**

i) The contractor has to engage one of the approved agencies as mentioned in the list of specialized work. The main contractor shall not change the specialized agency. However, if the change is warranted, he may do so, with permission of Engineer-in charge. Nothing extra shall be payable on this account.

ii) It shall be the responsibility of main contractor to sort out any dispute / litigation with the Specialized Agencies without any time & cost overrun to the Department. The main contractor shall be solely responsible for settling any dispute / litigation arising out of his agreement with the Specialized Agencies. The contractor shall ensure that the work shall not suffer on account of litigation/

dispute between him and the specialized agencies. No claim of hindrance in the work shall be entertained from the Contractor on this account. No extension of time shall be granted and no claim what so ever, of any kind, shall be entertained from the Contractor on account of delay attributable to the selection/rejection of the Specialized Agencies or any dispute amongst them

iii) The tenderer shall associate specialized agencies, who have satisfactorily completed three specialized works of similar nature of each costing not less than amount equal to 40% of tendered amount of corresponding specialized item, or two specialized works of similar nature each costing not less than amount equal to 60% of tendered amount of corresponding specialized item or one similar work costing not less than amount equal to 80% of tendered amount of corresponding specialized item during the last seven years ending on the last day of the month previous to the one in which the tenders are invited. The value of executed similar works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum calculated from the date of completion to the last day of the month previous to the one in which the tenders are invited.

1.15 The rates quoted by the tenderer, shall be firm and inclusive of all taxes and levies (**including works contract tax and GST**).

1.16 For completing the work in time, the Contractor might be required to work in two or more shifts (including night shifts). No claim whatsoever shall be entertained on this account, not with-standing the fact that the Contractor may have to pay extra amounts for any reason, to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour and other statutory bodies regulations and the agreement entered upon by the Contractor with them.

1.17 All material shall only be brought at site as per program 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.

1.18 **SAFETY PRACTICES**

i) **WARNING/ CAUTION BOARDS**: All temporary warning / caution boards / glow signage display such as "Construction Work in Progress", "Keep Away", “No Parking”, Diversions & protective Barricades etc. shall be provided and displayed during day time by the Contractor, wherever required and as directed by the Engineer-in-Charge. These glow signage and red lights shall be suitably illuminated during night also. The Contractor shall be

solely responsible for damage and accident caused, if any, due to negligence on his part. Also he shall ensure that no hindrance, as far as possible, is caused to general traffic during execution of the work. This signage shall be dismantled & taken away by the Contractor after the completion of work, only after approval of the Engineer – in – Charge. Nothing extra shall be payable on this account.

ii) **SIGN BOARDS**: The Contractor shall provide and erect a display board of size and shape as required and paint over it, in a legible and workman like manner, the details about the salient features of the project, as required by the Engineer-in-Charge. The Contractor shall fabricate and put up a sign board in an approved location and to an approved design indicating name of the project, client / owner, architects, structural consultants, Department etc. besides providing space for names of other Contractors, Sub-Contractors and specialized agencies. Nothing extra shall be payable on this account.

iii) Necessary protective and safety equipments shall be provided to the Site Engineer, Supervisory staff, labour and technical staff of the contractor by the Contractor at his own cost and to be used at site.

iv) No inflammables including P.O.L shall be allowed to be stored in huge quantity at site. Only limited quantity of P.O.L may be allowed to be stored at site subject to the compliance of all rules / instructions issued by the relevant authorities and as per the direction of Engineer -in- Charge in this regard. Also all precautions and safety measures shall be taken by the Contractor for safe handling of the P.O.L products stored at site. All consequences on account of unsafe handling of P.O.L shall be borne by the Contractor.

## 1.19 **QUALITY ASSURANCE**

i) All material to be used in the work shall bear ISI certification mark unless otherwise the make is specified in the SOQ, list of approved makes and other conditions / specifications, appended with this tender document. In case ISI mark materials or the materials mentioned in the tender documents are not available, the material to be used shall conform to CPWD specifications applicable to these tender and / or national / international codes as approved by

Engineer-in-Charge. In such cases, the Engineer-in charge shall satisfy him about the quality of such materials and give his approval in writing. Only articles classified, as first quality by the manufacturers / suppliers shall be used in the work, unless otherwise specified. All materials not having ISI mark, if allowed to be used in the work by Engineer-in-Charge, shall be tested as per relevant specifications, as approved by the Engineer-in-Charge. In all cases of use of ISI marked materials, proper proof of procurement of materials from authentic manufacturers shall be provided by the Contractor to the entire satisfaction of Engineer in charge.

ii) The Contractor shall make available, on request from the Department, the copies of challan, cash memos, receipts and other certificates, if any, vouchers towards the quantity and quality of various materials procured for the work and the same shall be kept in record. The Contractor shall also provide information and necessary documentation on the name of the manufacturer, manufacturer's product identification, manufacturer's instructions, warning, date of manufacturing and test certificates (from manufacturers for the product for each consignment delivered at site), shelf life, if any etc., for the department to ensure that the material have been procured from the approved source and is of the approved quality, as directed by the Engineer-in-Charge. Wherever specified, day-to-day account of receipt of such material shall be maintained at site of work and shall be regulated by the department.

iii) 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. 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.

iv) During the supervision of work by CPWD engineers, deficiencies, shortcomings, inferior workmanship pointed out by them shall also be made good by necessary improvement, rectification, replacement upon receipt of instructions from Engineer in Charge up to his complete satisfaction. Special attention shall be inevitable towards line and level of internal and external plastering, exposed smooth surface of RCC members by providing fresh shuttering plates rubberized linings to all the shuttering joints, accurate joinery work in wooden doors and windows, thinnest joints in stone/ tiling /

cladding work, non-hollowness in floor and dado tiles work, protection of scratches over flooring by impounding layer of plaster of Paris, water tight pipe linings, absence of hollow vertical joints in brick masonry, proper compaction of filled up earth etc to achieve an Institution of International standards and up keeping of quality assurance shall be of paramount importance.

v) The Contractor shall submit, within 20 days after the date of award of work, a detailed and complete method statement for the execution, testing and Quality Assurance, of such items of works, as directed by the Engineer-in-Charge. All the materials to be used in the work, to give the finished work complete in all respects, shall comply with the requirements of the specifications and shall pass all the tests required as per specifications as applicable or such specifications / standards as directed by the Engineer-in-Charge. However, keeping the Quality Assurance in mind, the Contractor shall submit, on request from the Engineer-in-Charge, his own Quality Assurance procedures for basic materials and such items, to be followed during the execution of the work, for approval of the Engineer-in-Charge.

vi) 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 suggested list of brand names given in the tender document / particular specifications for approval of Engineer-In-Charge. For all other items, materials and fittings of ISI Marked 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.

vii) The Contractor shall procure and provide all the materials from the manufacturers / suppliers as per the list attached with the tender documents, as per the item description and particular

specifications for the work. The equivalent brand for any item shall be permitted to be used in the work, only when the specified make is not available. This is, however, subject to documentary evidence produced by the contactor for non-availability of the brand specified and also subject to independent verification by the Engineer-in-Charge. In exceptional cases, where such approval is required, the decision of Engineer- in-Charge as regards equivalent make of the material shall be final and binding on the Contractor. No claim, whatsoever, of any kind shall be entertained from the Contractor on this account. Nothing extra shall be payable on this account. Also, the material shall be procured only after written approval of the Engineer-in-Charge.

viii) All materials whether obtained from Govt. stores 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.

ix) The tests, as necessary, shall be conducted in the laboratory approved by the Engineer– in-Charge. The samples shall be taken for carrying out all or any of the tests stipulated in the particular specifications and as directed by the Engineer-in-Charge or his authorized representative.

x) The Contractor shall at his own risk and cost make all arrangements and shall provide all such facilities including material and labour, the Engineer-in-Charge may require for collecting, preparing, forwarding the required number of samples for testing as per the frequency of test stipulated in the contract specifications or as considered necessary by the Engineer-in-Charge, at such time and to such places, as directed by the Engineer-in- Charge. Nothing extra shall be payable for the above.

xi) The Contractor or his authorized representative shall associate in collection, preparation, forwarding and testing of such samples. In case he or his authorized representative is not present or does not associate him, the result of such tests and consequences thereon shall be binding on the Contractor .The Contractor or his authorized representative shall remain in contact with the Engineer-in–Charge or his authorized representative associated for all such operations. No claim of payment or claim of any other kind, whatsoever, shall be entertained from the Contractor.

xii) 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 and their measurements in computerized measurement book duly test checked shall be deposited with Engineer in charge or his authorized representative, prior to hiding these items.

xiii) Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should conform to byelaws 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.

xiv) 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.

xv) The contractor shall have to execute guarantee bonds in respect of water proofing works as per Proforma enclosed.

xvi) The Contractor shall depute Site Engineer & skilled workers as required for the work. He shall submit organization chart along with details of Engineers and supervisory staff. It shall be ensured that all decision making powers shall be available to the representatives of the Contractor at Bangalore itself to avoid any likely delays on this account. The Contractor shall also furnish list of persons for specialized works to be executed for various w o r k . The Contractor shall identify and deploy key persons having qualifications and experience in the similar and other major works, as per the field of their expertise. If during the course of execution of work, the Engineer-in-Charge is of the opinion that the deployed staff is not sufficient or not well experienced; the Contractor shall deploy more staff or better-experienced staff at site to complete the work with quality and in stipulated time limit.

xvii) The Contractor shall maintain all the work in good condition till the completion of entire work. The Contractor shall be responsible for and shall make good, all damages and repairs, rendered necessary due to fire, rain, traffic, floods or any other causes. The Engineer-in-Charge shall not be responsible for any claims for injuries to

person/workmen or for structural damage to property happening from any neglect, default, want of proper care or misconduct on the part of the Contractor or of any other of his representatives, in his employment during the execution of the work. The compensation, if any, shall be paid directly to the Department / authority / persons concerned, by the Contractor at his own cost.

1.20 The Contractor shall arrange electricity at his own cost for testing of the various civil installations as directed by Engineer-in-Charge and for the consumption by the contractor for executing the work. Also all the water required for testing various civil installations and also testing water supply, sanitary and drainage lines, water proofing of underground sump, overhead tanks, water proofing treatment etc. shall be arranged by the contractor at his own cost. Nothing extra shall be payable on this account.

1.21 The Contractor should own constructions equipment as per list required for the proper and timely execution of the work. Nothing extra shall be paid on this account.

1.22 The Contractor will deploy sufficient number of Technical and Administrative employees for the proper execution of the contract. The bidder should submit a list of these employees stating clearly how these would be involved in this work.

1.23 **SUBMISSION AND DOCUMENTATION**

i) The Contractor shall display all permissions, licenses, registration certificates, bar charts, other statements etc under various labour laws and other regulations applicable to the works, at his site office.

ii) The contractor shall make available 2 sets of computerized standard measurement books of each bill in the office for record purpose. Nothing extra shall be payable on this account.

1.24 **PROGRAM CHART:**

i) The Contractor shall prepare an integrated program chart within fifteen days of issue of award letter including civil as well as E & M activities 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 program within the stipulated period and submit the same for approval of the Engineer-In-Charge within fifteen days of the award of the work. These shall be submitted by the contractor through electronic media besides forwarding hard copies of the same. The integrated program chart so submitted should not have any discrepancy with the physical

milestones attached in the contract agreement. The program chart should include the following: -

a) Descriptive note explaining sequence of various activities.

b) In case of non compliance/delay in compliance in this, a penalty @ Rs. 5000/- per day will be imposed which will be recovered from the immediate next R/A Bill of the Contractor.

c) Program for procurement of materials by the contractor.

d) Program for arranging and deployment of manpower both skilled and unskilled so as to achieve targeted progress.

e) Program of procurement of machinery/equipment having adequate capacity, commensurate with the quantum of work to be done within the stipulated period, by the contractor.

f) Program for achieving fortnightly micro milestones and periodic milestones.

g) If at any time, it appears to the Engineer-In-Charge that the actual progress of work does not conform to the approved program referred above, the contractor shall produce a revised program showing the modifications to the approved program by additional inputs to ensure completion of the work within the stipulated time.

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

ii) Apart from the above integrated program chart, the contractor shall be required to submit fortnightly progress report of the work in a computerized form on 1st and 16th of every month. The progress report shall contain the following, apart from whatever else may be required as specified above:

a) Construction schedule of the various components of the work through a bar chart for the next two fortnights (or as may be specified), showing the micro- milestone/milestones, targeted tasks (including material and labour requirement) and up to date progress. At least 10 digital photographs showing all the parts of construction site along with at least 5 minutes video of executions of different items in soft copy has to be submitted in every fortnightly progress report.

b) Progress chart of the various components of the work that are planned and achieved, for the fortnight as well as cumulative up to the fortnight under reckoning, with reason for deviations, if any in a tabular format.

c) Plant and machinery statement, indicating those deployed in the work.

d) Man-power statement indicating:

- Individually the names of all the staff deployed on the work, along with their designations.
- No. of skilled workers (trade wise) and total no. of unskilled workers deployed on the work and their location of deployment i.e. blocks.

e) Financial statement, indicating the broad details of all the running account payment received up to date, such as gross value of work done, advances taken, recoveries effected, amount withheld, net payments details of cheque payment received, extra/substituted/deviation items if any, etc.

## 1.25 **TEMPORARY WATER/ ELECTRICITY/ TELEPHONE CONNECTION**

i) Arrangement of temporary telephone connection, water and electricity required by Contractor, shall be made by him at his own cost and also necessary permissions shall be obtained by him directly from concerned authorities, under intimation to the Department. Also, all initial cost and running charges, and security deposit, if any, in this regard shall be borne by him. The Contractor shall abide by all the rules/ bye laws applicable in this regard and he shall be solely responsible for any penalty on account of violation of any of the rules / byelaws in this regard. Nothing extra shall be payable on this account.

ii) The Contractor shall be responsible for maintenance and watch and ward of the complete installation and water / electricity meter and shall also be responsible for any pilferage, theft, damage, penalty etc. in this regard. The Contractor shall indemnify the Department against any claim arising out of pilferage, theft, damage, penalty etc. whatsoever on this account. Security deposit for the work shall be released only after No Dues Certificates are obtained from the local Authorities from whom temporary electric/ water / telephone connection have been obtained by the Contractor. Nothing extra shall be payable on this account.

iii) The Department shall in no way be responsible for either any delay in getting electric and/or water and/or telephone connections for carrying out the work or not getting connections at all. No claim of delay or any other kind, whatsoever, on this account shall be entertained from the Contractor. Also contingency arrangement of stand-by water & electric supply shall be made by the Contractor for commencement and smooth progress of the work so that work does not suffer on account of power failure or disconnection or not getting connection at all. No claim of any kind whatsoever shall be entertained on this account from the Contractor. Nothing extra shall be payable on this account.

## 1.26 TRAFFIC ARRANGEMENTS

i) Haphazard plying of vehicles shall be avoided. Care shall be taken to avoid damages to Existing trees, recently planted trees including tree guards and irrigation water supply piping system can be located nearby work site, hence, while taking up excavation activities, trees as well as their root zones be protected and the stacking of excavated earth shall be made in such a way that neither plants are buried nor damaged. The initial survey, demarcation of roads should be made in the campus and pickets etc should be fixed at locations which shall not be disturbed or damaged by vehicular movement or manual tampering, else the same shall be made good by the contractor at his own. In case of failure to comply with the above requirements the damage caused shall be made good at cost of contractor and the cost so incurred and assessed by Engineer in charge shall be recovered from running account bill of contractor.

ii) In event of any restriction being imposed by the Department, traffic or any other statutory authority having control over the project, on the working or movement of Labour, materials, etc., the Contractor shall strictly follow all such restrictions or instructions issued regarding the same and nothing extra shall be payable to the Contractor on account of such restrictions or instructions. No delay or claims of any kind shall be entertained from the Contractor on this account. The loss of time on this account, if any, shall have to be made up by the contractor by generating and deploying additional resources etc. Nothing extra shall be payable on this account.

## 1.27 CLEANLINESS OF SITE

i) The Contractor shall not stack building material / malba / muck on the land or road of the local development authority or on the land owned by the others, as the case may be. So the muck, rubbish etc. shall be removed periodically as directed by the Engineer-in- Charge, from the site of work to the approved dumping grounds as per the local byelaws and regulations of the concerned authorities and all necessary permissions in this regard from the local bodies shall be obtained by the Contractor. Nothing extra shall be payable on this account. In case, the Contractor is found stacking the building material / malba as stated above, the Contractor shall be liable to pay the stacking charges / penalty as may be levied by the local body or any other authority and also to face penal action as per the rules, regulations and bye-laws of

such body or authority. The Engineer –in-Charge shall be at liberty to recover, such sums due but not paid to the concerned authorities on the above counts, from any sums due to the Contractor including amount of the Security Deposit and performance guarantee in respect of this contract agreement.

ii) The contractor shall take instructions from the Engineer-In-Charge regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, services and compound walls are to be constructed.

iii) The site of work shall be always kept clean due to constraints of space and to avoid any nuisance to the users of buildings in the adjacent plots. The Contractor shall take all care to prevent any water- logging at site. The waste water, slush etc. shall not be allowed to be collected at site. It may be directly pumped into the creek with prior approval of the concerned authorities. For discharge into public drainage system, necessary permission shall be obtained from relevant authorities after paying the necessary charges, if any, directly to the authorities. The work shall be carried out in such a way that the area is kept clean and tidy. All the fees/charges in this regard shall be borne by the Contractor. Nothing extra shall be payable on this account.

1.28 **INSPECTION OF WORK**

i) In addition to the provisions of relevant clauses of the contract, the work shall also be open to inspection by the Chief Engineer Bangalore and other senior officers of CPWD in addition of the Engineer-in-charge and his authorized representative. The contractor shall at times during the usual working hours and at all times at which reasonable notices of the intention of the Engineer-in-charge or other officers as stated above to visit the works shall have been given to the contractor, either himself be present to receive the orders and instructions or have a responsible site Engineer duly accredited in writing, to be present for that purpose.

ii) Senior Officers of CPWD, Dignitaries from Central Ministry / Department, State Government shall be inspecting the on-going work at site at any time with or without prior intimation. The contractor shall, therefore, keep updated the following requirements and detailing.

a) Display Board showing detail of work, weekly progress achieved with respect to targets, reason of shortfall, status of manpower, wages being paid for different categories of workers.

b) Entrance and area surrounding to be kept cleaned.

c) Display layout plan key plan, Building drawings including plans, elevations and sections.

d) Up to date displays of PRIMAVERA program.

e) Keep details of quantities executed, balance quantities, deviations, possible Extra item, substituted item etc.

f) Keep plastic / cloth mounted one sets of building drawings.

g) Set of Helmets and safety shoes for safety.

## 1.29 **SETTING OUT**

i) The Contractor shall carry out survey of the work area, at his own cost, setting out the layout of building in consultation with the Engineer-in-Charge & proceed further. Any discrepancy between the architectural drawings and actual layout at site shall be brought to the notice of the Engineer-in-charge. It shall be responsibility of the Contractor to ensure correct setting out of alignment. Total station survey instruments only shall be used for layout, fixing boundaries, and centre lines, etc. along with theodolites. Nothing extra shall be payable on this account.

ii) The Contractor shall be entirely and exclusively responsible for the horizontal, vertical and other alignments, the level and correctness of every part of the work and shall rectify effectively any errors or imperfections therein. Such rectifications shall be carried out by the Contractor at his own cost to the entire satisfaction of the Engineer-in-Charge.

iii) The rates quoted by the Contractor are deemed to be inclusive of site clearance, setting out work (including marking of reference points, center lines of buildings),construction and maintenance of reference bench mark(s), taking spot levels, construction of all safety and protection devices, barriers, barricading, signage, labour safety, labour welfare and labour training measures, preparatory works, working during monsoon, working at all depths, height and location etc. and any other incidental works required to complete this work. Nothing extra shall be payable on this account.

## 1.30 **MATERIALS BROUGHT BY THE CONTRACTOR**

1) The contractor shall have to deposit the approved paints of required colour and shade as per actual requirements of the work to be done, with the Engineer-in-charge at his departmental stores at the site of work.

2) The paint will be issued to the contractor from time to time according to his requirements for the work in the same manner as the issue of materials stipulated to be issued departmentally.
3) Similar procedure shall be followed for water proofing compound.
4) The day-to-day receipt and issue quantity account of water proofing compound, paints etc. shall be maintained by the Junior Engineer and signed daily by the contractor or his authorized agent.
5) Empty containers should not be removed without the written permission of the Engineer-in- charge.
6) **Maintenance of Registers:**

- All the registers for tests of material to be carried out at construction site or in outside laboratories shall be maintained by the contractor. These register shall be issued to the contractor by Engineer-in-Charge in the same manner as being issued to CPWD field staff.
- **The test registers to be issued to the contractor are :**
  (a) Materials at site account register.
  (b) Cement register.
  (c) Master test registers.
  (d) Cube test register.
  (e) Paint register.
  (f) Inspection registers.
  (g) Drawing register.
- All the entries in the register will be made by the designated engineering staff of the contractor and same should be regularly reviewed by JE/AE/EE.
- Contractor shall be responsible for safe custody of all the test registers.
- Submission of copy of all test registers, material at site register along with each alternate running account bill and final bill shall be mandatory. These registers should be duly checked by AE in subdivision office.

## 1.31 TESTING OF MATERIALS

1) The contractor shall procure all the materials in advance so that there is sufficient time for testing and approving of the material and clearance of the same before use in work.
2) The contractor's rates for the items involving the use of materials shall be deemed to cover the cost of sample. The cost of packaging, sealing, transportation, loading, unloading etc. shall be borne by the

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.

1.32 The contractor shall take all precautions and measures as per Standard Operating Procedures (SOPs) and Guidelines for Construction Sites for Covid-19 Outbreak issued by CPWD / State Authorities / Local body & Central Government for which nothing shall be paid extra.

1.33 **SPECIAL CONDITIONS IN PURSUANCE OF ORDERS PASSED BY HON'BLE NATIONAL GREEN TRIBUNAL.**

1) The contractor shall not store/dump construction material or debris on metalled road.
2) The contractor shall get prior approval from Engineer-in-Charge for the area where the construction material or debris can be stored beyond the metalled road. This area shall not cause any obstruction to the free flow of traffic/inconvenience to the pedestrians. It should be ensured by the contractor that no accidents occur on account of such permissible storage.
3) The contractor shall take appropriate protection measures like raising wind breakers of appropriate height on all sides of the plot/area using CGI sheets or plastic and /or other similar material to ensure that no construction material dust fly outside the plot area.
4) The contractor shall ensure that all the trucks or vehicles of any kind which are used for construction purposes/or are carrying construction material like cement, sand and other allied material are fully covered. The contractor shall take every necessary precautions that the vehicles are properly cleaned and dust free to ensure that enroute their destination, the dust, sand or any other particles are not released in air/contaminate air.
5) The contractor shall provide mask to every worker working on the construction site and involved in loading, unloading and carriage of construction material and construction debris to prevent inhalation of dust particles.
6) The contractor shall provide all medical help, investigation and treatment to the workers involved in the construction of building and carry of construction material and debris relatable to dust emission.
7) The contractor shall ensure that C&D waste is transported to the C & D Waste site only and due record shall be maintained by the contractor.
8) The contractor shall compulsory use of wet jet in grinding and stone cutting.
9) The contractor shall comply all the preventive and protective environmental steps as stated in the MoEF guidelines, 2010.
10) The contractor shall carry out on-Road- Inspection for black smoke generating machinery. The contractor shall use cleaner fuel.

11) The contractor shall ensure that all DG sets comply emission norms notified by MoEF.

12) The contractor shall use vehicles having pollution under control certificate. The emissions can be reduced by a large extent by reducing the speed of a vehicle to 20 kmph. Speed bumps shall be used to ensure speed reduction. In cases where speed reduction cannot effectively reduce fugitive dust, the contractor shall divert traffic to nearby paved areas.

13) The contractor shall ensure that the construction material is covered by tarpaulin. The contractor shall take all other precaution to ensure that no dust particles are permitted to pollute air quality as a result of such storage.

14) The paving of the path for plying of vehicles carrying construction material is more permanent solution to dust control and suitable for longer duration projects. The NIT approving authority shall carry out cost benefit ratio analysis of the same.

15) No extra payment will be made for operation/activity mentioned at Sl. No. 1 to 14 above.

## *Additional Conditions for Steel*

2.1 Special condition for steel reinforcement bars

2.1.1 (a) The CPWD / Contractor shall/procure IS marked TMT bars of various grades from

1. The Steel Manufacturers such as SAIL, TATA steel Ltd., RINL, Jindal Steel & Power Ltd, and JSW steel Ltd. or their authorized dealers having valid BIS license for IS: 1786-2008
   (Amendment-1 November 2012)
2. The steel manufacturers or their authorized dealers (as per following selection criteria) having valid BIS license for IS:1786- 2008 (Amendment-1 November 2012).

The procured steel should have following qualities:-

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

b) Selection Criteria of steel manufacturers

(I) The supply of reinforcement steel for all CPWD works should have following selection criteria of steel manufacturers:- Steel producers of any capacity using iron or / processed iron are as the basic raw material adopting advanced refining technologies as given under,

(i) DRI-EAF= Direct Reduced iron - Electric arc furnace.
or
(ii) BF-BOF= Blast furnace - Basic oxygen furnace
or
(iii) COREX-BOF= COREX- Basic oxygen furnace

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

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

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

2.1.2 The contractor shall have to obtain and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work.

2.1.3 Samples shall also be taken and got tested by the Engineer-in Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time or written orders from the Engineer-in-Charge to do so

2.1.4 The steel reinforcement bars shall be brought to the site in bulk supply of 10 tonnes or more, or as decided by the Engineer-in charge.

2.1.5 The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent their distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.

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

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

2.1.7 The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. The cost of tests shall be borne by the contractor.

2.1.8 The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to be made.

2.1.9 The steel brought to site and the steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.

**Special Condition for Steel (Annexure-I)**

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

| | | | |
|---|---|---|---|
| 5 | Use of Iron-Ore/Processes iron are as basic raw materials | Verification of Iron-Ore/Process iron are invoices | |
| 6 | In-house rolling facility | Plant verification to identify in-house rolling facilities, production of liquid steel & crude steel | |
| 7 | Licenses & Certificates | a. ISO 9001:2008 Certification | |
| | | b. ISO 14001:2004 Certification | |
| | | c. OHSAS 18001:2007 Certification | |
| | | d. IS 1786:2008 (TMT Re-bars) | |
| | | e. IS 2830:1992 (billets) | |
| 8 | Product Range | TMT Re-bars FE 415/415D/500/500D/500/550D | |
| | | CRS (Corrosion Resistant) & EQR (Earthquake Resistant) TMT Re-bars Size 8 to 36 mm dia | |

Note :
DRI - EAF - > Direct Reduce iron – Electric ARC Furnace
BF – BOF - > Blast Furnace – Basic Oxygen Furnace
COREX – BOF - > COREX Furnace – Basic Oxygen Furnace

2.1.10 Steel bars brought by the contractor for use in the work shall be got checked from the Engineer-in-Charge or his authorized representative of the work on receipt of the same at site before use.

2.1.11 In case the contractor brings surplus quantity of steel the same after completion of the work will be removed from the site by the contractor at his own cost after approval of the Engineer-in-Charge.

2.1.12 Reinforcement including authorized spacer bars and lappages shall be measured in length of different diameters, as actually (not more than as specified in the drawing) used in the work, nearest to a centimeter. Wastage and unauthorized overlaps shall not be measured.

2.1.13 The standard sectional weights referred to as in Table 5.4 under para 5.3.4 ,page-135 , in CPWD specifications for works 2009 Vol. 1 will be considered for conversion of length of various sizes of MS bars, Tor steel bars and TMT bars into standard weight.

2.1.14 Records of actual sectional weight shall also be kept dia-wise & lot-wise. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site.. The decision of the Engineer-in-Charge shall be final for the procedure to be followed for determining the average sectional weight of each lot. Quantity of each diameter of steel received at site of work each day will constitute one single lot for the purpose. The weight of steel by conversion of length of various sizes of bars based on the actual weighted average sectional weight shall be termed as derived actual weight.

2.1.15 If the derived weight as in para 1.14 above is lesser than the standard weight as in para 1.13 above, the derived actual weight shall be taken for payment.

If the derived actual weight is found more than the standard weight then the standard weight as worked out in para 24.6 above shall be taken for payment. In such case nothing extra shall be paid for the difference between the derived actual weight and the standard weight.

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

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

(Table 5.1 / page-125 / Specification – Vol-1-2009)

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

## 3. ADDITIONAL CONDITIONS FOR CEMENT

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

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

3.2. The cement shall be brought at site in bulk supply of approximately 50 tonnes or as decided by the Engineer-in-Charge. The cement godowns of the capacity to store a minimum of 2000 bags of cement shall be constructed by the contractor at site of work for which no extra payment shall be made.

3.3 Double lock provision shall be made to the door of the cement godown. The keys of one lock shall remain with the Engineer-in-charge or his authorized representative and the key of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement godown. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-Charge at any time.

3.4 The cement shall be got tested by the Engineer-in-Charge and shall be used on the work only after satisfactory test results have been received. The contractor shall supply free of charge the cement required for testing including its transportation cost to test laboratories. The cost of tests shall be borne by the contractor.

3.5 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The

theoretical consumption of cement shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the cement consumption is less than theoretical consumption including permissible variation, recovery at the rate show prescribed shall be made. In case of excess consumption no adjustment need to made.

3.6 The cement brought to site and the cement remaining unused after completion of the work shall not be removed from site without the written permission of the Engineer-in-Charge.

3.7 The damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in writing from the Engineer-in-Charge. If he dose not do show within three days of receipt of such notice, the Engineer-in-Charge shall get it removed at the cost of the contractor.

3.8 The contractor may use OPC in place of PPC only after written permission of Engineer-in-Charge. In such case, no extra payment shall be made in any form to the contractor by the Department.

3.9 PPC shall be used is RCC structures in accordance with circular issued by the Directorate General of works vide No. CDO/SE(RR)/Fly Ash (Main)/102 dt.09.04.2009.The use of PPC shall be regulated as per the following conditions stipulated in the circular dt.09.04.2009.

**(a)** IS: 456- 2000 code of practice for plain and reinforced concrete shall be followed in regard to concrete Mix proportion and its production as under:-

(i) The concrete mix design shall be done as" Design Mix concrete" as prescribed in clause. 9 of IS 456 mentioned above.

(ii) Concrete shall be manufactured in accordance with clause 10 of above mentioned IS.456 covering quality assurance measures both technical and organizational which shall also necessarily require a qualified concrete Technologist to be available during manufacture of concrete for certification of quality of concrete.

**(b)** Minimum M25 grade or as specified of concrete shall be used in all structural elements of RCC both in load bearing and framed structure.

(c) The mechanical properties such as modulus of elasticity tensile strength, creep and shrinkage of concrete using fly ash blended cements (PPCs) are not likely to be significantly different and their values are to be taken same as those used for concrete made with OPC.

(i) To control higher rate of carbonation in early ages of concrete in PPC based concrete water/ binder ratio shall be kept as low as possible which shall be closely monitored during concrete manufacture. If necessitated due to low water binder ratio required workability shall be

achieved by use of chloride free chemical admixtures conforming to IS.9103. The compatibility of chemical admixtures & super plasticizers with each set PPC received from different sources shall be ensured by trials.

(ii) In environment subjected to aggressive chloride attack (or sulphate attack in particular) PPC based concrete is recommended. In case where structural concrete is exposed to excessive magnesium sulphate, fly ash content shall be limited to 18% by weight. Special type of cement with low C3A content may also be alternatively used. Durability criteria like minimum binder content and maximum water/ binder ratio also need to be given due consideration in such environment.

(iii) Wet curing period shall be enhanced to minimum of 20 days or its equivalent. In hot and arid regions, the minimum curing period shall be 14 days or its equivalent.

(iv) Subject to general guidelines detailed out as above, PPC manufactured conforming to IS:1489 (Part-I) shall be treated at par with OPC manufacture of Design Mix concrete for structural use in RCC.

(v) Till the time, BIS makes it mandatory to print the percentage of fly ash on each bag of cement, the certificate from the PPC manufacturer indicating the same shall be supplied by the contractor.

3.10 While using PPC for structural concrete work, no further admixing of fly ash shall be permitted

# 4. PARTICULAR SPECIFICATIONS

## 4.1 General

i) All stone aggregate and stone ballast shall be of hard stone variety to be obtained from approved quarries by E-IN-C

ii) Coarse sand should be obtained from Sabarmati River The same shall be clean and sharp angular grit type. The coarse sand shall be screened before using, if required. If the sand brought to site is dirty, it must be washed in clean water to bring the sand to the required specifications. Nothing extra shall be payable on this account.

iii) Fine sand should be obtained from Sabarmati River or any other source to be got approved by the Engineer-in-charge and screened as required. The same shall be clean and sharp angular grit type. If the sand brought to site is dirty it must be washed in clean water.

## 4.2 Particular specification:- EARTHWORK

(i) Earthwork in excavation, in general, shall be carried out as per the CPWD Specifications.

(ii) The earthwork in excavation, wherever required, shall be carried out in slushy position. Rates for earthwork shall include cost of the element for working in or under water / liquid mud including pumping of water / liquid mud. Nothing extra shall be payable on this account. Therefore, the Contractor shall quote his rates after studying the site conditions.

(iii) While earth work in excavation it shall be ensured not to damage any underground services such as cables, sewer line rainwater pipe etc. Any damage to any services shall be rectified by the contractor at his own cost, nothing shall be payable on this account

## 4.3 Particular specification : Concrete & R.C.C. WORK

(i) The work in general, shall be carried out as per the CPWD Specifications.

(ii) Concrete mixer having arrangement of weighing water for controlling W.C. ratio should only be used in all PCC and RCC works where there is no provision for Ready Mix Concrete.

(iii) Any cement slurry if added over base surface (or for continuation of concreting) for bond, its cost shall be deemed to have been included in the respective items, unless otherwise,

explicitly stated and nothing extra shall be payable nor extra cement considered in the cement consumption on this account.

## 4.4 Particular specification : FLOORING

(i) All work in general shall be carried out as per CPWD Specifications.

(ii) Whenever flooring is to be done in patterns of tiles and stones, the contractor shall get samples of each pattern laid and approved by the Engineer-in-charge before final laying of such flooring. The sample produced shall be fully supported by the details of location/quarry and the same shall not be removed except with the written permission of Engineer-in- Charge. Nothing extra shall be payable on this account.

(iii) Different stones / tiles used in pattern flooring shall be measured separately as defined in the nomenclature of the item. The rate of item of marble/ Kota / tiles or any combinational stone flooring is inclusive of providing required patters with combination of all. Nothing extra will be paid on this account. No additional wastage, if any, shall be accounted for any extra payment.

(iv) Samples of flooring stones (Kota/ Marble/ Granite/ Tiles of all kinds etc.) 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 what so ever shall be made for these samples.

(v) Full width stone over kitchen platform, window sills, jambs and soffit shall be provided except to adjust for closing pieces The marble/any stone flooring in treads and risers of stair case is to be laid in single piece. Nothing extra shall be paid on these accounts.

(vi) Chasing of required width and thickness shall be made in brick work at skirting location so as to flush the external surface of skirting with internal plastering. No extra payment towards making chases in brick work at skirting shall be made and the same is presumed to be inclusive of rate quoted for the item of providing and fixing skirting.

(vii) Proper gradient shall be given to flooring for toilets, verandah, kitchen, courtyard etc. so that the wash water flows towards the direction of floor trap. Any reverse slop if found, shall be made good by the contractor by ripping open the floor/grading concrete and nothing shall be paid for such rectifications.

(viii) The granite stonework shall, in general, be carried out as per the CPWD Specifications. The specifications for dressing, laying, curing, finishing, measurements, rate etc. for the granite stone flooring shall be same as that of works for the Marble flooring, skirting and risers of steps under Flooring Sub Head of the CPWD Specifications. The wall lining / veneer work with granite stone shall be as per the CPWD Specifications for Marble work Sub Head.

(ix) The granite slabs used for providing and fixing in the sills, soffits and jambs of doors, windows, ventilators and similar locations shall be in single piece unless otherwise directed by the Engineer-in-Charge. Wherever stone slab other than in single piece is allowed to be fixed, the joints shall be provided as per the architectural drawings and as per the directions of the Engineer-in-Charge. Depending on the number of joints, as far as possible, the stone slabs shall be procured and fixed in slabs of equal lengths as per the architectural drawings and as directed by Engineer-in-Charge.

(x) All the flooring works specified under this sub-head shall be adequately protected by a layer of plaster of paris which shall be laid over a 400 micron PVC film. The protective layer shall be maintained throughout the execution of works and removed just before handing over of the site for which nothing extra shall be payable.

## 4.5 Crazy ceramic (china mosaic) tile flooring

a) The materials to be used shall be broken glazed ceramic tile pieces. These shall be obtained from broken glazed tiles of uniform thickness and of approved shade and manufacture and conforming to I.S. 13753. The tile pieces shall be hard, sound, dense and glossy in texture. These shall be of required colour and shade and free from stains, cracks, decay and weathering.

b) The work shall be carried out as per the architectural drawings in design (geometric, abstract etc.) and in linear and / or curvilinear pattern and in combination with tile pieces of different colour and shade.

c) Before laying tile flooring on RCC slabs / PCC base, the laitance shall be removed and the surface shall be roughened. A coat of cement slurry @ 2.2 kg of cement per sqm shall be applied over the base surface for bonding between RCC slab / PCC and mortar bedding of tile flooring. Nothing extra shall be payable on this account.

d) Pieces of ceramic glazed shall be brought to required size & shape to achieve the required design/ pattern. The shade of the tiles shall also be selected depending upon the pattern/ design. Tiles shall be thoroughly cleaned and soaked in water before fixing. Cement grout of desired consistency admixed with approved water-proofing compound

and synthetic polyester fiber shall be spread over the mortar bedding when the mortar is still plastic. Pieces of glazed tile shall be pressed piece by piece in the required pattern in the cement float. The fixing shall be done by keeping the joints between the pieces as thin as possible but not exceeding 5mm. The work shall be carried out to correct level and slopes and compacted by striking the surface with hand thappies and straight screed tamper. The grout shall cream up to the surface. The junctions of the flooring and the parapet wall shall be rounded and the flooring shall be extended upto the wall for 15cm or as specified. After the flooring has been laid or the day's fixing work is completed, surplus cement grout that may have come out of the joints on compacting shall be cleaned off. The flooring laid shall be kept moist and allowed to mature undisturbed for 10 days to allow the bedding and flooring to set properly.

e) Once the floor has set, it shall be carefully washed clean and dried. When dry, the floor shall be covered with oil free dry saw dust which shall be removed only after the construction work is completed.

f) The Contractor shall ensure that the China Mosaic work provides waterproofing treatment and shall not allow penetration of water. The guarantee for the water proofing work at the terrace shall also include restoration of the China Mosaic work after rectification, if any to the integral cement based waterproofing treatment to the terrace. Nothing extra shall be payable on this account.

g) For the purpose of payment, actual area of the China Mosaic tile work shall be measured in sqm correct to two decimal places.

## 4.6 Particular specification STAINLESS STEEL HAND RAIL

(i) Providing, fabricating and fixing in position welded built –up section using stainless pipes and connecting plates, of Grade S.S 304 and of required diameter & thickness as per the directions of the Engineer-in -Charge, at the junctions of doors, on walls, other locations as directed etc. including cutting, welding, grinding, bending to required profile and shape, hoisting, buffing and polishing, cutting chase / embedding in RCC / Masonry, fixing using stainless steel screws, nuts, bolts and washers or stainless steel fasteners as required to make it rigidly fixed & stable and making good the plaster/ flooring etc. all complete, at all floors and all levels as directed by the Engineer-in – Charge.

(ii) Rate includes cost of all inputs of materials, labour, T&P, etc. involved in the work and all incidental charges to execute this item. However, for the purpose of payment only the actual weight of the stainless pipes and stainless steel plates provided and fixed shall be measured in kg.

## 4.6 PARTICULAR SPECIFICATIONS – ROAD WORK

### (i) General (applicable for all items under this sub-head)

The work under this sub-head in general shall be carried out as per the CPWD specifications, as per architectural drawings and as per directions of Engineer-in-Charge

### (ii) Tiles and paver block

a) The work under this sub-head in general shall be carried out as per the CPWD specifications, as per the manufacturer's specifications, as per architectural drawings and as per directions of Engineer-in-Charge.

b) The Contractor shall procure and submit the samples of approved make, shade and thickness of various materials (tiles and paver blocks etc.) along with catalogue, for the approval of the Engineer-in-charge prior to execution of the item.

c) Based on the samples approved by the Engineer-in-Charge for various tiles and paver blocks etc, the contractor shall prepare the mock-up at site for approval of material and quality of workmanship by the Engineer-in-Charge. Only after the approval of mock-up, the contractor shall start the mass work. If the quality of the workmanship and the material is as per the required standards and approved by the Engineer-in- Charge, the mock up shall be allowed as part of the work and measured for payment. Otherwise, it shall be dismantled by the contractor as directed by the Engineer-in-Charge and taken away from the site of the work at his own cost. The mock up(s) so made shall be kept till completion of respective works for reference. Nothing extra shall be payable on this account.

d) Once the material and mock up are approved, the entire quantity of various materials shall be procured from the approved manufacturer or its authorized dealer, preferably, in one lot to keep variations to the minimum.

e) The material (tile and paver blocks etc.) shall be supplied at site only after attainment of required strength at the factory itself.

f) The Engineer-in-Charge or his representative may, if required, shall inspect the factory during production of various tiles to assess the quality of the material and also collect samples from the factory itself. The Department shall bear the cost of such visits of the officers of the Department.

g) The material shall be transported to site well packed. These shall be handled carefully to prevent any damages. The material procured shall be free of any surface defect, edge damage and any other such defects. The defective / damaged material shall not be allowed to be used in the work. So, the contactor shall procure additional quantity of material to cover such contingencies. However, nothing extra shall be payable on this account.

h) Adequate care for various materials shall be taken before fixing as well as afterwards till completion of the work. It shall be protected from rains, excessive humidity, chemical fumes, vibrations, dust etc. The contractor shall ensure careful handling and storage and prevent any 144 rough handling, to prevent any edge damage or breakage. Any material (tiles and paver blocks etc.) with edge damaged or crack etc. shall not be allowed to be used in the work and shall be replaced by the contractor at his own cost. Similarly, adequate care shall be taken by the contractor while placing or removing and handling the material so as not to cause any damage. The finished work shall be cleaned as per manufacturer's specifications. Abrasive cleaners shall not be used to clean the marks.

i) The work shall be carried out as per the manufacturer's specifications.

j) The tiles and paver blocks shall be fixed in required pattern and design in combination with tiles / paver blocks of different colours and shades in linear or curvilinear pattern as per the architectural drawings and the site conditions.

k) The contractor shall obtain and submit to the Department the manufacturer's test certificate / report for compliance of the material to the relevant standards along with each lot of material supplied for the work.

l) For the enclosures with circular or curved profile, only the actual area of the respective works shall be measured under relevant sub-heads for payment and nothing extra shall be payable for labour, material, wastages and any other incidental charges.

m) For tiling and paver work, the joints between the different types of tiles and pavers shall be located as per the architectural drawings and the measurement shall be done as per item description.

n) The Contractor shall maintain the uniform level of the finished flooring of the different types unless specifically mentioned on the architectural drawings.

o) At the time of handing over, the finished areas (tiles and paver blocks etc) shall be free of any scratches, stains etc. These areas shall be properly cleaned before handing over. However, abrasive cleaners shall not be used to clean the marks and other scratches.

## 4.7 PARTICULAR SPECIFICATIONS : WATER PROOFING TREATMENT

(i) The contractor shall be fully responsible for and shall guarantee proper performance of the entire waterproofing system including china mosaic flooring for a period of 10 (Ten) years from the completion of works. In addition, specific 10 years written guarantee (to be furnished in a non-judicial stamp paper of value not less than Rs. 100/- ) in approved Performa shall be submitted for the performance of the system, before final payment and shall not in any

way limit any other rights the employer may have under the contract.

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

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

## 4.8 MEASUREMENTS

Only plan area of Roof shall be measured and paid. The treatment on adjoining walls etc up to 30 cm height shall be done but not be measured and paid. Nothing extra shall be paid for rounding off at junctions and taking treatment along sides of beams and walls. Length and breadth shall be measured correct to one centimeter and area shall be worked out to nearest 0.01 Sqm. No deduction in measurements shall be made for either opening or recesses for chimneys, stacks, roof lights and the like for areas up to 0.40 Sqm. nor anything extra shall be paid for forming such openings. For similar areas exceeding 0.40 Sqm. deductions will be made in measurements for full openings and nothing extra shall be paid for making such openings.

(i) While the water proofing treatment is done, it shall be ensured that the outlet pipes are properly fixed and the gaps between the wall and pipes are properly filled with brick / stone aggregate and cement mortar admixed with proprietary water proofing compound and grouted with cement slurry admixed with proprietary water proofing compound.

(ii) Waterproof treatment shall be cured for a minimum period of two weeks.

(iii) All water proofing work shall be carried out by the applicator, who are specialist in similar work. Contractor shall got approval of applicator

from Engineer-in-charge. The specialist applicator should have valid authorization from reputed brand of water proof compound manufactures/dealer of Dr Fixit, Pidilite, FOSROC, CICO or equivalent.

## 4.9 APPROVAL OF SHOP DRAWINGS.

The contractor shall submit a full detail for the presentation of shop drawings to the Engineer-in- charge for approval and in no case the contractor shall process with any of these works without approved shop drawings.

The contractor shall review and submit all shop drawings in a sequence consistent with the sequence of erection, installation and assembly of the various elements of the work. He shall be deemed to have determined and verified all materials, site measurements and construction criteria related thereto and to have checked the shop drawings for complete dimensional accuracy.

Any approval by the Engineer-in-charge of the shop drawings shall not relieve the contractor of his responsibility for any deviation from the requirements of the contract unless he has specially informed the Engineer-in-charge in writing of such deviation at the time of submission and the Engineer-in-charge has given written approval to the specific deviation.

## 5. PARTICULAR SPECIFICATIONS OF ALUMINIUM WORK FOR DOORS, WINDOWS AND PARTITIONS.

**2)** The material for the work shall be procured from the approved manufacturer as per the list attached with the tender documents. The Contractor shall procure and submit samples of various materials to be used in the work for the approval of Engineer-in-Charge and no work shall commence before such samples are approved. Samples of un-anodized as well as anodized aluminium sections, neoprene gaskets, glass, stainless steel screws, anchor fasteners, hardware and any other material or components requiring approval of samples, in opinion of Engineer-in-Charge, shall be submitted for the approval as mentioned above .The above samples shall be retained as standards of materials and workmanship. The cost of the above samples shall be borne by the Contractor.

**3)** The Contractor shall prepare the shop drawings for the aluminium windows giving details of the various aluminium sections, neoprene gaskets, cleats, anchor fasteners, hardware, sealants, glass etc. and submit the same for the approval of Engineer-in-Charge. Nothing extra shall be payable on this account.

**4)** Only after the approval of the samples and the shop drawings by the Engineer-in-Charge, the Contractor shall procure the material for the work. All materials brought to the site by the Contractor, for use in the work, as well as fabricated components shall be subject to inspection and approval by Engineer-in-Charge. The Contractor shall, if required by the Engineer-in-Charge, produce manufacturer's test certificates for any material or particular batch of materials supplied by him.

**5)** The Contractor shall prepare a finished sample of the aluminium window along with glazing panel and fittings etc. for approval of workmanship and material. Nothing extra shall be payable on this account.

**6)** The Contractor shall get the necessary tests carried out in an approved laboratory, as specified. The tests carried out shall be as per relevant specifications / Standard Codes. One test for each lot of anodized aluminium section of each type shall be carried out. However, this is subject to at least one test for every 1,000 Kg or part thereof, for each type of section.

i. Aluminium sections to be used for doors, windows, ventilators and fixed glazing, partitions, false ceiling etc. shall be appropriate to meet technical, structural, functional and aesthetic considerations. The anodizing shall be carried out in an approved factory / workshop as specified in the tender documents.

ii. The aluminium extruded sections shall conform to I.S. Designations HEIWP / HVIWP alloy, with chemical composition and technical properties as per I.S. 733 and I.S. 12195.

**7) FABRICATION**

i. All joints shall be accurately fabricated and be hairline in appearance. The finished surface shall be free from visible defects.

ii. Taking into consideration varying profiles of aluminium sections being extruded by approved manufacturers, the Contractor shall prepare detailed shop drawings of his proposal using suitable sections based on architectural design / drawings, adequate to meet the requirements / specifications laid down and as proposed by the manufacturer and these detailed shop drawings shall be subject to approval of the Engineer – in – Charge.

iii. All hardware used shall conform to the relevant specifications and as per samples approved by the Engineer-in-Charge. Design, quality, type, number and fixing of hardware shall be generally in accordance with architectural drawings and as approved by the Engineer-in-Charge before use.

iv. All doors, windows, ventilators and glazing etc. shall be made water tight with neoprene gaskets and weather silicone sealants to the satisfaction of the Engineer-in-Charge, for which nothing extra shall be payable.

v. The frames shall be strictly as per Architectural drawings, the corners of the frame being fabricated to the true right angles. Both the fixed frames and openable shutter frames shall be fabricated out of sections cut to required length, metered and mechanically jointed for satisfactory performance. All members shall be accurately machine milled and fitted to form hairline joints. The jointing accessories such as aluminium cleats, stainless steel screws etc. shall not to cause any bi-metallic reaction by providing separators, wherever required. Nothing extra shall be payable for jointing accessories.

vi. Metered joints of the doors, windows, ventilators shutters and frames shall be either corner crimped or fixed with self-tapping stainless steel screws of approved make and quality to heavy duty extruded aluminium cleats and sealed with weather silicone sealant, for which nothing extra shall be payable.

vii. Vertical members of the aluminium frame work shall be embedded in the floors, wherever required, by cutting and making good of the floor. Nothing extra shall be payable on this account.

## 8) FIXING OF ALUMINIUM FRAME WORK

i. The screws used for fixing fixed aluminium frames of the aluminium windows to masonry walls / RCC members and aluminium members to other aluminium members shall be of stainless steel of approved make and quality and of stainless steel grade 304. Threads of machine screws used shall conform to requirement of I.S. 42119.

ii. The aluminium frames of the gypsum board partition and the wooden rafter ceiling shall be fixed to masonry walls / RCC members using stainless steel anchor fasteners of grade 316, of Kundan or Arrow make and aluminium members to other aluminium members shall be fixed using stainless steel screws of approved make and quality and of stainless steel grade 304.

iii. For the aluminium windows, the gap between the aluminium frames and the R.C.C / Masonry and also any gaps in the various sections shall be filled with weather silicone sealant DC 795 of Dow Corning or equivalent in the required bite size, to ensure water tightness including providing and fixing backer rod, wherever required. The weather silicone sealant shall be of such approved colour and composition that it would not stain or streak the masonry / R.C.C. work. It should not sag or flow and shall not set hard or dry out under any conditions of weather and shall be tooled properly. The weather silicone sealant shall be used as per the manufacturer's specifications and shall be of approved colour and shade. Any excess sealant shall be removed / cleared. Nothing extra shall be payable for the above.

**iv.** Fixing of glass panes shall be designed in such a way that replacing damaged / broken glass panes is easily possible without having to remove or damage any members or interior finishing materials.

## 9) ANODIZING

i. Aluminium sections shall be anodized as per I.S. 701919 – 1973. Anodizing to be as per grade AC 20 and not less than 20 microns thick when measured as per I.S. 6012, in colour and shade as approved by the Engineer-in-charge.

ii. The anodic coating shall be properly sealed by steam or dipping in de-ionized water as per I.S. 119619-19192 and / or I.S. 6057. Sealing quality shall be tested in accordance with the relevant standards. Nothing extra shall be payable on this account.

iii. The Contractor shall satisfy himself by checking in the factory that the thickness of the anodic coating is found to be minimum 20 microns and sealing quality is appropriate everywhere. The testing shall be done in an approved laboratory by EDDY CURRENT METHOD as per I.S. 6012 for thickness. For testing the thickness of anodic coating of the anodized aluminium sections, the calibration shall be done on bare (un-anodized) aluminium sections of same type. If any material is found sub-standard, it shall be rejected.

iv. All anodized aluminium works shall conform to relevant I.S. Codes relating to materials, workmanship, fabrications, finishing, erection, installations etc. In this connection I.S. Codes including I.S. 119619 – 19192, I.S. 733 – 19193, I.S. 19419-1961, I.S. 701919-1973, I.S.

6012-1970, I.S. 12195 – 1975, I.S. 740-1975 are considered relevant and applicable.

v. The exposed surface of the aluminium sections shall be protected against surface damage, dents, scratches etc. It shall, therefore, be provided with protective tape. After fixing and assuring of proper functioning of doors, windows, frame work for partitions / false ceiling etc. such protective tape shall be cleaned out / removed as per the directions of Engineer-in-Charge . Nothing extra shall be payable for above.

## 10) GLAZING

i. All glass panes shall be retained within aluminium framing by use of exterior grade neoprene gaskets. Use of glazing or caulking compounds around the perimeter of glass will not be permitted. There shall be no whistling or rattling. Before installation of glass, Contractor shall ensure the following:
   a. All glazing rebates shall be square, to plumb, true to plane, dry and free from dust.
   b. Glass edge shall be clean and cut to exact size and grounded

ii. Annealed float glass in doors, windows, ventilators and fixed glazing etc. shall be of approved make and standard quality conforming to C.P.W.D. Specifications.

iii. 4.0 mm thick glass panes shall be provided for openings not exceeding 0.5 sqm. For openings exceeding 0.5 sqm in area, 5.0 mm thick glass panes shall be provided unless specified otherwise.

## 11) PROTECTIONS AND CLEANING:

i. After erection and removal of protective layer, all aluminium works including glass panes shall be moist cleaned with a de-ionized water to clean all marks, stains and blemishes.

## 12) MEASUREMENT AND RATES:

i. For aluminium frame work, the length of each member of the frame shall be measured correct to half a centimetre. The weight shall then be calculated on the basis of unit weight specified in the manufacturer's catalogue.

ii. The actual weight per metre of the respective aluminium sections shall be measured for three random samples collected for each type of aluminium section used in the work, cut to required lengths and weighed and average weight calculated and recorded. The average weight for each type of aluminium section shall be taken as the actual weight per metre for that aluminium section. The decision of

the Engineer-in-Charge as regards the random samples and average weight shall be final and binding on the Contractor and no claim of any kind shall be entertained from the Contractor in this regard.

iii. The quantity of the aluminium, to be paid for, shall be the least of the two weights calculated on the basis of above two paras 9.25.1 and 9.25.2

iv. For glazing, the actual area of the glass panels excluding the portion in the beading shall be measured in sqm up to two decimal places, for payment.

v. Stainless steel adjustable friction hinges and the aluminium handles for the openable side-hung windows shall be of "Earl Bihari", make or equivalent as approved by the Engineer-in-Charge. 2 nos. friction hinges shall be provided per shutter.

vi. The cost of designing and preparation of shop drawings, all the samples, mock up of window etc. is deemed to be included in the cost of the relevant items. Nothing extra shall be payable on this account.

vii. The item for aluminium for fixed portions for aluminium windows, frame work for partitions and wooden rafter ceiling shall include cost of all inputs of labour, material (anodized aluminium sections, including cleats, other fixtures, weather silicone sealants, stainless steel screws, nuts, bolts, rawl plugs, backer rods, polyethylene tapes etc. which shall be required for fabrication and erection of aluminium work) T & P, all incidental charges, wastages etc. involved in the work. However, for the purpose of payment, the weight of aluminium sections for the fixed window frame, frame work for partitions and wooden rafter ceiling, shall be measured in Kg. The aluminium cleats, stainless steel screws, nuts, bolts, separators etc. shall not be measured separately for payment and their cost is deemed to be included in the cost of this item. The item for aluminium for frame work for fixed partitions and wooden rafter ceiling shall also include cost of providing and fixing stainless steel anchor fasteners as required.

viii. The glass shall be paid for separately under relevant item. The cost providing and fixing neoprene gasket, felt etc. is included in the cost of this item and shall not be measured separately for payment.

ix. The item of aluminium for the openable aluminium shutters for windows and doors etc., shall include cost of all inputs of labour, material (anodized aluminium sections, including such as cleats / angles, other fixtures, stainless steel screws nuts, bolts, stainless steel hinges, weather silicone sealant etc. which shall be required for fabrication of aluminium work) T & P, all incidental charges, wastages etc. involved in the work. However, for the purpose of payment, the weight of aluminium sections for the window shutter (sash frame)

shall be measured in Kg. The aluminium cleats, stainless steel anchor fasteners, screws, nuts, bolts, separators, stainless steel hinges, etc. shall not be measured separately for payment and their cost is deemed to be included in the cost of this item. The anodized aluminium snap beading for fixing glass panels in the openable shutters of the windows shall be measured separately (on weight basis) and paid under this item of aluminium frame work for window shutters.

x. The item for the aluminium frame work includes cost of making provision for fixing fittings, wherever required, as per the item description (The cost for providing fitting (handle and buffer) shall be paid for separately under relevant item).

## 06. Additional Condition for Up-gradation / A/R & M/O / Maintenance /Special Repair work

1. Contractor is advised to visit the site before quoting the rates to get acquainted with the area, services, installations, condition of quarters and overall scope of the work.

2. The contractor shall take immediate action to attend any complaint assigned to him through complaint register / site order book / verbal instructions from Engineer-in-charge / on telephones / personnel complaints from occupants. In all cases he shall attend the complaints in the specified duration as mentioned below:-
   a) No delay complaints-complaints of emergent nature such as plumbing or sewerage systems not working / blocked / overflow etc. are to be attended to within 24 hours.
   b) Minor complaints-complaints relating to the repair works of trades of mason and carpenter are to be attended within 48 hours.
   c) Other renovation work such as painting, tile work etc are to be attended within 96 Hrs.

| Sl. No. | Name of complaint | Time limit for attending complaint | Recoveries |
|---|---|---|---|
| 1 | No delay complaints [Sewerage system blockage, overflow. Water leakage from pipeline, etc.] | 24 Hrs. | Rs. 1000 / Complaint / 24 Hrs |
| 2 | Minor complaints [Relating to repair works of trades of Mason & Carpenter. | 48 Hrs | Rs. 2000 / Complaint / 48 Hrs |
| 3 | Other Renovation work (Painting, Tile work etc.) | 96 Hrs | Rs. 4000 / Complaint / 96 Hrs |

3. The paints/other material shall be issued by the Junior Engineer / Assistant Engineer to the contractors after breaking the seal of the containers / packing and quantity to be issued shall be as per the daily requirement at the site. After a day's use balance quantity of paints etc., if any left, will be returned by the contractor to the Department. After use, the empty container shall have to be returned to the Department and shall be preserved by JE In charge and will not be disposed off till the finalization of the work.

4. Old doors, windows, floors, furniture, Electrical, Fire and other fittings shall be cleaned from all splashes, dust, dirt and mortars etc. The rate for the white washing/colour washing / distempering / painting etc. includes the cost of

removal splashes and paint marks. In the event of failure on the part of contractor to remove the splashes and the paint mark the recoveries will be made at the lumpsum rate of Rs. 5000/-.

5. The contractor shall clean the premise where work has been executed immediately after completion of work. If any complaint is received by allottee regarding unhygienic work & non-cleaning the recovery at lumpsum rate Rs. 5000/- shall be made.

6. The contractor shall employ qualified / trained persons for operation/maintenance of the equipment's & shall system be fully responsible to obtain such licenses for taking up the above work as prescribed by the State/Local bodies/ CPWD both for execution & operating staff. He shall also responsible for any periodic statutory inspection to be carried out on the equipment's payment of fees, rectification of defects pointed out during such inspection etc.

   A failure to comply with this clause by the contractor will render him liable for payment of all penalties imposed by the state/local bodies & the inspection and / of subsequent rectification will be carried out by the department at his risk & cost besides recovering the penalty amounts imposed by the state/local bodies.

7. The Engineers and Supervisor shall carry mobile telephone(s) to enable the Engineer-in-charge to have easy and quick communication. Nothing extra shall be paid to the contractor on this account and his quoted rates for various items under this contract will be inclusive of this obligation.

8. In case of any accident during the operation / Maintenance of the equipment leading to injuries/damages to human being equipment or loss of life, the contractor shall be fully responsible for settling all claims & indemnify the department against any claims arising out of such accidents.

9. Staff employed by the contractor should be well behaved, Polite & courteous. Any complaint against staff on behaviour should be taken very seriously and such staff should be removed by the contractor immediately from the site and arrange replacement. If replacement is not done then for the same the Engineer-in-Charge shall make recovery.

10. Safety of the staff employed will be the responsibility of the contractor. CPWD will not be responsible for any mishap, injury/accident or death of the staff. No. claim in this regard shall be entertained/ accepted by the department. In case of any non - fulfilment of obligation, necessary recovery shall be made from his bill / security deposit / performance guarantee. The contractor shall take all precautions to avoid accidents by exhibiting caution boards, red flags, red lights and providing necessary barriers and all other measures required

from time to time. The contractor shall be responsible for all damages and accidents due to negligence on his part.

11. The department reserves the right to terminate this contract, at any time if the performance of the contractor is found unsatisfactory.

12. Other agencies working at site will also simultaneously execute the work entrusted to them and the contractor shall offer necessary co-operation wherever required to other agencies.

13. On account of security consideration, there could be some restrictions on the working hours, movement of vehicles for transportation of materials. The contactor shall be bound to follow all such restrictions and adjust the programme for execution accordingly.

14. All the malba or rubbish obtained from dismantling or otherwise during the execution of the work shall be brought down through the stair case and shall not be thrown to the ground directly from upper floors etc. Malba / rubbish generated due to any operation from houses and other open spaces whatsoever shall be disposed off on daily basis by the contractor to the specified common disposal point. After the collection of full truck load of the said malba (approx 4.5 cubic metres), the same shall be disposed off same day by the contractor to the authorized municipal dhalao/ dumping ground and nothing extra shall be paid on this account. In case of non-removal/disposal in the specified period, a recovery of **Rs. Two thousands per day** shall be made from the contractor.

15. The contractor shall have to carry out the work other than day to day maintenance according to programme given by the Executive Engineer / Assistant Engineer / Junior Engineer-in-charge. The contract shall not carry out any work in any building without permission of Engineer-in-charge or his authorized representatives. The contractor shall have to adhere to this programme failing which he shall be wholly responsible for any inconvenience caused to the occupants. No claim for idle labour on any account shall be entertained. The contractor shall depute his representative daily to the site of work. His name and Signature shall be attested by the contractor for record in the department.

16. The quarters / flats and portions of quarters / flats where the work is to be executed on any day shall be got approved from the representative of the Engineer-in-charge at the site of work. No work shall be carried out in any quarters/flats without the approval of the representative of the Engineer-in-charge. Any work carried out without the approval of the representative of the Engineer-in-charge at the site of work shall be rejected and shall not be measured and paid for.

17. The Special Repair / maintenance / up-gradation work has to be carried out in a multi-storied building (occupied residential building / an occupied non - residential building) with occupants and the contractors shall quote his rates after studying site conditions.

18. They are advised to inspect and examine the site and its surroundings and satisfy themselves with the nature of the site, the means of access to the site, the constraints of accommodation and want of space, they require, if any. or any other circumstances which may affect or influence their tenders as the work is to be carried out in occupied buildings.

19. All byelaws laid down by AMC and any other local bodies while executing the work shall be adhered to. All taxes / levies payable to AMC and other local bodies shall be borne by the contractor. All traffic restrictions notified by local authorities shall be adhered to. Nothing extra on these account shall be payable on these accounts.

20. Being a repair work all precautions as not to damage the property, shall be taken by the contractor . If any damage is done to any structure etc. the same shall be made good by the contractor at his own cost and to entire satisfaction of Engineer –in Charge.

21. **TEMPORARY BARRICADING**

(i) Proper temporary barricading, on ground, shall be carried out by the contractor to physically define the boundaries of the site of repair / construction activity, for restricted entry of only those involved with the work and to prevent any accidents, but with minimum inconvenience to the residents / occupants. Nothing extra shall be payable on this account.

22. All warning boards and displays, such as REPAIR WORK IN PROGRESS, KEEP AWAY FROM BUILDING, NO PARKING etc. along with sufficient supervisory staff on ground shall be provided by the contractor, wherever required. Nothing extra shall be payable on this account.

23. Since the work is to be carried out in the occupied buildings, proper sequencing as regards dismantling of sanitary pipes, GI pipes, toilets etc. shall be done so as to cause minimum in convenience to the occupants besides taking care of the constraint of keeping the system functional during repairs by making temporary arrangements, as required. Nothing extra shall be payable on this account.

24. Lifting of materials such as cement, sand, wooden planks etc. through the building lifts is prohibited. No mixing or off loading etc. of mortar / cement concrete etc. over the open terrace / flooring shall be permitted. Arrangements as deemed it shall be made by the contractor for mixing/ lifting/off loading all materials etc. at no extra cost.

25. **CREDIT FOR DISMANTLED MATERIAL**

The contractor shall take away all the serviceable and unserviceable dismantled material, by way of purchase, on, as is where is basis. The credit to the department will be affected corresponding to the quantities being paid under the respective dismantling items.

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

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

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

**OR****

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

2. We, .....(indicate the name of the bank) .....(herein after referred to as "the bank"), hereby undertake to pay to the Government an amount not exceeding Rs. .....(Rupees.....only) on demand by the Government within 10 days of the demand.
3. We, .....(indicate the name of the Bank) ....., do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on 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. The 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 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 180 days for two/three bid system from the date of submission of tender.

** In paragraph 1, strike out the portion not applicable. Bank Guarantee will be made either for earnest money or for performance guarantee / security deposit / mobilization advance, as the case may be.

**GUARANTEE BOND TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER-PROOFING WORKS (ALL WATER - PROOFING ITEMS).**

The agreement made this.....day of ..... (Two Thousand only)..... between .....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 building and structures in the said contract recited completely water and leak-proof.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the affect that the said work will remain water and leak proof, for ten years from the date of completion of work.

NOW THE GUARANTOR hereby guarantee that work executed by him will render the structures completely leak proof and the minimum life of such water proofing treatment shall be ten years to be reckoned from the date of the completion of work.

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

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 calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the Guarantor's cost and risk. The decision of the Engineer-in-charge as to the cost payable by the Guarantor shall be final and binding.

That if the guarantor fails to execute the water proofing or commits breach there under, then the guarantor will
Indemnify the principal and his 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 BEHALF OF THE PRESIDENT OF INDIA BY ..... in the presence of :-

1. ..... 2. .....

**GUARANTEE BOND TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF EXTERNAL PAINTING TEXTURED FALKES PLASTER WORK).**

The agreement made this.....day of ..... (Two Thousan donly)..... between .....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 Exterior textured plaster work defect free.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the affect that the said finishing will remain free from peeling off and fade of shade for **Five years** from the date of completion.

NOW THE GUARANTOR hereby guarantee that Textured flakes plaster work rendered by him will free from defect such as peeling off, fade of shade, blistering etc and the minimum life of treatment shall be **Five years** to be reckoned from the date of the completion of work.

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

During this period of guarantee, the guarantor shall make good all defects and in case of any defect being found render the finishing intact 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 execute the defects or commits breach there under, then the guarantor will debar from the CPWD registration, 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 BEHALF OF THE PRESIDENT OF INDIA BY ..... in the presence of :-

1. ..... 2. .....

## LIST OF PREFERRED BRANDS / MAKES / MANUFACTURERS

**NOTE:**

1. A List of Preferred Brands/ Makes / Manufacturers for various materials and products to be used in the execution of works under this Contract is given below. The Contractor shall procure and use only materials conforming to the approved makes listed herein, unless otherwise permitted in writing by the Engineer-in-Charge.
2. All materials used in the works shall, in general, bear the BIS Certification Mark (ISI Mark) as applicable. Where BIS Certification is not available for a particular material or product, the material may be procured and used only if it conforms to the relevant CPWD Specifications and applicable BIS Codes.
3. The inclusion of any make in the Preferred Makes List does not constitute a guarantee of quality or performance by the Government or the Engineer-in-Charge, and does not absolve the Contractor of responsibility for the quality, fitness for purpose and performance of materials used in the works. The Contractor shall independently satisfy itself of the quality and suitability of each material before procurement and use. Proper checks on quality of materials actually delivered and used at site shall be exercised by the Contractor at all times.
4. The Contractor shall obtain prior written approval of the Engineer-in-Charge before placing any order for materials, products or proprietary systems, and before engaging any specialised agency for any item of work. For this purpose, the Contractor shall submit a Material Approval Request (MAR) along with manufacturer's catalogues, technical data sheets, test certificates, proposed specifications and, where applicable, a list of similar works executed by the specialised agency.
5. *If directed by engineer in charge*, Contractor shall submit relevant documents — including valid BIS Licence Certificates, manufacturer's test certificates and other approvals — to enable the Engineer-in-Charge to verify compliance with specifications and currency of certification before approval of any material or make. BIS Licences shall be valid as on the date of procurement and use of the material.
6. If any make included in the Preferred Makes List is found to be below the required standard of quality or specifications or is deficient in any other manner — whether on the basis of testing, inspection, market feedback or any other grounds — the Engineer-in-Charge shall have the authority to delete that make from the list. Such deletion shall take effect immediately upon written intimation to the Contractor, and the Contractor shall procure the alternative approved make for all subsequent works.
7. For any material or product for which a make is not specified in the Preferred Makes List, the Contractor shall submit proposals to the Engineer-in-Charge for approval with full technical details. No procurement shall be made until the Engineer-in-Charge has approved the make.
8. If all preferred makes for a particular material are genuinely unavailable at the time of execution — as certified in writing by the respective Original Equipment Manufacturer (OEM) or authorised distributor — the Engineer-in-Charge may approve an alternate equivalent make on a case-to-case basis. The decision of the Engineer-in-Charge in approving

or rejecting any alternate make shall be final and binding on the Contractor. No additional payment shall be admissible on account of any subsequently approved alternate make, irrespective of whether its procurement rate is higher than the originally specified make.

9. Public Procurement (Preference to Make in India) Order (PPP-MII) 2017, its Revision dated 29.05.2019, DoT Public Procurement (Preference to Make in India) Order dated 29.08.2018, and all amendments and orders issued thereafter up to the last date of receipt of tender shall be complied with in letter and spirit. The Contractor shall give preference to domestically manufactured products wherever applicable under these orders and shall submit documentary evidence of compliance as required by the Engineer-in-Charge.

10. Where the nomenclature of any Schedule of item or scope of work or detailed specification of item specifies a particular make or brand, that specification shall take precedence over the Preferred Makes List for that item. In all other cases, the Preferred Makes List shall apply.

11. The decision of the Engineer-in-Charge on all matters relating to make, quality, equivalence, approval, deletion and compliance under these conditions shall be final, conclusive and binding on the Contractor. No dispute or claim shall be entertained on any of the above grounds.

| S. No. | Material | Preferred Make |
|---|---|---|
| **1.0** | **Concrete Work** | |
| (i) | Ordinary Portland Cement / Portland Pozzolana Cement. | ACC cements Ltd, Ultratech Cement Ltd., Ambuja Cements Ltd. , Birla Corportion Ltd. Shree Cement |
| (ii) | White Cement | Birla White, J K White |
| (iii) | Construction Chemicals / Admixtures / Plasticizers / Super Plasticizers/ Curing compounds/ High Range water reducers (HRWR) | BASF India Ltd, FOSROC India, Pidilite (Dr. Fixit), Sika, Bostik India Pvt Ltd., |
| (iv) | Precast Cover Blocks | ACC,Nuvoco, Ultratech, Modi Cover Blocks, Steelmax |
| **2.0** | Reinforced Cement Concrete | |
| (i) | TMT Reinforcement Bars | SAIL, Tata Tiscon, RINL, JSPL, JSW |
| (ii) | Mechanical Couplers for Reinforcement | Dextra India, Halfen, G-Tech, Hi-Tech Sanfield India Ltd., Mungo |
| (iii) | Anchors, Rebar chemical/ Mechanical Fastener, Core | Hilti, Fisher, Wurth, |
| | Cutting, Expandable Fastener | |
| ) | Ready Mix Concrete Plants | ACC, Ultratech, JK Cement, Lafarge India (Nuvaco), Ambuja Cement, RMC India |
| (v) | Aluminium customized Shuttering | S-Form, MIVAN (MFE), MFS, Eins Technik Pvt. Ltd., ALFOAC |
| **)** | Water Proofing | |
| | Crystalline Water Proofing Compound Crystalline / Cementitious Acrylic / Water proofing compounds | Penetron, Xypex, Kryton, |
| (ii) | Water Proofing Swellable Bar / Liquid membrane / single component applied (spray applied for deck water proofing / Elastomeric acrylic UV resistant liquid applied coating Swellable Water stops | BASF India Ltd, Fosroc India, Sika India, MC Bauchemie, Penetron, Bostik India Pvt Ltd, Pidilite Industries (Dr. Fixit), |
| (iii) | Waterproofing PU / Polyurea / Polyurethane Acrylic / Elastomeric Cementitious / SRI Coating | BASF, Sika, Fosroc (India) Pvt. Ltd., Pidilite Industries, Bostik India Pvt Ltd, MC-Bauchemie, |
| (iv) | Polysulphide Sealant for Joints Poly-sulphide sealant & Polyurethane sealants | BASF, Sika, Fosroc (India) Pvt. Ltd., Pidilite Industries, Bostik India Pvt Ltd, MC-Bauchemie, |

| | | |
|---|---|---|
| (v) | Water proofing membrane HDPE / TPO based waterproofing HDPE pressure sensitive Water proofing Membrane system for basements / SBS Self Adhesive membrane | BASF, Sika, Fosroc (India) Pvt. Ltd., Pidilite Industries, Bostik India Pvt Ltd, MC-Bauchemie, Normet, Texsa, WR Grace, Hydro Tech Ltd, Birla Opus |
| (vi) | EPDM Water Proofing Membrane | BASF, Sika, Fosroc (India) Pvt. Ltd.,Pidilite Industries, Bostik India Pvt Ltd, MC-Bauchemie, Normet |
| (vii) | Water proofing compound Integral water proofing Compounds | BASF, Sika, Fosroc (India) Pvt. Ltd.,Pidilite Industries, Bostik India Pvt Ltd, MC-Bauchemie, Normet |
| (viii) | Polyurethane over deck insulation foam | BASF, Sika, Fosroc (India) Pvt. Ltd.,Pidilite Industries, Bostik India Pvt Ltd, MC-Bauchemie, Normet |
| (ix) | Food Grade Coating for Water Tanks | BASF, Sika, Fosroc (India) Pvt. Ltd.,Pidilite Industries, Bostik India Pvt Ltd, MC-Bauchemie, Normet |
| (x) | Actactic Polypropylene (APP) Modified Waterproof Membrane | Shalimar Tar Products (STP), Bitumat Co. Ltd, Pidilite Industries Ltd (Dr. Fixit), Bostik India Pvt Ltd, Fosroc India Pvt Ltd. |
| (xi) | Damp Proof Material | Mapei India Pvt. Ltd, Ferrous Crete (India) Pvt. Ltd, Pidilite Industries, Fosroc Chemicals India Pvt. Ltd., Sika India Pvt. Ltd, Bostik India Pvt Ltd., BASF India Ltd, Ardex Endura, Impermo, Duraseal, Acco Proof, Asian Paints, Myk Arment, Birla Opus |
| (xii) | Non-Metallic Floor Surface Hardeners | Fosroc India, SIKA India, BASF India Ltd., Pidilite Industries Ltd. Bostik India Pvt Ltd, Ardex Endura |
| (xiii) | Dimple Board | Delta, Fibrotex, Tikidan, Polyguard,Bituweld, Virendera Textiles |
| (xiv) | Adhesives | Pidilite (Fevicol SR), Ardex Endura, Bostik, ICA, Jowat |
| 4.0 | Masonry Work | |
| (i) | AAC Blocks | ACC, Tata Tiscobuild, Ultratech Cement Ltd (Xtralite), Birla Aerocon, J K Lakshmi, SIPOREX, Aerocon (HIL), NCL, Maxlite |
| (ii) | AAC Block adhesive | Ultratech, Ardex Endura, Ferrous Crete, Weber (Saint Gobain), Bostik India Pvt Ltd., Pidilite Industries |
| (iii) | GI Plaster Mesh | Arpitha Exports, Saint Gobain, Adfors, Falcon, NE Lintels |
| (iv) | Fiberglass (Fiber) Mesh | Arpitha Exports, Saint Gobain, Adfors, Montex Glass Fibre Industries, Jogani Technologies / Jogani Impex |
| (v) | CC Blocks / Fly ash Blocks | Siporex, Sunvik, HIL, Pragathi, Ultratech |

| | | |
|---|---|---|
| 5.0 | Steel Work | |
| (i) | Structural Steel Sections / Tubular Sections, Structural Steel | SAIL, Tata Steel, RINL, JSPL, JSW |
| (ii) | M.S. Pipe, Tubular sections | SAIL, TATA STEEL, APL Apollo Tubes, JSW |
| (iii) | Dash / Anchor Fasteners | HILTI, Fischer, Wurth, Rawl Plug |
| (iv) | Chemical Anchors | HILTI, Fischer, Wurth, Rawl Plug |
| (v) | EPDM Gasket | Anand NVH products (P) Ltd. (Anand), Roop Polymers Ltd., Bohra rubber Pvt Ltd., Hanu Industries, Amee Rubber Industries Pvt Ltd., Schuco, Raven |
| (vi) | Metal deck profile sheet | Ezydeck of TATA, Lloyd Superdeck, JSW TATA STEEL, SAIL, Jindal, Alfa, Kailash Roofing, Arcelor Mittal |
| (vii) | Roofing Steel Sheet (Precoated) /Galvalume sheet for roofing, cladding,Sandwich Panel | Tata Bluescope Steel Ltd., JSW Steel, APL Apollo, Llyod Insulations, Bhushan Steel, Essar Group, Japan Metal Building systems, Mectec Pvt Ltd |
| (viii) | Polycarbonate Sheet/ Multi walled Polycarbonate Sheet | GE Silicones (GE-LEXAN), Polygal India Pvt Ltd., Tuflite Dalphalon, Coxwell MG Polyplas, Hindeggan Alcox Ltd., DPI Day Lightings Ltd., |
| 6.0 | Aluminium Work | |
| (i) | Aluminium sections/ Extrusions | Hindalco / Jindal, Bhoruka, NALCO / Reynaers / Schueco, Indalco |
| (ii) | Anodised Aluminium Hardware (Heavy Duty) | Define Overseas Pvt. Ltd., Schueco India Pvt. Ltd., Bhoruka Aluminium Ltd., Everite Agencies, Jyothi Industries, Sigma Corporation, HARDIMA, Alu Alpha, Hindalco, Pulse of LGF Sysmac |
| (iii) | Aluminium Door & Window Systems Aluminium doors / windows sections | Schuco, Reynaers, A2Z Infra Solutions, Elixir, Metform, Adwin Hindalco Industries Ltd., Jindal Aluminium Ltd., Bhoruka Aluminium Ltd., Domal Aluminium |
| (iv) | Aluminium systems / Anodized aluminium fittings for doors/windows | Define Overseas Pvt. Ltd., Schueco India Pvt. Ltd., Bhoruka Aluminium Ltd., Everite Agencies, Jyothi Industries, Sigma Corporation |
| (vi) | Glazing Systems Structural Glazing | Modi Guard, Saint Gobain Glass India Ltd., Asahi India glass Ltd, Glaverbel India., |
| (vii) | Aluminium Composite Panels / Honeycomb Composite Panels / Aluminium-HPL Panels | 3A Composites India Pvt.Ltd (Alucobond, Alstone, M/S Aludecor Lamination Pvt. Ltd., Kalco, Reynoarch, Alutech, Virgo, AICA (Sunmica), VIVA M/S Euro panel products Pvt. Ltd., Reynobond, Virgo Ind Ltd, Alstrong |

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| (viii) | Metal (Aluminium) Facade Panels | Hunter Douglas, Dwall Metallic, Lindner AG, Hindalco |
| (ix) | Spider Patch Fittings for Structural Glazzing | Dormakaba, Saint Gobain Glass India Ltd., Kich India, Ozone Ltd, Hafele Ltd |
| 7.0 | Flooring | |
| (i) | Vitrified tiles | Kajaria Ceramic Ltd, Somany Ceramic Ltd, Prism Johnson Ltd (Johnson) |
| (ii) | Glazed Ceramic tiles (Also wall tiles) | Kajaria Ceramic Ltd, Somany Ceramic Ltd, Prism Johnson Ltd (Johnson) |
| (iii) | Epoxy Grouts / Tile adhesive / Polymer modified cementitious grouts/ Adhesive | Ardex Endura, Pidilite Industries, FOSROC India Ltd, Sika India Pvt Ltd, Weber (Saint Gobain), Bostik India Pvt Ltd, |
| (iv) | GP Grout | BASF, Pidilite Industries Ltd., FOSROC Chemical India Pvt Ltd., SIKA India. Bostik India Pvt Ltd, |
| (v) | Epoxy Floorings / Epoxy PU Floorings / PU Concrete Floors | Bostik India Pvt Ltd., Ardex Endura (India) Pvt. Ltd,. Pidilite Industries, Fosroc India |
| (vi) | Laminated Wooden Flooring | Pergo, Quick step, Armstrong |
| (vii) | PVC Flooring/ / PVC Vinyl flooring | Responsive Industries, Tarkett, Tremco, LG Hausys, Gerflor, 3M |
| (ix) | Carpet Flooring /Carpet Tile Flooring | Interface, Shaw, Welspun, CCIL, Milicon, Flotex, Armstrong, Floor Master |
| (x) | Rubberized Flooring | Ebaco, Armstrong, Wonder floor, Floor Master |
| (xi) | Indoor Sports Flooring / Maple Hard Wood Flooring/ | Armstrong, Forbo, Tarkett, Floor Master, Haro |
| (xii) | Synthetic Sports flooring | Armstrong flooring, LG Hausys India, RMG Polyvinyl India Ltd (Wondor floor) |
| (xiii) | Linoleum sports flooring | Armstrong flooring India Pvt Ltd., Forbo flooring India Pvt. Ltd., Gerflor flooring |
| (xiv) | Engineered wood flooring | Armstrong flooring, Haro, Kahrs, Boen, Tarkett, Lalengo, Green Lam Industries, Dekora, Haro |
| (xv) | Bamboo wood flooring and wall paneling | Flooring India Company, Jupiter Traders (Ecogreen flooring), Devi Polymer Pvt Ltd., Mutha Industries Pvt Ltd (Epitome Bamboowood Products), VIVANTA Enterprises, AMITEX Enterprises, Floor Master |
| (xvi) | Synthetic Carpet tiles | TOLI corporation, Hollitex carper tiles, Standard Carpets, Armstrong, floormaster |
| xvii) | Vitrified paving tiles | Somany ceramics Pvt Ltd, Jhonson , Murudeswara Ceramics, Rak Ceramics, Kajaria Tiles |
| xviii) | Glass mosaic tiles | Tile Italia mosaics Pvt Ltd., Coral tiles, Mridul tiles, Palladio Mosaics, Bisazza Italy |

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| (xix) | Decorative Terrazzo Floorings (Epoxy / cement based) | BASF India Ltd., Bostik India Pvt Ltd., Fosroc India Pvt Ltd, Ardex Endura |
| (xx) | Heat Resistant Tiles | Kajaria, Somany, Johnson |
| (xxi) | Terracotta Cladding Tiles | Hunter Douglas NBK, Moeding, Agrob-Buchtal, Palagio, NLF, Archeton, Terraclad, Soladrilho |
| xxii) | Cement concrete chequered tiles | NITCO Ltd, Eurocon tiles India, Hindustan tiles, Ultra tile private Ltd., |
| xxiii) | Self Levelling Screed Concrete | MYK Arment Pvt Ltd., Bostik India Pvt Ltd., Pidilite Industries Ltd., BASF India Pvt Ltd., FOSROC Chemical India Pvt Ltd. |
| xxiv) | False Flooring/ Raised Floor | Unitile, Kingspan, Haworth, Armstrong, Datacraft |
| xxv) | Antistatic Vinyl Tile | Armstrong, Forbo Flooring Systems, Gerflor, Tarkett, Johnsonite |
| xxvi) | Cementous self-leveling Underlay | Fosroc India Pvt Ltd, Flowcrete India, Bostik India Pvt Ltd, Ardex Endura, Sika India, |
| 8.0 | Roofing / False Ceiling / Partition EPF / Wall Panelling | |
| (i) | False ceilings, Wall panelling & False Ceiling Members (Perimeter, Ceiling section, intermediates, angles etc.,) | , Knauf India Pvt. Ltd., USG Boral, Hunter Douglas, Saint Gobain, |
| (iii) | GRG (Glass Fibre Reinforced Gypsum) False Ceiling with GI grid system | Diamond Ceilings, Saint Gobain, Armstrong, Hunter Douglas |
| (iv) | Calcium Silicate/ Stone Wool False Ceiling Tiles and Framework | Saint Gobain, Armstrong, Aerolite, Ramco Hilux, USG Borals, Anutone, Kanuf , |
| (v) | Gypsum Board False Ceiling/Partition and frame work | Saint Gobain Gyproc, USG Board India (P) Ltd., Everest, Ramco, Lafarge Gypsum India Pvt. Ltd, Armstrong world Industries |
| (vi) | Stone Wool False ceiling | Rockfon, Armstrong, Hunter Douglas,Tromer, silenzo+ |
| (vii) | Sound Isolation False Ceiling & wall Panelling | Rockfon, Armstrong, Hunter Douglas, Anutone |
| (viii) | Metal Jali / Aluminium / U-Baffle / Open Cell / Wooden Laminated/ ACP False Ceiling i/c Framework | USG Knauf, Hunter Douglas, Lindner AG, Techno Ceiling, Armstrong, Anutone, Dwall Metallic, Silenzo+ |
| (ix) | Rock Wool / Glass Wool Rockwool / Glasswool nsulation | Rockwool (Roxul), Lloyd Insulations, Saint Gobain Gyproc, Dhanbad Rockwool, Dexune, Twiga Fiberglass |
| (x) | Fibre Cement Board | HIL (Birla Aerocon), Bison (NCL), RAMCO Hicem, Everest, Visaka Industries, Dexune |
| (xi) | Extruded Polystyrene Insulation Board | Du-Pont, Dow Corning, Supreme, Texas, Analco, Unitech-ikk, Sika |

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| (xii) | Acoustic False Ceiling/ Panels, Wooden perforated wall panelling & false ceiling | Abound Overseas, Himalyan, Enviritech System, Gettone, Armstrong, Anutone, Silenzo+ |
| (xiii) | Acoustic Insulation | U.P. Twiga fiber glass Ltd, Lloyd Insulation (India) Ltd, Saint Gobain Gyproc India, Himalyan Acoustics, Knauf Gypsum India Pvt. Ltd., Anutone Acoustics Ltd. |
| 9.0 | Doors / Windows / Woodwork / Furniture | |
| (i) | Automatic sliding Glass doors with complete mechanism | Auto Ingress, Godrej, Dorma, Taiton, Geze, Saint Gobain |
| (ii) | Flush Door Shutter | OEM shall have valid IS Certificate at the time of manufacturing of doors. Greenlam Ply Industries Ltd., Durain Pvt Ltd, , Kitply Industries Ltd.,, Kenwood Ply & Board, Century Flush Doors, Durain, Greenply, Archid Ply, Kutty, |
| (iii) | Ply Wood / Block Board (Water Proof Plywood, Commercial ply, Fire retardant ply and Block boards) | Merino, Green ply Industires Ltd., Kitply Industries Ltd., Duro Ply Industries Ltd., Century , Green lam Flush Doors |
| (iv) | Laminated Particle Board / Veneered Particle Board | Greenlam, Century, Archidply, Merino, Action Tesa, Duro, Durain |
| (v) | (Prelaminated particle board Exterior Grade) | GVK Novopan Industries Pvt Ltd., Marino laminates, Kit PlyIndustires Ltd, TESA Action Co., Ecoboard Industries Ltd., Associate Décor Limited, Archid ply industries Ltd., Centuary MDF, Green lam Industries Ltd., |
| (vi) | Laminates/Veneers | Greenlam, Merino, Sunmica, Royal Touche, Formica, Virgo, Decolam |
| (vii) | Acrylic Sheet/ Acrylic Laminate | Rehau, Fenix |
| (viii) | Wood Polymer Composite (WPC) Board/ Door Shutter/ Door Frame | Floresta, Rajeswari Products Pvt Ltd (Rajshree), Alstone Industries Pvt Ltd, Century, Falcongreen, Greenply |
| (ix) | Factory made Wooden Door Frames | Jain Doors Pvt. Ltd., Jain Wood Industries, Raavella Industrials (P) Ltd, Greenlam Ply Industries Ltd., A-1 Teak Products Pvt Ltd., Kitply Industries Ltd., Duro Ply Industries Ltd., Kenwood Ply & Board, Century Flush Doors, Durian |

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| (x) | UPVC Doors & Windows (UPVC doors, frames and windows) | Alu Alpha India (Aluplast), Duroplast, Pabros, Fenasta, Rehau Unlimited Polymer Solutions, Profine India Window technology Pvt Ltd (Komarling)., , NCL Veka Ltd., Aparna Enterprises Ltd., Madhu Industries (PROMINANCE) |
| (xi) | G.I. Steel Door Frame | Kutty Doors, Shakthi Hormann Pvt Ltd, NAVAIR International Pvt Ltd, Synergy Thrislington, APL Apollo, Shakti-met (Shakthi Hormann Pvt Ltd,) |
| (xii) | Non-Metallic Fire door | NAVAIR International Pvt Ltd, Promat fire & Insulation (P) Ltd., Godrej Security solutions, Jain Doors Pvt Ltd, Jain Wood industries, Shakti-met (Shakthi Hormann Pvt Ltd,), Bangalore Protech, Shakti, Kenwood, Verotech |
| (xiii) | Fire Rated Metal / Wooden / Acoustic Doors (Glazed / Unglazed / sliding) (Metalic / Steel Fire Door) | Shakti-met (Shakthi Hormann Pvt Ltd,), Pacific, Navair International Pvt Ltd, ASES, Pyrotech, GMP, Sukriti, Bhawani Fire, Promot fire & Insulation (P) Ltd., MPP Technology Pvt. Ltd., Kenwood Ply & Board, Godrej Security solutions, Orient. |
| (xiv) | Fire Rated Glass | Pilkington India, Firelite, Saint GobainIndia Pvt. Ltd.,Asahi, Pyroguard Promat fire & Insulation (P) Ltd., Schott glass India Pvt. Ltd., |
| (xv) | Tempered reflective / clear glass | Saint GobainIndia Pvt. Ltd., FUSO Glass India Pvt. Ltd., Gurind India, Asahi India glass Ltd, Gujarat Guardian Ltd (Modiguard), Impact safety glass workes Pvt Ltd |
| (xvi) | Hardware for Fire Check Doors (Fire rated hardware) | Dorma, Assa Abloy, Geze, Hormann, Dorset, Becker FS, Kich Ingersolrand (India) Ltd, Dorset Industries Pvt Ltd, |
| xvii) | S.S. Hardware, Door & Window Fittings, Hinges | Dorma, Godrej, Hafle, Hettich, Kich, assa abloy, dorset |
| (xix) | Butt Hinges | Hafelee India Pvt. Ltd, Earlt Bihari India Pvt. Ltd., Dorma India Pvt. Ltd, D.P. Garg Pvt Ltd., Delhi, Dorset Industries Pvt Ltd, Alu Alpha India |
| (xx) | Mild Steel Butt Hinges / Piano hinges | Jolly Engineering works, Supreme, Saswat, Deepak, Swift screws, D. P Garg & Company, Lovely metal industries Pvt Ltd., Jyoti rchitectural Pvt Ltd., |
| (xxi) | Stainless steel Box type hinges | Haflee Industries, HettichIndustries,Ozone Hardware, Kich India Ltd, Dorma India Pvt Ltd |
| xxii) | Concealed tower bolt | Dorma India Pvt Ltd, Ingersoll Rand (India) Ltd, D.P. Garg Pvt Ltd., Delhi, Dorset Industries Pvt Ltd, Alu Alpha India |
| xxiii) | Stainless steel | SAIL, JSW, SAIL, |

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| xxv) | Stainless steel pressure plate screws | Kundan Industries Ltd, Pooja steel corporation, Atul fasteners Ltd |
| xxvi) | High Density (HDF) Prelaminated board | Red Floor India (PERGO), Green Ply Industries Ltd. |
| xxvii | Gypsum board | Saint Gobain Gyprock India Ltd., Lafarge Gypsum India Pvt. Ltd, USG Board India (P) Ltd., Armstrong world Industries, |
| xxviii | Glass door hardware | Dorma India Pvt Ltd, Kich Architectural Products Ltd., Classic hardware, D.P. Garg Pvt Ltd., Hafele India Pvt. Ltd, Taiton, Ozone Hardware., Dorset Industries Pvt Ltd., |
| xxix) | PVC Doors and Frames | Accura Polytech Pvt. Ltd, Sintex Plastic technology Ltd, Duroplast extrusion Pvt Ltd, Polyline extrusion Pvt. Ltd., Rajshri Productions Pvt. Ltd., NCL VEKA Ltd., |
| xxx) | PVC Door Frames& Shutters | Rajshri Productions Pvt. Ltd., Plasti wood, Sintex Plastic technology Ltd., Accura Polytech Pvt. Ltd., Duroplast extrusion Pvt Ltd, Polyline extrusion Pvt. Ltd., NCL VEKA Ltd. |
| xxxi) | Locks & Latches | Yale, Dorma, Godrej, Hafele, ASSA ABLOY, |
| xxxii | Fire Smoke Seal | Hilti India Pvt Ltd., Promat fire & Insulation (P) Ltd., Bostik India Pvt Ltd, Atroflame Ltd., Raven Global |
| xxxiii | Fire Sealant | Hilti, 3M India, Wuerth, Fischer, Fosroc |
| xxxiv | Panel Doors / Wire Mesh Door shutters | Jain Doors Pvt. Ltd., DS Doors Pvt Ltd., SR Timbers & interiors., Mahalasa Design Doors., Shyamala Interiors & Doors., Micro Art Furniture., Elite Doors., A-1 Teak Products Pvt., Ltd., |
| xxxv | Brass Hardware | Magnum (Mukund Overseas), Artistick's (Artistic Art Forum), EPPW, Décor, Palladium |
| xxxv | Friction Stay Hinges (Stainless friction hinges) | Hettich, Kich, Hafle, Dorset, Securistyle India Pvt. Ltd., Earl Bihari India Pvt. Ltd., EBCO, ROTO Frank Asia, D.P. Garg Pvt Ltd., Kinlong Industries |
| xxxv | Friction stays hinges | Earl Bihari Pvt. Ltd., D.P. Garg Pvt Ltd., Delhi, Kinlong Industries |
| xxxv | Floor Spring / Hydraulic Door Closer | Dorma, Yale, Hafele, GEZE, Assa Abloy, Dorset, Becker FS |
| xxxix | Floor spring | Dorma India Pvt Ltd, Geze, Godrej Industries, Ozone Hardware. |
| (xl) | Modular Workstations | Godrej, Space wood, Viak, Durian, HNI, Steelcase, Fuego, Ergo Space |

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| (xli) | Modular Office & Home Furniture – Table, Chair, Sofa, Bed, Dining Table / Chairs etc. | Godrej, HNI, Steelcase, Fuego, featherlite, rockworth |
| xliii) | Storage - Compactors, Metal Almirah etc. | Godrej, Compress, HNI, Rockworth, Ergospace |
| (xlv) | Aluminium Glazed Partition System | Kubik, Jeb, Lycos |
| xlvi) | Window Blinds, blackouts, curtains, etc. | Vista, Deck, Huntar Douglas, Marvel |
| xlvii) | Window Roller / Zebra Blind / Curtains | Aerolux, Hunter Douglas, Deck, D'Decor |
| xlviii) | Cubicle Track & Curtain System | Toso, Forest, Deck, Hunter Douglas, |
| xlix) | Lead lined doors | Tata Pravesh, Shakti-met, Pacific, Navair, Sukriti, Bhawani, ASES, 4C Fire |
| (l) | Auditorium chair | Wipro, Godrej, HNI, Steelcase, Featherlite |
| (li) | Steel Windows / Pressed Steel Frames | Madhu Industries, San Harvic, NCL Industries, Shakthi Hormann Pvt Ltd |
| 10.0 | Finishing Works | |
| (i) | Ready mix cement plaster | Ardex Endura, Ferrouscrete, Pidilite, FOSROC, Sika Ultratech cements Ltd., Saint Gobain Gyproc India, Ultra tech Cement Ltd., Ferrous Crete (India) Pvt. Ltd., Jindal Steel Works Pvt Ltd |
| (ii) | Gypsum Plaster / Ready Mix Plaster / Polymer modified self-curing Mortar Ready made / Gypsum Plaster | Saint Gobain (Elite 90), Ardex Endura, Pidilite, FOSROC, Ferrous Crete, Asian paints Ltd., Gyproc India., Ultratech cements Ltd., |
| (iii) | Cement Primer | Nerolac, Berger paints India Ltd. (Berger), Decoprime WT(Asian), White primer (ICI), Acro paints, Shalimar Paints India Ltd., Asian Paints, JK Cement Ltd. |
| (iv) | Water Proof Cement paint | Asian paints Ltd, Berger Paints, Surfacoats (India) Pvt. Ltd., ICI Ltd, Snowcem Paints, |
| (v) | Cement Based & Acrylic Wall putty | Birla HIL, JK White, Asianpaints, Ferrous Crete, Acro Paints, Weber (Saint Gobain), Shalimar Acrylic Putty Birla Cements Ltd., NCL Alltek & seccold Ltd., Berger Paints, Nerolac, Nippon Paints |
| (vi) | Oil Bound Washable Distemper | Asianpaints, Nerolac, Berger, Dulux ICI, Birla Opus, JSW |
| (vii) | Dry Distemper | Asianpaints (Professional Acrylic Distemper), Nerolac: (Beauty Acrylic Distemper), Berger (Bison Acrylic Distemper), Dulux ICI (Maxilite) |

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| (viii) | Acrylic Distemper (washable / Real mix / Low VOC) | Asianpaints (Tractor Aqua Lock Paint), Berger (Commando) Acro Paints (Aqualin AWD) or equivalent paints of Nerolac or ICI-Dulax |
| (ix) | Acrylic Emulsion Paints | Asianpaints (Professional Premium Interior Emulsion Paint), Nerolac (Beauty Gold), Berger (Rangoli total care), ICI-Dulux (Super Cover), Acro Paints (Acropearl), Shalimar Paints (Superlac Advance) |
| (x) | Texture Finish | Asian paints, Bakelite & Hylam, Heritage, Ultratech Texture Paints, Berger, Spectrum |
| (xi) | Acrylic Exterior Textures | Asian Paints, Berger paints India Ltd., Akzonobel, Ebco, Nerolac Paints Ltd, Nippon, Birla Opus |
| (xii) | Exposed Concrete Texture Finish | Ultratech Texture Paints, Armourcoat, Oikos, Heritage, Spectrum, Berger, Shalimar Paints |
| (xiii) | Steel Primer (Red Oxide Zine Chromate Primer) | Asianpaints, Nerolac, Berger, ICI-Dulux, Acropaints, Shalimar Paints. Nippon Paint India Ltd. |
| (xiv) | Synthetic Enamel Paint | Asian (Apcolite Premium gloss enamel), Nerolac (Synthetic Hi gloss), Berger (Luxol Hi gloss), ICI-Dulux (Gloss Synthetic Enamel), Acro paints (Acrogold), Shalimar Paints (Superlac Hi-gloss) Nippon Paint India Ltd. |
| (xv) | Paint - Texture Concept Paints (Interior) Acrylic textured plaster | Asianpaints, Ultratech Texture Paints, Berger, acro paints, Shalimar Paints Spectrum paints Ltd., Heritage Rajkamal Group, Nerolac Paints |
| (xvi) | Paint - Anti carbonation paint | Fosroc Chemicals, Pidilite, BASF, Asianpants, Sika, Berger, Shalimar Paints |
| (xvii) | Anti Corrosive bitumastic paint | Berger paints India Ltd., Shalimar paints India Ltd., Asian Paints, Fosroc Chemicals |
| (xviii) | Wood Primer Pink Wood primer | Asianpaints, Berger, ICI-Dulux, Nerolac, Shalimar Paints, Shalimar Paints, Nippon Paint India Ltd. |
| (xix) | Melamine Polish for wood work | Asian Paints Melamine Gold, Wudfin of Pidilite, Timbertone of ICI-Dulux, MRF. Polycure Malaysia |
| (xx) | PU Polish for wood work | ICA, MRF, Asian, Berger |
| (xxi) | Epoxy Paint | Asian, Nerolac, Berger, ICI, Kansai Akzo Nobel, Weber (Saint Gobain), Fosroc, Shalimar Paints, MRF paints, Ardex Endura India Pvt. Ltd, Nerolac paints, Fosroc India pvt. Ltd. |
| (xxii) | PU Enamel Metallic Paints on MS Structure & Epoxy paints (Premium Quality) | Akzo nobel, Asian Paints, Berger paints India Ltd., MRF Paints |
| (xxiii) | Fire Resistant Paint Fire retardant paint | Asian paints, Akzo Nobel Coatings India Ltd., Viper, Shalimar Paints. Jotun paints, Bostik India Pvt Ltd, Hilti India, |

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| (xxiv) | Acrylic smooth exterior paint | ICI Ltd, Asian Paints, Nerolac Paints, Berger Paints, Nippon paints |
| (xxv) | Siloxane Based Resin | Sika India, Fosroc India, Pidilite, Bostik, Ultratech, Asian paints, Bakelite & Hylam, Heritage, Ultratech Texture Paints, Berger, Spectrum |
| (xxvi) | Terracotta Cladding Tiles | Hunter Douglas NBK, Moeding, Agrob-Buchtal, Palagio, NLF |
| 11.0 | Water Supply & Sanitary Works | |
| (i) | Stainless Steel pipe and fitting of grade AISI 304 as per JIS standard 3448 for water supply line & Fittings | SAIL(Salem Steel), Jindal, Aquinox, Pegler, Kantherm |
| (ii) | G.I. Pipe | Tata Steel, Jindal Pipes, Surya Roshni, APL Apollo,<br>Zenith Birla (India) Ltd., HISSAR, |
| (iii) | GI Pipe Fittings | Unik, Zoloto, Surya, Jinda Pipesl, Tata Steel Unik malleables, HB Industries, Sgreesamarth Engineers,<br>ICS |
| (iv) | U-PVC pipe and Fittings UPVC Pipes and fittings<br>(Rain water pipes) | Supreme, Finolex, Astral, Prince, Ashirwad PVC |
| (v) | HDPE, PPR & C-PVC pipe and Fittings CPVC ipes and fittings | Supreme, Finolex, Astral, Prince, Ashirwad PVC |
| (vi) | M.S. Black Pipes | Tata, Jindal, SAIL, Surya |
| (vii) | SANITARY WARE& FLUSING CISTERNS | Kohler / Roca / Duravit / Toto / Jaquar / Grohe |
| (viii) | CP FITTINGS AND BRASSWARE | Kohler / Grohe / Hansgrohe / Jaquar /<br>/ Roca/ Grohe |
| (ix) | BATHROOM ACCESSORIES | Kohler / Jaquar / Grohe / Hansgrohe / Roca /<br>American Standard / Keuco/ Cera |
| (x) | GRAB BARS AND ACCESSIBILITY ITTINGS | Kohler / Jaquar / Hewi / Ponte Giulio / Kolo / Hodi /<br>Toto / American Standard/ Euronics / Dolphy / SignXpress |
| (xi) | DRAINAGE FIXTURES AND FLOOR DRAINS | Geberit / ACO / Blucher / Viega / Jaquar / Kessel, chilly , camry |
| (xii) | KITCHEN AND UTILITY FIXTURES | Kohler / Franke / Grohe / Jaquar / American Standard<br>/ Carysil / Nirali / Hafele / Ruhe |
| (xiii) | Urinal Frosted Glass partition | Greenlam, Jaquar, Merino, Fundermax, Roca |

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| (xiv) | Sensor Operated Urinal Sensor Based Auto Flush System | Jaquar, Euronics, Hindware, Kerovit, Cera, Somany |
| (xv) | Glass | Saint Gobain, Modi Guard, Atul, Pilkington, Saint Gobain India Pvt. Ltd., Asahi India glass Ltd., Pilkinton India, Gujarat Guardian Ltd., Glaverbel India |
| (xvii) | Gun Metal Valves/Sluice Valves/ Air Release Valves Gun metal Valves | Zoloto, Audco (L&T), Castle, Leader Valves, SKS Sant valves Pvt Ltd, L&T Valves |
| (xviii) | Sluice Valve / Pressure Reducing valve / Non-Return valve / check valve / Butter fly valve / ball valve Water supply Valves | Zoloto, Kirloskar, Leader Valves, SKS, Castle, Audco (L&T) leader valves Ltd., Arco valves Pvt. Ltd., Kirloskar Brothers Ltd |
| (xix) | Air release valve | Kirloskar brothers Ltd., AFS Ltd., Kartar valves private Ltd., |
| (xx) | Toughened Valve (Ball Valve) | Prayag Polymers (P) Ltd, Leader valves Ltd., Zolota Industries, IBP Industries, Arco valves Pvt. Ltd., |
| (xxi) | Toilet Cubicles | Merino-Besco (Titan Series), Greenlam (Sturdo Classic), Trespa, Dorma, Duramax, Funder Max, Arborite |
| (xxii) | Glass Shower Partition | Dormakaba, Kich, Hafelle, Jaquar, Kohler, Kerovit |
| (xxiii) | Insulation for external / exposed hot water pipes | KAIFLEX, ARMAFLEX, CAREFLEX |
| (xxiv) | Pipe Protection for External Water Supply Pipes | PYPKOTE, ARMAFLEX, AKPOLYKOTE |
| (xxv) | Water Meter | Prima, Kranti, Leader, Zoloto, Dashmesh |
| (xxvi) | Brass Stop & Bib Cock | Zoloto, Sant, L&K, Leader, |
| (xxvii | Brass Ferrules | Dhawan Sanitary Udyog (PRIMA), Annapurna, Kalsi |
| xxviii | PVC water storage tank PVC / HDPE water storage tanks | Syntex, Amitex, SPL, Vectus Industries Ltd., Kaveri Ind Ltd, Supreme Industries Ltd., |
| (xxix) | SWR PVC Pipes & fittings | Supreme Industries Ltd., Astral polytechnik Ltd., Finolex Industries Ltd., Ashirwad PVC Pipes, Prince Pipes and fittings |
| (xxx) | CI double flange sluice valve | Kirloskar brothers Ltd., AFS Ltd., Indian valves private Ltd., Zolota Industries, Leader valves Ltd. |
| (xxxi) | CI double flanged non return valve | Kirloskar Brothers Ltd., Fluidtech, Zolota Industries |
| (xxxii | RCC Pipes | Indian Hume Pipe Ltd., Madurai spun pipe company, Lakshmi Sood & Sood Pipe Co., Jain spun pipes Co., Mohan Hume Pipe, Bangalore Cement Pipes |

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| xxxiii | Plastic Encapsulated Foot Rest | KK Manhole and gratings Co Pvt Ltd., KGM Exports,<br>Accurate Buildcon company |
| xxxiv | PVC Perforated Pipes | Rex Polyextrusion Ltd, Akash Enterprises, Zenplas Pipes Pvt. Ltd., Supreme Industries |
| (xxxv | Laboratory Pillar Cock (One- Way) with 360° Swivel Spout | Jaquar (Lab Series) / Hindware Commercial / Zoloto<br>/ Euronics / Anatomix |
| 12.0 | Drainage | |
| (i) | Soil Waste / Vent Pipes and Fittings: | |
| | a) Hubless Centrifugally Cast Spun Iron Pipe and fittings | NECO, SKF, Hepco, Saint Gobain, |
| | b) Centrifugally (Spun) CI Pipes Class 'LA' / Ductile Iron Pipe Centrifugally Caste<br>(Spun) Iron Soil Pipes | Kesoram, Electro Steel Castings Ltd., NECO Jayaswal Neco Ltd, SKF Industries, Hepco, Bengal Iron Corporation, Jayaswal Neco Ltd., Raj Pattern Makers and Founders Pvt. Ltd. |
| (ii) | Centrifugally<br>(Spun) Cast Iron | Electrosteel castings Ltd., Jindal saw Ltd., Kesoram Industries Ltd., Electrosteel castings Ltd. |
| (iii) | Spun cast iron fittings | Jayaswal Neco Ltd., KartarValves Private Ltd., Electrosteel castings Ltd., SINGHAL IRON<br>FOUNDRY Pvt. Ltd., |
| (iv) | Spun cast iron covers & gratings | Jayaswal Neco Ltd, Sri Jagannath Iron Foundry Pvt. Ltd., Kapilansh Dhatu Udyog(P)Ltd., SINGHAL IRON FOUNDRY Pvt. Ltd., |
| (v) | C.I. Manhole covers, frames & GI Gratings CI Manhole cover | NECO, BIC, RIF, SKF, HEPCO, Kapilansh, Jayaswal Neco Ltd., Bengal iron corporation |
| (vi) | SWR PVC Pipes And Fittings | Supreme, Finolex, Prince, Astral |
| (vii) | Unplasticized Non-Pressure Polyvinyl Chloride (PVC-U) Pipes underground conforming to IS: 15328- 2003 & Fittings | Supreme, Prince, Astral, Finolex, Ashirvad |
| (viii) | Low noise system rainwater pipes and fittings made of mineral reinforced Poly<br>Propylene | Supreme, Astral, Finolex, Ashirvad |
| (ix) | Drainage AC/HDPE Pipes | Jain Pipes, Oriplast, Reliance, MAZZA AC Pipes, Supreme |
| (x) | DI Pipes & Fittings | Supreme, Electrosteel, Jindal, TATA DUCTURA, Kapilansh, |

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| (xi) | SFRC Manhole covers & gratings | KK, JAIN, PRAGATI KK Manhole and gratings Co Pvt Ltd., Advent concrete vision, Kutty Industries, Nu-<br>Tech concrete products (P) Ltd., Tulshi Concrete |
| (xii) | FRP Manhole covers, Drain Covers & gratings | Dudhi, Neco, HP, Indo Gyp |
| (xiii) | FRP Door Frames & Shutter | Jain Doors Pvt. Ltd., Jain Wood Industries, Meena Fibre Glass, Fibro plast., Duroplast extrusion Pvt Ltd., |
| (xiv) | Floor Drain, Linear Shower Channel with Tile Insert Outlet, Point Drain for Bathroom Areas, Balcony Drain Channel, Parapet<br>Drain | Geberit / Euronics / Viega / Nugreen / OCEO |
| (xv) | Basement Drain, External Landscape Drainage System, External Drainage with Terrace Water, Cross Drainage System, Storm<br>Kerb Drainage System | Geberit / Euronics / Viega / Nugreen / OCEO |
| (xvi) | Kitchen Drain / Pantry Drain | MEA / ATT / Nugreen / Blücher / Schluter / Geberit /<br>Viega |
| (xvii) | Basement Toilet Lifting Station, Automatic Grease Separator Pump | KESSEL / ACO / Nugreen / Green Genra / Wyuna Separation Technology / Potnis/ Sulzer / Hidrostal / Grundfos / Xylem |
| (xviii) | Basement Drain-Parking & Peripheral Drain | ACO / MEA / Nugreen/ Hauraton / ULMA / Fibrelite /<br>Superdrain |
| (xix) | Oil & Grease Separator (Hydrocarbon Separator) for Basement Drainage | KESSEL / ACO / MEA / Nugreen/ Watropur / Hughes / Eurodrain |
| (xx) | Plastic Encapsulated Foot Rest | KK India, KGM, Accurate Buildcon |
| 13.0 | Stainless Steel & Glass Works | |
| (i) | Modular SS-304/316 Grade / Glass Railingwith SS-<br>304/316 grade Hardware | Dorma, Jindal, GEZE, Q-Rail, Technorail, Kich, Koncept, Pabros |
| (ii) | Stainless Steel Sink (Out of Salem steel) Stainless Steel Kitchen sink | Neelkanth, Nirali, Jayna, Silver shine Prision Johnson Ltd., Pheonix Appliances Pvt. Ltd., Centaury poly tech, Jyoti (India) metal Industries Pvt Ltd., HSIL Ltd., Franke India Ltd., Futura Kitchen Sinks India Pvt. Ltd, Diamond, Hindware, Carysil |

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| (iii) | Toughened Glass | Saint Gobain, AIS Glass, Modi Guard, Gold Plus, Asahi India glass. Ltd., Pilkinton India Pvt. Ltd., Gujarat Guardian Ltd. |
| (iv) | High Performance Glass | Saint Gobain, Modi Guard, AIS Glass, Gold Plus |
| (v) | Lacquered Glass | Saint Gobain Glass, AIS Glass, Art N Glass, Guardian |
| (vi) | Glass Processor for making DGU / Toughening | Art N Glass, Shankar Tuff, AIS Glass, Gold Plus |
| 14.0 | Miscellaneous | |
| (i) | SS Dry Cladding Anchor with SS Clamp | Hilti, Fisher, Wuerth, Trixel, Koncept |
| (ii) | Solid Acrylic Surface Boards | Dupont, LG Hi Macs, Neonnex, Hanex, GMGR India |
| (iii) | Modular Expansion / Seismic Joint System | Hercules, Sanfield, MigUA, VR Engineers |
| (iv) | Solid Surface (Corian) | Dupont, Neonnax, LG, Samsung |
| (v) | Window Blinds | Vista, Deck, Hunter Douglas, MAC, TRAC |
| (vi) | Modular Rainwater Harvesting system | Retas Enviro Solutions Pvt Ltd, Bantair Pvt Ltd, Adwyn Impex Pvt Ltd, Life green system Ltd |
| (vii) | Precast GRC / Sand Stone Jali (Screen) | Unistone, Dalal, Birla GRC, Sanderson Terrafirma GRC Industries., Ecovision Industries Pvt. Ltd., Mahesh Prefab Pvt Ltd., |
| (viii) | Wall Paper | D'décor, Lifencolours, India Circus, Ego, Vescom, Nilaya by Asian Paints, Muraspec, Marshalls |
| (ix) | XPS Board / Dimple board | Delta, Tikidan, Fosroc, Hyflux. |
| (x) | Wall Guard / Column Guard /Corner guard | Wallpro, C/S Group, SPM International |
| (xi) | Expansion Joint Bitumen board | Supreme industries, Insuboard, Soprema, Own corning, Technonicol, Fosroc |
| (xii) | Concrete / HDPE / Grass grid pavers Grass Paver | Ovilite Industries, Eco Vision Industries, Dalal, Unistone Uni-stone, Ultra Ltd. |
| (xiii) | Drain board | Ovidrain, Tikidan, Technonicol, Virendra textile, Soprema |
| (xiv) | Expansion Joint filler / Joint covers | Vexcolt International Ltd, Construction Specialities, Sainfield, Hercules, MIGUA, Mapei, Balco India, Z-tech, Inprocorp, Moldo Sports, Fosroc |
| (xv) | Window Roller / Zebra Blind / Curtains | Aerolux, Hunter Douglas, Deck, D'Decor |
| (xvi) | Base Isolation System | Ceco-Hirun, Dynamic, Robbinson |
| (xvii) | Signages | 247 Sign (Ergomax), Klikin (Ins & Out), Cosign India |
| (xviii) | Post tensioning System | Crux Processing systems Pvt Ltd., VSL India Pvt Ltd., Utracon Structural Systems Pvt Ltd, BBR (India) |

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| | | Pvt. Ltd |
| (xix) | PT Strands | D.P Wires Ltd., TATA Steel Ltd., Usha Martin Ltd |
| (xx) | Chlorpyrifos | AMVAC AGRI RASAYAN Pvt. Ltd., (Pyramid),<br>Chemet Wets & Flows Pvt. Ltd., (NOBAN), DE-NOCIL Ltd., (DURSBAN TC), Bayer Ltd, (Premise Agenda), Hindustan Insecticides Ltd., (HILBAN), Sarup's Pest Control Ltd., |
| (xxi) | Thermal Insulation treatment | Pidilite industries, BASF, Rock India Pvt. Ltd, Fosroc |
| (xxii) | Interlocking Concrete Paver Blocks | Ultra tiles Pvt Ltd., Shree Bharat Paver blocks, Hindustan tiles Ltd, NITCO Ltd, Regency, Basant Betons Pvt Ltd, Dazzle, Vyra Tiles |
| (xxiii) | Solar studs / Median markers | 3M Science, Avery Dennison India Pvt Ltd., Nippon<br>carbide Industries (USA) |
| (xxiv) | Play Equipment | Koochie Play Systems Pvt. Ltd, Play world Systems<br>India |
| (xxv) | Bitumen Impregnated Board | Shalimar Tar Products (HD100), Deep Polymer Ind.,<br>Jolly Rubber Ind., Supreme Industries (Dura fill) |
| (xxvi) | Polyethylene backer rod | Supreme Industries, Kubhera Insulations, Softech Industrial Products Pvt Ltd., |
| (xxvii | Air transfer grills | Cool grills, Pune, System air India Pvt. Ltd., |
| xxviii | Fire Curtain | Orient, Colt, BLE, Cooper |
| (xxix) | Expansion Joint Profile Systems | Arpita / MigUA / Hercules / Sanfield / Construction Specialities/ Pidilite Industries |
| (xxx) | Precast Concrete Products- Storm Water Drains (U-shaped / Trench sections), Manholes, Catch Pits, Inspection Chambers, Box Culverts, Underground Water Tanks, Retaining Wall Panels, Boundary Wall Panels and SFRC Covers | Advent Concrete Vision, KK Manhole and Gratings Co. Pvt. Ltd., Nu-Tech Concrete Products (P) Ltd., Pragati Concrete Products, Kutty Industries, APR Precast Pvt. Ltd., National Precast Concrete (India) Pvt. Ltd., AVSTech Building Solutions India Pvt. Ltd., Arto Precast Concrete, Excel Precast Solutions Pvt. Ltd. \| |

**NOTE:** **Equivalent material and finishes of any other specialized make may be used, in case it is established that the brands specified above are not available in the market but only after approval of the alternate brand by the Engineer In-Charge, CPWD, Bangalore.**

Insertion : Nil Correction : Nil Omission : Nil AE-(P)

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

**No. DG/CON/Maintenance 2023/02**

**ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD**

Nirman Bhawan, New Delhi Dated: 08.12.2023

**Subject: Modifications in Conditions of Contract, Clause 5 and schedule F in clause 5 of GCC 2023 Maintenance Works**

The following amendments are made in the GCC 2023 for Maintenance works.

| Existing Provision | Modified Provision |
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| **CONDITIONS OF CONTRACT**<br><br>**Definitions**<br><br>2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:-<br><br>(i) to (xvii)<br><br>(xviii) No provision | **CONDITIONS OF CONTRACT**<br><br>**Definitions**<br><br>2. No change:-<br><br>(i) to (xvii) No Change<br><br>**(xviii) Concurrent delay: Concurrent delays are those delays occurring in the work concurrently in any combination or combination of all delay fall under different sub clauses 5.2, 5.3 and 5.5.** |
| **Clause 5 Time and Extension for Delay**<br><br>The time allowed for execution of the Works as specified in the Schedule 'F' or the extended time in accordance with these conditions shall be the essence of the Contract. The execution of the work shall commence from such time period as mentioned in schedule 'F' or from the date of handing over of the site, notified by the Engineer-in-Charge, whichever is later. If the Contractor commits default in commencing the execution of the work as aforesaid, the performance guarantee shall be forfeited by the Engineer in Charge and shall be absolutely at the disposal of the Government without prejudice to any other right or remedyavailable in law. | **Clause 5 Time and Extension for Delay**<br><br>The time allowed for execution of the Works as specified in the Schedule 'F' or the extended time in accordance with these conditions shall be the essence of the Contract. The execution of the work shall commence from such time period as mentioned in schedule 'F' or from the date of handing over of the site, notified by the Engineer-in-Charge, whichever is later. If the Contractor commits default in commencing the execution of the work as aforesaid **and such default continues even after time period specified in the notice in writing by the Engineer-in-Charge then** the performance guarantee shall be forfeited by the Engineer-in-Charge and shall be absolutely at the disposal of the Government without prejudice to |

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Insertion : Nil Correction : Nil Omission : Nil AE-(P)

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| | any other right or remedy available in law.<br>**The contract shall stand determined when such decision of forfeiture of the performance guarantee is issued to the contractor.** |
| 5.1 As soon as possible but within 7 (seven) working days of award of work and in consideration of | 5.1 **The contractor** as soon as possible but within 7 (seven) days of **issue of letter of** award of work **shall submit a time and progress chart to the Engineer-in-Charge. Such chart shall be made in due** consideration of |
| a. Schedule of handing over of site asspecified in the Schedule 'F'<br>b. Schedule of issue of designs as specified in the Schedule 'F', | a. Schedule of handing over of site as specified in the Schedule 'F'<br>b. Schedule of issue of design(s) **and drawing(s)** as specified in the Schedule 'F', |
| i. the Contractor shall submit a Time and Progress Chart for each mile stone. The Engineer-in-Charge may within 7 (seven) working days thereafter, if required modify, and communicate the program approved to the contractor failing which the program submitted by the contractor shall be deemed to be approved by the Engineer-in- Charge. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Engineer-in-Charge and the Contractor within the limitations of time imposed in the Contract documents. | i. The Contractor shall submit a Time and Progress Chart for each milestone. The Engineer-in-Charge may within 7 (seven) days **of receipt of such chart, make modifications thereafter,** if **any,** and communicate the approved **chart** to the contractor**,** failing which the **chart** submitted by the contractor shall be deemed to be approved by the Engineer-in- Charge. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Engineer-in-Charge and the Contractor within the limitations of time imposed in the Contract documents. |
| ii. In case of non-submission of construction programme by the contractor, the program approved by the Engineer-in-Charge shall be deemed to be final. | ii. In case of non-submission of **time and progress chart** by the contractor, the **chart prepared by the** Engineer-in- Charge shall be deemed to be final. |

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| iii. The approval by the Engineer-in-Charge of such programme shall not relieve the contractor of any of the obligations under the contract. | iii. The approval by the Engineer-in-Charge of such programme shall not relieve the contractor of any of the obligations under the contract. |
| iv. The contractor shall submit the Time and Progress Chart and progress report using the mutually agreed software or in other format decided by Engineer-in-Charge for the work done during previous month to the Engineer-in-charge on or before 5th day of each month failing which a recovery as per Schedule F to be decided by the NIT approving authority shall be made on per week or part basis in case of delay in submission of the monthly progress report | **iv.** The contractor shall submit the Time and Progress Chart **containing upto date progress of work** using the mutually agreed software or in **the** format decided by Engineer-in-Charge. **Such chart shall be submitted by the contractor on or before 5th day of each month failing which a recovery as mentioned in Schedule 'F' shall be made at the earliest from running account bill without any notice in this regard.** |
| v. **No provision** | **v. While recording the hindrances in the progress of the work, due consideration should be given to the cause of hindrance. The hindrances shall be segregated in following categories :**<br>**a) delays due to reasons beyond the control of both parties (sub-clause 5.2)**<br>**b) delays attributable to the Department and concurrent delays (sub-clause 5.3).**<br>**c) delays solely attributable to the contractor (sub-clause 5.5)** |
| **5.2**<br>If the work(s) be delayed by:-<br>i. force majeure, or<br>ii. abnormally bad weather, or<br>iii. serious loss or damage by fire, or<br>iv. civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work, or<br>v. delay on the part of other contractors or tradesmen engaged by Engineer-in-Charge in | **5.2 Delays due to reasons beyond the control of both parties:**<br>If the work(s) delayed by:-<br>i. force majeure, or<br>ii. abnormally bad weather, or<br>iii. serious loss or damage by fire, or<br>iv. civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work, or<br>v. delay on the part of other contractors or tradesmen engaged by Engineer-in- Charge in |

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| executing work not forming part of the Contract, or<br>vi. any other cause like above which, in the reasoned opinion of the Engineer-in-Charge is beyond the Contractor's control | executing work not forming part of the Contract, or<br>vi. any other cause like above which, in the reasoned opinion of the Engineer-in-Charge is beyond the Contractor's control. |
| Then upon the happening of any such event causing delay, the contractor shall immediately give notice thereof in writing to the Engineer-in-Charge but shall nevertheless use constantly his best endeavours to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-Charge to proceed with the works. | Then upon the happening of any such event causing delay, the contractor shall **within 03 (three) days** give **online** notice thereof **through ERP Portal** to the Engineer-in-Charge but shall nevertheless use constantly his best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-Charge to proceed with the work(s).<br><br>**The contractor shall have no claim on account of any hindrance in case notice(s) are not given by the contractor through ERP portal.**<br><br>**The Engineer-in-Charge, on receipt of such notice(s) after considering the factual ground situation, shall either acknowledge or reject the notice(s)**<br><br>**In case of rejection, the reason(s) for rejection shall be communicated by Engineer-in-Charge to the agency.**<br><br>**The decision of Engineer-in-Charge with regard to nature of event causing delay, its start date and end date, as has been finalized during acknowledgement of notice, shall be final and binding.**<br><br>**The end date of such events shall be recorded by Engineer-in-Charge either during acknowledgment of notice or subsequent to acknowledgement if end date of hindrance is after the date of acknowledgement of notice.**<br><br>**In absence of notice by the contractor, Engineer-in-Charge or his representative(s) may record the events causing delay within 05 (five)** |

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| | **days of occurrence of hindrance on ERP portal provided further that not recording of events causing delay by the Engineer-in-Charge does not ipso facto entitle the contractor for any hindrance.** |
| The contractor shall have no claim of damages for extension of time granted or rescheduling of milestone/s for events listed in sub clause 5.2. | **No change.** |
| 5.3<br><br>In case the work is hindered in the opinion of the contractor, by the Department or for any reason / event, for which the Department is responsible, the authority as indicated in Schedule 'F' shall, if justified, give a fair and reasonable extension of time and reschedule the mile stones for completion of work. | **5.3 Delays attributable to the department**<br><br>In case the work is hindered, in the opinion of the contractor, by the Department or for any reason / event, for which the Department is responsible, **then upon the happening of such event causing delay, the Contractor shall within 3 (three) days give online notice there of through ERP Portal to the Engineer-in-Charge but shall nevertheless use constantly his best endeavours to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-Charge to proceed with the work.**<br><br>**The contractor shall not be entitled for any hindrance in case notice(s) are not given by the contractor through ERP portal.**<br><br>**The Engineer-in-Charge, on receipt of such notice(s) after considering the factual ground situation, shall either acknowledge or reject the notice(s).**<br><br>**In case of rejection, the reason(s) for rejection shall be communicated by Engineer-in-Charge to the agency.**<br><br>**The decision of Engineer-in-Charge with regard to nature of event causing delay, its start date and end date, as has been finalized during acknowledgement of notice, shall be final and binding.** |

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| | **The end date of such events shall be recorded by Engineer-in-Charge either during acknowledgment of notice or subsequent to acknowledgement if end date of hindrance is after the date of acknowledgement of notice.**<br><br>**In absence of notice by the contractor, Engineer-in-Charge or his representative(s) may record the events causing delay within 05 (five) days of occurrence of hindrance on ERP portal provided further that not recording of events causing delay by the Engineer-in-Charge does not ipso facto entitle the contractor for any hindrance.** |
| Such extension of time or rescheduling of milestone/s shall be without prejudice to any other right or remedy of the parties in contract or in law, provided further that for concurrent delays under this sub clause and sub clause 5.2 to the extent the delay is covered under sub clause 5.2 the contractor shall be entitled to only extension of time and no damages. | Such extension of time or rescheduling of milestone**(s)** shall be without prejudice to any other right or remedy of the parties in contract or in law, provided further that for concurrent delay(s) under this sub clause and sub clause 5.2 to the extent the delay is covered under sub clause 5.2**,** the contractor shall be entitled to only extension of time and **shall have** no **claim of** damages. |
| 5.4<br><br>Request for rescheduling of Mile stones or extension of time, to be eligible forconsideration, shall be made by the Contractor in writing within fourteen days of the happening of the event causing delay on the prescribed forms i.e. Form of application by the contractor for seeking rescheduling of milestones or Form of application by the contractor for seeking extension of time (Appendix - XVI) respectively to the authority as indicated in Schedule 'F'. The Contractor shall indicate in such a request the period by which rescheduling of milestone/s or extension of time is desired. | 5.4 **Rescheduling of milestone(s) and 'extended date of completion'**<br><br>The request for rescheduling of Milestone**(s) and** extension of time, shall be made by the Contractor **through ERP Portal once in a month on the basis of hindrances accepted by Engineer-in-Charge under sub-clause 5.2 and sub-clause 5.3.** The Contractor shall indicate in such a request **number of days** by which rescheduling of milestone**(s) and/**or extension of time is desired. |
| With every request for rescheduling of milestones, or if at any time the actual progress of work falls behind the approved programme by more than 10% of the stipulated period of completion of contract, the contractor shall produce a revised programme without causing any delay in execution | **Deleted** |

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| of the work. A recovery as specified in Schedule 'F' shall be made on per day basis in case of delay in submission of the revised programme. | |
| **No provision** | **The authority as indicated in Schedule 'F', after examining the request, shall give a fair and reasonable extension of time for completion of work and simultaneously reschedule the milestone(s), if required so. The authority shall consider all the hindrances accepted as per sub-clauses 5.2, 5.3 and 5.5.**<br><br>**The authority shall decide rescheduling of milestone(s) and extension of time within 21 (Twenty One) days of the request submitted by the contractor through ERP portal. In event of no request by the contractor for rescheduling of milestone(s) and extension of time, the authority as indicated in Schedule F, after affording opportunity to the contractor, may give fair and reasonable extension of time based on hindrances accepted by Engineer-in-Charge and reschedule the milestone(s) once in a month. Such justified extension of time shall determine the 'extended date' of completion of work.** |
| 5.4.1 In any such case the authority as indicated in Schedule 'F' may give a fair and reasonable extension of time for completion of work or reschedule the mile stones. | 5.4.1 **Provided that the end date of any event causing delay shall not fall beyond the date of request for extension of time or rescheduling of milestone(s) by the contractor. In case end date of event falls beyond the date of submission of said request, then period for extension up to date of application shall be considered in the said request for events eligible for consideration and remaining period shall be applied in subsequent request of extension of time or rescheduling of milestone(s).** |
| E-in-C shall finalize/ reschedule a particular mile stone before taking an | **Engineer-in-Charge** shall finalize/ reschedule a particular mile stone |

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| action against subsequent mile stone. Such extension or rescheduling of the milestones shall be communicated to the Contractor by the authority as indicated in Schedule 'F' in writing, within 21 days of the date of receipt of such request from the Contractor in prescribed form. In event of non-application by the contractor for extension of time E-in-C after affording opportunity to the contractor, may give, supported with a programme (as specified under 5.4 above), a fair and reasonable extension within a reasonable period of occurrence of the event. | before taking an action against subsequent mile stone. Such extension or rescheduling of the milestones shall be communicated to the Contractor by the authority as indicated in Schedule 'F' in writing, within 21 **(twenty one)** days of the date of receipt of such request from the Contractor **on ERP Portal.** |
| 5.5<br><br>In case the work is delayed by any reasons, in the opinion of the Engineer- in-Charge, by the contractor for reasons beyond the events mentioned in clause 5.2 or clause 5.3 or clause 5.4 and beyond the justified extended date, without prejudice to right to take action under Clause 3, the Engineer-in-Charge may grant extension of time required for completion of work without rescheduling of milestones. The contractor shall be liable for levy of compensation for delay for such extension of time. | 5.5 **Delays attributable solely to the contractor**<br><br>**In case the work is delayed by reasons solely attributable to the contractor, then Engineer-in-Charge or his representative(s) may record the event causing delay within 05 (five) days of occurrence of delay in the ERP portal. Contractor shall take the notice of the same for necessary action. He may submit his version, if any within 05 (Five) days. Engineer-in-Charge, considering the version of the contractor, will take decision on such recording of the event and the decision of the Engineer-in-Charge shall be final and binding.**<br><br>**The contractor shall be liable for levy of compensation for such delays (i.e. for the period beyond the justified extended date of completion as determined in sub clause 5.4 and this default of contractor shall be dealt in conjunction with clause 2 of the contract.**<br><br>**In case the work is delayed, due to hindrances attributable solely to the contractor, beyond the justified extended date (as stated in sub clause 5.4), the authority indicated in Schedule 'F', without prejudice to provisions to take action under Clause 3, may grant extension of** |

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| | **time required for completion of work without rescheduling of milestone(s) and extend the date of completion.** |
| **PROFORMA OF SCHEDULES (Separate Performa for Civil, Elect.& Hort. Works in case of Composite Tenders)**<br><br>**SCHEDULE 'F'**<br><br>**Clause 5**<br>**Authority to decide:** | **PROFORMA OF SCHEDULES (Separate Performa for Civil, Elect. & Hort. Works in case of Composite Tenders)**<br><br>**SCHEDULE 'F'**<br><br>**Clause 5** |
| i. Extension of time ..... (Engineer in Charge or Engineer in Charge of Major Component in case of Composite Contracts, as the case may be) | i. **Authority to convey the decision of shifting of milestone and** extension of time ..... (Engineer-in-Charge or Engineer-in-Charge of Major Component in case of Composite Contracts, as the case may be) |
| ii. Rescheduling of mile stones ..... (Superintending Engineer/ PM/CPM in Charge or Superintending Engineer/ PM/CPM in Charge of Major Component in case of Composite Contracts, as the case may be) | ii. **Authority to decide rescheduling of milestone and** extension of time ..... (SE/**SE&PD/ CE/ CE&ED).** |
| iii. Shifting of date of start in case of delay in handing over of site ..... (Superintending Engineer/ PM/CPM in Charge or Superintending Engineer in Charge of Major Component in case of Composite Contracts, as the case may be) | iii. Shifting of date of start in case of delay in handing over of site ..... (SE/**SE&PD/CE/ CE&ED).** |

This OM is applicable for all NITs uploaded after date of issue of this OM.

This is issued with the approval of DG CPWD.

08.12.2023

(वी. पी.साहू)

अधीक्षण अभियंता (सी.एंड एम.)

**Issued from file No. CSQ/CM/17(1)/2023/ Maintenance e-file 9161772**

के.लो.नि.वि. तथा लो.नि.वि. दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु (के.लो.नि.वि.वेबसाईट के माध्यम से)।

11.12.2023

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(EE (Contact)

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

**No. DG/CON/Maintenance 2023/03**

**ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD**

**NIRMAN BHAWAN, NEW DELHI** **Dated: 18.12.2023**

**Subject: Modifications in Conditions of Contract, Clause 12 and Schedule E and F of GCC 2023 for Maintenance Works**

The following amendments are made in the GCC 2023 Maintenance Works:

| Existing provision | Modified provision |
|---|---|
| CONDITIONS OF CONTRACT<br><br>**Definitions**<br>2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:-<br><br>(i) to (x)(a) | CONDITIONS OF CONTRACT<br><br>**Definitions**<br>2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:-<br><br>(i) to (x) (a) **No change** |
| (x) (b) Schedule(s) referred to in these conditions shall mean the relevant schedule(s) annexed to the tender documents or the standard Schedule of Rates of the government mentioned in Schedule 'F' hereunder, with the amendments thereto issued upto the date of receipt of the tender. | (x) (b) Schedule(s) referred to in these conditions shall mean the relevant schedule(s) annexed to the tender documents or the standard Schedule of Rates of the government mentioned in Schedule 'F' hereunder, with the amendments thereto issued **previous day of the last date of submission of the tender.** |
| (xi) to (xv) | **(xi) to (xv) No change** |
| (xvi) No provision | **(xvi) Extra items** are those items which are not available in the contract.<br><br>**a. Non Schedule Extra Items** are those items which are not available in the Standard Schedule of Rates specified in Schedule F.<br>**b. Scheduled Extra Items** are those items which are available in the Standard Schedule of Rates specified in Schedule F. |
| (xvii) No provision | **(xvii) Completion cost: The completion cost includes gross amount of work done, amount of extra item(s) and deviation(s) and escalation amount admissible as per agreement etc.** |

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| (xviii) No provision | **(xviii) Maintenance work:** Maintenance work(s) are those work(s) which includes upgradation, aesthetic improvement, special repair, addition/ alteration, annual repair, comprehensive maintenance work etc. |
| **Clause 12 Deviations/ Variations Extent and Pricing**<br><br>The Engineer-in-Charge shall have power (i) to make alteration in, omissions from, additions to or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for other reasons and the contractor shall be bound to carry out the works in accordance with any instruction given to him in writing signed by the Engineer-in-Charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided. | **Clause 12 Deviations/ Variations Extent and Pricing**<br><br>**No change** |
| The completion cost of any agreement for maintenance works including works of upgradation, aesthetic, special repair, addition/ alteration should not exceed two times the contract amount. Deviation upto 1.25 times of contract amount shall be approved by Engineer-in-Charge with recorded reasons. Deviation beyond 1.25 times upto 1.50 times of contract amount shall be approved by SE/CE (as applicable) with recorded reasons. In exceptional case, ADG/SDG (as applicable) shall have power to approve the deviation beyond 1.50 times upto 2.0 | **The completion cost shall, in no case, exceed 1.5 times the contract amount.**<br>**Contractor will devise a system to keep a watch on quantum of work taken up vis-a-vis balance items required to complete defined scope of work and will give the alerts to Engineer-in-Charge before taking up extra item(s), deviation(s) so that completion cost does not exceed above limit. Work executed beyond above limit will neither be recorded nor be paid.** |

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| times of contract amount with recorded reasons and take suitable corrective action. | **Engineer-in-Charge will verify and confirm the alerts before assigning deviation(s) and / or extra item(s) to the contractor. If additional work(s) is required to complete defined scope of work beyond above limit then Engineer-in Charge may take up such work(s) separately. The contractor will not have any claim(s) whatsoever on this account.** |
| 12.1 The time for completion of the works shall, in the event of any deviations resulting in additional cost over the tendered value sum being ordered, be extended, if requested by the contractor, as follows :<br><br>(i) In the proportion which the additional cost of the altered, additional or substituted work, bears to the original tendered value plus<br><br>(ii) 25% of the time calculated in (i) above or such further additional time as may be considered reasonable by the Engineer-in-Charge | 12.1 The time for completion of the works shall, in the event of any deviation**(s) and extra item(s)** resulting in additional cost over the **contract amount will** be extended, if requested by the contractor, as follows :<br><br>(i) In the proportion **to** the additional cost of work, bears to the original **contract amount** plus<br><br>(ii) 25% of the time calculated in (i) above. |
| **12.2 Deviation, Extra Items and Pricing**<br><br>**Extra items are those which are not available in the contract.**<br><br>For percentage rate tenders, the extra item(s) which are available in the standard schedule of rates specified in Schedule F, shall be paid as per the said schedule rate plus cost index (considered in the estimated cost put to tender) plus/minus percentage above/ below quoted on estimated cost put to tender.<br><br>For item rate tenders, the extra item(s) which are available in the standard schedule of rates specified in Schedule F, shall be paid as per the said schedule rate plus cost index (considered in the | **12.2 Deviation, Extra Items and Pricing**<br><br>**Deleted**<br><br>**Deleted** |

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| estimated cost put to tender) plus/minus percentage above/ below worked out on the basis of overall contract amount and estimated cost of the work put to tender. | |
| In the case of extra item(s) which are not available in the standard schedule of rates specified in Schedule F, the contractor may within fifteen days of the receipt of order or occurrence of the item(s), submit claim for market rate(s), supported with proper analysis of rate and manufacturer's specification for the work, invoices, vouchers, etc. (as applicable), | **(a) Non Schedule Extra Item(s)** - The contractor, **shall** within fifteen days of the receipt of order **to execute extra item(s)** or occurrence of the item(s), submit **analysis of rate of extra item(s) based on the rate(s) of material(s) available in basic rate of Standard Schedule of Rate mentioned in schedule F and rate(s) of the material(s) based on tax paid bills which are not available in standard Schedule of Rate mentioned in schedule F. For this purpose, the basic rate of material(s) available in Schedule of Rate(s) mentioned in Schedule F will be enhanced or reduced by the applicable cost index, as the case may be.**<br><br>**The rate(s) of the material(s) which are not available in Standard Schedule of Rates, mentioned in Schedule F, shall be based on, tax paid bill(s) for the material(s) as defined in** manufacturer's specification.<br><br>**Material rate(s) from Standard Schedules of Rate(s) shall be given priority in the analysis of rate(s).**<br>**The rate of extra item will be**<br><br>**i. Analyzed rate(s) as above multiplied by (Contract amount divided by estimated cost put to tender), if tendered amount is below the estimated amount put to tender.**<br>**ii. Analyzed rate, if the Contract amount is above the estimated amount put to tender.** |
| failing which the rate(s) approved later by the Engineer-in-Charge shall be final and binding. | Failing which the rate(s) approved later by the Engineer-in-Charge shall be final and binding. |

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| Where the contractor submits claim for market rate(s) in the manner prescribed above, the Engineer-in-Charge shall, within 45 days of the receipt of the claims, after giving consideration to the analysis of rates and other documents submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined. | Where the contractor submits **analysis of rate(s) of extra item(s)** in the manner prescribed above, the Engineer-in-Charge shall, within **60** days of the receipt of the **analysis of rate**, after giving consideration to the analysis of rates and other documents submitted by the contractor, determine the rate(s) **of extra item(s).** The contractor shall be paid in accordance with the rate(s) so determined.<br><br>**However provisional rate(s) on the basis of invoice will be allowed by the Engineer-in-Charge. Invoice shall be accepted only for material(s) not available in the Standard Schedule of Rates mentioned in Schedule F.**<br>**The contractor while submitting the tax paid bill of purchased material(s) shall ensure that rate(s) of the materials are reasonable and lowest available in the market. If Engineer-in-Charge feels rates in tax paid bill(s) submitted by contractor are not reasonable then he can modify the rate(s) after giving a notice to the contractor. Engineer-in-Charge is the final authority to decide applicable rate(s) of material(s).** |
| (b) No Provision | **(b) Scheduled Extra Items**<br>**i. For percentage rate tender, the extra item(s) shall be paid as per the Standard Schedule of Rates, mentioned in Schedule F, enhanced or reduced by the applicable cost index and further enhanced or reduced by percentage above/ below quoted by the contractor on estimated cost put to tender.**<br>**ii. For item rate tender, the extra item(s) shall be paid as per the said schedule rate enhanced or reduced by the applicable cost index and multiplied by (Contract amount divided by estimated cost put to tender).** |

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| The rate(s) of extra items so determined by the Engineer-in-Charge shall be final and binding on the contractor, and shall not be arbitrable. | The rate(s) of extra item(s) so determined by the Engineer-in-Charge shall be final and binding on the contractor. |
| **12.3 Deviation, Deviated Quantities, Pricing**<br><br>**All the deviated quantities shall be paid at agreement rates** | **12.3 No change** |
| 12.4 The case of any operation incidental to or necessarily has to be in contemplation of tenderer while quoting filing tender, or necessary for proper execution of the item included in the Schedule of quantities or in the schedule of rates mentioned above, whether or not, specifically indicated in the description of the item and the relevant specifications, shall be deemed to be included in the rates quoted by the tenderer or the rate given in the said schedule of rates, as the case may be. Nothing extra shall be admissible for such operations. | **12.4 No Change** |
| **12.5 No provision** | **12.5 Cost index**<br>**Latest available Cost index at the time of beginning of execution of extra item(s) shall be used in sub-clauses 12.2 (a) and 12.2 (b) for calculation of rate(s) of extra item(s).** |
| **12.6 No provision** | **12.6 Labour rates**<br><br>**Labour rates will be based on latest available circulars issued by Central Govt. or State Govt. whichever are higher as well as applicable for the work.** |
| **PROFORMA OF SCHEDULES**<br>**(Separate Performa for Civil, Elect.& Hort. Works in case of Composite Tenders)**<br><br>**SCHEDULE 'E'**<br><br>Reference to General Conditions of Contract | **PROFORMA OF SCHEDULES**<br>**(Separate Performa for Civil, Elect.& Hort. Works in case of Composite Tenders)**<br><br>**SCHEDULE 'E'**<br><br>Reference to General Conditions of Contract : **(GCC EPC Projects 2022/ GCC Maintenance Works 2023/ GCC Construction Works 2023)** |

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| | **Applicable GCC is ..... as modified & corrected upto previous day of the last date of submission of the tender.**<br>**(NIT approving authority to mention one GCC in the space provided above)** |
| **SCHEDULE 'F'**<br><br>GENERAL RULES & DIRECTIONS:<br><br>Officer inviting tender<br>.....<br><br>Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3. See below | **SCHEDULE 'F'**<br><br>GENERAL RULES & DIRECTIONS:<br><br>**No Change**<br><br>**Deleted** |
| 9 (ii) Standard CPWD contract Form GCC 2020, CPWD Form 7/ 8 as modified & corrected upto ..... | 9(ii) Standard CPWD contract Form **General Conditions of Contract Maintenance Works 2023,** CPWD Form 7/ 8 as modified & corrected upto **previous day of the last date of submission of the tender.** |
| **Clause 12**<br><br>12.2 Deviation Limit beyond which clauses 12.2 shall apply for building work<br>..... | **Clause 12**<br><br>**Deleted** |

This issues with the approval of DG CPWD.

18.12.2023
(वी. पी.साहू)
अधीक्षण अभियंता(सी.एंड एम.)

**Issued from file No. CSQ/CM/17(1)/2023/Maintenance e-file 9163323**

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

18/12/2023
R.K. JAIN
(EE (Contact)

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

**No. DG/CON/Maintenance 2023/04**

**ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD**

**NIRMAN BHAWAN, NEW DELHI** **Dated: 08.02.2024**

**Subject: Modifications in Conditions of Contract and Clause 19 of GCC 2023 for Maintenance Works**

The following amendments are made in the GCC 2023 for Maintenance Works:

| Existing provision | Modified provision |
|---|---|
| **CONDITIONS OF CONTRACT**<br>**Definitions**<br>2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:- | **CONDITIONS OF CONTRACT**<br>**Definitions**<br>2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:- |
| **(i) to (xix)** | **(i) to (xix) No change** |
| **(xx) No provision** | **(xx) Adolescent Person: A person who has completed his/her fourteenth year of age but has not completed his eighteenth year.** |
| **(xxi) No provision** | **(xxi) Hazardous works: Hazardous process/works are the works as defined in the clause (cb) of the Factory Act, 1948.** |
| **Clause 19 Labour Laws to be complied by the Contractor** | **Clause 19 Labour Laws to be complied by the Contractor** |
| The contractor shall comply with the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971. | **No change** |
| The contractor shall also obtain a valid licence under the said Act before the commencement of the work, and continue to have a valid licence until its completion. | **No change** |
| The contractor shall also comply with provisions of the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979. | **No change** |

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| The contractor shall also abide by the provisions of the Child and Adolescent Labour (Prohibition and Regulation) Act, 1986.<br><br>The contractor shall also comply with the provisions of the building and other Construction Workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996.<br><br>Any failure to fulfil these requirements shall attract the penal provisions of this contract arising out of the resultant non-execution of the work. | The contractor shall also abide by the provisions of the Child and Adolescent Labour (Prohibition and Regulation) Act, 1986, **amended by Amendment Act No. 35 of 2016 and thereafter time to time.**<br><br>**No change**<br><br>**No change** |
| Clause 19A<br><br>No labour below the age of eighteen years shall be employed on the work. | Clause 19A<br><br>No **person** below the age of **fourteen** years shall be employed on the work. **However Adolescent Persons can be employed on non-hazardous works/process.** |
| **C.P.W.D. Contractor's Labour Regulations**<br>**2. DEFINITIONS**<br><br>i. (c) Who is an out worker, that is to say, person to whom any article or materials are ..... premises under the control and management of the principal employer.<br><br>No person below the age of 18 years shall be employed to act as a workman. | **C.P.W.D. Contractor's Labour Regulations**<br>**2. DEFINITIONS**<br><br>i. (c)<br><br>No change.<br><br>No person below the age of **fourteen** years shall be employed **on the work. However Adolescent Persons can be employed on non-hazardous works/process.** |

This issues with the approval of DG CPWD.

08.02.2024
(वी. पी.साहू)
अधीक्षण अभियंता(सी.एंड एम.)

**Issued from file No. CSQ/CM/17(1)/2024/Maintenance e-file 9169019**
केलोनिवि तथा लोनिवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु।
(केलोनिवि वेबसाईट के माध्यम से)

# Central Public Works Department
## Office Memorandum
### No. DG/CON/Maintenance 2023/05

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD 01.03.2024

NIRMAN BHAWAN, NEW DELHI Dated: ~~20.02.2024~~

**Subject: Modifications in Conditions of Contract, Clause 19 and 20 of GCC 2023 for Maintenance Works**

The following amendments are made in the GCC 2023 for Maintenance Works:

| Existing provision | Modified provision |
|---|---|
| **CONDITIONS OF CONTRACT**<br><br>**Definitions**<br>9. **Signing of Contract:-** The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of:-<br><br>(i) to (iii)<br><br>No Provision | **CONDITIONS OF CONTRACT**<br><br>**Definitions**<br>9. **Signing of Contract:-** The successful tenderer, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of:-<br><br>(i) to (iii) No change<br><br>**In the event of successful tenderer being a firm/company, then the agreement shall be signed by all the partners or directors thereof individually. In the event of the absence of any partner/director, it shall be signed on his behalf by a person holding a power of attorney (duly notarized by notary public or board resolution in case of company) authorizing him to do so.** |
| **Clause 19 B Payment of Wages**<br><br>(i) The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in the C.P.W.D. Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable. | **Clause 19 B Payment of Wages**<br><br>**(i)** The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in the C.P.W.D. Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971 **and Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 – sec. 3 (ii) amended time to time.** |

R.K. JAIN
(EE (Contact)

Insertion : Nil Correction : Nil Omission : Nil AE-(P)

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| | **Thus higher of the wages either notified by Govt. of India, Ministry of Labour and/or that notified by the local administration of the State Govt. both relevant to the place of work and the period of reckoning shall be paid by the contractor to the labourer .** |
| (v) The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, or the modifications thereof or any other laws relating thereto and the rules made there under from time to time. | **(v)** The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, **Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 – sec. 3 (ii) and** the modifications thereof or any other laws relating thereto and the rules made there under from time to time. |
| **Clause 20 Minimum Wages Act to be Complied With**<br><br>The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, amended from time to time and rules framed there under and other labour laws affecting contract labour that may be brought into force from time to time. | **Clause 20 Minimum Wages Act to be Complied With**<br><br>The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, **Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 – sec. 3 (ii)** amended from time to time and rules framed there under and other labour laws affecting contract labour that may be brought into force from time to time. |

This issues with the approval of DG CPWD.

01.03.2024
(V.P. Sahu)
Superintending Engineer (C&M)

Issued from file No. CSQ/CM/17(1)/2023 e-file no. 9163323

To all the concerned officers of CPWD/PWD for information and necessary action please. (Through CPWD Website)

29/02/2024
R.K. JAIN
(EE (Contact)

# Central Public Works Department
## Office Memorandum
### No. DG/CON/Maintenance 2023/06
ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI Dated: 01.03.2024

**Subject: Modifications in Clause 7 of GCC 2023 for Maintenance Works**

The following amendments are made in the GCC 2023 for Maintenance Works:

| Existing provision | Modified provision |
|---|---|
| **Clause 7 Payment on intermediate certificate to be regarded as Advances**<br><br>No payment shall be made for work, estimated to cost Rs. Five lac or less till after the whole of the work shall have been completed and certificate of completion given. ..... calendar month of the measurements recorded upto previous month as per clause 6. | **Clause 7 Payment on intermediate certificate to be regarded as Advances**<br><br>No change. |
| The contractor shall not be entitled to be paid any such interim payment if the gross work done together with net payment/ adjustment of advances for material collected, if any, since the last such payment is less than the amount specified in Schedule 'F', in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved. | The contractor shall not be paid any such interim payment if the gross work done together with net payment/ adjustment of advances for material collected, if any, since the last such payment is less than the amount specified in Schedule 'F', in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved. |
| No provision | **However, to expedite the progress of work, Engineer-in-Charge, on the request of contractor, may make interim payment(s) even before the net payment limit specified in schedule 'F' is achieved. In such case(s) no interest / compensation shall be recoverable from contractor.**<br><br>**Such payment by Engineer-in-Charge shall not be construed as waiver of limit specified in schedule 'F' for subsequent interim payment(s).** |

This issues with the approval of DG CPWD.

Sahu 01.03.2024

(V.P. Sahu)

Superintending Engineer (C&M)

Issued from file No. CSQ/CM/17(1)/2023/Maintenance e-file no. 9135972

To all the concerned officers of CPWD/PWD for information and necessary action please. (Through CPWD Website)

01/03/2024

R.K. JAIN

(EE (Contact)

Insertion : Nil Correction : Nil Omission : Nil AE-(P)

# Central Public Works Department
## Office Memorandum
### No. DG/CON/Maintenance 2023/07
**ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD**

**NIRMAN BHAWAN, NEW DELHI** **Dated: 05.03.2024**

**Subject: Modifications in Clause 19 of GCC 2023 for Maintenance Works**

The following amendments are made in the GCC 2023 for Maintenance Works.

| Existing provision | Modified provision |
|---|---|
| **Clause 19 Labour Laws to be complied by the Contractor** | **Clause 19 Labour Laws to be complied by the Contractor** |
| The contractor shall comply with the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971. | **No change** |
| The contractor shall also obtain a valid licence under the said Act before the commencement of the work, and continue to have a valid licence until its completion. | **No change** |
| The contractor shall also comply with provisions of the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979. | **No change** |
| The contractor shall also abide by the provisions of the Child and Adolescent Labour (Prohibition and Regulation) Act, 1986, amended by Amendment Act No. 35 of 2016 and thereafter time to time. | **No change.** |
| The contractor shall also comply with the provisions of the building and other Construction Workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996. | **No change** |

05/03/2024
R.K. JAIN
(EE (Contact)

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| No provision<br><br>Any failure to fulfill these requirements shall attract the penal provisions of this contract arising out of the resultant non-execution of the work. | **The contractor shall also comply with the provisions of Sexual Harassment of Women at Workplace (Prevention Prohibition and Redressal) Act, 2013 and amendment thereafter time to time.**<br><br>Any failure to fulfil these requirements shall attract the penal provisions of **the relevant act and in** this contract |
| **Clause 19 M**<br><br>**No Provision** | **Clause 19 M Sexual Harassment of Women at Workplace**<br><br>**The contractor shall comply with all provision(s) and guideline(s) of Sexual Harassment of Women at Workplace (Prevention Prohibition and Redressal) Act, 2013 and amendment thereafter time to time or any other rules framed under any labour law affecting women worker(s).** |

This issues with the approval of DG CPWD.

05.03.2024
(V.P. Sahu)
Superintending Engineer (C&M)

Issued from file No. CSQ/CM/17(1)/2023 e-file no. 9163323

To all the concerned officers of CPWD/PWD for information and necessary action please. (Through CPWD Website)

07/03/2024
R.K. JAIN
(EE (Contact)

**Central Public Works Department**
**Office Memorandum**
**No. DG/CON/Maintenance 2023/08**
ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD
NIRMAN BHAWAN, NEW DELHI Dated: 03-06-2024

**Subject: Modifications in Clause 36 of GCC 2023 for Maintenance Works**

The following amendment is made in the Clause 36 of GCC 2023 for Maintenance Works:

| Existing provision | Modified provision |
|---|---|
| **Clause 36 If relative working in CPWD then the contractor not allowed to tender**<br><br>The contractor shall not be *permitted* to tender for works in the CPWD circle *(Division in case of contractors of Horticulture/Nursery categories)* 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 the *Superintending Engineer* and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working *with him in any capacity* or are subsequently employed by him and who are near relatives to any *Gazetted* Officer in the *C.P.W.D. 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. If however the contractor is registered in any other department, he shall be debarred from tendering in CPWD for any breach of this condition.* | **Clause 36 If relative working in CPWD then the contractor is not allowed to participate in the tendering process**<br><br>The contractor **(enlisted or non-enlisted in CPWD)** shall not be **allowed** to **participate in the** tender for work(s) in the CPWD **Zone/**circle **/Division/Sub-Division** responsible for award and**/or** execution of contract**(s)** in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of the **Chief Engineer** and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working or are subsequently employed by him and who are near relatives to any Officer **working** in the **CPWD**. Any breach of this condition by the contractor would render him liable to be **debarred for a period upto two years from tendering in CPWD as decided by the accepting authority mentioned in Schedule F and his decision will be excepted from clause 25.** |
| NOTE: By the term "near relatives" is meant wife, husband, parents and grandparents, children and grandchildren, brothers and sisters, uncles, aunts and cousins and their corresponding in-laws. | No change. |

This issues with the approval of DG, CPWD.

03.06.2024
(V.P. Sahu)
Superintending Engineer (C&M)

**Issued from file No. CSQ/CM/17(1)/2023/** Maintenance **e-file 9135972**

All CPWD and PWD officers for information and necessary action. (Through CPWD website)

17/07/2024
R.K. JAIN
EE (Contract)

Insertion : Nil Correction : Nil Omission : Nil AE-(P)

**Central Public Works Department**
**Office Memorandum**
**No. DG/CON/Maintenance 2023/09**
**ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD**
**NIRMAN BHAWAN, NEW DELHI** **Dated:** 03-06-2024

**Subject: Additions in 'General Rules and Directions' of GCC 2023 for Maintenance Works**

The following additions are made in GCC 2023 for Maintenance Works under 'General Rules and Directions':

| Existing provision | Modified provision |
|---|---|
| **General Rules and Directions**<br>Sl. No. 1 to 16 | **General Rules and Directions**<br>No Change |
| No Provision | **17. <u>Price Preference to SC/ST individual contractor for item rate/percentage rate tender</u>:**<br>**Price preference in quoted item rate/percentage rate tender shall be applicable to the individual enlisted/non-enlisted SC/ST contractor as under:-**<br>**i. For work(s) upto and equal to an estimated cost of Rs.2.70 lakh a price preference upto 5% (with reference to the lowest valid tender) may be allowed in favor of individual SC/ST enlisted/non-enlisted contractor. No earnest money is required in such case(s).**<br>**ii. For work(s) beyond an estimated cost of Rs. 2.70 lakh and upto and equal to estimated cost of Rs. 6.20 lakh, the price preference upto 5% (with reference to the lowest valid tender) may be allowed in favour of individual enlisted SC/ST contractor. However, earnest money at a reduced rate of ½% may be accepted in such cases.**<br>**iii. The price pretence upto 5% (with reference to the lowest valid price bid) may be allowed in favour of individual SC/ST contractor. The above concession shall be allowed only after proper verification of the individual contractor's claim of belonging to SC/ST community.** |
| **Schedule F**<br>**No Provision** | **Schedule F**<br>**Price Preference to SC/ST individual contractor is valid upto ..... (date)** |

This issues with the approval of DG CPWD.

03.06.2024
**(V.P. Sahu)**
**Superintending Engineer (C&M)**

**Issued from file No. CSQ/CM/17(1)/2023/Maintenance e-file 9163323**

All CPWD and PWD officers for information and necessary action.(Through CPWD website)

10/5/2024
R.K. JAIN
EE (Contract)

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

**No. DG/CON/Maintenance 2023/10**

**ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD**

**NIRMAN BHAWAN, NEW DELHI** **Dated: 09.10.2024**

**Subject: Modifications in Clause 10A of GCC 2023 for Maintenance Works.**

The following amendment is made in the Clause 10A of GCC 2023 for Maintenance Works:

| Existing provision | Modified provision |
|---|---|
| **Clause 10A Materials to be provided by the contractor**<br><br>The contractor shall ..... as specified in Schedule F. | **Clause 10A Materials to be provided by the contractor**<br><br>**(i)** No Change |
| No Provision | **(ii) Maintenance of Material at Site (MAS) Register**<br><br>**(a) MAS register of the key materials including Cement, Steel Bitumen, Paint, Primer, Distemper, Varnishes, Tile Adhesive, Admixture, Anti termite chemical Water proofing compound material and other items as required by Engineer-in-Charge, and shall be maintained as per proforma in Appendix-XX of GCC. All the entries in the MAS registers are made by the designated staff of the contractor and same is reviewed weekly by the authorized representative and fortnightly by the Engineer-in-Charge. However, contractor is responsible for maintenance and safe custody of MAS registers.** |
| **(b) No provision** | **(b)The self-attested copies of tax paid bill of all the materials entered in the MAS register shall be submitted by the contractor at the time of review by representative of Engineer-in-Charge. In case of any doubt, genuineness of the tax paid bills; it can be verified by the representative of the Engineer-in-Charge or the Engineer-in-Charge, however, onus of genuineness of tax paid bills rest with the contractor.** |

09.10.24

R K SINGH
EE(Manual)

1/2

## Appendix-XX

## REGISTER OF MATERIAL AT SITE (MAS)

1. **Division/Sub-division** .....
2. **Name of Work** .....
3. **Name of Article/Item** .....
4. **Estimated Requirements** .....

| S. No. | Date of Receipts (Details of Challans/ Bills, Specific location wherePlants and Materials received/ Vehicle No. | Received from/ Issued to | Quantity Received | Date of issue | Specific location where Plants& Materials Displayed / Delivered / issued | Quantity Issued | Balance Quantity | Signature of authorized representative of contractor | Signature of authorized representative of Engineer-in-Charge/ AE/EE/ | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 9 | 10 |
| | | | | | | | | | | |

This issues with the approval of DG, CPWD.

(दिनेश कुमार उज्जैनिया)
अधीक्षण अभियंता (सी.एंड एम.)

**Issued from file No. CSQ/CM/17(1)/ Maintenance/2024**
**e-file 9184028 (DFA/9301389)**

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

09.10.24
R K SINGH
EE(Manual)

2/2

केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

**No. DG/CON/Mainteance-2023/11**

**ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD**

Nirman Bhawan, New Delhi Dated: 29.10.2024

**Subject: Modifications in Conditions of Contract, Clause 10A of GCC Maintenance Works 2023.**

Following amendments are made in the GCC Maintenance Works 2023 :-

| Existing Provision | Modified Provision |
|---|---|
| **Clause 10A: Materials to be provided by the Contractor**<br><br>(i) The contractor shall, ..... thereof and in case of default, the Engineer-in-Charge may cause the same to be supplied and all costs which may attend such removal and substitution shall be borne by the Contractor. | **No Change** |
| The contractor shall at his own expense, provide a material testing lab at the site for conducting routine field tests. The lab shall be equipped at least with the testing equipment as specified in schedule F. | **Field Laboratory:** The contractor shall at his own expense, setup a material testing lab equipped with the testing equipment as specified in schedule F at site for conducting routine field test. |
| **No Provision** | **External Laboratory: Letter for submitting sample(s) for testing of material shall be sent through e-mail to the Lab by authorized representative of Engineer-in-Charge or Engineer-in-Charge of the work along with name(s) of test(s) to be done on the material.**<br><br>**The contractor shall collect the sample(s) from the site and submit it to the lab; make necessary payment for the testing charges. He will inform on the same day through email to** |

29.10.24
R K SINGH
EE(Manual)



Insertion : Nil Correction : Nil Omission : Nil AE-(P)

| | |
|---|---|
| **No Provision** | **authorized representative of Engineer-in-Charge and Engineer-in-Charge regarding submission of sample (s) and payment made to the lab. If he either fails to collect or submit the sample(s) to the lab within 03 days or in time as prescribed in the specifications, whichever is earlier, the Engineer-in-Charge shall collect and submit the sample(s) and make necessary payment for testing charges to the lab. In such case, Engineer-in-Charge shall make recovery on account of collection and submission of sample(s) to the lab and paid testing charges etc. from the next R/A bill / Final bill of the contractor. This action of Engineer-in-Charge shall be final and binding.**<br>**If the contractor fails three times in collection and/or submitting sample(s) and/or fails to make payment for testing charges, the contractor shall be debarred from tendering in CPWD for a period of two years.** |
| Sl. no. (ii) (a) and (b) | **No change** |

This OM is applicable for all NITs uploaded after date of issue of this OM.

This is issued with the approval of DG CPWD.

29/10/24

(दिनेश कुमार उज्जैनिया)
अधीक्षण अभियंता (सी.एंड एम.)

Issued from file No. CSQ/CM/17(1)/2024/Maintenance e-file- 9184436 (DFA/9303295)

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

29.10.24
R K SINGH
EE(Manual)

# केन्द्रीय लोक निर्माण विभाग
## कार्यालय ज्ञापन

**No. DG/CON/Maintenance 2023/12**
**ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD**

**NIRMAN BHAWAN, NEW DELHI** **Dated: 03.01.2025**

**Subject: Modifications in General Rules and Directions of GCC 2023 for Maintenance Works.**

The following amendments are made in the General Rules and Directions of GCC 2023 for Maintenance Works:

| Existing provision | Modified provision |
|---|---|
| **Applicable for Item Rate Tender only (CPWD - 8)**<br>4 The rates ..... rupee one. | **Applicable for Item Rate Tender only (CPWD - 8)**<br>4 No change |
| In case the lowest tendered amount (worked out on the basis of quoted rate of Individual items) of two or more contractors is same, then such lowest contractors may be asked to submit sealed revised offer quoting rate of each item of the schedule of quantity for all sub sections/sub heads as the case may be, but the revised quoted rate of each item of schedule of quantity for all sub sections/sub heads should not be higher than their respective original rate quoted already at the time of submission of tender. The lowest tender shall be decided on the basis of revised offer. | In case the lowest tendered amount (worked out on the basis of quoted rate of Individual items) of two or more contractors is same, then such lowest contractors may be asked to submit **revised price bid online using e-tender website**, quoting rate of each item of the schedule of quantity for all sub sections/sub heads as the case may be, **on the revised template which has been sent to them by the Tender Inviting Authority (TIA)**, but the revised quoted rate of each item of schedule of quantity for all sub sections/sub heads should not be higher than their respective original rate quoted already at the time of submission of tender. The lowest tender shall be decided on the basis of revised offer. |
| If the revised ..... their tenders.<br>In case of any ..... be forfeited.<br>In case all ..... lowest contractors.<br>Contractor ..... of the work. | No change |
| **Applicable for Percentage Rate Tender only [CPWD- 7]**<br>4B In case the lowest tendered amount (estimated cost + amount worked on the basis of percentage above/below) of two or more contractors is same, such lowest contractors will be asked to submit sealed revised offer in the form of letter mentioning | **Applicable for Percentage Rate Tender only [CPWD- 7]**<br>4B In case the lowest tendered amount (estimated cost ± amount worked on the basis of percentage above/below) of two or more contractors is same, such lowest contractors will be asked to submit **revised price bid online quoting** percentage above/ |

03.01.25
R K SINGH
EE(Manual)



Insertion : Nil Correction : Nil Omission : Nil AE-(P)

| | |
|---|---|
| percentage above/ below on estimated cost of tender including all sub sections/sub heads as the case may be, but the revised percentage quoted above/below on tendered cost or on each sub section/ sub head should not be higher than the percentage quoted at the time of submission of tender. The lowest tender shall be decided on the basis of revised offers.<br><br>In case of any ..... be forfeited.<br>If the revised ..... their tenders.<br>In case all ..... process of the work. | below on estimated cost of tender including all sub sections/sub heads as the case may be **on the revised template which has been sent to them by the Tender Inviting Authority (TIA)**, but the revised percentage quoted above/below on tendered cost or on each sub section/ sub head should not be higher than the percentage quoted at the time of submission of tender. The lowest tender shall be decided on the basis of revised offers.<br><br>No change |

This issues with the approval of DG, CPWD.

3/1/25

(दिनेश कुमार उज्जैनिया)
अधीक्षण अभियंता (सी.एंड एम.)

**Issued from file No. CSQ/CM/17(1)/ Maintenance/2024**
**e-file 9185053 (DFA/9307326)**

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

03.01.25
R K SINGH
EE(Manual)

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

**No. DG/CON/Maintenance 2023/13**

**ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD**

**NIRMAN BHAWAN, NEW DELHI** **Dated: 31.01.2025**

**Subject: Modifications in Clause 7A of GCC 2023 for Maintenance Works**

The following amendments are made in the Clause 7A of GCC 2023 for Maintenance Works:

| Existing provision | Modified provision |
|---|---|
| **Clause 7A**<br><br>No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-in-Charge. | **Clause 7A**<br><br>**(a)** No Running Account Bill/**Final Bill** shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-in-Charge.<br><br>**(b) The following documents shall also be part of the bill submitted by the contractor (these documents shall be owned by the contractor) before making payment:-**<br><br>**1. Details of person employed with date of their employment up to previous month.**<br>**2. Documents of payment made to the employees directly into their bank accounts up to previous month.**<br>**3. Documents of attendance through biometric attendance or other mode up to previous month.**<br>**4. Documents of deposition of EPF and ESI deductions in the employee's accounts up to previous month.**<br>**5. Any penalty imposed on the agency for delay in disbursing payment and deposition of EPF and ESI deductions in the employee's accounts up to previous month.**<br>**6. Any other document(s) required as per statutory requirements and/or as directed by Engineer-in-Charge.**<br><br>**(c) In case, any of the documents submitted by the contractor is found false/forged at a later date, action for debarment of contractor will be taken by the SE/CE concerned.** |

This issues with the approval of DG, CPWD.

31/1/25

(दिनेश कुमार उज्जैनिया)
अधीक्षण अभियंता (सी.एंड एम.)

**Issued from file No. CSQ/CM/17(1)/2023/Maintenance e-file 9184028 (DFA/9313089)**

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

31.1.25
R K SINGH
EE(Manual)

Insertion : Nil Correction : Nil Omission : Nil AE-(P)

# Central Public Works Department
## Office Memorandum
## No. DG/CON/Maintenance 2023/14
### ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

**NIRMAN BHAWAN, NEW DELHI** **Dated: 10.02.2025**

**Subject: Modifications in Clauses 7, 8, 9 and Schedule F of clause 8 of GCC 2023 for Maintenance Works.**

The following amendments are made in the Clauses 7, 8, 9 and Schedule F of clause 8 of GCC 2023 for Maintenance Works:

| Existing provision | Modified provision |
|---|---|
| **Clause 7**<br>Existing provisions<br><br>No provision | **Clause 7**<br>No change<br><br>**In case of correction / rejection / short documents, it will be mandatory for Engineer-in- Charge to give recorded reasons for correction / rejection / submission of additional documents within seven days after submission of running bill by the contractor.** |
| **Clause 8 Completion Certificate**<br><br>Within ten days of the completion of the work, the contractor shall give notice of such completion to the Engineer-in-Charge and within thirty days of the receipt of such notice, the Engineer-in-Charge shall inspect the work and if there is no defect in the work, shall furnish the contractor with a final certificate of completion, otherwise a provisional certificate of physical completion indicating defects (a) to be rectified by the contractor and/or (b) for which payment will be made at reduced rates, shall be issued.<br><br>But no final certificate ..... sum actually realized by the sale thereof. | **Clause 8 Completion Certificate**<br><br>Within ten days of the completion of the work, the contractor shall give notice of such completion to the Engineer-in-Charge and **the Engineer-in-Charge within seven days of receipt of intimation of completion from contractor will inspect the work and satisfy himself about completion of work, then intimate to the concerned authorities as mentioned in Schedule F for issuance of completion certificate. The concerned authorities will inspect the work and issue completion certificate** within thirty days of the receipt of such **intimation. The Engineer-in-Charge** shall furnish **to** the contractor a final certificate of completion as the case may be, indicating defects (a) to be rectified by the contractor and/or (b) for which payment will be made at reduced rates.<br><br>**No change.** |

10.2.25
R K SINGH
EE(Manual)

| Clause 9 Payment of Final Bill | Clause 9 Payment of Final Bill |
|---|---|
| The final bill shall be submitted by the contractor in the same manner as specified in interim bills within three months of physical completion of the work or within one month of the date of the final certificate of completion furnished by the Engineer-in-Charge whichever is earlier. No further claims shall be made by the contractor after submission of the final bill and these shall be deemed to have been waived and extinguished. Payments of those items of the bill in respect of which there is no dispute and of items in dispute, for quantities and rates as approved by Engineer-in-Charge, will, as far as possible be made within the period of three months the period being reckoned from the date of receipt of the bill by the Engineer-in-Charge or his authorized Asstt. Engineer, complete with account of materials issued by the Department and dismantled materials. | i. The final bill shall be submitted by the contractor **to the Engineer-in-Charge** in the same manner as specified in interim bills within three months of physical completion of the work or within one month of the date of the final **completion** certificate furnished by the Engineer-in-Charge whichever is earlier. **At the time of submission of the final bill, receipt will be given by the O/o Engineer-in-Charge.**<br>ii. **In case of correction / rejection / short documents, it will be mandatory for Engineer-in- Charge to give recorded reasons for correction / rejection / submission of additional documents within fifteen days after submission of final measurement and/or final bill by the contractor.**<br>iii. **Final bill will be accepted with all pre-requisite documents such as sanctioned copies of extra items and deviation in quantities, escalation statements, recovery statement, theoretical statement, completion certificate, final extension of time case, mandatory tests statement, dismantled materials account and other documents as mentioned in clause-7 A etc.**<br>iv. **An undertaking along the final bill will be submitted by the contractor that "I / we hereby under take that all the measurements/claims payable under this contract have been included in the final bill and will not submit any other bill/claims in future under this agreement thereafter".**<br>v. No further claims shall be entertained from the contractor after submission of the final bill and these shall be deemed to have been waived and extinguished. Payments of those items of the bill in respect of which there is no dispute and of items in dispute, for quantities and rates as approved by Engineer in |

10.2.25
R K SINGH
EE(Manual)

| | |
|---|---|
| If the final bill is submitted by the contractor within the period specified above and delay in payment of final bills is made by the department after prescribed time limit, a simple interest @ 5 % (five percent) per annum shall be paid to the contractor from the date of expiry of prescribed time limit, provided the final bill submitted by the contractor is found to be in order. | charge, will, be made within the period of three months. The period **of three months will be** reckoned from the date of receipt of the bill **in complete shape after necessary corrections / additional documents,** by the Engineer-in-Charge.<br>vi. **In case of foreclosure / determination of contract, if the contractor fails to submit the EOT case, final measurement /bills within 30 days of foreclosure/ determination, the final bill will be prepared and decided by the department. The final bill shall only be paid after withholding amount equivalent to maximum compensation to be levied on the contractor.**<br>vii. If the final bill, **in complete shape,** is submitted by the contractor within the period specified above and delay in payment of final bills is made by the department after prescribed time limit, a simple interest @5% (five percent) per annum **may** be paid to the contractor from the date of expiry of prescribed time limit, provided the final bill submitted by the contractor **contains all the documents as mentioned in para – (iii) & (iv) above.** |
| **Schedule F**<br><br>**Clause 8**<br><br>No Provision | **Schedule F**<br><br>**Clause 8**<br><br>**Competent Authorities to inspect and issue completion certificate .....**<br><br>**(To be filled by NIT approving authority).** |

This issues with the approval of DG, CPWD.

10/2/2025

(दिनेश कुमार उज्जैनिया)
अधीक्षण अभियंता (सी.एंड एम.)

**Issued from file No. CSQ/CM/17(1)/2025/Maintenance**
**e-file 9190123 (DFA/9315616)**
केलोनिवि तथा लोनिवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु।
(केलोनिवि वेबसाईट के माध्यम से)

10.2.25
R K SINGH
EE(Manual)

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

**No. DG/CON/ Maintenance 2023/15**

**ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD**

NIRMAN BHAWAN, NEW DELHI Dated: 03.03.2025

**Subject: Modifications in Clause 14 of GCC 2023 for Maintenance Works.**

The following amendments are made in the Clause 14 of GCC 2023 for Maintenance Works:

| Existing provision | Modified provision |
|---|---|
| **Clause 14 Carrying out part work at risk & cost of contractor**<br><br>If contractor:<br><br>(iii) The Engineer- in-Charge without invoking action under clause 3 may, without prejudice to any other right or remedy against the contractor which have either accrued or accrue thereafter to Government, by a notice in writing to take the part work / part incomplete work of any item(s) out of his hands and shall have powers to :<br>(a) Take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or<br>(b) Carry out the part work / part incomplete work of any item(s) by any means at the risk and cost of the contractor. | **Clause 14 Carrying out part work at risk & cost of contractor**<br><br>If contractor:<br><br>(iii) The Engineer- in-Charge without invoking action under clause 3 may, without prejudice to any other right or remedy against the contractor which have either accrued or accrue thereafter to Government, by a notice in writing to take the part work / part incomplete work of any item(s) out of his hands and shall have powers to :<br>(a) Take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or<br>(b) Carry out the part work / part incomplete work of any item(s) by any means at the risk and cost of the contractor. **The contractor, from whom a part work / part incomplete work of any item(s), has been taken out of his hands, shall not be allowed to participate in the tendering/quotation process of part work / part incomplete work of any item(s).** |

This issues with the approval of DG, CPWD.

03.03.25

(आर. के. सिंह)

कार्यपालक अभियन्ता (एम.)

**Issued from file No. CSQ/CM/17(1)/2023/ Maintenance e-file-9184028 (DFA/9319526)**

केलोनिवि तथा लोनिवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु।

(केलोनिवि वेबसाईट के माध्यम से)

R K SINGH
EE(Manual)

Insertion : Nil Correction : Nil Omission : Nil AE-(P)

केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

**No. DG/CON/ Maintenance 2023/16**

**ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD**

**NIRMAN BHAWAN, NEW DELHI** **Dated: 16.06.2025**

**Subject: Modifications in Clause 25.2(b) and 25.6 of GCC 2023 for Maintenance Works.**

The following amendments are made in the Clause 25.2(b) and 25.6 of GCC 2023 for Maintenance Works:

| Existing provision | Modified provision |
|---|---|
| **Clause 25.2**<br>**(b) Qualification of Arbitrators**: It is a term of this contract that each member of the Arbitral Tribunal shall be Graduate Engineer with experience in execution of public works engineering contracts, and he should have worked earlier at a level not lower than the Chief Engineer (equivalent to level of Joint Secretary to the Government of India).<br><br>The aforesaid educational qualification and work experience shall be mandatory for appointment as Arbitrator.<br><br>The age of Arbitrator at the time of appointment shall not exceed 75 years. An Arbitrator may be appointed notwithstanding the total number of active arbitration cases with him. | **Clause 25.2**<br>**(b) Qualification of Arbitrators**: It is a term of this contract that each member of the Arbitral Tribunal shall be Graduate Engineer **(in Civil or Electrical or Mechanical Engineering)** with experience in execution of public works engineering contracts and he should have worked earlier at a level not lower than the SAG **(Level 14 of 7th CPC)** of the Government of India).<br><br>The aforesaid educational qualification and work experience shall be mandatory for appointment as Arbitrator.<br><br>The age of Arbitrator at the time of appointment shall not exceed **70 years**. |
| **Clause 25.6**<br>**Fee payable to Arbitrator(s):** The fee payable to the arbitral tribunal shall be as per CPWD OM No.2/2006/SE(TLC)/ CSQ/137 dated 19.11.2019 (or latest amendment), and shall be shared equally by both the parties. | **Clause 25.6**<br>**Fee payable to Arbitrator(s) for arbitration cases, shall be as per the fee given in the fourth schedule of the Arbitration & Conciliation Act, 1996** (or latest amendment), and shall be shared equally by both the parties. |

This issues with the approval of DG, CPWD.

चन्द्रपाल 16/06/2025
(चन्द्र पाल)
अधीक्षण अभियंता (सी. एंड एम.)

**Issued from file No. CSQ/CM/17(1)/2025 / Maintenance e-file 9135700 (TLC File)**

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

16.06.25
R K SINGH
EE(Manual)

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

**No. DG/CON/Maintenance-2023/17**

**ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD**

Nirman Bhawan, New Delhi Dated: 06.11.2025

**Subject: Modification of Clause 19L of GCC-2023 for Maintenance Works.**

The clause 19L in GCC-2023 for Maintenance Works is being modified:

| Existing Provision | Modified Provision |
|---|---|
| **Clause 19 L Contribution of EPF and ESI**<br><br>The ESI and EPF contributions on the part of employer in respect of this contract shall be paid by the contractor. These contributions on the part of the employer paid by the contractor shall be reimbursed by the Engineer-in-charge to the contractor on actual basis. The verification of deployment labour will be done through biometric attendance system or any other suitable method by the Engineer in Charge. The applicable and eligible amount of EPF & ESI shall be reimbursed preferably within 7 days but not later than 30 days of submission of documentary proof of payment provided same are in order | **Clause 19 L Contribution of EPF and ESI**<br><br>**It will be mandatory for all the agencies to register with ESI and EPFO departments within 30 days of the award of the work unless exempted by the provisions of ESI and / or EPFO and as amended time to time.** The ESI and EPF contributions on the part of employer in respect of this contract shall be paid by the contractor. These contributions on the part of the employer paid by the contractor shall be reimbursed by the Engineer-in-charge to the contractor on actual basis. The verification of deploy**ed** labour will be done through biometric attendance system or any other suitable method by the Engineer in Charge. **The agency shall submit an affidavit on a stamp paper of Rs. 100 that the employees were engaged fully and exclusively on the work for which the claim is being made.** The applicable and eligible amount of EPF & ESI shall be reimbursed preferably within 7 days but not later than 30 days of submission of documentary proof of payment provided same are in order |

This is issued with the approval of DG CPWD.

06.11.2025

(चन्दर पाल, अधी. अभि.) (सी. एण्ड एम.)
Chander Pal, SE (C&M)

अधीक्षण अभियंता (सी.एण्ड एम.)

**Issued from file No. CSQ/CM/17(1)/2024/** Maintenance **e-file 9195855 (DFA/9350595)**

के.लो.नि.वि. तथा लो.नि.वि. दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु (के.लो.नि.वि.वेबसाईट के माध्यम से)।

6/11/25

D.P. Jindal
EE (Contract)

Insertion : Nil Correction : Nil Omission : Nil AE-(P)

केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

**No. DG/CON/ Maintenance 2023/18**

**ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD**

**VIDYUT BHAWAN, NEW DELHI** **Dated: 27.02.2026**

**Subject: Modifications in General Rules & Directions, Clause 1 and Schedule E of GCC 2023 Maintenance Works**

The following modifications are made in the General Rules & Directions, Clause 1 and Schedule E of GCC 2023 Maintenance Works.

| Existing provision | Modified provision |
|---|---|
| **General Rules & Directions**<br><br>11 (i) The Contractor whose tender 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. ..... | **General Rules & Directions**<br><br>11 (i) The Contractor whose tender is accepted, will be required to furnish performance guarantee as mentioned in Schedule 'E' and within the period specified in Schedule F. ..... |
| **Clause 1**<br><br>**Performance Guarantee**<br><br>(i) The contractor shall submit an irrevocable Performance Guarantee at specified percentage of the tendered amount as mentioned in Schedule 'E', in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding 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. ..... | **Clause 1**<br><br>**Performance Guarantee**<br><br>(i) The contractor shall submit an irrevocable Performance Guarantee as mentioned in Schedule 'E', in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding 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. ..... |
| Sl. No. (ii) to (v) | No change |
| **SCHEDULE 'E'**<br><br>Reference to General Conditions of contract<br><br>Sl. No. (i) | **SCHEDULE 'E'**<br><br>Reference to General Conditions of contract<br><br>No change |

27/2/26
EE(C)
D.P. Jindal
EE (Contract)

Insertion : Nil Correction : Nil Omission : Nil AE-(P)

| | |
|---|---|
| (ii) Performance Guarantee : 5% of tendered value.<br><br>Sl. No. (iii) | (ii) Performance Guarantee :<br>**(a)** 5% of tendered value **or Estimated Cost Put to Tender (ECPT) (whichever is higher).**<br>**(b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.**<br><br>No change |

This issues with the approval of DG, CPWD.

PAccc/10 27.02.2026

चन्द्रपाल अधीक्षण अभियंता (सी.एण्ड एम.)
Chander Pal, SE (C&M)

अधीक्षण अभियंता (सी.एंड एम.)

**Issued from file No. CSQ/CM/17(1)/2026/ Maintenance e-file 9212995 (DFA/ 9365660 )**

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

27/2/26 EE(C)

D.P. Jindal
EE (Contract)

केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

**No. DG/CON/Maintenance 2023/19**
**ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD**

Vidyut Bhawan, New Delhi Dated: 25.03.2026

**Subject: Modifications in Clause 6 and Schedule 'F' of GCC 2023 Maintenance Works**

The following modifications are made in the Clause 6 and Schedule 'F' of GCC 2023 for maintenance works, for annual repair and maintenance works, special repair works, comprehensive maintenance works and upgradation works amounting upto Rs. 10 crores in Delhi only.

| Existing provision | Modified provision |
|---|---|
| **Clause 6: Computerized Measurement Book (CMB)/ Electronic Measurement Book (EMB) through CPWD ERP portal** | **Clause 6: Computerized Measurement Book (CMB)/ Electronic Measurement Book (EMB) through CPWD ERP portal** |
| Engineer-in-Charge ..... with the contract. | Engineer-in-Charge ..... with the contract. |
| All measurements and levels of work done during the period covering latter half of the preceding calendar month and first half of the calendar month shall be recorded by the contractor and compiled in the shape of the Computerized Measurement Book (CMB) / Electronic Measurement Book (EMB) through CPWD ERP portal / Computerized Level Book (CLB) respectively having pages of A-4 size as per the format of the department so that a complete record is obtained of all the items of works executed under the contract during the said period. The proforma Computerised Measurement and level books (along with soft copy) shall be submitted in triplicate through letter of transmittal to the Engineer-in-charge giving details of number of CMBs / CLBs and their number of pages by 20th day of every calendar month. | All measurements and levels of work done during the period covering latter half of the preceding calendar month and first half of the calendar month shall be recorded **either** by contractor **or jointly by department and contractor as specified in Schedule F** and compiled in the shape of the Computerized Measurement Book (CMB) / Electronic Measurement Book (EMB) through CPWD ERP portal / Computerized Level Book (CLB) respectively having pages of A-4 size as per the format of the department so that a complete record is obtained of all the items of works executed under the contract during the said period. The proforma Computerised Measurement and level books (along with soft copy) shall be submitted in triplicate through letter of transmittal to the Engineer-in-charge giving details of number of CMBs / CLBs and their number of pages by 20th day of every calendar month.. |
| In case of EMB, ..... calendar month. | **No change.** |

25/3/26
D.P. Jindal
EE (Contract)



Insertion : Nil Correction : Nil Omission : Nil AE-(P)

| | |
|---|---|
| All such monthly ..... his/her authorized representative. | **No change.** |
| In case of CMB/CLB, ..... corrected and authorized proforma CMB / CLB. | **No change.** |
| In case of EMB, ..... record of measurements available on ERP Portal. | **No change.** |
| Once the Engineer-in-charge ..... number of the CMB / CLB /EMB to the Contractor. | **No change.** |
| If the contractor fails ..... Clause 25 of this GCC. | **No change.** |
| Resources deployed ..... shall be sent to the contractor for his record. | **No change.** |
| The contractor ..... the Engineer-in-Charge or his/her representative. | **No change.** |
| Except where any ..... is available then a mutually agreed method shall be followed. | **No change.** |
| The contractor shall ..... the same was executed. | **No change.** |
| Engineer-in-Charge or ..... to such checking of measurements or levels. | **No change.** |
| It is also a term of ..... defects liability period. | **No change.** |
| PROFORMA OF SCHEDULES<br>(Separate Performa for Civil, Elect.& Hort. Works in case of Composite Tenders)<br><br>Clause 6 : Computerised Measure Book (CMB) / Electronic Measurement Book (EMB) | **PROFORMA OF SCHEDULES**<br>**(Separate Performa for Civil, Elect.& Hort. Works in case of Composite Tenders)**<br><br>**Clause6: Computerised Measurement Book (CMB) / Electronic Measurement Book (EMB)** |

25/3/21

D.P. Jindal
EE (Contract)

| | |
|---|---|
| Mode of measurement : CMB / EMB<br>Note:- One option to be kept by NIT approving authority | **(a)** Mode of measurement: CMB/ EMB<br>**(b) Measurement to be recorded either by contractor or jointly by department and contractor.**<br>**Note:-Only** one option to be kept by NIT approving authority **in (a) and (b)** |

This issues with the approval of DG, CPWD.

25.03.22

(चन्द्र पाल)
अधीक्षण अभियंता (सी.एंड एम.)
चन्द्र पाल, अधी. अभि. (सी.एण्ड एम.)
Chander Pal, SE (C&M)

**Issued from file No. CSQ/CM/17(1)/2023/Maintenance**
**e-file 9195855 (DFA/ 9355745)**

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

25/3/22

D.P. Jindal
EE (Contract)

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

**No. DG/CON/Maintenance 2023/20**

**ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD**

Vidyut Bhawan, New Delhi Dated: 18.08.2026

**Sub: Modification in Clause 19K: Deployment of Skilled/Semi-Skilled Tradesmen for GCC 2023 Maintenance Works.**

Following modification is made in Clause 19K: Deployment of Skilled/Semi-Skilled Tradesmen for GCC 2023 Maintenance Works.

| Existing Provision | Modified Provision |
|---|---|
| **Clause 19 K**<br><br>**Employment of skilled/ semi-skilled workers**<br><br>The contractor shall, at all stages of work, deploy skilled/semi-skilled tradesmen who are qualified and possess certificate in particular trade from CPWD Training Institute/Industrial Training Institute/ National Institute of construction Management and Research (NICMAR)/ National Academy of Construction, CIDC or any similar reputed and recognized Institute managed/ certified by State/Central Government.<br><br>The number of such qualified tradesmen shall not be less than 20% of total skilled/semi-skilled workers required in each trade at any stage of work. The contractor shall submit number of man days required in respect of each trade, its scheduling and the list of qualified tradesmen along with requisite certificate from recognized Institute to Engineer in charge for approval. Notwithstanding such approval, if the tradesmen are found to have inadequate skill to execute the work of respective trade, the contractor shall substitute such tradesmen within two days of written notice from Engineer-in- Charge. Failure on the part of contractor to obtain approval of Engineer-in Charge or failure | **Clause 19 K**<br><br>**Deployment of skilled/semi-skilled workers**<br><br>The Contractor shall, at all stages of work, deploy skilled and semi-skilled tradesmen who are **duly** qualified and **hold** certificates in **their respective** trades, from **the** CPWD Training Institute, **or from awarding bodies recognized under the aegis of National Council for Vocational Education and Training (NCVET), Ministry of Skill Development and Entrepreneurship (MSDE)**, or any institute recognized/certified by the State or Central Government **for this purpose**.<br><br>The number of such qualified tradesmen shall not be less than 20% of the total skilled/semi-skilled workers required in each trade at any stage of work. The Contractor shall submit, **for approval of the Engineer-in-Charge, the** number of man-days required for each trade, **the** proposed scheduling, and the list of qualified tradesmen along with requisite certificates issued by any of the above recognized institutes.<br><br>**To make up any shortfall below the prescribed minimum limit of 20% of skilled/semi-skilled tradesman, the Contractor shall arrange skilling of** |

L. S. Meena
AE (C-II) 20-2020

Ajay Kumar
18/8/2026
EE (Contract)



Insertion : Nil Correction : Nil Omission : Nil AE-(P)

| | |
|---|---|
| to deploy qualified tradesmen will attract a compensation to be paid by contractor at the rate specified in schedule 'F' per such tradesman per day. Decision of Engineer in Charge as to whether particular tradesman possesses requisite skill and amount of compensation in case of default shall be final and binding. Provided always, that the provisions of this clause, shall not be applicable for works with estimated cost put to tender being less than Rs. 5 crores. For work costing more than Rs. 10 Crores, and upto Rs. 50 Crores, the contractor shall arrange on site training as per National Skill Development Corporation (NSDC) norms for at least 20% of the unskilled workers engaged in the project in co-ordination with the CPWD Regional Training Institute & National Skill Development Corporation (NSDC) for certification at the level of skilled/semi-skilled tradesmen. For work costing more than Rs. 50 Crores, the contractor shall arrange on site training as per National Skill Development Corporation (NSDC) norms for at least 30% of the unskilled worker engaged in the project in coordination with the CPWD Regional Training Institute & National Skill Development Corporation (NSDC) for certification at the level of skilled/semi-skilled tradesmen. The cost of such training as stated above shall be born by the Government. The necessary space and workers shall be provided by the contractor and no claim what so ever shall be entertained. | **workers at site under the Recognition of Prior Learning (RPL) program, conducted by awarding bodies recognized under NCVET or any institute recognized/certified by the State or Central Government for this purpose. The cost of such recognition/training, including the infrastructure required at site, shall be borne by the Contractor. The tradesmen undergoing training shall be paid their wages by the contractor for period during the training, and no reimbursement in this respect shall be made by the Government.**<br><br>This provision shall not be applicable for works with **an** estimated cost put to tender **of** less than ₹5 Crore **in case of construction works and less than ₹50 Lakh in case of maintenance works**.<br><br>**In the event, the contractor fails to provide the mandatory training to the tradesmen, a penalty of ₹1,000 per day per tradesman falling short of the required 20% target shall be imposed on the Contractor. Decision of Engineer in Charge shall be final and binding in this regard.** |

This issues with the approval of DG CPWD.

18.08.26

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

**Issued from file No. CSQ/CM/17(1)/2026/ Maintenance e-file 9196031 (DFA/ 9388060)**

के.लो.नि.वि. तथा लो.नि.वि. दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु (के.लो.नि.वि.वेबसाईट के माध्यम से)।

18/8/2026
EE (Contract)

18-8-2026
L. S. Meena
AE (C-II)

# PART – C

# Schedule of Quantity

**SCHEDULE OF QUANTITIES**

Name of Work:- Providing and laying new sewage lines in place of damaged sewage lines pipes, including construction of manholes and gully chambers at Central Excise Quarters, Madiwala, Bengaluru.

| Sl No | Description of Item | Qty | Unit | Rate (i/c GST inc @0.973 & CI @17 % &1.03) | Amount |
|---|---|---|---|---|---|
| **1** | **EARTH WORK** | | | | |
| 1.1 | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. | 125.00 | cum | 305.23 | 38154.00 |
| 1.2 | Excavating trenches by mechinical / manual means of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m | | | | |
| 1.2.1 | Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia | 550.00 | Mtr | 412.93 | 227112.00 |
| 1.3 | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lift. | 130.00 | cum | 229.83 | 29878.00 |
| 1.4 | Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials. | | | | |
| | All kinds of soil | 2.00 | cum | 148.69 | 297.00 |
| | **Sub-Total** | | | | **295441.00** |
| 2 | **CONCRETE WORK** | | | | |
| 2.1 | Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing: | | | | |
| 2.1.1 | 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources) | 16.00 | cum | 9238.33 | 147813.00 |
| 2.1.2 | 1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources) | 35.00 | cum | 7643.71 | 267530.00 |
| 2.2 | Centering and shuttering including strutting, propping etc. and removal of form work for : | | | | |
| 2.3 | Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc. | 30.00 | sqm | 987.92 | 29638.00 |
| 2.4 | Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth. | 560.00 | sqm | 314.02 | 175851.00 |
| | **Sub-Total** | | | | **620832.00** |

| | | | | | |
|---|---|---|---|---|---|
| 3 | **REINFORCED CEMENT CONCRETE** | | | | |
| 3.1 | Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources). | 1.20 | cum | 13491.35 | 16190.00 |
| 3.2 | Centering and shuttering including strutting, propping etc. and removal of form for | | | | |
| 3.2.1 | Suspended floors, roofs, landings, balconies and access platform | 10.00 | sqm | 1087.29 | 10873.00 |
| 3.3. | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. | | | | |
| 3.3.1 | Thermo-Mechanically Treated bars of grade Fe-500D or more. | 120.00 | kg | 126.46 | 15175.00 |
| | **Sub-Total** | | | | **42238.00** |
| 4 | **CLADDING WORK** | | | | |
| 4.1 | Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels. | | | | |
| | Granite stone slab of colour black, Cherry/Ruby red | | | | |
| 4.1.1 | Area of slab upto 0.50 sqm | 5.00 | sqm | 6347.87 | 15844.00 |
| 4.1.2 | Area of slab over 0.50 sqm | 2.50 | sqm | 6022.83 | 24091.00 |
| 4.2 | Extra for providing opening of required size & shape for wash basin/kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete | 4.00 | Each | 1147.62 | 4590.00 |
| 4.3 | Providing and laying polished Glazed Vitrified tiles of matt/glossy/antiskid finish of size 600 x 600 mm **wall tiles** conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, l**aid with cement based high polymer modified quick set tile adhesive type II (water based) conforming to IS : 15477, in average 6 mm thickness,** including grouting of joints (**Payment for grouting of joints to be made separately).** | 4.00 | sqm | 2023.20 | 8093.00 |
| | **Sub-Total** | | | | **52618.00** |
| 5 | **WOOD & PVC WORK** | | | | |
| 9.12 | Extra for providing frosted glass panes 5 mm thick (weight not less than 10 kg per sqm) instead of ordinary float glass panes 4 mm thick (weight not less than 10 kg per sqm) in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured). | 1.01 | sqm | 206.85 | 209.00 |
| 5.1 | Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. | | | | |
| 5.1.1 | Fixed to openings /wooden frames with rawl plugs screws etc. | 210.00 | kg | 279.49 | 58693.00 |

| | | | | | |
|---|---|---|---|---|---|
| 5.2 | Providing and fixing factory made uPVC glazed/wire mesh windows/doors comprising of lead free uPVC multi-chambered frame, sash and mullion/coupler (where ever required) extruded profiles having minimum wall thickness of 1.70 mm for Series R1 and R2 profiles and 2.10 mm for Series R3 and R4 profiles conforming to EN: 12608 in any shape, colour and design duly reinforced with galvanized mild steel section made of required shape & size as per CPWD Specification, uPVC extruded glazing beads, interlocks and Inline sash adaptor (where ever required) of appropriate dimension, EPDM gasket, hardware, SS 304 grade fasteners of minimum 8 mm dia with countersunk head, comprising of matching polyamide PA6 grade sleeve for fixing frame to finished wall as per IS 1367 : Part 1 to 14, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame, sash & mullion (if required) shall be mitred cut and fusion welded/mechanically jointed duly sealed at all corners, including drilling of holes for fixing hardware and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of approved size and quality, all complete as per approved drawing conforming to CPWD specification & direction of Engineer-in-Charge. Section of steel reinforcement and cross sections of uPVC profiles to be as per design approved by Engineer-in-Charge.<br>Wire mesh / Glazing of plain/ toughened/ laminated/ double glass unit with / without high performance coatings as per design requirements and conforming to IS: 3548 & IS: 16231 shall be paid separately. | | | | |
| | Note:- Structural design proof checked from a Government Engineering Institute, to be provided by the manufacturer for :<br>(i) Sites with basic wind speed > 45 m/sec as per IS 875 – Part 3 (ii) Sites with structure height more than 20m for all wind speeds | | | | |
| | Two and half track three panels sliding window with two glazed & one wire mesh panels with Aluminium channel for roller track, wool pile, nylon rollers with SS 304 body. | | | | |
| 5.3 | Using R3 series with frame (85mm & above) x (40mm & above) & glazed sash (30mm & above) x (55mm & above) & fly screen sash (20mm & above) x (50mm & above) with zinc alloy (zamak) powder coated handle on every glazed panel along with multi-point locking system. (Height upto 1.8 Mtr). | 12.50 | sqm | 11689.30 | 146116.00 |
| 5.4 | Fixed window / ventilator with mullion / transom. | | | | |
| 5.4.1 | Using R1 series with frame (33mm & above ) x (35mm & above) & mullion (33mm & above) x (50mm & above). (Height upto 0.90 Mtr) | 1.05 | sqm | 10735.39 | 11272.00 |
| 5.5 | Casement Window with Double Rebate Frame with one Side Hung Glazed Panel and one Side Hung wire mesh Panel with S.S. 304 friction hinges as per size and weight of sash, multi-point locking system, zinc alloy (zamak) powder coated handles on both glazed and fly screen panel | | | | |
| 5.5.1 | Using R3 series with frame (110mm & above) x (45mm & above) & glazed sash (55mm & above) x (65mm & above) & fly screen sash (30mm & above) x (55mm & above) & metal grill (if required to be paid separately). (Height upto 1.8 Mtr) | 4.10 | sqm | 26718.10 | 109544.00 |
| 5.6 | Providing and fixing 19mm thick one side decorative lamination and other side balancing lamination factory pressed BWP grade marine ply as per IS 710 including 2mm thick PVC edge banding tape with hot glue by edge bending machine etc. of approved brand boxes, shelves, racks, almirah, cupboard and drawer etc. including necessary nails,screws etc. complete as per direction of Engineer-in-charge. | 11.00 | sqm | 3572.15 | 39294.00 |

| | | | | | |
|---|---|---|---|---|---|
| 5.7 | Providing and fixing cupboard shutter with 19mm thick one side decorative and other side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand including 2mm thick PVC edge banding tape with hot glue by edge bending machine etc. with auto closing spring loaded hinges (hydraulic type) etc. complete as per direction of Engineer-in-charge.(Payment of providing and fixing auto closing hinges shall be paid separately) | 45.00 | Sqm | 3317.58 | 149291.00 |
| 5.8 | Providing and fixing 19mm thick both side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand boxes, shelves, racks, almirah, cupboard and drawer etc. including necessary nails, screws etc. complete as per direction of Engineer-in-charge. | 50.00 | Sqm | 3040.73 | 152037.00 |
| 5.9 | Providing and fixing stainless steel soft closing spring hinges at 0 degree hinges (hydraulic type) of approved make/brand to cupboard shutters with full threaded steel screws including making necessary recess in board and finished etc. complete as per direction of Engineer-in-charge. | 140.00 | Each | 318.95 | 44653.00 |
| 5.1 | Providing and fixing stainless steel soft closing heavy type telescopic drawer channels of approved make 500 mm long with screws etc. complete as per directions of Engineer- in-charge. | 8.00 | Each | 1037.87 | 8303.00 |
| 5.11 | Providing and fixing ready made 304 grade stainless steel Modular kitchen basket and accessories such as right angle basket (Plain Cup & Saucer, plant, Partition, Bottle rack, Thali, Cutlery) kitchen utensil basket, Dinner set basket, kitchen grain basket, Multipurpose basket as per site requirement including finishing (wherever required) and fittings. The same shall be fixed with necessary stainless steel nuts & bolts, Stainless Steel screws & telescopic channel etc. as per direction of Engineer-in-charge. (For payment purpose only weight of Stainless steel basket shall be considered excluding weight of all fixing accessories such as nuts, bolts, fasteners telescopic basket channels etc. Payment of providing and fixing telescopic channel shall be paid separately) | 20.00 | kg | 625.29 | 12506.00 |
| | **Sub-Total** | | | | **731918.00** |
| 6 | **STEEL WORK** | | | | |
| 6.1 | Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete. | | | | |
| 6.1.1 | Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides | 11.00 | sqm | 1329.20 | 14621.00 |
| | **Total** | | | | **14621.00** |
| 7 | **FLOORING** | | | | |
| 7.1 | Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. | | | | |
| | Glazed vitrified floor tiles polished finish of size | | | | |
| 7.1.1 | Size of Tile 600 x 1200 mm | 30.00 | sqm | 2109.27 | 63278.00 |
| | **Sub-Total** | | | | **63278.00** |
| 8 | **FINISHING** | | | | |
| 8.1 | 12 mm cement plaster of mix : | | | | |
| 8.1.1 | 1:6 (1 cement: 6 fine sand) | 189.00 | sqm | 390.89 | 73878.00 |

| | | | | | |
|---|---|---|---|---|---|
| 8.2 | Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete. | 530.00 | sqm | 182.98 | 96979.00 |
| 8.3 | Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound ) content less than 50 grams / litre of "Royale" of Asian paints or "Berger silk glamour" of berger paints or velvet touch pearl glo of ICI Dulux or "impressions kashmir high sheen" of nerolac, including applying additional coats wherever required to achieve even shade and colour. | | | | |
| 8.3.1 | Two coats | 530.00 | sqm | 167.45 | 88749.00 |

| | | | | | |
|---|---|---|---|---|---|
| 8.4 | Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content. | | | | |
| 8.5 | With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre | 530.00 | sqm | 86.71 | 45956.00 |
| 8.6 | Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete | 530.00 | sqm | 23.16 | 12275.00 |
| | **Sub-Total** | | | | **317837.00** |
| 9 | **Repairs to Buildings** | | | | |
| 9.1 | Providing and fixing Stainless steel curtain rods round polished with two SS brackets fixed with SS screws all complete. as per direction of Engineer in charge | 14.5 | Mtr | 425.36 | 6168.00 |
| | **Sub-Total** | | | | **6168.00** |
| 10 | **DISMANTLING AND DEMOLISHING** | | | | |
| 10.1 | Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 Mtrs lead as per direction of Engineer - in - charge. | | | | |
| 10.1.1 | Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix) | 10.00 | cum | 2854.40 | 28544.00 |
| 10.2 | Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 Mtrs lead as per direction of Engineer - in- charge. | 3.50 | cum | 4164.20 | 14575.00 |
| 10.3 | Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 Mtrs lead as per direction of Engineer-in-charge. | | | | |
| 10.3.1 | In cement mortar | 0.40 | cum | 2415.79 | 966.00 |
| 10.4 | Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 Mtrs lead. | 3.50 | Sqm | 86.07 | 301.00 |
| 10.5 | Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 Mtrs lead : | | | | |
| 10.5.1 | 75 to 80 mm dia pipe | 385 | Mtr | 88.77 | 34176.00 |
| 10.5.2 | 100 mm dia pipe | 385 | Mtr | 91.46 | 35212.00 |
| 10.6 | Dismantling of road gully chamber of various sizes including C.I. grating with frame including stacking of useful materials near the site and disposal of unserviceable materials within 50 Mtrs lead including refilling the excavated gap. | 64.00 | Each | 1124.23 | 71951.00 |
| 10.7 | 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. | 30.00 | Cum | 309.51 | 9285.00 |
| | **Sub-Total** | | | | **195010.00** |
| 11 | **ROAD WORK** | | | | |
| 11.1 | Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 Mtr lead as per direction of Engineer-in-Charge. | 70.00 | sqm | 154.49 | 10814.00 |
| 11.2 | Laying old cement cocrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost). | 70.00 | sqm | 472.50 | 33075.00 |
| | **Sub-Total** | | | | **43889.00** |
| 12 | **SANITARY INSTALLATIONS** | | | | |

| | | | | | |
|---|---|---|---|---|---|
| 12.1 | Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm,including painting of fittings and brackets, cutting and making good the walls wherever required : | | | | |
| | Kitchen sink with drain board | | | | |
| 12.1.1 | 510x1040 mm bowl depth 200 mm | 1.00 | Each | 8394.64 | 8395.00 |

| | | | | | |
|---|---|---|---|---|---|
| 12.2 | Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge. | 1.00 | Nos | 1213.41 | 1213.00 |
| 12.3 | Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : | | | | |
| 12.3.1 | Rectangular shape 453x357 mm | 1.00 | each | 1596.85 | 1597.00 |
| | **Sub-Total** | | | | **11205.00** |
| 13 | **WATER SUPPLY** | | | | |
| 13.1 | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.Concealed work, including cutting chases and making good the walls etc. | | | | |
| | Concealed work, including cutting chases and making good the walls etc. | | | | |
| 13.1.1 | 15 mm nominal dia Pipes | 3.00 | Mtr | 583.72 | 1751.00 |
| 13.2 | Providing and fixing uplasticised PVC connection pipe with brass unions : | | | | |
| 13.2.1 | 45 cm length. | | | | |
| 13.2.1.1 | 15 mm nominal bore. | 3.00 | Each | 114.62 | 344.00 |
| 13.3 | Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 : | | | | |
| 13.3.1 | 15mm nominal bore | 3.00 | Each | 673.42 | 2020.00 |
| | **Sub-Total** | | | | **4115.00** |
| 14 | **DRAINAGE** | | | | |
| 14.1 | Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : | | | | |
| | Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) : | | | | |
| 14.1.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | 21.00 | Each | 14974.75 | 314470.00 |
| 14.2 | Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) : | | | | |
| 14.2.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | 10.00 | Each | 30963.09 | 309631.00 |
| 14.3 | Extra for depth for manholes : | | | | |
| 14.3.1 | Size 90x80 cm and 45 cm deep | | | | |
| 14.3.1.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | 4.50 | Mtr | 10348.66 | 46569.00 |
| 14.4 | Size 120x90 cm | | | | |
| 14.4.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | 2.00 | Mtr | 12412.56 | 24825.00 |

| | | | | | |
|---|---|---|---|---|---|
| 14.5 | Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand), inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design : | | | | |
| 14.5.1 | 0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) : | | | | |
| 14.5.1.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | 2.00 | Each | 14921.34 | 29843.00 |
| 14.6 | Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m | | | | |
| 14.6.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | 0.70 | Mtr | 8902.14 | 6231.00 |
| 14.7 | Dismantling of manhole including R.C.C. top slab, C.I. cover with frame, including stacking of useful materials near the site and disposal of unserviceable materials within 50 m lead as per direction of Engineer-in-charge: | | | | |
| 14.7.1 | Rectangular manhole 90x80 cm and 45 cm deep | 15.00 | Each | 2979.40 | 44691.00 |
| 14.8 | Extra for depth of manholes dismantled : | | | | |
| 14.8.1 | Rectangular manhole 90x80 cm and beyond 45 cm depth | 4.00 | Mtr | 2398.55 | 9594.00 |
| | **Sub-Total** | | | | **785854.00** |
| 15 | **Aluminium Work** | | | | |
| 15.1 | Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): | | | | |
| 15.1.1 | With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm) | 13.50 | sqm | 1765.06 | 23828.00 |
| | **Sub-Total** | | | | **23828.00** |
| 16 | **NEW TECHNOLOGIES AND MATERIALS** | | | | |
| 16.1 | Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/Clerestory windows & other Frames/Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm2, modulus of elasticity 900 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. (M.S hold fast/lugs or SS dash fasteners shall be paid for separately). | | | | |
| | Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made. | | | | |
| 16.1.1 | Frame size 45 x 70 mm | 50.00 | Mtr | 827.68 | 41384.00 |

| | | | | | |
|---|---|---|---|---|---|
| 16.2 | Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately) | | | | |
| 16.2.1 | 30 mm thick | 17.00 | Sqm | 5096.94 | 86648.00 |
| | **Sub-Total** | | | | **128032.00** |
| | **Non Schedule Items** | | | | |
| 17 | Providing and fixing PVC. gully trap with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: | | | | |
| 17.1 | 160X110 mm 6 (Round) supree brand | | | | |
| 17.1.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | 64.00 | Each | 3065.20 | 196173.00 |
| 18 | Providing and fixing 75 mm diameter unplasticised rigid PVC SWR pipes of approved brand and manufacturer confirming to IS 13592, Type B including jointing with seal ring confirming to IS 14735 leaving 10mm gap for thermal expansion with good quality lubricant for vertical stacks in shafts and jointing with solvent cement in sunken floor slabs or under slab as per IS:13592-1992 for pipes and IS:14735 for fittings, inclusive of all necessary specials like bends, tees, offsets, junctions etc.., laid under floor / under ceiling / on walls with suitable clamps and specials curing necessary chasing, jointing and resorting to original condtions, testing etc..,including cost of materials, labour, machinery and equipements with all leads and lifts, loading and unloading charges, transportation cost and conveyance, all other incidential charges etc..,at all levels complete for successful completion of work as per specifications and as per the direction of Engineer-in-charge. | 385.00 | Mtr | 498.40 | 191884.00 |
| 19.0 | Providing and fixing 110 mm diaMtr Type B UPVC SWR pipes of approved brand and manufacture confirming to IS 13592 including jointing with rubber ring with good quality lubricant for vertical stacks in shafts and in sunken floor slabs or under slab with solvent cement as per IS:13592-1992 for pipes and IS:14735 for fittings, inclusive of all necessary specials like bends, tees, offsets, junctions etc.., laid under floor/under ceiling / on walls with suitable clamps and specials curing necessary chasing, jointing and resorting to original condtions, testing etc..,including cost of materials, labour, machinery and equipements with all leads and lifts, loading and unloading charges, transportation cost and conveyance, all other incidential charges etc..,at all levels complete for successful completion of work as per specifications and as per the direction of Engineer-in-charge. | 480.00 | Mtr | 714.97 | 343187.00 |
| 20 | Providing and laying 160 mm nominal outer diameter (OD) eco drain pipe for drainage system, conforming to IS 16098 (Part 1) and stiffness class SN 4 (4 kN/m²). Item includes laying in trenches, jointing with click ring and rubber sealing ring system to ensure 100% leak-proof performance, including all fittings, hydraulic testing, and commissioning including cost of materials, labour, machinery and equipements with all leads and lifts, loading and unloading charges, transportation cost and conveyance, all other incidential charges etc..,at all levels complete for successful completion of work as per specifications and as per the direction of Engineer-in-charge. | 160.00 | Mtr | 986.35 | 157816.00 |

| | | | | | |
|---|---|---|---|---|---|
| 21 | Providing and laying 200 mm nominal outer diameter (OD) eco drain pipe for drainage system, conforming to IS 16098 (Part 1) and stiffness class SN 4 (4 kN/m²). Item includes laying in trenches, jointing with click ring and rubber sealing ring system to ensure 100% leak-proof performance, including all fittings, hydraulic testing, and commissioning including cost of materials, labour, machinery and equipements with all leads and lifts, loading and unloading charges, transportation cost and conveyance, all other incidential charges etc..,at all levels complete for successful completion of work as per specifications and as per the direction of Engineer-in-charge. | 80.00 | Mtr | 1436.00 | 114880.00 |
| 22 | Providing and laying 250 mm nominal outer diameter (OD) eco drain pipe for drainage system, conforming to IS 16098 (Part 1) and stiffness class SN 4 (4 kN/m²). Item includes laying in trenches, jointing with click ring and rubber sealing ring system to ensure 100% leak-proof performance, including all fittings, hydraulic testing, and commissioning including cost of materials, labour, machinery and equipements with all leads and lifts, loading and unloading charges, transportation cost and conveyance, all other incidential charges etc..,at all levels complete for successful completion of work as per specifications and as per the direction of Engineer-in-charge. | 180.00 | Mtr | 2248.00 | 404640.00 |
| 23 | Providing and fixing SS grating of approved quality as per direction of Engineer in charge. | | | | |
| | Rectangular type with openable circular lid | | | | |
| 23.1 | 125 mm nominal size square 100 mm diameter of the inner hinged round grating | 1.00 | Nos | 235.75 | 236.00 |
| 24 | Providing & Fixing swan neck sink cock with swinging spout and wall flange of approved make as per the direction of Engineer in charge. | 1.00 | Nos | 2024.10 | 2024.00 |
| 25 | Providing and fixing ceramic table top wash basin of size 495x395x150 mm of jaquar Model No.JDS-WHT-25909/ 483x344x141mm of Kohler Model No. K-31459IN-0 with pillar cock of KUBIX PRIME series Jaquar Model No.KUP-35001PM/Kohler Model No. K-34078IN-4-CP and 32 mm C.P.brass waste of standard pattern, including all fittings, cutting and making good the walls wherever required all as per manufacturers specification and direction of Engineer in charge. | 1.00 | Nos | 6719.10 | 6719.00 |
| 26 | Providing & Fixing Towel ring Square/round with round flange type of Kohler Model No.K-5631IN-CP/JAQUAR Continental Series of Model No. ACN-1121N or equivalent all complete as per manufacturers specification and direction of Engineer in charge. | 1.00 | Nos | 1231.12 | 1231.00 |
| | **Sub-Total** | | | | **1418790.00** |
| | **Credit Items** | | | | |
| 27 | Credit for taking back dismantled steel doors and windows including frame and grills and mesh from the campus including all lifts and leads as directed by the Engineer-in-charge. | 140.00 | kg | 28.00 | -3920.00 |
| 28 | Credit for taking back dismantled CI pipes of 75mm from the campus including all lifts and leads as directed by the Engineer-in-charge. | 2118.00 | Kg | 30.00 | -63540.00 |
| 29 | Credit for taking back dismantled CI pipes of 100mm from the campus including all lifts and leads as directed by the Engineer-in-charge. | 4090.00 | kg | 30.00 | -122700.00 |
| | **Sub-Total** | | | | **-190160.00** |
| | GRAND TOTAL | | (A) | | **4565514.00** |

# Central Public Works Department

## 47/EE/BCDI/e- Tendering/2026-27/Bangalore

**Name of Work: Providing and laying new sewage lines in place of damaged sewage lines pipes, including construction of manholes and gully chambers at Central Excise Quarters, Madiwala, Bengaluru.**

## SCHEDULE OF QUANTITIES

| Name of the Contractor / Company Name | | | | | |
|---|---|---|---|---|---|
| **Sl.No.** | **Name of component** | **Estimated cost** | **Percentage above or below the estimated cost** | **% in Figures** | **Total Cost** |
| 1 | Providing and laying new sewage lines in place of damaged sewage lines pipes, including construction of manholes and gully chambers at Central Excise Quarters, Madiwala, Bengaluru. | **4565514** | Select | | - |
| | **Grand Total** | | | | - |