

**Name of work:** Upgradation of Gymnastic hall at NCoE Sports Authority of India, Aurangabad. SH:- Construction of the foam pit/jumping pit.  
**SH :** Gymnastic hall foam pit wall plastering, creation of new windows & misc. work.

**NIT No.:** 23/NIT/EE/Nasik/2026-27

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This N.I.T. is approved for **Rs. 3,44,704/- (Rs. Three Lakh Forty Four Thousand Seven Hundred & Four Only)**

**Assistant Engineer,  
ACSD,CPWD,Aurangabad**

**INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e-TENDERING FORMING PART OF  
NIT AND  
TO BE POSTED ON WEBSITE**

The **Assistant Engineer, ACSD, CPWD, Aurangabad** invites on behalf of The President of India invites online Percentage rate tenders from the approved and eligible contractors of CPWD for the following work:

| Sl. No. | NIT No.                 | Name of Work & Location                                                                                                                                                                                         | Estimate cost Put to Tender | Earnest Money | Period of Completion | Last date and time of submission of bid, online EMD and other documents as specified in the press notice | Time & date of opening of other documents and online bid |
|---------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|----------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| 1       | 23/NIT/EE/Nasik/2026-27 | Upgradation of Gymnastic hall at NCoE Sports Authority of India, Aurangabad. SH:- Construction of the foam pit/jumping pit. SH : Gymnastic hall foam pit wall plastering, creation of new windows & misc. work. | Rs.3,44,704/-               | Rs.6,894/-    | 01 (One) Month       | Upto 3.00 PM on<br><b>07/10/2026</b>                                                                     | At 3.30 PM on<br><b>07/10/2026</b>                       |

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 <https://etender.cpwd.gov.in> or [www.cpwd.gov.in](http://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. (The EMD document shall only be issued from the place in which the office of receiving division office is situated) and uploading the mandatory scanned documents such as Demand Draft or pay order or Banker's Cheque or Deposit at call Receipt or Fixed Deposit Receipts and Bank Guarantee of any Scheduled Bank towards EMD in favour of Executive Engineer, CPWD, Nasik receipt for deposition of original EMD to Division Office of any Executive Engineer, CPWD and other documents as specified.
5. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
6. The intending bidder must have valid class-III digital signature to submit the bid.
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 his percentage rate (above/below) in the attached schedules.

However, if a tenderer 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.

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

- i. Treasury Challan/Demand Draft/Pay order or Banker's Cheque/Deposit at Call Receipt/FDR/Bank Guarantee of any Scheduled Bank against EMD in favor of Executive Engineer, CPWD, Nasik.
- ii. Enlistment order of the contractor.
- iii. Copy of receipt for deposition of original bank guarantee as EMD issued from division office of any Executive Engineer, CPWD. (Annexure-A)
- iv. Certificate Registration of GST.
- v. Upload the ERP Training Certificate of the ERP (Enterprise Resource Planning) training through any of the CPWD Regional Training Institutes (RTIs) at Delhi, Mumbai, Chennai and Kolkata, National CPWD Academy (NCA) Ghaziabad as per NIT Condition.
- vi. If the bidder has not obtained GST registration as applicable, then he shall scan and upload following undertaking along with bid documents.

**"If work is awarded to me, I/we shall obtain GST registration certificate as applicable within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/we shall be**

**responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by CPWD or GST department in this regard".**

vii. Undertaking On Structural Stability And Soundness Of Already Completed Buildings And Infrastructure Projects **FORM F**

**Annexure-‘A’**

**Proforma for receipt of deposition of earnest money deposit.**

Receipt of deposition of original EMD.

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

1. Name of work: Upgradation of Gymnastic hall at NCoE Sports Authority of India, Aurangabad.  
SH:- Construction of the foam pit/jumping pit.  
SH : Gymnastic hall foam pit wall plastering, creation of new windows & misc. work.
  2. NIT No. - 23/NIT/EE/Nasik/2026-27.
  3. Estimated Cost – Rs. 3,44,704/-
  4. Amount of Earnest Money Deposit – Rs.6,894/-
  5. Last date of submission of bid – 07/10/2026
- 

1. Name of contractor –
2. Form of EMD –
3. Amount of Earnest Money Deposit -
4. Date of submission of EMD -

**Signature, Name and Designation  
of EMD receiving officer (EE/ DDH)  
alongwith Office stamp**

**Government of India CPWD  
Notice Inviting Tender for e-Tendering**

1. Online percentage rate tenders is invited on behalf of President of India from approved and eligible contractors of CPWD for the following work:-

**Name of Work: Upgradation of Gymnastic hall at NCoE Sports Authority of India, Aurangabad. SH:- Construction of the foam pit/jumping pit.  
SH : Gymnastic hall foam pit wall plastering, creation of new windows & misc. work.**  
The enlistment of the contractors should be valid on the last date of submission of bids.

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

- 1.1 The work is estimated to cost **Rs. 3,44,704/-**-This estimate, however, is given merely as a rough guide.
2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD-7, which is available as a Govt. of India Publication and also available on website [www.cpwd.gov.in](http://www.cpwd.gov.in). Bidder 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 **01 (One) Months** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. **(i) The site for the work shall be made available in parts.**  
  
**(ii)The architectural and structural drawings shall be made available in phased manner, as per requirement of the same as per approved program of completion submitted by the contractor after award of work.**
5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen from the web Site <https://etender.cpwd.gov.in> or [www.cpwd.gov.in](http://www.cpwd.gov.in) free of cost.
6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of tender as notified.
7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
8. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's cheque or Bank Guarantee including e-bank guarantee

(for balance amount as prescribed) from any of the Commercial Bank's shall be drawn in favour of **Executive Engineer, Nasik Central Division, CPWD, Nasik** shall be scanned and uploaded to the e-tendering website within the period of the bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.

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

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

Copy of Enlistment Order and certificate of work experience and other documents as specified in the NIT shall be scanned and uploaded to the e-Tendering website within the period of bid submission. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose scanned and uploaded original EMD deposited and other documents are found in order. However, certified copy of all the scanned and uploaded documents as specified in NIT shall have to be submitted within a week in the office of tender opening authority by the lowest bidder only.

**The bid submitted shall be opened at 03:30 PM on 07.10.2026**

9. 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 stipulated in the bid document.
  - (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.
  - (iv) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

- 10.** The contractor whose bid is accepted will be required to furnish performance guarantee at specified percentage of the tendered amount as mentioned in schedule E and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work within the period specified in Schedule F.

**11.** The description of the work is as follows: **Upgradation of Gymnastic hall at NCoE Sports Authority of India, Aurangabad. SH:- Construction of the foam pit/jumping pit.**

**SH : Gymnastic hall foam pit wall plastering, creation of new windows & misc. work.**

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 bidder 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 bidder shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

- 12.** 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 bidder shall be summarily rejected.
- 13.** 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.

14. 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.
15. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Housing and Urban Affairs. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
16. 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.
17. The bids for the work shall remain open for acceptance for a period of 30 (thirty) days from the date of opening of bids in case of single bid system ~~and 75 (seventy five) days from the date of opening of technical bids in case bids are invited in 2 or 3 bid system.~~  
Further
  - (i) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department within 7 days after last date 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.
18. This notice inviting Bid shall form a part of the contract document. The successful bidder/contractor, on acceptance of his bid by the Accepting Authority shall **within 15 days from the stipulated date of start of the work**, sign the contract consisting of:
  - (a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time

of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.

(b) Standard C.P.W.D. Form 7 or other Standard C.P.W.D. Form as applicable.

**19.** 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 (Phone no **0253-2416937** e- mail Id: **eencd@yahoo.in**) or ERP helpline no. 18001803286 or e-mail Id cpwd.support@techmahindra.com. The e- tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest.

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

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

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

**GOVERNMENT OF INDIA  
CENTRAL PUBLIC WORKS DEPARTMENT  
Percentage Rate Tender & Contract for Works**

(A) Tender/bid for the work of: **Upgradation of Gymnastic hall at NCoE Sports Authority of India, Aurangabad. SH:- Construction of the foam pit/jumping pit.  
SH : Gymnastic hall foam pit wall plastering, creation of new windows & misc. work.**

- (i) To be submitted/uploaded by **15:00 Hours on 07.10.2026** to **Assistant Engineer, ACSD, CPWD, Aurangabad.**
- (ii) To be opened in presence of tenderers/bidders who may be present at **15:30 Hours on 07.10.2026** in the office of **Assistant Engineer, ACSD, CPWD, Aurangabad.**

**TENDER**

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

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

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

A sum of **Rs. 6,894/-** is hereby forwarded in cash/receipt treasury Challan/ deposit at call receipt of a scheduled bank/fixed deposit receipt of scheduled bank/demand draft of a scheduled bank/bank guarantee issued by a scheduled bank as earnest money. If I/We, fail to furnish the prescribed performance guarantee within prescribed period. I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely.

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

I/We agree that in case of forfeiture of Earnest Money & Performance Guarantee as aforesaid. I/We shall be debarred for participation in the retendering process of the work. 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:**

**Witness:**

**Address:**

**Occupation:**

**Signature of Contractor**

**Postal Address**

**ACCEPTANCE**

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

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

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

**For & on behalf of President of India**

**Signature .....**

**Dated:**

**Designation .....**

**SCHEDULES****SCHEDULE 'A'**

Schedule of quantities (as per PWD-3)

**Enclosed Page No. 119 to 121.****SCHEDULE 'B'**

Schedule of materials to be issued to the contractor.

| S.No. | Description of item | Quantity | Rates in figures & words at which the material will be charged to the contractor | Place of issue |
|-------|---------------------|----------|----------------------------------------------------------------------------------|----------------|
| 1     | 2                   | 3        | 4                                                                                | 5              |
| 1.    |                     |          | N.A.                                                                             |                |
| 2.    |                     |          | N.A.                                                                             |                |

**SCHEDULE 'C'**

Tools and plants to be hired to the contractor

| S.No. | Description | Hire charges per day | Place of use |
|-------|-------------|----------------------|--------------|
| 1     | 2           | 3                    | 4            |
| NIL   |             |                      |              |

**SCHEDULE 'D'**

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

**NIL****SCHEDULE 'E'**

Reference to General Conditions of contract **Standard GCC form for Maintenance Works 2023, CPWD Form 7 modified and correction up to last date of submission of online bid.**

**Name of Work : Upgradation of Gymnastic hall at NCoE Sports Authority of India, Aurangabad. SH:- Construction of the foam pit/jumping pit.**  
**SH : Gymnastic hall foam pit wall plastering, creation of new windows & misc. work.**

Estimated cost of work: **Rs.3,44,704/-**(i) Earnest Money: **Rs.6,984/-** (to be returned after receiving of Performance Guarantee)(ii) Performance Guarantee: **5%** of tendered value

(iii) Security Deposit: **2.5%** of Tendered Value plus **50%** of PG for contracts involving maintenance of the building and services/ other work after construction of same building and services / other work.

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

|                                                                                                                                                                                                                                                             |   |                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Officer inviting tender                                                                                                                                                                                                                                     | : | Assistant Engineer,<br>ACSD, C.P.W.D., Aurangabad                                                                                                            |
| 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(v) Engineer-in-Charge                                                                                                                                                                                                                                     | : | Executive Engineer,<br>C.P.W.D., Nasik.                                                                                                                      |
| 2(viii) Accepting Authority                                                                                                                                                                                                                                 | : | Executive Engineer,<br>C.P.W.D., Nasik.                                                                                                                      |
| 2(x) Percentage on cost of materials and Labour to cover all overheads and profits                                                                                                                                                                          | : | 15%                                                                                                                                                          |
| 2(xi) Standard Schedule of Rates                                                                                                                                                                                                                            | : | DSR 2023 i/c GST Factor @ 0.973, cost Index 9%<br>with upto date correction slips and Market Rates.                                                          |
| 2(xii) Department                                                                                                                                                                                                                                           | : | Central Public Works Department                                                                                                                              |
| 9(ii) Standard CPWD Contract Form:                                                                                                                                                                                                                          |   | Standard GCC form for Maintenance Works 2023, CPWD Form 7 modified and correction up to last date of submission of online bid                                |
| Clause 1                                                                                                                                                                                                                                                    |   |                                                                                                                                                              |
| (i) Time allowed for submission of Performance Guarantee, Programme Chart (Time & Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board of proof of Applying thereof from the date of issue of letter of acceptance | : | 7 (Seven) days                                                                                                                                               |
| (ii) Maximum allowable extension with late fee @ 0.1% per Day of Performance guarantee amount provided in (i) above                                                                                                                                         | : | 03 (Three) days                                                                                                                                              |
| Clause 2                                                                                                                                                                                                                                                    |   |                                                                                                                                                              |
| Authority for fixing compensation under clause 2 :                                                                                                                                                                                                          |   | As per prevailing CPWD Works Manual with Correction slip thereof and Standard GCC form for Maintenance Works 2023 with upto date prevailing correction slip. |
| Clause 2A                                                                                                                                                                                                                                                   |   |                                                                                                                                                              |

Whether Clause 2A shall be applicable : **No**

**Clause 5**

Number of days from the date of issue of letter of acceptance for reckoning date of start : **10(Ten) days or from the date of handing over of the site notified by the Engineer-In-Charge whichever is later**

**Clause 5.1**

**(a) Schedule of Handing of 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                | Full site   | Within 10 Days                                                               |
| Part B | Portion with encumbrances                    |             |                                                                              |
| Part C | Portions dependent on work of other agencies |             |                                                                              |

**(b) Schedule of issue of Designs : - Not Applicable.**

| Part     | Portion of Design                               | Description | Time period for issue of design reckoned from date of receipt of tenders. |
|----------|-------------------------------------------------|-------------|---------------------------------------------------------------------------|
| Part A   | Portion already included in NIT                 | Full site   | Within 10 Days                                                            |
| Part B-1 | Portions of Architectural Designs to be issued. |             |                                                                           |
| Part B-2 | Portions of Civil Designs to be issued.         |             |                                                                           |
| Part B-3 | Portions of E&M Designs to be issued            |             |                                                                           |

**Clause 5.2**

Nature of Hindrance Register. : - **Physical**  
(either Physical or Electronic)

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

| Sr. No.                                                                                                                    | Description of Milestone                              | Time allowed in days (from the date of Start) | Amount to be withheld in case of non-achievement of milestone |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------|
| 1                                                                                                                          | 2                                                     | 3                                             | 4                                                             |
| 1.                                                                                                                         | 25% (of the tendered value)                           | 1/4th of time period (15 Days)                | 1.25 % of tendered amount                                     |
| 2.                                                                                                                         | 50% (of the tendered value)                           | 2/4th of time period (15 Days)                | 1.25 % of tendered amount                                     |
| 3.                                                                                                                         | 75% (of the tendered value)                           | 3/4th of time period (15 Days)                | 1.25 % of tendered amount                                     |
| 4.                                                                                                                         | Work completed in all respect and ready to hand over. | 2 Months                                      | 1.25 % of tendered amount                                     |
| <b>Note:</b> The withheld milestone will only be released when subsequent milestone is achieved within the specified time. |                                                       |                                               |                                                               |

Time allowed for execution of work : **01 (One) Months.**

**Authority to decide:**

(i) Extension of time : **Executive Engineer,  
C.P.W.D., Nasik.**

(ii) Rescheduling of mile stones : Chief Engineer,  
C.P.W.D., Nagpur.

(iii) Shifting of D/o. start in case of delay : Chief Engineer,  
in handing over of site C.P.W.D., Nagpur.

Clause 6 : Applicable

#### Clause 7

Gross work to be done together with net payment / : Rs 2.00 Lakhs.  
Adjustment of advances for material collected, if any,  
since the last such payment for being eligible to  
interim payment.

In case of correction / rejection / short documents, It will be mandatory for Engineer-in-Charge to give Recorded reasons for corrections of rejection/ submission of additional documents within 7 days after submission of running bill by the contractor

#### Clause 7 A

(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 : Yes.

(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:

1. Details of persons employed with date of their employment up to previous month.
2. Documents of payment made to the employees directly into their bank accounts up to previous month.
3. Documents of attendance through biometric attendance or other mode up to previous month.
4. Documents of deposition of EPF and ESI deductions in the employee's accounts up to previous month.
5. Any penalty imposed on the agency for delay in disbursing payments and deposition of EPF and ESI deduction in the employee's accounts up to previous month.

6. Any other document(s) required as per statutory requirements and / or as directed by Engineer-in-charge.

(c) In case, any of the documents submitted by the contractor, is found false / forged at a later date, action for debarment of contract will be taken by the SE/ CE concerned.

#### Clause 10A

List of testing equipment to be provided by the contractor at site lab.

1. Levelling Instrument 2. Slump cone apparatus 3. Cube mould (6 Nos.) 4. Balance upto 10kg capacity with accuracy upto 1gm 5. I.S. Sieves 450mm internal dia. Consisting of 80mm, 63mm, 40mm, 20mm, 12.5mm, 10mm, 6.3mm, 4.75mm, 2.36mm, 1.18mm, 600 microns, 425 microns, 300 microns, 212 microns, 150 microns with lid and pan & 6. measuring cylinders 200ml capacity 2 Nos.

#### Clause 10B(ii)

Whether Clause 10 B (ii) shall be applicable : **Not Applicable.**

#### Clause 10C

Component of labour expressed as percent of value of work : **Applicable.**

Clause 10 CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column : **Not applicable.**

Schedule of component of other Materials, Labour, POL etc. for price escalation. Component of civil (except materials covered under clause 10CA) / Electrical construction Materials expressed as percent of total value of work. :

**Xm(Not applicable) %**

Component of Labour -expressed as percent of total value of work. :

**Y (Not applicable) %**

Component of P.O.L. -expressed as percent of

**total value of work.** : **Z (Not applicable) %**

**Clause 11**  
**Specifications to be followed** : **CPWD Specification- 2019 Vo. I & II with**  
**for execution of work** **upto date correction slip.**

**Clause 12**Type of work **Maintenance Work**

12.2. & 12.3 Deviation Limit beyond which clauses  
12.2 & 12.3 shall apply for Superstructure :

No Limit

12.5 (i) Deviation Limit beyond which clauses  
12.2 & 12.3 shall apply for foundation work  
(Except earth work)

No Limit

(ii) Deviation limit for item in earthwork subhead of DSR or related items

No Limit

**Clause 16**

Competent Authority for:  
deciding reduced rates.

**Standard GCC form for Maintenance Works 2023  
CPWD Form 7 modified and correction up to last date of  
submission of online bid.**

**Clause 18**

List of mandatory machinery, tools & plants to be deployed by the contractor at site:-

1. Needle Vibrator (Elect. & Petrol 1 No.)
2. Double beam surface vibrator (1 No.)
3. Steel Shuttering – 50 sqm.
4. Steel props for 50 Nos.
5. Concrete/Mortar mixture with hopper – 1 No.
6. Earth compactor 2T – 1 No.
7. Floor grinding machine – 1 Nos.
8. Welding machine – 1 No.
9. Chase cutter-1 Nos.
10. Water pump (1 / 1.5 HP) – 1 Nos.

**Clause 19**

The Contractor shall obtain a valid license under the Contract Labour (R&A) Act, 1970 and the Contract Labour (Regulation and Abolition) Central Rules, 1971, before the commencement of the work, and continue to have a valid license until the completion of the work.

The contractor shall also comply with provisions of the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979.

:- Applicable .

**Clause 25**

Constitution of Dispute Redressal Committee (DRC)

| Constitution       | For Total Claims in dispute uptoRs. 25.00 Lakhs          | For Total Claims in dispute more than Rs. 25 Lakhs       |
|--------------------|----------------------------------------------------------|----------------------------------------------------------|
| Chairman           | SE(P)(C), O/o. ADR, WR, Bhopal.                          | Chief Engineer, Bhopal                                   |
| Member Secretary   | Executive Engineer (C), O/o. CE, Bhopal.                 | SE(P) (C), O/o. ADG, WR, Bhopal                          |
| Member             | Executive Engineer (C), O/o. CE, Nagpur.                 | SE-cum-PD Raipur.                                        |
| Presenting officer | Executive Engineer, Nasik Central Division, CPWD, Nasik. | Executive Engineer, Nasik Central Division, CPWD, Nasik. |

**Clause 31** The contractor shall make his own arrangement of water as per clause31**CLAUSE 36(i)**

Requirement of Technical Representative (s) and Recovery Rate

| S. No | Minimum Qualification of Technical Representative                                           | Discipline            | Designation (Principal Technical/ Technical Representative) | Minimum experience  | Number   | Rate of 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<br><br>(Applicable for work costing uptoRs. 150 Lacs) | 01 of major component | Project planning/ / site/ billing Engineer.                 | 2 or 5 respectively | 01 (One) | Rs. 15,000/-                                                                                                      | (Rs. Fifteen Thousand Only) |

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

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 development subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers

**Clause 37**

- (i) GST, Building and other Construction Workers, Welfare Cessor any other tax, levy of Cess in respect of input for or output by this contract shall be payable by the contract and Government shall not entertain any claim whatsoever in this respect except as provided under clause 38 (OM No. DG/CON/298 dated 29.09.2017)

**Clause 38**

All tendered rates shall be inclusive of any tax, levy or cess applicable on last stipulated date of receipt of tender including extension if any. No adjustment i.e. increase or decrease shall be made for any variation in the rate of GST, Building and other Construction Workers Welfare Cess or any tax, levy or cess applicable on inputs.

However, effect of variation in rates of GST or Building and Other Construction Workers Welfare Cess or imposition or repeal of any other tax, levy or cess applicable on output of the works contract shall be adjusted on either side, increase or decrease.

Provided further that for Building and Other Construction Workers Welfare Cess or any tax (other than GST), levy or cess carried or imposed after the last date of receipt of tender including extension if any, any increase shall be reimbursed to the contractor only if the contractor necessarily and properly pays such increased amount of taxes / levies / cess.

Provided further that such increase including GST shall not be made in the extended period of contract for which the contractor alone is responsible for delay as determined by authority for extension of time under

Clause 5 in Schedule F. (OM No. DG/CON/299 Dt: 21.11.2017)

**Clause 42**

**(i) (a) Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates** : **DSR 2023 i/c GST factor @ 0.973, Cost Index 10% with upto date correction slips printed by C.P.W.D.**

**(ii) Variations permissible on theoretical quantities:****(a) Cement**

**For works with estimated cost put**

**to tender not more than 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**

### FORM OF EARNEST MONEY (BANK GUARANTEE)

WHEREAS, contractor..... (Name of contractor) (hereinafter called "the contractor") has submitted his tender dated ..... (date) for the construction of ..... (name of work) (hereinafter called "the Tender")

KNOW ALL PEOPLE by these presents that we ..... (name of bank) having our registered office at ..... (hereinafter called "the Bank") are bound unto ..... (Name and division of Executive Engineer) (hereinafter called "the Engineer-in-Charge") in the sum of Rs. .... (Rs. in words ..... ) for which payment well and truly to be made to the said Engineer-in-Charge the Bank binds itself, his successors and assigns by these presents. SEALED with the Common Seal of the said Bank this ..... day of ..... 20... .

**THE CONDITIONS of this obligation are:**

- (1) If after tender opening the Contractor withdraws, his tender during the period of validity of tender  
(including extended validity of tender) specified in the Form of Tender;
- (2) If the contractor having been notified of the acceptance of his tender by the Engineer-in-Charge:
  - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required; OR
  - (b) fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor, OR
  - (c) fails or refuses to start the work, in accordance with the provisions of the contract and Instructions to contractor, OR
  - (d) fails or refuses to submit fresh Bank Guarantee of an equal amount of this Bank Guarantee, against Security Deposit after award of contract.

We undertake to pay to the Engineer-in-Charge either up to the above amount or part thereof upon receipt of his first written demand, without the Engineer-in-Charge having to substantiate his demand, provided that in his demand the Engineer-in-Charge will note that the amount claimed by him is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date \_\_\_\_\_ after the deadline for submission of tender as such deadline is stated in the Instructions to contractor or as it may be extended by the Engineer-in-Charge, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE .....

WITNESS .....

SIGNATURE OF THE BANK  
SEAL  
(SIGNATURE, NAME AND ADDRESS)

### **Form of Performance guarantee /Bank guarantee bond**

In consideration of the President of India (hereinafter called "The Government") having offered to accept the terms and conditions of the proposed agreement between .....and..... (hereinafter called "the said contractor(s)" for the work (hereinafter called "the said agreement"}) having agreed to production of an irrevocable Bank Guarantee for Rs..... (Rupees.....only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

1. We..... (hereinafter referred to as the "Bank") hereby undertake to (indicate the name of the Bank) pay to the Government an amount not exceeding Rs ..... (Rupees.....only) on demand by the Government.

2. We .....do hereby undertake to pay the amounts due and payable (indicate the name of the Bank) under this Guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). 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).

3. We, the said Bank, further undertake to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any Court or Tribunal relating thereto, our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder, and the contractor(s) shall have no claim against us for making such payment.

4 We..... further agree that the Guarantee herein contained shall (indicate the name of the Bank) remain in full force and effect during the period that would be taken for the performance of the said agreement, and It shall continue to be enforceable till all the dues of the Government under or by virtue of the said agreement have been fully paid, and its claims satisfied or discharged, or till the Engineer-in-charge, on behalf of the Government, certifies that the terms and conditions of the said agreement have been truly and properly carried out by the said contractor(s). and accordingly discharges this guarantee.

5. We..... further agree with the Government that the Government (indicate the name of the Bank) shall have the fullest liberty without our consent, and without effecting in any manner our Obligations hereunder, to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) 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(s), 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(s) or for any forbearance, act of omission on the part of the Government or any Indulgence by

the Government to the said contractor(s) 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. This Guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).
7. We.....lastly undertake not to revoke this Guarantee except with (indicate the name of the Bank) the previous consent of the Government in writing.
8. This 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 six months of the date of expiry or extended date of expiry of this Guarantee all our liabilities under this Guarantee shall stand discharged.

Dated the..... day of.....

For.....

(indicate the name of the Bank)

**FORM "F"**

**UNDERTAKING ON STRUCTURAL STABILITY AND SOUNDNESS OF  
ALREADY COMPLETED BUILDINGS AND INFRASTRUCTURE  
PROJECTS.**

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

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

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

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

Signature of notary  
with seal

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

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

## PARTICULAR SPECIFICATIONS

1.0 Unless otherwise specified, CPWD Specifications 2019 Volume 1 & 2 with upto date correction slips shall be followed in general. Any additional item of work if taken up subsequently shall also conform to the relevant CPWD specifications mentioned above.

1.1 Wherever any reference to any Bureau of Indian Standard Specifications occurs in the documents relating to this contract, the same shall be inclusive of all amendments issued there to or revisions thereof, if any, up to the date of receipt of tenders.

1.2 Unless otherwise specified in the schedule of quantities, the rates for all items of work shall be considered as inclusive of pumping out or bailing out of water, if required for which no extra payment will be made. This will include water encountered from any source such as rains, floods, sub soil water table being high and /or due to any other cause whatsoever.

1.3 The work shall be executed and measured as per metric dimensions given in the Schedule of quantities, drawings etc. (F.P.S. units wherever indicated are for guidance only)

### **2.0 The following modifications to the above specifications and some additional specifications shall however apply.**

2.1 All stone aggregate and stone ballast shall be of hard stone variety to be obtained from approved quarries at Aurangabad or any other source to be got approved by the Engineer-in-charge.

2.2 Coarse Sand should be obtained from Godavari River/Artificial sand 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.

2.3 Fine sand should be obtained from Godavari River/Artificial sand 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

2.4 Cast iron pipe and fittings without ear shall be used. However, pipes and fitting with ears may be accepted without any extra payment. In such cases, clamps are not required for and no extra payment will be made for fixing the pipes.

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

### **3.0 EMBEDDING OF PIPES, CONDUITS ETC.**

3.1 The brick work for the portions of the external wall of W.C. through which pipes are taken, will be done after the pipes are fixed as far as practicable.

3.2. All crossings, embedments etc. in walls and floors for water supply, drainage and sanitary pipes, fittings etc. shall be provided as per previously prepared detailed drawings for

individual walls and floors so as to avoid cuttings of brick work and floors. All such areas shall be made good during finishing and nothing extra shall be paid for this.

#### **4.0 SPECIFICATIONS FOR MOORUM**

- 4.1 The contractor has to bring hard soil required for filling under floors, from sources, approved by the Engineer-in-Charge. The filling material shall be hard soil obtained from pits of weather disintegrated rocks free from organic matters and should preferably contain siliceous material and natural mixture of clay of calcareous origin. The size of hard soil shall not be more than 20mm.
- 4.2 The hard soil brought to site shall be directly used for filling and no claim for double handling shall be entertained. Filling shall be done in regular horizontal layers, each not exceeding 20cm, in depth. The hard soil shall be free from all roots, grass and rubbish and all lumps and clods, if any, shall be broken. Each layer shall be consolidated by breaking clods, watering and ramming with steel rammers. The top surface of finally finished area shall be dressed.
- 4.3 Before filling is started in the area (under floors) contractor shall remove rank vegetation, grass, brushwood, shrubs and building rubbish etc. and nothing extra shall be paid for on this account.

#### **4A. Specification for Hard Soil.**

- 4A.1 The contractor has to bring hard soil required for filling under floors from sources approved by the Engineer-In-Charge. The filling material shall be hard soil obtained from pits of weather disintegrated rocks free from organic matter and should be preferably contains siliceous material and natural mixture of clay of calcareous origin. The size of hard soil shall not be more than 20 mm.

#### **5.0 STEEL WORK**

- 5.1 The rate of T/angle iron frame shall include the following.
- (a) M. S. tie of 16 mm dia bar should be welded to M. S. frames at the bottom to keep the frames vertical in correct position. The tie shall be embedded in floor concrete. No tie is necessary for window frames.
  - (b) M. S. frames for doors shall have 4 Nos. M. S. lugs 15x3 mm, 10 cm long welded to each vertical member of the frame.
  - (c) M. S. flat 25 x 6 mm, 100 mm long having machine threaded holes (No. of flats shall correspond to the No. of butt hinges to be fixed to door /window shutter) shall be welded at appropriate places at the back of the M. S. frame for fixing the required butt hinges to the frame with machine screws M. S. Flat 25 x 8 mm, 50mm long with machine threaded holes, shall be welded to the back of the frame to receive the butt hinges for the cleats. Requisite No. of holes shall be made in the "T" iron frame and M. S. flat for fixing of hinges with counter sunk self tapping screws.
- steel
- 5.2 The M. S. plate clamps 15 x 6 mm thick for holding arrangements are to be provided and welded as per site conditions. The rate is inclusive of the cost of such clamps.

- 5.3 All welded steel work shall be tested for quality of weld as laid down in IS 822-1970 before actual erection.

**6.0 WATER SUPPLY, SANITARY FITTINGS, PAINTS & OTHER MATERIALS.**

- 6.1 Sanitary fittings, paints and other materials shall be obtained from one of the firms on the list of approved manufactures of CPWD, and/or shall bear I.S.I. mark.
- 6.2 All the material required to be tested shall be tested as per provisions of the relevant I. S. codes should there be any difference between acceptance CRITERIA given in I.S. codes, CPWD specifications and special conditions, the acceptance CRITERIA shall be in the following order of precedence. 1. Special conditions  
2. CPWD Specifications  
3. B. I. S. codes
- 6.3. The Contractor's rate for the items involving the use of materials shall be deemed to cover the cost of samples consumed in testing. The cost of packing, sealing, transportation, loading, unloading etc. shall be borne by the contractor. Testing charges borne by the department only when the samples satisfy the provision specified and conform to the requirements of the relevant specification. If the results show that the samples do not satisfy the relevant specifications, the testing shall be borne by the contractor.
- 6.4. As far as practicable no water supply/drainage pipes and fittings shall be fixed to RCC columns, beams etc. unless such a layout is approved by the Engineer-in-Charge. In such case, the SCI pipe and G. I. pipe wherever necessary shall be fixed to RCC columns, beams etc. with rawl plugs and nothing extra shall be paid for this.
- 6.5. G. I. pipes if stipulated for issue in the schedule of material can be issued in inch sizes or its equivalent metric sizes medium grade or heavy grade as per the availability with the department and the issue rate recoverable from the contractor will remain the same. The contractor will not be paid anything extra on this account and nothing will be deducted for using the size and grade of G.I. pipes issued and the items will be paid as per agreement rate for the same item.

**7.0 INTEGRAL CEMENT BASED WATER PROOFING TREATMENT**

Treatment for roof surface.

- 7.1.1 The brick bats shall be from well burnt bricks. The proprietary water proofing compound shall bear I.S.I. mark and shall conform to I.S. 2645. Before execution of work, waterproofing compound has to be brought to site from which random sample would be got tested and a certificate of its conforming to I.S. code should be produced. The proprietary waterproofing compound shall be added at the rate recommended by the specialist firms but not exceeding 3 percent by weight of cement.
- 7.1.2 The finished surface after water proofing treatment shall have minimum slope of 1in 80. At no point shall have the thickness of water proofing treatment less than 65mm.
- 7.1.3 While treatment of roof surface is done. It shall be ensured that the outlet drainpipes have been fixed and mouths at the entrance have been eased and rounded off properly for easy flow of water.
- 7.1.4. The surface where the water proofing is to be done shall be thoroughly cleaned with wire brushes. All loose scales shall be removed and dusted off. The surface shall be treated with neat cement slurry admixed with proprietary water proofing compound, to penetrate into crevices and fill up all the pores in the surface. This cement slurry

shall be applied at the junction of parapet and terrace slab including the vertical face of the parapet.

- 7.1.5 After the slurry coat is laid, over a 20 mm thick cement mortar not leaner than 1:5 (1 Cement: 5 Coarse sand) admixed with proprietary water proofing compound conforming to IS: 2645, a layer of well burnt bricks bats shall be laid in cement mortar of mix as specified by the specialist firm but not leaner than 1:5 (1 cement:5coarse sand) admixed with proprietary water proofing compound to required gradient and joints filled to half the depth. The brick bat layer shall be rounded at the junction with the parapet and tapered towards top for a height of 300mm. Curing of this layer shall be done for 3 days.
- 7.1.6 After curing, the surfaces shall be applied with a coat of cement slurry admixed with proprietary water proofing compound.
- 7.1.7 Joints of brick bat layer shall be filled fully with cement mortar of mix as specified by the specialist firm but not leaner than 1:4 (1 cement : 4 coarse sand) admixed with proprietary water proofing compound and finally top finished with average 20 mm thick layer jointless cement mortar of same mix and finished smooth with cement slurry admixed with proprietary water proofing compound. The finished surface shall have marking of 300 x 300 MM false squares to give the appearance of tiles.
- 7.1.8 Curing of water proofing treatment shall be done for a minimum period of two weeks.

#### 7.1.9 MEASUREMENTS:-

The measurements shall be taken wall to wall of the finished surface. 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 openings or recesses for chimneys, stacks, roof lights and the like of 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.

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

### 8.0 SPECIFICATION FOR HARD SOIL

- 8.1 The contractor has to bring hard soil required for filling under floors from sources approved by the Engineer-In-Charge. The filling material shall be hard soil obtained from pits of weather disintegrated rocks free from organic matter and should preferably contain siliceous material and natural mixture of clay of calcareous origin. The size of hard soil shall not be more than 20 mm.

### 9.0 SUNKEN FLOOR SLAB, ITS TREATMENT ETC.

- 9.1.1 Brick bat aggregate shall be from well burnt bricks. The proprietary water proofing compound and the quantity to be used as per para 7.1.1.
- 9.1.2 The Surface shall be thoroughly cleaned with wire brushes. All loose scales shall be removed and dusted off. The surface bottom as well as sides shall be treated with cement slurry admixed with proprietary water proofing compound to penetrate into crevices and fill up all the pores in the surface.
- 9.1.3 After the slurry coat is laid, layer of well burnt brick bats of about 40mm size shall be laid in cement mortar of mix as specified by the specialist firm but not leaner than 1:5 (1 cement: 5 coarse sand) admixed with proprietary water proofing compound, the mortar being filled to half the depth of the brick bat layer. The bricks bat layer shall

be rounded off at junctions with the beam/wall etc. and tapered towards top to a height of 100mm along beams /wall etc. Curing of this layer shall be done for three days.

9.1.4 After curing, the surface shall be applied with a coat of neat cement slurry admixed with proprietary water proofing compound.

9.1.5 Joints of brick bat shall be filled fully with cement mortar of mix as specified by the specialized firm but not leaner than 1:4 (1 cement: 4 coarse sand) admixed with proprietary water proofing compound and top finished with average 20mm thick layer of same mortar. This layer of mortar shall be continued to the sides of beam /wall etc. The height up to which this treatment is to be extended on the sides shall be as directed by the Engineer-in-Charge. The surface shall be finished smooth with cement slurry admixed with proprietary water proofing compound.

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

9.1.7 Waterproof treatment shall be cured for two weeks.

9.1.8 Measurements: -

Measurements for the floor treatment shall be taken on the plan area of floor treated. Nothing extra shall be paid for rounding off at junctions and taking the treatment along the sides of beams and walls for about 150mm. Sides of beam/wall etc. above 150mm from the top of the treatment over the slab where the treatment is only with mortar shall be measured and paid separately. Length and breadth shall be measured correctly to one centimeter and area calculated correct to 0.01 square meters.

9.1.9 Rates: -

The rate shall include the cost of all labour and materials involved in all the operations described above. Base treatment and sides treatment will be paid separately under respective items.

## **10.0 CUT BRICK (MARUKONA):-**

10.1 Where cut bricks (Marukona) as required under para 6.2.4.7 of C.P.W.D. specifications 1996 Vol.II is not feasible on account of available quality of bricks the same shall be replaced by cement concrete 1:2:4 and no extra payment for the provisions of C.C. 1:2:4 shall be made nor would the quantity of C.C. 1:2:4 thus provided be deducted from measurements of brick work.

## **11.0 FIXING OF SCI/CI PIPE**

11.1 The SCI/CI pipes and G.I. pipes, wherever necessary, shall be fixed to RCC columns, beams etc.

with rawl plugs, or appropriate fasteners as approved by Engineer-in-Charge, and nothing extra shall be payable on this account. GI pipes shall be, wherever made to pass through wall / concrete, then it shall be done using protective sleeves around the pipes to protect it from damage, nothing extra shall be payable on this account.

11.2 Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should conform to bye-laws and specifications of the Municipal Body/Corporation where CPWD Specifications are not available. The work of water supply, internal sanitary installation

and drainage etc. shall be carried out as per local Municipal Corporation or such local body bye-laws. The contractor shall get the materials (fixtures/fittings) tested by the Municipal body/Corporation authorities wherever required at his own cost and after completion of work shall produce necessary completion certificates from such authorities.

## **12.0 FLOORING, SKIRTING, VENEERING, DADO, TILE WORK, TREADS& RISERS OF STEPS, JAMBS, SILLS & SOFFITS**

- 12.1 Nothing extra shall be payable for using combination of marble, granite and kota in the required pattern at various locations to make line and level unless otherwise specified.
- 12.2 Flooring in toilets, verandah, kitchen, courtyard and at other places if required shall be laid to the required slope/gradient as per the directions of the Engineer-in-Charge and nothing extra shall be paid on account of the same.
- 12.3 The pattern, spacing and locations of joints shall be as per drawings and direction of the Engineer-in-Charge and nothing extra shall be paid on account of the same.

## **13. RATES**

- 13.1 The rates quoted by the Contractor are deemed to be inclusive of site clearance, setting out work, profile, setting lay out on ground, establishment of reference bench mark(s), installing various signage, taking spot levels, survey with total station, construction of all safety and protection devices, compulsory use of helmet and safety shoes, and other appropriate safety gadgets by workers, imparting continuous training for all the workers, barriers, preparatory works, construction of clean, hygienic and well ventilated workers housings in sufficient numbers as per drawing supplied by Engineer in charge, working during monsoon or odd season, working beyond normal hours, working at all depths, height, lead, lift, levels and location, etc. and any other unforeseen but essential incidental works required to complete this work. Nothing extra shall be payable on this account and no extension of time for completion of work shall be granted on these accounts.
- 13.2 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.
- 13.3 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.

## **SPECIAL CONDITIONS**

- 1.0 The work shall be carried out in manner complying in all respects with the requirement of relevant byelaws of the local Municipal Corporation of the local body whatsoever.
- 2.0 a) The contractor shall put necessary boards on display forbidding the residents/public from approaching the building under repair to avoid any accident.  
b) The contractor shall take all precautions to avoid all accidents by exhibiting necessary caution-boards. They shall be responsible for all damages and accidents caused due to negligence on their part.
- 3.0 If as per municipal rules the huts for labour are not to be erected all the site of work by the contractors, the contractor are required to provide such accommodation as is acceptable to local bodies and nothing extra shall be paid on this account.
- 4.0 The contractor will have to work according to the program of work decided by the Engineer-in-Charge, for which purpose, the contractor should submit a tentative program of the work within 15 days from the date of start of the work.
- 5.0 The contractor shall take instructions from the Engineer-in-charge for stacking of materials in any place. No excavated earth or building material shall be stacked on areas where other buildings, roads services of compound walls are to be constructed.
- 6.0 The work on item of filler walls and internal finishing must be started as soon as the structure is completed.
- 7.0 Unless otherwise provided in the Schedule of quantities the rate tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths to the building and nothings extra shall be payable to him on this account. Payment for centering, shuttering, however if required to be done for floor heights greater than 3.5 m shall be admissible at rates arrived at, in accordance with clause 12 of the agreement if not already specified.
- 8.0 The work shall be carried out in accordance with the architectural drawings and structural drawings. The structural and architectural drawings, shall have to be properly correlated before executing the work. In case of any difference noticed between architectural and structural drawings, final decision, in writing of the Engineer-in-Charge shall be obtained by the contractor. So also in case of any discrepancy in the item given in the schedule of quantities appended with the tender and architectural drawings related to the relevant items, the former shall prevail unless and otherwise given in writing by the Engineer-in-Charge. Samples shall be prepared before starting particular items of work for prior approval of the Engineer-in-Charge and nothing extra will be payable on this account.
- 9.0 All the materials to be used on works shall bear BIS certification mark unless otherwise the make is specified in the item or special conditions appended with this tender document. In case BIS mark materials or the materials mentioned in the tender documents are not available,

as per opinion of Engineer-in-Charge, which shall be final, the material to be used shall conform to CPWD specifications applicable in the tender or BIS Code. In such case Engineer-in-Charge shall satisfy himself about the

quality of such material and give his approval in writing. Only articles classified as first quality by the manufacturers shall be used unless otherwise specified. All material not having ISI mark shall be tested as per relevant BIS specification. The Engineer-in-Charge may relax the condition regarding testing of the quantity of the materials required for the work if small. In all cases of use of ISI marked materials proper proof of procurement of materials from authentic manufacturers shall be provided by the contractor to the entire satisfaction of Engineer-in-Charge.

- 10.0 All materials equivalent to the one specified should be got approved by the Engineer-in-charge before using the said materials in the work.
- 11.0 The contractor shall be responsible for the protection of sanitary and water supply fittings and fixtures against pilferage and breakage during the period of installation and thereafter until the building is handed over.
- 12.0 For form work use of solid timber and products involving solid timber shall not be permitted. The contractor shall be responsible for the protection of sanitary and water supply fittings and fixtures against pilferage and breakage during the period of installation and thereafter until the building is handed over.
- 13.0 Any damage to work resulting from rains or from any other cause until the work is taken over by Department after completion of work shall be made good by the contractor at his own cost.
- 14.0 Some restrictions may be imposed by the security staff etc. on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restriction/instructions and nothing extra shall be payable on this account.
- 15.0 The contractor shall comply with provision of any Government acts which relate to the work and to the regulations and laws of any local authorities. The contractor shall give all notices required by the said acts, laws etc, and pay all fees payable to such authorities and allow for those contingencies, cost of restorations etc. and all other fees payable to the local authorities.
- 15.1 Water and sewerage charges for execution of the work shall be payable by the contractor directly to the local bodies under intimation to the department. In case such charges are not paid by the contractor, the same shall be recovered from the bill for remittance or if already remitted to the local bodies.
- 16.0 Tendered rates are inclusive of all Taxes and levies payable under the respective statutes.
- 17.0 **The tenderer shall abide by the rules and regulations of respective State and Central goods & service Tax (GST) etc. Necessary deductions on account of**

**Taxes shall be made on the gross value of the work done from the bills of the contractor as per the provisions of above stated Acts. Necessary certificates, if required, for Tax deduction at source shall be issued to the contractor by the Engineer in Charge. However acceptability of the certificate by the concerned authority shall not be responsibility of Engineer-in-charge. The decision of the Engineer in Charge regarding quantum of Tax to be deducted at source shall be final and binding on the contractor.**

- 18.0 Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should confirm to bye-laws and specifications of the Municipal Body/Corporation where CPWD Specifications are not available. The work of water supply, internal sanitary installation and drainage etc. shall be carried out as per local Municipal Corporation or such local body bye-laws. The contractor shall get the materials (fixtures/fittings) tested by the Municipal body/Corporation authorities wherever required at his own cost and after completion of work shall produce necessary completion certificates from such authorities.
- 19.0 The contractor shall comply with proper and legal orders and directions of the local or public authority of municipality and abide by the rules and regulations and pay all fees and charges which he may be liable. **Quoted rates shall be considered inclusive of all such fees and charges.**
- 20.0 The contractor shall give a performance test of the entire installation (S) as per standing specifications before the work is finally accepted and nothing extra whatsoever shall be payable to the contractor for the test. **Final Bill shall be paid only after handing over of executed work as per agreement and after receipt of duly signed copy of Handing over note from client department.**
- 20.1 The Contractor shall obtain the fit for occupation certificate of the building from the concerned Municipal authorities after satisfactory completion of the work. The payment made to such Municipal Agencies shall be reimbursed to the contractor on production of authentic bills.
- 20.2 The contractor shall comply with proper and legal orders and directions of the local or public authority or municipality and abide by the rules and regulations and pay all fees and charges, which he may be liable
- 21.0 The tenderer should not quote unnecessary conditions contradicting the general conditions and particular specifications given in this tender, as such conditions apart from being not agreed to can lead to rejection of the tender.

## **22.0 BRIEF WORDING OF ITEMS**

- 22.1 For the purpose of recording measurements and preparing running account bills, the underlined portions of the nomenclature of items included in the schedule of quantities shall be adopted as the abbreviated nomenclature of the particular item. The abbreviated nomenclature shall be taken to cover all the materials and operations as per the complete nomenclature of the relevant item in the agreement and relevant specifications. In the case of items for which abbreviated nomenclature is not indicated in the schedule of quantities, the full nomenclature shall be reproduced while recording measurements and preparing the bills.

Also following abbreviations may be adopted.

- (A) P/L for : Providing and Laying.

- (B) P/F for : Providing and fixing.
- (C) C.C. for : Cement Concrete.
- (D) C.M. for : Cement Mortar.

- 22.2 In case of extra/substituted items of work for which brief wording is not provided in the agreement, the full nomenclature of the item shall be reproduced in the measurement books and bill forms of running account bills.
- 22.3 The full nomenclature of the items shall be adopted in preparing abstract of final bill in the measurement books and also in the forms for final bills.

## **23 GUARANTEE FOR WATER PROOFING TREATMENT**

Five years guarantee in prescribed proforma attached must be given by the contractor for the water proofing 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 two monsoon seasons after the completion of the work, if the performance of the work done is satisfactory. If any defect is noticed during the guarantee period, it should 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 amount deposit toward guarantee can be released in full, if bank guarantee of equivalent amount for 5(Five) years is produced and deposited with the department.

- 24.0 Royalty at the prevalent rates shall have to be paid by the contractor on all quarry produce (boulders, metals, shingle, sand and bajri etc.) collected by him for the execution of the work, direct to the Revenue Authority or Authorized Agent of the State/Central Government. The rates for completed item of work shall include such Royalty payment etc.

## **25.0 VARIATION IN CONSUMPTION OF MATERIALS**

- 25.1 The variation in consumption of material shall be governed as per CPWD specification and clauses of the contract to the extent applicable. The following specific clauses shall govern the variation in consumption of pig lead.
- 25.2 The pig lead for caulking of joints of SCI pipes shall be issued as per theoretical consumption for SCI pipes of size 100mm, 75mm, 50mm at 0.98 Kg, 0.88 kg. and 0.77 Kg. per joint respectively. Over and above the theoretical quantities of lead as worked out a variation of 5% shall be allowed for wastage etc. Any difference between the actual consumption of pig lead and theoretical consumption worked out on the above basis including the authorized variation if not returned by the contractor shall be recovered at the rate mentioned under schedule " F ". Where the pig lead is arranged by the contractor, variation of + 5% be allowed. In case the variation is on the lower

side, the quantity of the pig lead less used shall be recovered from the contractor at market rate to be determined by the Engineer-in-Charge whose decision in the matter shall be final and binding.

- 25.3 The theoretical quantity of cement to be utilized in items of concrete involving use of single aggregate and mixed by volume batching shall be computed on the basis of the co-efficient for cement to be used in different items of the work provided in the **DSR 2023** after reducing each of the co-efficient by 5%. However, where the concrete is mixed by weight batching no such reduction shall be made from the theoretical co-efficient given in **DSR 2023** for concrete with crushed stone aggregate.

## **26.0 Materials obtained from dismantlement**

- 26.1 The contractors in course of their work, should understand that all materials (e.g. stone and other materials) obtained in the work of dismantling, excavation etc. will be considered Government property and may be issued to the contractor if required for use in this work at rates approved by the S.E.

## **27.0 Material brought by the contractor.**

- 27.1 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.
- 27.1.1 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.
- 27.2 Similar procedure shall be followed for water proofing compound.
- 27.2.1 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.
- 27.3 Empty containers shall be not removed without the written permission of the Engineer-in-charge.
- 27.4 The steel windows and ventilators shall be factory made and ISI marked.

## **28.0 TESTING OF MATERIALS**

- 28.1 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 the work.
- 28.2 The contractors rates for the items involving the use of materials shall be deemed to cover the cost of samples, the cost of packaging, sealing, transportation, loading, unloading etc. shall be borne by the contractor, **Testing charges shall be borne by the Contractor.** The samples satisfy the provisions specified & conform to the

requirements of the relevant specifications. If the results show that the samples do not satisfy the relevant specifications, the testing charges shall be borne by the contractor. The approval of samples of materials and their testing shall be in conformity with para 0.8 and its sub-paras of CPWD specifications Vol.I-2019. The testing and standard of acceptance of concrete shall be governed by para 5.4.9 and 5.4.10 and its sub-paras of CPWD specifications Vol.II /2019.

- 29.0 The contractor shall make his own arrangements for obtaining electric connections, if required and make necessary payments directly to the department concerned.
- 30.0 Other agencies will also be executing simultaneously the works like electrification, horticulture or external services and other building works for the same project alongwith this work in particular. The contractor shall afford necessary facilities for the same. No claim in this respect shall be entertained. The contractor shall leave such necessary holes, opening etc. for laying/burying in the work, pipes, cables, conduits, clamps, boxes and hook for fan clamps etc. as may be required for electric, sanitary, air Conditioning, fire fighting P.A. system telephone system C.C.T.V. system etc. and nothing shall be paid for the same. Conduits for electrical wiring/cables will be laid in such a way that they leave enough space for concreting and do not adversely affect the structural members. Nothing extra over the agreement rate shall be paid for the same.
- 31.0 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.
- 32.0 The intending tenderers are requested to go through architectural drawings mentioned below. These drawings are available in the O/o Executive Engineer, CPWD. The architectural drawings show the type of building to be constructed, number of stories and other architectural features. No claim whatsoever shall be entertained for the same and also for lack of information on this account, which the tenderer is expected to have.
- 33.0 The contractor shall take proper care during dismantling operations to ensure that there is no danger/damage to any adjoining/existing structures and in case of any damage the contractor shall re-do the work/do the necessary repairs as per direction of the Engineer-in-Charge for which no claim would be entertained by the department.
- 35.0 Testing of materials should be got done through the following Testing laboratories.

1. National Test House, F-10, MIDC, Andheri (E), Mumbai-400 093.
2. MHADA Laboratories, Bandra-Kurla Complex, Mumbai.

3. All Government Laboratories.
4. All Lab approved by the Department.

**36.0 Where the services of water and electricity are utilized from the resources of Client department, 1% for water and 1% for electricity will be deducted on Gross Amount of workdone.**

**37.0 Directives of Hon'ble National Green Tribunal and EIA Guidance Manual**

1. The contractor shall no 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 mettaled 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 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 generative 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 long duration projects. The NIT approving authority shall carry out cost benefit ratio analysis of the same.

## CONDITIONS FOR ARRANGING CEMENT / STEEL BY CONTRACTOR

### 1.0 CONDITIONS FOR CEMENT

1.1 The contractor shall procure Portland Pozzolana Cement(conforming to IS: 1489 Part-I)/ ordinary Portland cement 43 grade, as required in the work, from reputed manufacturers of cement, such as A.C.C., Ultra tech, Vikram, Shree Cement, Ambuja, Jaypee Cement, Century Cement and 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 that sub region.

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

1.2 The cement shall be brought at site in bulk supply of approximately 50 tonnes or as decided by the Engineer-in-Charge.

The cement godown 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.

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

1.4 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 testing laboratories. The cost of tests shall be borne by the Contractor/Department in the manner indicated below :

- (a) By the Contractor, if the results show that the cement does not conform to relevant BIS codes.
- (b) By the Department, if the results show that the cement conforms to relevant BIS codes.

- 1.5 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of 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 so prescribed shall be made. In case of excess consumption no adjustment need to made.
- 1.6 Cement brought to site and cement remaining unused after completion of work shall not be removed from site without written permission of the Engineer-in-Charge.
- 1.7 The damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in writing from the Engineer-in-charge. If he does not do so within 3 days of receipt of such notice, the Engineer-in-charge shall get it removed at the cost of the contractor.
- 1.8 In case 43 grade Ordinary Portland Cement is not available, the contractor will be allowed to use 53 grade Ordinary Portland Cement (confirming to IS: 12269), subject to documentary evidence produced by the contractor regarding non availability of the specified grade and also subject to independent verification by the Engineer-in-Charge. Nothing extra shall be paid for this.

## **2.0 SPECIAL CONDITIONS FOR STEEL**

- 2.1** The contractor shall procure TMT bars of Fe 500 D grade from primary producers such as SAIL, Tata Steel Ltd., RINL, Jindal Steel & Power Ltd. and JSW Steel Ltd. or any other producer as approved by CPWD who are using iron ore as the basic raw material/input and having crude steel capacity of 2.0 Million tons per annum and above.

In case of non-availability of steel from primary producers the NIT approving authority may permit use of TMT reinforcement bars procured from steel producers having Integrated Steel Plants (ISPs) using iron ore as the basic raw material for production of crude steel which is further rolled into finished shapes in-house having crude steel capacity of 0.5 Million ton per annum and more. A separate list of producers for this category shall be approved by the ADG concerned for their sub region under intimation to the Directorate, CPWD/CE,CSQ.

In case of non-availability of steel from Primary Producers as well as ISPs then the accepting authority may also permit use of TMT reinforcement bars procured from secondary producers. In such cases following conditions shall be fulfilled.

- a) The grade of the steel shall be Fe 500D as per BIS 1786-2008.
- b) The secondary producers must have valid BIS licence to produce HSD bars conforming to IS 1786 : 2008. In addition to BIS licence, the secondary producer must have valid licence from either of the firms Tempcore, Thermex, Evcon Turbo & Turbo Quench to produce TMT Bars.

- c) The TMT bars procured from primary producers shall conform to manufacture's specifications.
  - d) The TMT bars procured from secondary producers shall conform to the specifications as laid by Tempcore, Thermex, Evcon Turbo & Turbo Quench as the case may be.
  - e) TMT bars procured either from primary producers or secondary producers, the specifications shall meet the provisions of IS 1786 : 2008 pertaining to Fe 500D grade of steel as specified in the tender.
- 2.2 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.
- 2.3 Samples shall also be taken and got tested by the Engineer-in Charge as per the provision in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the Contractor does not conform to the specifications as defined under para(28.1) (d) &(28.1) (e) above, the same shall stand rejected and shall be removed from the site of work by the Contractor at his own cost within a week time of written orders from the Engineer-in-Charge to do so.
- 2.4 The steel reinforcement shall be brought to the site in bulk supply of 10 tonnes or more or as decided by the Engineer-in-Charge.
- 2.5 The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
- 2.6 For checking nominal mass, tensile strength, bend test, re-bend test etc. specimen of sufficient length shall be cut from each size of the bar at random at frequency not less than that specified below. :

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

- 2.7 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.
- 2.8 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.
- 2.9 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.
- 2.10 For the purpose of payment, the actual weight of reinforcement steel shall be worked out as below  
:
- To arrive at unit weight for the purpose of payment three random samples each of 1 meter length shall be collected for each diameter of re-bar from every consignment received at site. Actual weight of three specimens for each diameter shall be taken and average weight calculated and recorded. The average weight so arrived at shall be compared with the theoretical weight of that particular diameter of rebar. Actual or theoretical weight whichever is less shall be considered for making payment for that consignment. However final payment shall be made on the basis of weighted average of all the consignment. 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 in this regard.
- 2.11 In case contractor is permitted to use TMT reinforcement bars procured from secondary producers then :
- (i) Reduction in the base price of TMT reinforcement bars shall be as indicated under schedule 'F', along with the based price.
  - (ii) The rate of providing & laying TMT reinforcement bars as quoted by the contractor in the tender shall also be reduced by **Rs. 45.00** per kg.

### **3.0 WATER PROOFING TREATMENT**

**3.1** The water proofing items should be got done through one of the following firms as given below:

1. M/s. Water Proofing Corporation of Hindustan, Jama Masjid, Panaji, Goa.
2. M/s. Modern Water Proofing Co., No. 10 Trygler, 3 Dominic Colony, Ortem, Malad (W), Mumbai 400 064.
3. M/s. New Bharat Water Proofing Corporation, No. 37, Mohan Nagar, New Bapunagar, Ahmedabad 380 024.
4. M/s. Indian Water Proofing Co., AtankarCinemaBuilding, 2<sup>nd</sup> floor,

Pune 411 001.

5. M/s. National Water Proofing Co., C/o Shri K.B. Shau, Opp. Ram Mandir Road, Sadar, Nagpur 440 001.
  6. M/s. Bhagwati Water Proofing Co., 410, Pratiksha Complex, Maha Lakshmi Char Rasta, Paldi, Ahmedabad – 380007.
- 3.2 In case if it is not possible for the contractor to engage one of the above mentioned firms for the water proofing works, he shall submit his proposals of engaging a specialized firm in this work.
- 3.3 Even if the firms as mentioned above or otherwise as per Para 25.1 above is proposed to be engaged, the contractor shall furnish the following particulars while submitting the tender.
- (a) The name of the specialized firm.
  - (b) The trade names of the product which would be used.
  - (c) List of works where the treatment has been given.
  - (d) Quantity of chlorides and sulphides used in the product.

#### **4.0 GUARANTEE FOR WATER PROOFING TREATMENT**

Five years guarantee in prescribed proforma attached must be given by the contractor for the water proofing 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 two monsoon seasons after the completion of the work, if the performance of the work done is satisfactory. If any defect is noticed during the guarantee period, it should 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 5(Five) years is produced and deposited with the department.

## **5.0 MATERIALS OBTAINED FROM DISMANTLEMENT**

5.1 The contractors in course of their work should understand that all materials (e.g. stone and other materials) obtained in the work of dismantling, excavation etc. will be considered Government's property and may be issued to the contractor if required for use in this work at rates approved by the S.E.

## **6.0 MATERIAL BROUGHT BY THE CONTRACTOR**

6.1 The contractors shall have to deposit, the approved paints of required colour and shade as per actual requirement of the work to be done, with the Engineer-in-Charge at his departmental stores at the site of work.

6.1.1 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.

Similar procedure shall be followed for water proofing compound.

6.2 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 authorised agent.

6.3 Empty containers should not be removed without the written permission of the Engineer-in-charge.

## **7.0 TESTING OF MATERIALS**

7.1 With a view to avoid controversy about quality of cement concrete as revealed in the test results of 7 days cubes falling short of the prescribed standards by over 10% to 20% and pending testing of balance 3 cubes for 28 days as final confirmatory acceptance test, crushed samples of cement concrete from the failed 7 days cubes should be preserved in a sealed bag.

7.1.1 In case of concrete and reinforced concrete work, the contractor shall be required to make arrangement for carrying out compressive strength tests at his own cost. He shall render all assistance for the preparation of cubes, safe custody of the same, proper curing and carriage up to the laboratory where the test is to be performed, the cube tests can be performed at any laboratory approved by the Engineer-in-Charge.

**8.0** Any cement slurry added over base surface (or for continuation of concreting) for bond, if added, its cost shall be deemed to have been included in the respective items, unless otherwise, specifically stated, and nothing extra shall be payable nor extra cement considered in the cement consumption on this account.

**9.0** Only Stainless Steel screws shall be used unless otherwise specified.

## CONDITIONS FOR RCC WORKS DESIGN MIX CONCRETE

Following parameters shall be adopted for mix design in a Moderate Exposure.

- |    |                                   |                                                                                                            |
|----|-----------------------------------|------------------------------------------------------------------------------------------------------------|
| 1. | Nominal Maximum size of aggregate | 20 mm angular as per C.P.W.D. specification                                                                |
| 2. | Degree of quality control         | Good                                                                                                       |
| 3. | Type of Exposure                  | Moderate                                                                                                   |
| 4. | Maximum water cement ratio        | 0.50                                                                                                       |
| 5. | Cement content                    | a) 340 kg/cum of concrete for M-30 Grade 6. Type of cement used. PPC conforming to IS: 1489 / OPC 43 Grade |
| 7. | Sand                              | Coarse sand as per C.P.W.D. specifications.                                                                |
| 8. | Chemical Admixture                | As per IS : 9103                                                                                           |

- 9.1 For concrete mix design, laboratory tests with PPC cement will be carried out by the contractor through approved laboratories/institutions approved by the Engineer-in-charge. For this purpose the various ingredients for mix design shall be sent to the lab/test houses or Institutions and the samples of such ingredients sent shall be preserved at site. The trial mix shall be prepared with approved aggregates, cement and water. The concrete batching plant to be employed in the work shall be used for preparing the trial mix to simulate actual field conditions.

Design mix shall be prepared without adding any admixture and minimum cement content of design mix as specified in the item is based on without adding any admixture. Admixture may be added to achieve desired workability for which nothing extra shall be paid to the contractor.

- 9.2 In respect of projected balconies, projected slabs at roof level and projected verandah, the payment for the R.C.C. work shall be made under the item of R.C.C. slabs. The payment for centering and shuttering of such items shall similarly be paid under the item of centering and shuttering of R.C.C. slab. Nothing extra shall be paid for the side shuttering at the edges of these projected balconies and projected verandahs. All the exposed edge shall, however, be finished as per specifications and nothing extra shall be paid for this.

- 9.3 Only steel form work (Centering and Shuttering) conforming to CPWD specifications 2019 Vol.-I shall be used. Nothing extra shall be payable for steel form work.
- 9.4 The rate quoted by the agency shall be net and nothing extra shall be payable on account of change of quantities of concrete ingredients like coarse sand aggregates and admixtures etc. as per the approved mix design. **However recovery shall be made for less use of cement than as stipulated in the item i.e. 330 Kg/cum for M-25, 340Kg/cum for M-30 and 220 Kg/cum for M-10 then recovery for less use of cement than stipulated in the item shall be made @Rs. 6.20 per kg of cement and nothing extra shall be payable for use of cement more than 330 kg/cum for M-25, 340Kg/cum for M-30 (Road work), 350 kg/ cum for M-30, and 220Kg/cum for M-10 of R.M.C./Design Mix Concrete.**

## CONDITIONS FOR RCC WORKS READY MIX CONCRETE

1. Design mix concrete shall be used in the work for all structural members. For design mix concrete CPWD specifications 2019 along with relevant IS codes shall be followed in general along with the specific provisions made herein.
2. **Following parameters shall be adopted for mix design.**

| Grade of concrete                 | M 25                                        | M 30                                        |
|-----------------------------------|---------------------------------------------|---------------------------------------------|
| (i) Nominal Max size of aggregate | 20 mm angular as per C.P.W.D. specification | 20 mm angular as per C.P.W.D. specification |
| (ii) Degree of workability        | 0.80 compacting factor.                     | 0.80 compacting factor.                     |
| (iii) Degree of quality control   | Good                                        | Good                                        |
| (iv) Type of exposure             | Moderate                                    | Moderate                                    |
| (v) Max free water cement/ ratio  | 0.50                                        | 0.50                                        |
| (vi) Type of cement used          | PPC conforming to IS: 1489                  | PPC conforming to IS: 1489                  |
| (vii) Minimum Cement content      | 330 Kg /Cum of concrete                     | 340 Kg /Cum of concrete                     |
| (viii) Sand                       | Coarse sand as per C.P.W.D. specifications. | Coarse sand as per C.P.W.D. specifications. |
| (ix) Chemical Admixture           | As per IS : 9103                            | As per IS : 9103                            |

3. Design parameters for M10 design mix concrete :  
Following parameters shall be adopted for mix design.

| Grade of concrete                                                     | M 10                                        |
|-----------------------------------------------------------------------|---------------------------------------------|
| (i) Nominal Max size of aggregate                                     | 20 mm angular as per C.P.W.D. specification |
| (ii) Degree of workability (Slump)mm a) with out pump<br>b) with pump | 50 to 100mm<br>75 to 125mm                  |
| (iii) Degree of quality control                                       | Good                                        |
| (iv) Type of exposure                                                 | Moderate                                    |
| (v) Max free water cement/ ratio                                      | 0.65                                        |
| (vi) Type of cement used                                              | PPC conforming to IS: 1489                  |
| (vii) Minimum Cement Content                                          | 220 Kg/ cum                                 |
| (viii) Sand                                                           | Coarse sand as per C.P.W.D. specifications. |
| (ix) Mix applicable                                                   | Plain cement concrete                       |

4. Approved admixtures conforming to IS:9103 shall be permitted to be used. The chloride content in the admixture shall satisfy the requirement of BIS 5075. The total amount of

chloride content in the admixture mixed concrete shall satisfy the requirement of IS:456-2000. Fly ash shall not be used in R.C.C.

5. The concrete mix design with and without admixture will be got carried out by the contractor through laboratories/ Test houses, approved by Engineer-in-charge.
6. The various ingredients of mix design for laboratory tests shall be sent to the lab/ test houses through the Engineer-in-charge and the samples of such ingredients sent shall be preserved at site by the department till completion of work. The sample shall be taken from the approved materials which are proposed to be used in the work.
7. The contractor shall submit the mix design report from approved laboratory and get approval of Engineer-in-charge. No concreting shall be done without prior approval of the mix design by the Engineer-in-charge.
8. The contractor shall make cubes of trial mixes as per approved mix design at site laboratory for all grades of concrete in presence of the Engineer-in-charge using same ingredients as adopted to design mix, prior to commencement of concreting and get them tested in presence of Engineer-in-charge for 7 day and 28 days.
9. For each change of source/ quality/ characteristic properties of the ingredients from that approved & used in the concrete mix during the work, a fresh mix design shall be got done by the contractor from the approved laboratory. Revised trial mix test shall be conducted at laboratory established at site and shall be submitted by the contractor as per the direction of the Engineer-in-charge.
10. The cost of packaging, sealing, transportation, loading, unloading, cost of samples and the testing charges for mix design in all cases shall be borne by the contractor.
11. The rate for the item of Ready mix concrete shall be inclusive of all the ingredients including admixtures if required, labour, placing, curing, compacting, pumping, machinery, T&P etc. (except shuttering which will be measured & paid for separately) required for a design mix concrete of required strength and workability. The rate quoted by the agency shall be net and nothing extra shall be payable on account of change of quantities of concrete ingredients like aggregates and admixtures etc. as per the approved mix design. **If cement used as per approved mix design is less than that as stipulated in the item i.e. 330 Kg/cum for M-25, 340Kg/cum for M-30 and 220 Kg/cum for M-10 then recovery for less use of cement than stipulated in the item shall be made @Rs. 6.20 per kg per kg of cement and nothing extra shall be payable for use of cement more than 330 kg/cum for M-25, 340Kg/cum for M-30 (Road work), 350 kg/ cum for M30, and 220Kg/cum for M-10 of R.M.C./Design Mix Concrete.**
12. The contractor shall engage Ready Mix Concrete (RMC) producing plants to supply RMC for the work. The RMC plant proposed to be engaged by the contractor shall fulfill the following requirements: i) It shall be fully computerized  
 ii) It should have supplied RMC for Government/ Public undertaking/ Local bodies projects of similar magnitude. iii) It should have facility for providing printed dispatch slips showing ingredients of concrete carried by each mixer.

13. The contractor shall within 15 days of award of the work, submit list of at least two RMC plant companies of repute along with details of such plants including details of transit mixer, pumps etc. to be deployed indicating name of owner company, its location, capacity, technical establishment, past experience and text of M.O.U. proposed to be entered between purchaser (the contractor) and supplier (R.M.C. plant) to the Engineer-in-charge who shall give approval in writing (subject to drawl of M.O.U.). The contractor shall draw M.O.U. with approved R.M.C. Plant owner and submit to Engineer-in-charge

within a week of such approval. The contractor will not be allowed to purchase ready mix concrete without completion of above stated formalities for use in this project.

Notwithstanding the approval granted by Engineer-in-charge in aforesaid manner, the Contractor shall be fully responsible for quality of concrete including input control, transportation and placement etc.

The Engineer-in-charge or his representative Engineer will reserve the right to inspect the plant at any stage and reject the concrete if he is not satisfied about quality of product. The contractor should therefore, draw M.O.U./ agreement with R.M.C. owner/ company very carefully keeping all terms and conditions/ specifications forming a part of this tender document.

14. The Engineer-in-charge reserves the right to cancel the approval of plant with or without assigning any reason.
15. The Engineer-in-charge reserve the right to exercise control over the:-
- i) Ingredients, water and admixtures purchased, stored and to be used in the concrete including conducting of tests for checking quality of materials, recordings of test results and declaring the materials fit or unfit for use in production of mix.
  - ii) Calibration check of the R.M.C.
  - iii) Weight and quantity check on the ingredients, water and admixtures added in batch mixing.
  - iv) Time of mixing of concrete.
- v) Testing of fresh concrete, recordings of results and declaring the mix fit or unfit for use. This will include continuous control on the workability during production and taking corrective action.

For exercising such control, the Engineer-in-charge shall periodically depute his authorized representative at the RMC plant. It shall be responsibility of the contractor to ensure that all necessary equipment, manpower & facilities are made available to Engineer-in-charge/ his representative at R.M.C. plant.

16. Ingredients, admixtures & water declared unfit for use in production of mix shall not be used. A batch mix found unfit for use shall not be loaded into the truck for transportation.
17. All required relevant records of R.M.C. shall be made available to the Engineer-in-charge or his authorized representative. Engineer-in-charge shall, as required, specify guidelines & additional procedures for quality control & other parameters in respect of materials & production and transportation of concrete mix which shall be binding on the contractor & the R.M.C. plant.

18. PPC (Conforming to IS:1489 Part-I) of brand/ make/ source as approved by Engineer-in-charge shall only be use for production of concrete.

19. **QUALITY CONTROL OF READY – MIXED CONCRETE**

It shall be the responsibility of the contractor to ensure that the RMC producer provides all necessary testing equipments and takes all necessary measures to ensure quality control of readymixed concrete.

**In general the required measures shall be :-**

(I) **CONTROL OF PURCHASED MATERIAL QUALITY**

R.M.C. producer shall ensure that all the materials purchased and used in the production of concrete conform to the stipulation of the relevant agreed standards with the materials supplier and the requirements of the products, mix design and quality control procedures.

This shall be accomplished by visual checks, sampling and testing, certification from material supplier and information/ data for material supplier. Necessary equipment for the testing of all material shall be provided and maintained in calibrated condition at the plant by the R.M.C. producer.

(II) **CONTROL OF MATERIAL STORAGE**

Adequate and effective storage arrangement shall be provided by RMC producer at RMC plant for prevention of contamination, reliable transfer and feed systems, drainage of aggregates, prevention of freezing or excessive solar heating of aggregate etc.

(III) **COMPUTER PRINT OUTS OF EACH TRUCK LOAD**

Each truckload transit mixer dispatched to site shall carry computer printout of the ingredients of the concrete it is carrying. The printout shall be produced to Engineer-in-charge or his representative at site before R.M.C. is used in work.

(IV) **TRANSFER AND WEIGHING EQUIPMENT**

R.M.C. producer shall ensure that a documented calibration is in place. Proper calibration records shall be made available indicating date of next calibration due, corrective action taken etc. RMC producer shall ensure additional calibration checks whenever required by Engineer-in-charge in writing to contractor. R.M.C. producer shall also maintain a daily production record including details of customers to whom R.M.C. was supplied including details of mixes supplied. Record shall also be maintained of what materials were used for the day's production including water and admixtures. The accuracy of measuring equipment shall be within +2% of quantity of cement, (-) 3% of quantity of aggregate, admixture and water being measured.

(V) **MAINTENANCE OF PLANT, TRUCK MIXERS AND PUMPS**

Plant, Truck, Mixers and pumps should be well maintained so that it does not hamper any operation of production, transportation and placement.

**(VI) PRODUCTION OF CONCRETE:-**

The following precautions shall be taken during the production of RMC at the plant.

- i) Weighing (correct reading of batch data and accurate weighing):- For each load, written, printed or graphical records shall be made of the weights of the materials batched, the estimated slump, the total amount of water added to the load, the delivery tickets number for that load and the time of loading the concrete into the truck.
- ii) Visual observation of concrete during production and delivery or during sampling and testing of fresh concrete, assessment of uniformity, cohesion, workability, adjustment to water content:- The workability of the concrete shall be controlled on a continuous basis during production. The batch mix found unfit shall not be loaded into the truck for transportation. Necessary corrective action shall be taken in the production of mix as required for further batches.
- iii) Use of adequate equipment at the plant to measure surface moisture content of aggregates, particularly fine aggregate and the workability of the concrete, cube tests etc. shall also be ensured.
- iv) Making corresponding adjustment at the plant automatically or manually to batched quantities to allow for observed, measured or reported changes in materials or concrete qualities.
- v) Sampling of concrete, testing, monitoring of results.
- vi) Diagnosis and correction of faults identified from observations/ complaints.

The RMC plant produced concrete shall be accepted by Engineer-in-charge at site after receipt of the same after fulfilling all the requirements of mix mentioned in the tender documents.

20. Ready mix concrete shall be arranged in quantity as required at site of work. The ready mix concrete shall be supplied as per the pre-agreed schedule approved by Engineer-in-charge.
21. If so required by the Engineer-in-charge, the RMC producer shall provide separate storage space/ godowns for storage of materials approved by Engineer-in-charge for the design mix concrete.
22. Frequency of sampling and standard of acceptance shall be as per CPWD Specifications for design mix concrete.
23. The RMC shall be placed by pump of suitable capacity and the contractor shall arrange sufficient length of pipe at site to place the RMC in the minimum required time. The contractors shall co-ordinate with R.M.C. supplier and pump hirer to have effective concrete placement. Nothing extra shall be paid for placing of concrete through concrete pump.
24. The representatives of R.M.C. supplier shall attend the site meeting as and when decided by the Engineer-in-charge.
25. i) The contractor shall assess the quantity of R.M.C. requirement at site well in advance and order accordingly to the R.M.C. supplier. In case excess R.M.C. is received at site, the

department shall not be under any obligation to get the extra quantity utilized and no payment for such R.M.C. shall be made.

ii) The contractor shall have to employ labour in shifts to ensure continuous casting of slabs and other RCC members. No extra payment on this account shall be made.

26. The department will recommend to the Traffic Police to issue permits for the entry of the vehicles through the area of no entry zone to the working area. However, absence of such permits will not be cause for delay in completion of the work.

### **PARTICULAR SPECIFICATIONS FOR REPAIR WORK**

1. Adequate care should be taken by the contractor while dismantling, chiseling, demolishing work, drilling etc. those impact/vibrations are minimum for considerations of structural safety and also for in-convenience caused to the users of the building. Rates shall cover cost of all inputs of material, labour; T&P etc. involved all the operations in the work.
2. Dismantling and repair work of any type like plaster, flooring, concrete, RCC, Brickwork, GI/CI pipes, water proofing etc. shall be for all heights and all levels unless specifically mentioned in the item and no claim for extra cost shall be entertained on this account.
3. Sequence of strengthening work shall be as under:
  - (a) Strengthening of beams of first floor and columns from top of grade beams/foundations up to middle of second floor.
  - (b) Strengthening of beams of second floor and column from middle of second floor to middle of third floor.
  - (c) Strengthening of beams of fourth floor and terrace beams and columns from middle of the fourth floor up to terrace level.
  - (d) Strengthening of beams of third floor and columns from middle of third floor to middle of the fourth floor.

Guinited repaired structural members shall be allowed to attain at least 7 days strength before any load is transferred to that member.

- 4 For removal of all type of loose / delaminated / damaged / weak cement plaster from the surface of masonry or concrete, a cut normal to the surface all along the boundaries, in regular shape shall be made not to exceed plaster thickness. Then plaster shall be removed completely to expose the parent masonry or concrete surface so as not to have any traces of such plaster left. For brick work, the joints have be properly raked and cleaned as per CPWD specifications.

The plaster should be dismantled without causing any damage to brick work.

### **5.0 CHIPPING / DISMANTLING OF UNSOUND / WEAK CONCRETE :**

- 5.1 The chipping of unsound work / concrete / delaminated layer of guiniting etc. shall be done by chipping (after properly supporting the member with false works)regular

shape, with sides parallel or normal to the direction of the reinforcement. The chipping shall be done minimum 50mm beyond the perimeter of the spall for single spall, the repair area should have a minimum width of 100 mm in direction. If a number of spans are closely located to each other, these should be included in a single area marked for repair. The cut shall be made normal to the surface of member. The minimum depth of cut should be 12mm.

- 5.2 Adequate care is to be taken not to cut the reinforcement steel and a cover meter could be used to estimate the depth of cover, for which nothing extra shall be paid.
- 5.3 Chipping should be done up to the required depth as decided by the 'Engineer-in-Charge to produce sound concrete surface to a near uniform depth for the repair are as.
- 5.4 Dimensions of area chipped off for RCC slabs, beams, columns etc. shall be measured in centimeters after the chipping / dismantling operation is completed. The area of the chipped / exposed RCC surface shall be measured in sq. m. correct to second place of decimal.
- 5.5 For the RCC members to be completely dismantled, pre-measurement of the dimensions of RCC member to be dismantled shall be recorded before taking up the dismantling operation and volume of concrete dismantled shall be worked out in cubic meters correct to second place of decimal.
- 5.6 Removal of concrete should begin at the interior of the repair areas and progress towards the boundaries. All edges and cavities shall be square shouldered.

## **6.0 CUTTING OF EXISTING REINFORCEMENT**

- 6.1 The existing reinforcement bars to be cut shall be identified and approved for cutting by the Engineer-in-Charge.
- 6.2 The reinforcement shall be carefully cut without causing excessive vibrations or damaging the structure and the recovered reinforcement should be straightened, cleaned of concrete by wire brush scrapped and stacked properly with in a lead of 50 metres as directed by the Engineer-in-Charge.

## **7.0 CLEANING OF EXISTING REINFORCEMENT AND PASSIVATING ITS SURFACE**

- 7.1 Before re-casting / jacketing of members or repairs by plastering to member with polymer modified mortar, the reinforcement has to be cleaned properly, as specified.
- 7.2 The rust has to be removed from the surface of the reinforcement manually using chisels, wire brush, emery paper etc. and then by sand blasting wherever possible and as directed by Engineer-in-Charge at no extra cost, till the steel surface is cleared of all rust that could be removed manually or mechanically.
- 7.3 Then rusticide or Alkaline chemical rust remover, as approved by the Engineer-in-Charge shall be applied with brush over the reinforcement surface thoroughly along the full length of rusted reinforcement. After 24 hours of its application the surface

shall be cleaned with wire brush and all loose particles removed. It should then be washed clean, with water, thoroughly and allowed to dry.

7.4.1 Rates shall include cost of all materials, labour, T&P etc. involved in all the operations.

#### **8.0 ADDITIONAL REINFORCEMENT BARS:-**

For introducing additional reinforcement bars for new structural connections or supplementing additional steel area to the existing RCC member, the cross sectional area (diameter and no. of bars) and length required shall be approved by the Engineer-in-Charge. Also the depth of embedment of reinforcement bar shall be approved by the Engineer-in-Charge. The holes of specified diameter and depth have to be power drilled in RCC. The drilled hole in dry state has to be cleaned with round brush and by blowing air through a tube inserted in the hole and connected to hand operated blower. Then epoxy is to be injected from foil pack with help of epoxy dispenser and epoxy cartridge holder and disposable PVC mixing nozzle inserted inside the drilled hole to fill it from bottom of hole and upwards. Then the reinforcement bar is to be inserted and allowed to remain undisturbed for minimum 24 hours and allow epoxy adhesive to be air cured.

8.1 Rates shall include cost of all inputs of material, labour and T&P etc. involved in all the operational except the cost of reinforcement.

#### **9.0 SHEARKEYS:-**

Shear keys to be provided for structural connection of applied repair material with the substrate / parent surface for transfer of forces occurring at the interface, shall also be provided in similar manner as in para 8.0 above. The shear key bars cut and bend to the required shape shall be embedded in parent concrete to a minimum depth of 50 mm. Rates shall include cost of all materials, labour and T &P etc. involved in all the operations.

#### **10.0 CLEANING OF EXPOSED RCC / CONCRETE SURFACE, INSERTING NIPPLES AND INJECTION GROUTING :-**

- 10.1 The final chipped off concrete surface and exposed reinforcement, if any of the affected structural member should be cleaned off all loose and foreign materials by free air blast and then with water and allow it to dry.
- 10.2 For the honey combed portion of the concrete or cracked concrete, drill holes at least 18 mm in diameter and depth up to 60 mm or behalf the member thickness whichever is less, at the required spacing, as directed by the Engineer-in-Charge.
- 10.3 For cracked surface open up cracks by making V notch or groove of size 12 mm x12 mm as directed by the Engineer-in-Charge.
- 10.4 Remove coarse debris and dust in opened up cracks and drilled holes by blowing air with hand operated blow out pump. Concrete surface required to be grouted shall be free from all loose and unsound material. The prepared surface should be clear of dust which could obstruct free flow of grout material and also impede its bonding with concrete surface. Saturate the concrete in vicinity of crack / honeycombed concrete

- surface with water (but without excess water) only if the cementations / polymer admixed grout to be injected.
- 10.5 Insert 12 mm diameter specified injection nipples in holes drilled along cracked lines or in honey combed area of concrete and fix them by sealing on its sides with or polymer modified mortar, as directed by the Engineer-in-Charge.
  - 10.6 Seal the crack or the honey combed surface between the nipples by means of epoxy mortar or polymer modified mortar, as approved by the Engineer-in-Charge. The polymer used shall be of approved grade and polymer modified mortar shall be applied as per specifications mentioned separately for polymer modified mortar. The polymer modified mortar shall be moist cured for 3 days and allowed to gain strength before actual grouting commences.
  - 10.7 To inject grout in nipples, the cementitious grout shall be prepared from cement (OPC-43 grade), sand (sharp, washed well graded generally conforming to zone IV of IS: 383) and water conforming of IS: 456 mixed in specified proportions as directed by the Engineer-in-Charge.
  - 10.8 The emulsified acrylic polymer shall be as specified and shall conform to manufacturer's specification. The physical and mechanical properties of polymers shall conform to manufacturer's specification. One test shall be carried out mandatorily for every lot of acrylic polymer supplied at site, before use in the work.
  - 10.9 The grouting equipment shall be capable of supplying mixing, stirring and pumping grout to the satisfaction of Engineer-in-Charge. It shall have capacity to inject grout at a pressure up to 7 kg / sq. cm measured at grout connections. It shall be capable cement ratio ranging from 0.5 to 1.0.
  - 10.10 Wherever epoxy is to be used the surface of the concrete shall be dried with air blast, before grouting or applying epoxy.
  - 10.11 The cementitious grout in proportion as directed by the Engineer-in-Charge shall be prepared. It should be lump free of creamy consistency, thoroughly blended and shall be continuously stirred to keep the cement particles in suspension to retain uniform consistency in grout is injected.
  - 10.12. In case of vertical cracks the injection shall be started at the lowest nipple and continued until the injected grout begins to flow out at the next higher nipple. The first nipple shall then be closed and injection continued from second until grout flows out at the third and so on. The process shall be repeated until the whole surface is treated. As soon as the system is cured, the nipples shall be suitably cut.
  - 10.13 In case of honey combed concrete, each grout hole shall be grouted individually. The sequence of injection shall be as per the directions of the Engineer-in-Charge.
  - 10.14 The measurement of grout material shall be on the basis of only the weight of cement consumed in kg.
  - 10.15 Pre measurements of the quantities of such grouting materials brought at site and balance quantities remaining at the end of grouting application shall be recorded separately which will determine the quantity of grout material actually injected. Adequate care is to be taken by the contractor as not to waste the grout. The quantity which can be consumed immediately within the prescribed time only shall be prepared in batches.

- 10.16 The quantity of grout material wasted, discarded, hardened shall not qualify for payment and shall be recorded for deduction at the end of each operation.

### **11.0 BONDING COAT:**

- 11.1.1 Bonding coat is required to be applied for adhesion of applied repair concrete or mortar to the parent concrete. For this, the surface should be thoroughly cleaned by brushes and by blowing air from hand operated pump. The surface shall then be saturated with water (but without excess water).
- 11.2 The components of bonding coat shall be weighing batched and mixed in specific proportions, in a clean container, as directed by the Engineer-in-Charge. They should then be blended to a uniform and homogeneous mixture, lump free and of creamy consistency.
- 11.3 The specified bond coat should be applied by stiff nylon bristle brush. The vending materials should be worked well onto the concrete surface of the parent concrete including reinforcement surface ensuring that no pinholes are visible. The polymer modified bonding cement slurry shall be applied to a thickness not more than 2mm. A second coat shall be applied within 15 to 20 minutes of application of the first coat at right angles to the first coat to ensure complete coverage and absence of pinholes. (Area of exposed RCC unit shall be measured in sqm correct to two decimal places for the purpose of payment).
- 11.4 Prefabricated shuttering shall then be erected immediately. Fresh concrete / mortar shall be placed / applied while the bond coat is still tacky and well within pot-life / setting period. If adhesive cures to the extent of losing its tack or has set before concrete / mortar is placed / applied, the same shall be removed or slightly abraded and another coat of adhesive / bond coat shall have to be applied by the contractor at his own cost.
- 11.5 Freshly placed concrete shall be thoroughly consolidated to ensure full bonding of the fresh concrete with the parent concrete. If there is a failure of bond of fresh concrete/ plaster with parent concrete surface and it sounds hollow on tapping, there pair work shall be dismantled and redone by the contractor at his own cost and to the entire satisfaction of the Engineer-inCharge. CPWD specifications for manufacture and placing and curing of concrete shall, in general, be followed unless specified otherwise.

### **12.0 ADDITIONAL REINFORCEMENT FOR GUNITING / JACKETING WORK:**

- 12.1 The existing reinforcement bars in the R.C.C. member to be guinited shall be cleaned properly to remove all scales and rust by wire brushing and by rubbing with sand paper, sandblasting wherever possible etc. complete as directed by the Engineer-in-Charge.
- 12.2 The additional reinforcement shall be provided to hold guinited material in position and shall be so fixed that it is creased in succeeding layer.
- 12.3 The additional reinforcement, if required, as per the directions of the Engineer-in-Charge, shall be placed in position including cutting, straightening, binding and fixing. in position by fixing into the existing concrete by fastening to shear keys and should be secured rigidly so that it does not belly out or get displaced during guiniting

jacketing work. The mesh reinforcement shall be fixed in a manner so that it is firmly held at least 12mm away from the parent concrete as well as final finished surface. Also clear spacing between the reinforcement bars shall not be less than 50mm.

- 12.4 Additional reinforcement if required shall be tied with required lap using G. I. binding wire or welded to the parent reinforcement and also to the shear keys is directed by the Engineer-inCharge.

### **13.0 POLYMER MODIFIED MORTAR:-**

Polymer modified mortar shall have uniform consistency and texture and prepared by weigh batching cement, sand, polymer and water, Polymer shall conform to the manufacturer's specifications. The requisite number of test specimens of mortar shall be cast and tested. One test for the polymer modified mortar shall have to be mandatorily carried out for every 500 sq. m of plaster of part thereof, in general, polymer modified cement mortar with cement sand proportion 1:3 by weight shall have following properties.

- i) Minimum compressive strength after 28 days at 27 degree C:  
20N/sq.mm ii) Minimum flexural strength after 28 days at 27 degree C:  
6.0 N/sq. mm

The plaster with polymer modified mortar is to be done in coats, each coat not exceeding 10 mm thickness, if required thickness is more than 12mm. The second coat shall be applied in fairly rapid succession within 15 to 20 minutes of application of the first coat. The surface shall be moist cured for 3 days followed by air curing at ambient temperature, steam curing shall not be permitted. Pre measurement of dimensions of plaster patches shall be measured correct to a centimeter and area worked out in sq. m. correct to two decimal places.

### **14.0 GUINITING :-**

- 14.1 CPWD specifications in general shall be followed.

- 14.2 The maximum thickness to be applied in one pass will be limited to 25 mm for overhead application and 50mm on sides.

- 14.3 The sequence of strengthening shall be as given in para 3.0 above.

- 14.4 Guiniting admixtures and quick setting agents may be used, to minimize there bound losses and increase the bond and enable thicker layer per coat, by the contractor, at no extra cost. The admixtures shall meet the requirements of IS : 456 and IS 9103.

- 14.5 The batching shall be done by weight. The mixing equipment shall be capable of thoroughly mixing the sand and cement in sufficient quantity to maintain continue placing. The mixing time shall not be less than one minute in drum type mixer.

14.6 The delivery equipment or guiniting equipment shall comply with requirements given in IS: 6433.

14.7 The compressor for air supply shall be fitted with a moisture extractor to keep up a supply of clean, dry air adequate for maintaining a sufficient nozzle velocity for all parts of the work.

14.8 The work pressure at discharge nozzle shall be sufficiently greater than the operating air pressure to ensure that the water is intimately mixed with other materials. The water pressure shall be steady and non-pulsating.

14.9 Thickness of guiniting has to be effectively controlled during execution as per para 14.2.

14.10 The guinited surface has to be moist cured as per CPWD specifications.

#### 15.0 JACKETING BY CEMENT CONCRETE

15.1 All care for casting, curing etc. shall be taken as per CPWD specifications (Ingredients of concrete have to be tested before use. Requisite number of test specifications shall be cast and tested). Tests shall be carried out as per CPWD specifications.

15.2 While doing jacketing by cement concrete it should be ensured that dropping height of cement concrete should not be more than 60 cm.

#### **SPECIAL CONDITIONS (REPAIR WORK)**

**1.0** The Special Repair 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.

**1.1** 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.

**2.0** All byelaws laid down by BMC and any other local bodies while executing the work shall be adhered to. All Taxes / levies payable to BMC 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.

**3.0** 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 the entire satisfaction of Engineer-in-Charge.

#### **4.0 SCAFFOLDING SYSTEM:**

All the scaffolding work required for the execution of work, either internal or external shall be provided by the contractor, **nothing extra shall be payable on this account.** It shall be provided strictly with double scaffolding system with all the accessories etc., with adjustable suitable working platforms to access the area to be repaired safely and with ease for surface preparation, application of repairs, inspection etc. It shall be able to take all incidental loads. It should also cater to the

safety features for workmen. It shall be stiffened with bracings, runners, connection with the building etc. It shall be ensured that no damage is caused to the building due to scaffolding. Inadvertent damages caused, if any, shall be made good by the contractor at his own cost and to the entire satisfaction of the Engineer-in-Charge.

#### **5.0 PROTECTIVE FABRIC SCREENS:**

Protective Fabric screening shall be provided by the contractor with PVC sheet, Hessian cloth etc. covering full height of the structure. Nothing extra shall be payable on this account.

It shall be provided by properly stitching the screen, having adequate lapping on sides to prevent any rubbish from falling outside while demolishing, dismantling, guiniting, plastering etc. and to protect passers -by from the falling debris. Screen material shall be fixed by suitable means to the frames of scaffolding etc. and it is to be ensured that sagging of screen does not hinder the repair process.

The contractor shall maintain the protective screen in acceptable working conditions for the entire duration of the repair work as required by the Engineer-in-Charge. All the windows, ventilators, RCC jallis and openings shall be suitably covered and protected, in advance so as not to cause any damage while doing the repair work. If any damage is caused or glass panes are broken, these shall be made good by the contractor at his own cost and to the entire satisfaction of Engineer-in-Charge.

#### **6.0 TEMPORARY BARRICADING:**

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.

#### **7.0 FALSE WORK:**

The false work required to be carried out to facilitate repair work shall be provided by the contractor and nothing extra shall be payable on this account. Before structural repair is carried out, the structural member to be repaired should be relieved of stresses and strains and for this the self load and imposed load over the structural members being repaired should be suitably transferred to the false work and adjoining existing structural members safely taking into account the capacity of the false work and also of the adjoining structural members. Also sequence of fixing and removal of false work including safe load transfer should be pre - decided and followed.

False work shall be strong enough to withstand all the dead and live loads and forces / impacts caused by dismantling, chipping, ramming, vibration of concrete and other incidental loads imposed over it including that of working platform, workers and personnel etc. during and after repair work. It shall be made sufficiently rigid by using adequate ties and braces etc. Deshuttering and removal of false work should be done after the lapse of specified time and repropping done, if required, after de -shuttering, as approved by the Engineer-in-Charge.

False work shall be carried out using steel tubular sections with extension pieces or with steel built up sections to ensure relief to structural members from stresses. No timber ballies etc. shall be used.

- (a) The columns to be repaired shall be supported for full height of the building, to relieve its axial load through its adjoining intersecting beams and / or slabs etc. all floor levels. This shall be done even if only one storey length out of many stories lengths of the same column has been identified for structural repairs. The loads relieved are required to be transferred directly through props and supports on to the building foundation system or to the firm ground. Under no circumstances, the column load above this storey should be transferred by transfer through adjoining upper or lower intersecting beams alone.
- (b) The beams to be repaired shall be relieved of stresses and strains by suitably supporting the RCC slabs, which are contributing load to that beam. To avoid over stressing of any existing flexural members receiving the transferred load of the distressed beam, the steel props and supports shall be taken and continued to the firm ground. For upper stories the steel props shall be taken at least two stories below or as directed by the Engineer-in-Charge.
- (c) The RCC slabs to be repaired shall be relieved from stresses by prop and support and simultaneously care to be taken to avoid its collapse during the repair process. However, supports should preferably be, not farther than 1.2 m X 1.2m. To avoid over stressing of existing flexural members receiving load of the distressed RCC slab, the steel props and supports provided shall be taken and continued to the firm ground or at least two slabs below or as directed by the Engineer-in-Charge.

- 8.0** 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.
- 9.0** Water and electricity shall be arranged by the contractor at his own cost. Nothing extra shall be payable on this account.
- 10.0** The site of work shall be always kept neat and clean due to constraints of working space in and around buildings. To avoid nuisance to the occupants, all building rubbish unserviceable materials shall be periodically removed from the premises to the approved municipal grounds and all necessary permissions in this regard have to be obtained by the contractor from the Municipal Authorities. Nothing extra shall be payable on this account.
- 11.0** Since the work is to be carried out in the occupied buildings, proper sequencing as regards 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.
- 12.0** The area of dismantling / guiniting / replastering / repairing as per relevant items etc. given in the tender may have to be got done in patches, at different heights / levels also for which nothing extra shall be payable.
- 13.0** 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.

#### **14.0 PRODUCT DELIVERY STORAGE AND HANDLING :-**

- 14.1 The contractor shall construct storage space for chemicals and other materials to ensure that the storage conditions are as recommended by the manufactures.
- 14.2 All the materials shall be procured and delivered in sealed containers with labels equable and intact.
- 14.3 All the chemicals (polymers, rusticides, epoxy water proofing compound etc) shall be procured in convenient packs, say 20 litres (Kgs.) capacity packing only or as approved by the Engineer-in-Charge, and not in bigger capacity containers, say 200 liter (Kgs.) drums.
- 14.4 All required material shall be got approved, procured and deposited with the departmental supervisory staff. The material will kept in joint custody of the contractor and the department. The watch and ward of such material shall however, remain to be the responsibility of the contractor and no claim, whatsoever, on this account shall be entertained. Different containers of each chemical shall be serially numbered on packing and also consumed in that order. Day to day account of receipt, issue and balance will be regulated by the department and proper account shall be maintained at site of work in the prescribed form as per standard practice.
- 14.5 All the chemicals shall be procured by the contractor directly from the manufacturer their authorized dealers and copies of challans / cash memos towards the quantity of various chemicals procured shall be made available by the contractor to the department and the same shall be kept in record. The name of manufacturers, manufacturer's product identification, manufacturer's mixing instructions, warning for handling and toxicity and date of manufacturing and shelf life shall be clearly and legibly mentioned on the labels of the each container.
- 14.6 The contractor shall submit for the chemicals procured, manufacturer's and /or authorized dealer's certificate regarding supplying and verifying conformance to the material specification, as specified.
- 14.7 All filled containers shall be handled in safe manner and in a way to avoid breaking container seals.
- 14.8 Empty containers of the chemicals should not be removed from site till the completion of work and shall be removed only with the written approval of the Engineer-in-Charge.
- 14.9 All arrangement for measuring, dosing and mixing of material / chemicals at site has to be made by the contractor. Nothing extra shall be payable on this account.
- 14.10 Contractor shall suitably advise his site Engineer and all the workers as regard safe handling of chemicals. Necessary protective and safety equipments in form of hand gloves, goggles etc. shall be provided by the contractor at no extra cost and also used at site.
- 14.11 All incidental charges of any kind including cartage, storage and wastage and safe custody of material etc. shall be borne by the contractor and no claim, whatsoever, shall entertained on this account.

**15.0. VARIATION IN CONSUMPTION OF EMULSIFIED ACRYLIC POLYMER :-**

**15.1** The theoretical consumption of the emulsified Acrylic polymer shall be as per the item description. For any variation between the actual consumption of acrylic polymer and theoretical consumption. Whether the variation is on higher side or lower side, the quantity or polymer shall be recovered from the contractor at **Rs.33/-**

**16.0 CREDIT FOR DISMANTLED MATERIAL.**

**16.1** 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 TO BE EXECUTED BY CONTRACTORS FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF STRUCTURAL REPAIRS WORKS.**

This agreement made this ..... day of ..... two thousand and .....between..... Son of..... of .....(hereinafter called the GUARANTOR of the one part) and the PRESIDENT OF INDIA (hereinafter called the GOVERNMENT of the other part).

WHEREAS THIS AGREEMENT is supplementary to a contract (hereinafter called for contract) dated .....and made between the GUARANTOR of the one part and the GOVERNMENT of the other part, hereby the contractor interalia, under took to render the buildings and structures on the said contract completely structurally sound.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said structures will remain sound and strong for five years from the date of completion of work.

NOW THE GUARANTOR hereby guarantee that structural repairs done by him will render the structures completely steady & strong and the minimum life of such repairs shall be five years to be reckoned from the date of the completion of works.

Provided that the guarantor will not be responsible for damage caused due to earthquake or misuse of buildings or alteration and for such purpose. The decision of the Engineer-in-Charge with regard to cause of damage shall be final and binding.

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

That if the guarantor fails to make good the defects or commits breach there under then the guarantor will indemnify the Principal and his successors against all loss, damage, cost, expense or otherwise which may be incurred by him by reason of any default 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 and the decision of the Engineer-in-Charge will be final and binding on both the parties.

An amount equivalent to 2 % of item **for Structural repairs works in schedule of quantity** will be deducted as from R.A. Bills as security and the same will be refunded after five years from the date of completion of work.

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

SIGNED, sealed and Delivered by (OBLIGATOR) in presence of

1.

2.

SIGNED FOR AND ON BEHALF OF THE PRESIDENT OF INDIA

BY

In the presence of:

1.

2.

**\*to be filled by EE**

**SPECIFICATION FOR ALKINE RUST REMOVER AND POLYMER MODIFIED MORTOR**

1. " **ALKINE RUST REMOVER** ": The treatment for reinforcement should be from the manufacturer "Sunanda Specialty Coatings Pvt. Ltd, Mumbai" or Anuvi Marketing Corporation, Mumbai or equivalent and should be procured in sealed containers indicating the batch number and the date of manufacture etc. ALKINE RUSTREMOVER should be applied to the reinforcement approximately one litre for 6 to 7 sqm of the steel area (assuming the surface of the reinforcement of rough). The consumption of the chemical should be about 0.4 lit per 10 sqm area of RCC unit.
2. " **POLYMER MODIFIED MORTOR** " : The Acrylic Polymer should be from the manufacture "Sunanda Specialty Coatings Pvt. Ltd, Mumbai" or Anuvi Marketing Corporation, Mumbai or equivalent and should be procured in sealed containers indicating batch number, date of manufacture and shelf life (if any).
3. The consumption of chemicals for different items shall be as under:

| S.No. | Item No.                                         | Consumption                                                 |                      |
|-------|--------------------------------------------------|-------------------------------------------------------------|----------------------|
|       |                                                  | Recovery in<br>Excess /less<br>than<br>permissible<br>limit |                      |
| 1.    | Item No.Nil: Nil kg per sqm.                     |                                                             | Nil                  |
| 2.    | Item No.Nil : Nil kg per sqm.<br>kg per sqm. Nil | Nil                                                         | 3. Item No.Nil : Nil |

Theoretical consumption of chemicals shall be worked out as per the above coefficients. For any variation between the actual consumption of acrylic polymer and theoretical consumption. Whether the variation is on higher side or lower side, the quantity of polymer shall be recovered from the contractor at **Rs.\* rate** of the material supplied under relevant items.



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

This agreement made this \_\_\_\_\_ day of \_\_\_\_\_ on Two thousand \_\_\_\_\_ between \_\_\_\_\_ herein after called the Guarantor of the one part) and the PRESIDENT OF INDIA) (hereafter called the Government of the other part)

WHEREAS THIS AGREEMENT is supplementary to a contract (Herein after called for contract) dated \_\_\_\_\_ and made between the Guarantor of the one part and the Government of the other part, where by the Contractor interalla, under took to render the buildings and structures on the said contract recited completely water and leak proof.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to effect that the said structures will remain water and leak proof for five years from the date of giving of water proofing treatment.

NOW THE GUARANTOR hereby guarantee that water proofing treatment given by him will render the structures completely leak proof and the minimum life of such maintenance period prescribed in the contract.

Provided that the guarantor will not be responsible for leakage caused earthquake of structural defects or misuse of roof or alteration and for such purpose.

- a) Misuse of roof shall mean any operation which will damage roofing treatment, live chopping of firewood and thing of the same nature which might cause damage to the roof.
- b) Alteration shall mean construction of an additional story or a part of the roof or a part of the roof or construction adjoining to existing roof whereby roofing treatment is removed in parts.
- c) The decision of the Engineer-in-Charge with regard to cause of leakage shall be final.

During this period of guarantee the guarantor shall make good all defects and in case of any defect being found render the building water proof to the satisfaction of the engineer in charge at his cost and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer-in-Charge calling upon him to rectify the defects failing which the work shall be got done by the department by some other contractor at the GUARANTOR's cost and risk. The decision of the Engineer In Charge as to the cost, payable by the guarantor shall be final and binding.

That if the guarantor falls to execute the water proofing or commits breach there under then the guarantor will indemnify the principal and his successors against all loss, damage, cost expenses or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of his supplementary agreement as to the amount of loss and / or damage and / or cost

incurred by the Government the decision of the decision of the Engineer-inCharge will be final and binding on the parties.

**IN WITNESS WHEREOF these presents have been executed by the obligator**

\_\_\_\_\_ and by \_\_\_\_\_

and for and on behalf of the PRESIDENT OF INDIA on the day, month and year first above the written.

**SIGNED:** sealed and delivered by (OBLIGATOR) in the presence of

**1.**

**2.**

**SIGNED FOR AND ON THE BEHALF OF THE PRESIDENT OF INDIA**

**BY** .....

**IN PRESENCE OF:**

**1.**

**2.**

## केन्द्रीय लोक निर्माण विभाग

कार्यालय झापन

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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| <b>CONDITIONS OF CONTRACT</b><br><br><b>Definitions</b><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                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>CONDITIONS OF CONTRACT</b><br><br><b>Definitions</b><br><br>2. No change:-<br><br>(i) to (xvii) No Change<br><br><b>(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.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Clause 5 Time and Extension for Delay</b><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 remedy available in law. | <b>Clause 5 Time and Extension for Delay</b><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 <b>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</b> |

र. क. जैन  
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(EE (Contact))

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>any other right or remedy available in law.</p> <p><b>The contract shall stand determined when such decision of forfeiture of the performance guarantee is issued to the contractor.</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>5.1 As soon as possible but within 7 (seven) working days of award of work and in consideration of</p> <p>a. Schedule of handing over of site as specified in the Schedule 'F'</p> <p>b. Schedule of issue of designs as specified in the Schedule 'F',</p> <p>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.</p> <p>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.</p> | <p>5.1 <b>The contractor</b> as soon as possible but within 7 (seven) days of <b>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</b> consideration of</p> <p>a. Schedule of handing over of site as specified in the Schedule 'F'</p> <p>b. Schedule of issue of design(s) <b>and drawing(s)</b> as specified in the Schedule 'F',</p> <p>i. The Contractor shall submit a Time and Progress Chart for each milestone. The Engineer-in-Charge may within 7 (seven) days <b>of receipt of such chart, make modifications thereafter, if any,</b> and communicate the approved <b>chart</b> to the contractor, failing which the <b>chart</b> 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.</p> <p>ii. In case of non-submission of <b>time and progress chart</b> by the contractor, the <b>chart prepared by the Engineer-in-Charge</b> shall be deemed to be final.</p> |

21/02/2023  
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| <p>iii. The approval by the Engineer-in-Charge of such programme shall not relieve the contractor of any of the obligations under the contract.</p> <p>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</p> <p>v. <b>No provision</b></p> | <p>iii. The approval by the Engineer-in-Charge of such programme shall not relieve the contractor of any of the obligations under the contract.</p> <p>iv. The contractor shall submit the Time and Progress Chart <b>containing upto date progress of work</b> using the mutually agreed software or in the format decided by Engineer-in-Charge. <b>Such chart shall be submitted by the contractor on or before 5<sup>th</sup> 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.</b></p> <p>v. <b>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 :</b></p> <p>a) delays due to reasons beyond the control of both parties (sub-clause 5.2)</p> <p>b) delays attributable to the Department and concurrent delays (sub-clause 5.3).</p> <p>c) delays solely attributable to the contractor (sub-clause 5.5)</p> |
| <p><b>5.2</b></p> <p>If the work(s) be delayed by:-</p> <p>i. force majeure, or</p> <p>ii. abnormally bad weather, or</p> <p>iii. serious loss or damage by fire, or</p> <p>iv. civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work, or</p> <p>v. delay on the part of other contractors or tradesmen engaged by Engineer-in-Charge in</p>                                                                                                                                                                                                                                                         | <p><b>5.2 Delays due to reasons beyond the control of both parties:</b></p> <p>If the work(s) delayed by:-</p> <p>i. force majeure, or</p> <p>ii. abnormally bad weather, or</p> <p>iii. serious loss or damage by fire, or</p> <p>iv. civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work, or</p> <p>v. delay on the part of other contractors or tradesmen engaged by Engineer-in- Charge in</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

21/04/2023  
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| <p>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</p>                                                                                                                                                                                       | <p>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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p>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.</p> | <p>Then upon the happening of any such event causing delay, the contractor shall <b>within 03 (three) days</b> give <b>online</b> notice thereof <b>through ERP Portal</b> 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).</p> <p><b>The contractor shall have no claim on account of any hindrance in case notice(s) are not given by the contractor through ERP portal.</b></p> <p><b>The Engineer-in-Charge, on receipt of such notice(s) after considering the factual ground situation, shall either acknowledge or reject the notice(s)</b></p> <p><b>In case of rejection, the reason(s) for rejection shall be communicated by Engineer-in-Charge to the agency.</b></p> <p><b>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.</b></p> <p><b>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.</b></p> <p><b>In absence of notice by the contractor, Engineer-in-Charge or his representative(s) may record the events causing delay within 05 (five)</b></p> |

  
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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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>5.3</p> <p>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.</p> | <p><b>5.3 Delays attributable to the department</b></p> <p>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, <b>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.</b></p> <p><b>The contractor shall not be entitled for any hindrance in case notice(s) are not given by the contractor through ERP portal.</b></p> <p><b>The Engineer-in-Charge, on receipt of such notice(s) after considering the factual ground situation, shall either acknowledge or reject the notice(s).</b></p> <p><b>In case of rejection, the reason(s) for rejection shall be communicated by Engineer-in-Charge to the agency.</b></p> <p><b>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.</b></p> |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>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.</p> <p>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.</p> |
| <p>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.</p>                                                                                                                                                                                                                                           | <p>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 <b>shall have no claim of damages.</b></p>                                                                                                                                                             |
| <p>5.4</p> <p>Request for rescheduling of Mile stones or extension of time, to be eligible for consideration, 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.</p> | <p><b>5.4 Rescheduling of milestone(s) and 'extended date of completion'</b></p> <p>The request for rescheduling of Milestone(s) and extension of time, shall be made by the Contractor <b>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.</b> The Contractor shall indicate in such a request <b>number of days</b> by which rescheduling of milestone(s) and/or extension of time is desired.</p>                                                                                     |
| <p>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</p>                                                                                                                                                                                                                                                                                                                     | <p><b>Deleted</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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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.

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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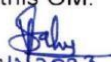
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <p>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.</p> | <p>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 <b>(twenty one)</b> days of the date of receipt of such request from the Contractor <b>on ERP Portal.</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p><b>5.5</b></p> <p>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.</p>                                          | <p><b>5.5 Delays attributable solely to the contractor</b></p> <p>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.</p> <p>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.</p> <p>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</p> |

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

  
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## 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                                                                                                                                                                                                                                                                                                                                               |
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| <b>CONDITIONS OF CONTRACT</b>                                                                                                                                                                                                                                                               | <b>CONDITIONS OF CONTRACT</b>                                                                                                                                                                                                                                                                                                                                    |
| <b>Definitions</b><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)                                                                                            | <b>Definitions</b><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) <b>No change</b>                                                                                                                                               |
| (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 <b>previous day of the last date of submission of the tender.</b>                                            |
| (xi) to (xv)                                                                                                                                                                                                                                                                                | (xi) to (xv) <b>No change</b>                                                                                                                                                                                                                                                                                                                                    |
| (xvi) No provision                                                                                                                                                                                                                                                                          | (xvi) <b>Extra items</b> are those items which are not available in the contract.<br><br>a. <b>Non Schedule Extra Items</b> are those items which are not available in the Standard Schedule of Rates specified in Schedule F.<br>b. <b>Scheduled Extra Items</b> are those items which are available in the Standard Schedule of Rates specified in Schedule F. |
| (xvii) No provision                                                                                                                                                                                                                                                                         | (xvii) <b>Completion cost:</b> 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) <b>Maintenance work:</b> Maintenance work(s) are those work(s) which includes upgradation, aesthetic improvement, special repair, addition/ alteration, annual repair, comprehensive maintenance work etc.                                                                                                                                                                                                                                                |
| <p><b>Clause 12 Deviations/ Variations Extent and Pricing</b></p> <p>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.</p> | <p><b>Clause 12 Deviations/ Variations Extent and Pricing</b></p> <p style="text-align: center;">No change</p>                                                                                                                                                                                                                                                                                                                                                    |
| <p>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</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p>The completion cost shall, in no case, exceed 1.5 times the contract amount.</p> <p>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.</p> |

  
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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 :

- (i) In the proportion which the additional cost of the altered, additional or substituted work, bears to the original tendered value plus
- (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 :

- (i) In the proportion to the additional cost of work, bears to the original contract amount plus
- (ii) 25% of the time calculated in (i) above.

#### 12.2 Deviation, Extra Items and Pricing

**Extra items are those which are not available in the contract.**

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.

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

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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),

failing which the rate(s) approved later by the Engineer-in-Charge shall be final and binding.

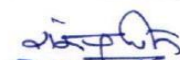
(a) **Non Schedule Extra Item(s)** - The contractor, shall within fifteen days of the receipt of order to execute extra item(s) or occurrence of the item(s), submit analysis of rate of extra item(s) based on the rate(s) of material(s) available in basic rate of Standard Schedule of Rate mentioned in 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.

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.

Material rate(s) from Standard Schedules of Rate(s) shall be given priority in the analysis of rate(s). The rate of extra item will be

- 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.
- 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.

  
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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.

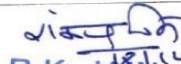
However provisional rate(s) on the basis of invoice will be allowed by the Engineer-in-Charge. Invoice shall be accepted only for material(s) not available in the Standard Schedule of Rates mentioned in Schedule F.

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).

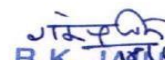
(b) No Provision

(b) Scheduled Extra Items

- 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.
- 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.                                                                                                                                                               |
| <b>12.3 Deviation, Deviated Quantities, Pricing</b><br><br><b>All the deviated quantities shall be paid at agreement rates</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>12.3 No change</b>                                                                                                                                                                                                                                                            |
| <b>12.4</b> 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. | <b>12.4 No Change</b>                                                                                                                                                                                                                                                            |
| <b>12.5 No provision</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>12.5 Cost index</b><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).                                                                     |
| <b>12.6 No provision</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>12.6 Labour rates</b><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.                                                                                         |
| <b>PROFORMA OF SCHEDULES</b><br>(Separate Performa for Civil, Elect.& Hort. Works in case of Composite Tenders)<br><br><b>SCHEDULE 'E'</b><br><br>Reference to General Conditions of Contract                                                                                                                                                                                                                                                                                                                                                                                  | <b>PROFORMA OF SCHEDULES</b><br>(Separate Performa for Civil, Elect.& Hort. Works in case of Composite Tenders)<br><br><b>SCHEDULE 'E'</b><br><br>Reference to General Conditions of Contract : (GCC EPC Projects 2022/ GCC Maintenance Works 2023/ GCC Construction Works 2023) |

  
**R.K. JAIN** 4/2023  
 (EE (Contact))

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

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**

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

  
R.K. JAIN  
(EE (Contact))

## केन्द्रीय लोक निर्माण विभाग

## कार्यालय झापन

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>CONDITIONS OF CONTRACT</b></p> <p><b>Definitions</b></p> <p>2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:-</p> <p>(i) to (xix)</p> <p>(xx) No provision</p> <p>(xxi) No provision</p>                                                                                                                                                                                                                                                                                                     | <p><b>CONDITIONS OF CONTRACT</b></p> <p><b>Definitions</b></p> <p>2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:-</p> <p>(i) to (xix) No change</p> <p>(xx) Adolescent Person: A person who has completed his/her fourteenth year of age but has not completed his eighteenth year.</p> <p>(xxi) Hazardous works: Hazardous process/works are the works as defined in the clause (cb) of the Factory Act, 1948.</p> |
| <p><b>Clause 19 Labour Laws to be complied by the Contractor</b></p> <p>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.</p> <p>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.</p> <p>The contractor shall also comply with provisions of the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979.</p> | <p><b>Clause 19 Labour Laws to be complied by the Contractor</b></p> <p>No change</p> <p>No change</p> <p>No change</p>                                                                                                                                                                                                                                                                                                                                                                                                   |

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

This issues with the approval of DG CPWD.

*Sahy*  
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** 21.03.2024

**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:

| <b>Existing provision</b>                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Modified provision</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>CONDITIONS OF CONTRACT</b></p> <p><b>Definitions</b><br/> <b>9. Signing of Contract:-</b> 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:-</p> <p>(i) to (iii)</p> <p>No Provision</p>                                                                                  | <p><b>CONDITIONS OF CONTRACT</b></p> <p><b>Definitions</b><br/> <b>9. Signing of Contract:-</b> 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:-</p> <p>(i) to (iii) No change</p> <p>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.</p> |
| <p><b>Clause 19 B Payment of Wages</b></p> <p>(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.</p> | <p><b>Clause 19 B Payment of Wages</b></p> <p>(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.</p>                                                                                                                                                                                                  |

R.K. JAIN  
(EE (Contact))

|                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>(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.</p> | <p>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 .</p> <p>(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, <b>Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 – sec. 3 (ii)</b> and the modifications thereof or any other laws relating thereto and the rules made there under from time to time.</p> |
| <p><b>Clause 20 Minimum Wages Act to be Complied With</b></p> <p>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.</p>                                                             | <p><b>Clause 20 Minimum Wages Act to be Complied With</b></p> <p>The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, <b>Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 – sec. 3 (ii)</b> 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.</p>                                                                                                                                                                                                                                                                                                                                         |

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 e-file no. 9163323

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

*R.K. Jain*  
29/01/2024  
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Clause 7 Payment on intermediate certificate to be regarded as Advances</b></p> <p>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.</p> <p>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.</p> <p>No provision</p> | <p><b>Clause 7 Payment on intermediate certificate to be regarded as Advances</b></p> <p>No change.</p> <p>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.</p> <p>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.</p> <p>Such payment by Engineer-in-Charge shall not be construed as waiver of limit specified in schedule 'F' for subsequent interim payment(s).</p> |

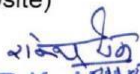
This issues with the approval of DG CPWD.

  
(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)

  
R.K. JAIN  
(EE (Contact))

**Central Public Works Department  
Office Memorandum**

**No. DG/CON/Maintenance 2023/07**

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

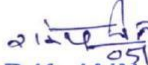
NIRMAN BHAWAN, NEW DELHI

Dated: 05.03.2024

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

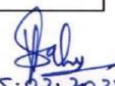
The following amendments are made in the GCC 2023 for Maintenance Works.

| Existing provision                                                                                                                                                                                                                       | Modified provision                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>Clause 19 Labour Laws to be complied by the Contractor</b>                                                                                                                                                                            | <b>Clause 19 Labour Laws to be complied by the Contractor</b> |
| 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.                                                     | <b>No change</b>                                              |
| 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.                                                                      | <b>No change</b>                                              |
| The contractor shall also comply with provisions of the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979.                                                                                      | <b>No change</b>                                              |
| 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.                                        | <b>No change.</b>                                             |
| 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. | <b>No change</b>                                              |

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

|                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>No provision</p> <p>Any failure to fulfill these requirements shall attract the penal provisions of this contract arising out of the resultant non-execution of the work.</p> | <p>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.</p> <p>Any failure to fulfil these requirements shall attract the penal provisions of the relevant act and in this contract</p>                              |
| <p><b>Clause 19 M</b></p> <p><b>No Provision</b></p>                                                                                                                             | <p><b>Clause 19 M Sexual Harassment of Women at Workplace</b></p> <p>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).</p> |

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)

  
21.03.2024  
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Clause 36</b> If relative working in CPWD then the contractor not allowed to tender</p> <p>The contractor shall not be <u>permitted</u> to tender for works in the CPWD circle (<u>Division in case of contractors of Horticulture/Nursery categories</u>) 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 <u>Superintending Engineer</u> and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working <u>with him in any capacity</u> or are subsequently employed by him and who are near relatives to any <u>Gazetted Officer in the C.P.W.D. or in the Ministry of Housing and Urban Affairs</u>. Any breach of this condition by the contractor would render him liable to be <u>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.</u></p> <p>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.</p> | <p><b>Clause 36</b> If relative working in CPWD then the contractor is not allowed to participate in the tendering process</p> <p>The contractor (<b>enlisted or non-enlisted in CPWD</b>) shall not be <b>allowed</b> to <b>participate in the</b> 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 <b>Chief Engineer</b> 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 <b>working</b> in the CPWD. Any breach of this condition by the contractor would render him liable to be <b>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.</b></p> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No change.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

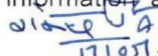
This issues with the approval of DG, CPWD.

  
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)

  
17/05/2024  
**R.K. JAIN**  
EE (Contract)

**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<br><br>No Provision | General Rules and Directions<br><br>No Change<br><br><b>17. Price Preference to SC/ST individual contractor for item rate/percentage rate tender:</b><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><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><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><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><br>No Provision                                      | Schedule F<br><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)

21/05/2024  
R.K. JAIN  
EE (Contract)

केन्द्रीय लोक निर्माण विभाग  
कार्यालय झापन

**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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Clause 10A Materials to be provided by the contractor</b></p> <p>The contractor shall ..... as specified in Schedule F.</p> <p>No Provision</p> | <p><b>Clause 10A Materials to be provided by the contractor</b></p> <p>(i) No Change</p> <p>(ii) Maintenance of Material at Site (MAS) Register</p> <p>(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.</p> |
| <p>(b) No provision</p>                                                                                                                               | <p>(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.</p>                                                                                                                                                                                                                                                                                                                       |

  
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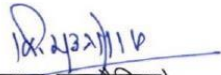
## Appendix-XX

## 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 where Plants 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)

  
 R.K. SINGH  
 EE (Manual)



केन्द्रीय लोक निर्माण विभाग  
कार्यालय ज्ञापन

No. DG/CON/Maintenance-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 :-

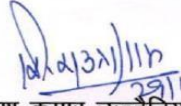
| Existing Provision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Modified Provision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <p><b>Clause 10A: Materials to be provided by the Contractor</b></p> <p>(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.</p> <p>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.</p> <p style="text-align: center;"><b>No Provision</b></p> | <p style="text-align: center;"><b>No Change</b></p> <p><b>Field Laboratory:</b> 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.</p> <p><b>External Laboratory:</b> 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.</p> <p>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</p> |

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EE(Manual)

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| <p style="text-align: center;"><b>No Provision</b></p> | <p>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.</p> <p>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.</p> |
| <p>Sl. no. (ii) (a) and (b)</p>                        | <p><b>No change</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

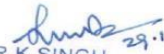
This OM is applicable for all NITs uploaded after date of issue of this OM.

This is issued with the approval of DG CPWD.

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

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

केलोनवि तथा लोनवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु।  
 (केलोनवि वेबसाइट के माध्यम से)

  
 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.

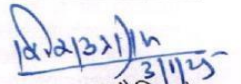
The following amendments are made in the General Rules and Directions of GCC 2023 for Maintenance Works:

| Existing provision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Modified provision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicable for Item Rate Tender only (CPWD - 8)</b><br>4 The rates ..... rupee one.<br><br>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.<br><br>If the revised ..... their tenders.<br>In case of any ..... be forfeited.<br>In case all ..... lowest contractors.<br>Contractor ..... of the work. | <b>Applicable for Item Rate Tender only (CPWD - 8)</b><br>4 No change<br><br>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.<br><br>No change |
| <b>Applicable for Percentage Rate Tender only [CPWD- 7]</b><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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Applicable for Percentage Rate Tender only [CPWD- 7]</b><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/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

  
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| 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. | 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. |
| In case of any ..... be forfeited.<br>If the revised ..... their tenders.<br>In case all ..... process of the work.                                                                                                                                                                                                                                                  | No change                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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 9185053 (DFA/9307326)**

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

  
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <p><b>Clause 7A</b></p> <p>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.</p> | <p><b>Clause 7A</b></p> <p>(a) No Running Account Bill/<b>Final Bill</b> 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.</p> <p>(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:-</p> <ol style="list-style-type: none"> <li>1. Details of person employed with date of their employment up to previous month.</li> <li>2. Documents of payment made to the employees directly into their bank accounts up to previous month.</li> <li>3. Documents of attendance through biometric attendance or other mode up to previous month.</li> <li>4. Documents of deposition of EPF and ESI deductions in the employee's accounts up to previous month.</li> <li>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.</li> <li>6. Any other document(s) required as per statutory requirements and/or as directed by Engineer-in-Charge.</li> </ol> <p>(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.</p> |

This issues with the approval of DG, CPWD.

**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)

*R K SINGH*  
31.1.25  
R K SINGH  
EE(Manual)

*(दिनेश कुमार खज्जैनिया)*  
अधीक्षण अभियंता (सी.एंड एम.)

**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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Clause 7</b><br>Existing provisions<br><br>No provision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Clause 7</b><br>No change<br><br><b>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.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Clause 8 Completion Certificate</b><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. | <b>Clause 8 Completion Certificate</b><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 <b>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.</b><br><br><b>No change.</b> |

*R K SINGH*  
10.2.25  
R K SINGH  
EE(Manual)

**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.

*[Signature]* 10.2.25  
R K SINGH  
EE (Manual)

**Clause 9 Payment of Final Bill**

- 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.**
- 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.**
- 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.**
- 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".**
- 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

|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <p>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.</p> | <p>charge, will, be made within the period of three months. The period of <b>three months will be</b> reckoned from the date of receipt of the bill in <b>complete shape after necessary corrections / additional documents</b>, by the Engineer-in-Charge.</p> <p>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.</p> <p>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) &amp; (iv) above.</p> |
| <p><b>Schedule F</b></p> <p><b>Clause 8</b></p> <p>No Provision</p>                                                                                                                                                                                                                                                                                                                                  | <p><b>Schedule F</b></p> <p><b>Clause 8</b></p> <p><b>Competent Authorities to inspect and issue completion certificate .....</b></p> <p><b>(To be filled by NIT approving authority).</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

This issues with the approval of DG, CPWD.

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

Issued from file No. CSQ/CM/17(1)/2025/Maintenance  
e-file 9190123 (DFA/9315616)

केलोनवि तथा लोनवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु।  
(केलोनवि वेबसाइट के माध्यम से)

*R K SINGH*  
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**

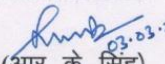
**Dated: 03.03.2025**

**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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Clause 14 Carrying out part work at risk &amp; cost of contractor</b></p> <p>If contractor:</p> <p>(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 :</p> <p>(a) Take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or</p> <p>(b) Carry out the part work / part incomplete work of any item(s) by any means at the risk and cost of the contractor.</p> | <p><b>Clause 14 Carrying out part work at risk &amp; cost of contractor</b></p> <p>If contractor:</p> <p>(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 :</p> <p>(a) Take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or</p> <p>(b) Carry out the part work / part incomplete work of any item(s) by any means at the risk and cost of the contractor. <b>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).</b></p> |

This issues with the approval of DG, CPWD.

  
(आर. के. सिंह)  
कार्यपालक अभियन्ता (एम.)

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

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

R K SINGH  
EE(Manual)

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Clause 25.2</b><br/><b>(b) Qualification of Arbitrators:</b> 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).</p> <p>The aforesaid educational qualification and work experience shall be mandatory for appointment as Arbitrator.</p> <p>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.</p> | <p><b>Clause 25.2</b><br/><b>(b) Qualification of Arbitrators:</b> It is a term of this contract that each member of the Arbitral Tribunal shall be Graduate Engineer <b>(in Civil or Electrical or Mechanical Engineering)</b> with experience in execution of public works engineering contracts and he should have worked earlier at a level not lower than the SAG <b>(Level 14 of 7<sup>th</sup> CPC)</b> of the Government of India).</p> <p>The aforesaid educational qualification and work experience shall be mandatory for appointment as Arbitrator.</p> <p>The age of Arbitrator at the time of appointment shall not exceed <b>70 years</b>.</p> |
| <p><b>Clause 25.6</b><br/><b>Fee payable to Arbitrator(s):</b> 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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p><b>Clause 25.6</b><br/><b>Fee payable to Arbitrator(s) for arbitration cases, shall be as per the fee given in the fourth schedule of the Arbitration &amp; Conciliation Act, 1996 (or latest amendment), and shall be shared equally by both the parties.</b></p>                                                                                                                                                                                                                                                                                                                                                                                          |

This issues with the approval of DG, CPWD.

चन्द्र पाल  
(चन्द्र पाल) 16/06/2025

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)

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

- Note :** 1. Unless otherwise specified, the brand/make of the material as specified in the item nomenclature or in the particular specifications or in the list of approved materials attached in the tender, shall be used in the work.
2. The Contractor shall obtain prior approval from the Engineer-in-Charge before placing order for any specific material/ Brand/ Make.
3. Whenever the specified brand of material is not available then, the Engineer-in-Charge may approve any material equivalent to that specified subject to proof being offered by the Contractor for its equivalence and its non-availability to his satisfaction.

| MATERIALS                                                                | PREFERRED MAKE/ BRAND                                                                                |
|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Aluminum Sections                                                        | Jindal, Hindalco, Indalco                                                                            |
| Ordinary Portland Cement / Portland Pozzolana Cement                     | Ultra Tech, A.C.C., Ambuja, Birla, Vikram, J.K. Cement, Jaypee Cement.                               |
| Calcium silicate board / tiles                                           | Aerolite, Ramco-Hilux, Armstrong.                                                                    |
| White Cement                                                             | J.K., Birla, ACC, Ultra Tech.                                                                        |
| Reinforcement Steel                                                      | Tata Steel, SAIL, RINL, Jindal Steel & Power Ltd., JSW Steel Ltd.                                    |
| Parallel Threaded Couplers                                               | DEXTRA, G-TECH, Splicetek, ISHITA                                                                    |
| Re-barring Chemical                                                      | HILTI, 3M INDIA, Fischer, De-walt                                                                    |
| Structural Steel/ Tubes                                                  | Tata Steel, SAIL, RINL, JSPL, APL Apollo, Jindal.                                                    |
| Plasticizer, Super Plasticizer, Admixtures, Other construction chemicals | Sika, Fosroc, BASF, PIDILITE, MYK                                                                    |
| AAC Block                                                                | Ultratech, Aerocon, ACC, B.G Shirke, Wonder, J.K (Only ISI marked with Density more than 551 Kg/Cum) |
| ACC Block Adhesive                                                       | ACC, ULTRA TECH, J.K., FERROUS CRETE, ARDEX ENDURA                                                   |
| Polymer modified cementitious grout / Tile Adhesive                      | ARDEX ENDURA, LATECRETE, FERROUSCRETE, FOSROC, BASF, ACC, ECO GREEN, MYK, CICO, Pidlite.             |
| List of RMC producers                                                    | A.C.C., ULTRA TECH, READY MIX INDIA (PVT.) LTD, Godrej & Boyce Ltd., J. K                            |
| Waterproofing Compound                                                   | Pidilite, BASF, Sika, Fosroc, MYK, Penetron, Kryton, Zypex, CICO.                                    |

|                                                                     |                                                                                                                                                                      |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waterproofing membrane                                              | Fosroc, Dr. Fixit (Pidilite), MYK, Sika, Mapei                                                                                                                       |
| Silicon based water repellent/ Weather Sealant                      | GE Plastics, Dow Corings, Wacker, BASF (product must be approved by ASI)                                                                                             |
| Poly-Sulphide Sealant                                               | Fosroc, Pidilite, Sika, BASF                                                                                                                                         |
| Plywood                                                             | Green ply, Century, Greenlam, Merino, Kitply, Archid, Anchor (Only ISI Approved makes is allowed)                                                                    |
| Flush door shutters                                                 | Greenply, Century Ply, Greenlam, Merino, Archid (The factory shall be having valid IS certification at the time of manufacturing of Doors), Kutty Flush Door, Anchor |
| High-pressure laminate                                              | Formica, Merino, Century, Greenlam, Decolam                                                                                                                          |
| GI HMPS Fire and Non-Fire rated Door, Frames, Over Head Panels etc. | NAVAIR, ICLEAN, SHAKTI HORMANN                                                                                                                                       |
| Fire rated vision panels                                            | SAINT-GOBAIN, PILKINGTON, SCHOTT, FERILITE, PYROGUARD (OEM only allowed)                                                                                             |
| GLAZED FIRE DOOR                                                    | PROMAT, SAINT GOBAIN, GODREJ, SHAKTI MET, Pacific fire controls, NAVAIR                                                                                              |
| Rolling Shutter with Grills                                         | STANDARD, SWASTIK, SHUBDHWAR, SONA                                                                                                                                   |
| Aluminium Extrusions                                                | HINDALCO, INDALCO, JINDAL                                                                                                                                            |
| Dash Fastners                                                       | HILTI, FISHER, CANON, WURTH                                                                                                                                          |
| SS Glass Railing                                                    | KICH, Godrej, Q Railing, D-Line, Hafele, Ozone                                                                                                                       |
| SS Hardware and accessories for Flush Doors and fire doors          | Geze, DORMA, BECKER, IR, Briton (Min 304 SS grade is to be used else otherwise specified in BoQ)                                                                     |
| Stainless Steel                                                     | Salem Steel, Jindal.                                                                                                                                                 |
| Hardware for Kitchen cabinet, ward robe and shelves                 | Godrej, Hettich, GEZE, HAFELE, DORMA                                                                                                                                 |
| Hermitically sealed performance glass toughened Glass, DGU          | AUTHORIZED FABRICATORS of MODI GUARD, SAINT GOBAIN, TATA ASAHI, PILKINGTON.                                                                                          |
| Particle board                                                      | Action TESA, Greenlam, Merino, Kitlam, Archid Ply, Asis                                                                                                              |

|                                                  |                                                                                                                                                                                    |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Melamine Polish                                  | ASIAN PAINTS (MELAMYNE GOLD), PIDILITE INDUSTRIES (WUDFIN), ICI DULUX (TIMBERTONE)                                                                                                 |
| Cement Based Wall putty                          | Birla wall care, JK White, SAKARNI (ISI only), Berger, Asian Paint.                                                                                                                |
| Oil Bound Washable Distemper / Dry Distemper     | Asian paint :(Professional Acrylic Distemper),<br>NEROLAC: Beauty Acrylic Distemper<br>Berger: Bison Acrylic Distemper<br>Dulux ICI: Maxilite                                      |
| 1st Quality Acrylic Distemper / Dry Distemper    | Asian Paints :( Tractor Aqua Lock Paint),<br>Berger: Commando<br>Or equivalent paints of Nerolac or ICI-Dulux.                                                                     |
| Acrylic Emulsion Paints                          | Asian Paints :(Professional Premium Interior Emulsion Paints),<br>Nerolac: Beauty Gold<br>Berger: Rangoli total care<br>ICI-Dulux: Super Cover, PEARL, KLASSIC                     |
| Plastic Emulsion Paint                           | Asian Paints :(Apolite Heavy Duty Premium Emulsion Paint),<br>Nerolac : Impression<br>Berger: Easy Clean<br>ICI-Dulux: 3 in 1                                                      |
| Premium Acrylic Emulsion Paints (Interior)       | Asian Paints :(Royal Luxury Emulsion),<br>Nerolac: Impression<br>Berger: Silk<br>ICI-Dulux: Velvet touch                                                                           |
| Stone Chip/ dust/ powder Texture including paint | Asian paints, Nerolac, Ultratech, Luxture, SPECTRUM, INSPIRA, HERITAGE. (Primer, Base coat shall be pigmented matching with Top Coat to create homogeneous pigment for full depth) |

|                                                             |                                                                                                                                                                                                        |
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| Acrylic Smooth Exterior Paint                               | Asian Paints :(Apex/Professional Premium Exterior Emulsion),<br>Nerolac : XL<br><br>Berger: weather Coat, PEARL, PEARL-ULTIMA (Advance AntiAlgal Weather Proof Paint)<br><br>ICI-Dulux: Weather Shield |
| Premium Acrylic Smooth Exterior Paint with Silicon additive | Asian Paints: Apex Ultima<br><br>Nerolac : XL Total<br><br>Berger: weather Coat all guard,<br><br>ICI-Dulux: Weather Shield max, SNOWCRYL-XT                                                           |
| Synthetic Enamel Paint                                      | Asian Paints: Apcolite Premium Gloss Enamel,<br><br>Nerolac : Synthetic Hi Gloss<br><br>Berger: Luxol Hi Gloss<br><br>ICI-Dulux: Gloss Synthetic Enamel                                                |
| Cement Primer                                               | NEROLAC, Berger, BP White (Berger), Decoprime WT (Asian), White primer (ICI), SNOWCEM, Delux.                                                                                                          |
| Steel Primer (Red Oxide Zinc Chromate Primer)               | Asian paints, ICI NEROLAC                                                                                                                                                                              |
| Wood Primer                                                 | Asian paint (Wood Primer- White/Pink), ICI, NEROLAC                                                                                                                                                    |
| Epoxy Paint & Primer.                                       | ICI, NEROLAC, ASIAN, BERGER, Kansai Akzo Nobel, Pidlite, CICO.                                                                                                                                         |
| Fire Paint                                                  | ASIAN PAINTS, Akzonobel Coatings India Ltd, PROMAT, Jotun                                                                                                                                              |
| Gypsum Plaster                                              | Gyproc, Birla, Ferrous Crete, Ultra Tech.                                                                                                                                                              |
| Gypsum Board                                                | SAINT GOBAIN, USG Knauf, AGC Llc, India Gypsum, Boral Gypsum.,                                                                                                                                         |
| Cement based Ready Mix Plaster                              | Ultratech, Wallplast, Buildwell, ACC.                                                                                                                                                                  |
| Hardner                                                     | Hard crete of Snowcem India, MC Deritop F.H.                                                                                                                                                           |
| EPDM Gasket                                                 | Ame Rubber Industries Pvt. Ltd., Bohra Rubber, Osaka                                                                                                                                                   |
| Dash/ Anchoring Fasteners                                   | Hilti, Fischer, Wurth, Arrow.                                                                                                                                                                          |

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|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Mortice lock, pin cylinder and lever handle                              | Dorma, Becker, IR, Briton, Yale, Total Hardware, Geze                                                                                             |
| Mineral Fibre Ceiling                                                    | Armstrong, Daikin                                                                                                                                 |
| SPIDER FITTINGS                                                          | DORMA, Becker, IR, Briton                                                                                                                         |
| Aluminium Structural Members - Windows, Glazing and Partitions           | Hindalco, Indalco, Jindal Aluminium Ltd.                                                                                                          |
| Aluminum composite panel (ACP)                                           | ALSTRONG, ALDEKO, ALUCOBOND, ALUDECOR, EUROBOND                                                                                                   |
| FLOOR SPRING/ DEAD LOCK/ DOOR CLOSERS /PANIC BAR                         | DORMA, Becker, IR, Briton,Hardwyn, Godrej.                                                                                                        |
| ALL TYPE OF SILICONE                                                     | DOW CORNING, GE SILICON, WURTH, BECKER                                                                                                            |
| Gypsum/ Metallic False Ceiling                                           | Armstrong, Hunter Douglas, SAINT GOBAIN, Knauf, Lexlon                                                                                            |
| Floor & Wall Tiles: Ceramic / Vitrified tiles / Antiskid / Matt / Glazed | KAJARIA, JOHNSON, NITCO, Somany, RAK, AGL                                                                                                         |
| Chequered Tiles                                                          | Super Tiles, Hind Mosaic, Kajaria, Ultra Designer Tile, Nitco, Vitco, Manufacturers having valid BIS Certification and turnover more than 50 Cr., |
| Glass / Mosaic Tile                                                      | Bissazza, Saon.                                                                                                                                   |
| Vitrified paver tiles                                                    | Kajaria, Pavit, Johnson, Nitco                                                                                                                    |
| Paver Block & Kerb Stone                                                 | Nikhil, Gajanan, Ultra, Spectra, Manufacturers having valid BIS Certification and turnover more than 50 Cr., Universal, Hindustan Concrete work.  |
| Clear / Float / Frosted Glass / Mirror                                   | ST. GOBAIN, MODIGUARD, ASAHI, PILKINGTON                                                                                                          |
| Vitreous China-ware sanitary work                                        | Jaquar, Kohler, Grohe, Duravit, Parryware, Hindware, Neycer, Cera, M/s. Somany Sanitary Ware Pvt. Ltd.                                            |
| Bathroom accessories (Towel ring, Towel rack, Soap Dish Holder, etc)     | Jaquar, Kohler, Kich, Euronics, Marc.                                                                                                             |
| GULLY TRAPS(S.W.)                                                        | PERFECT, PARRY, CHERRY                                                                                                                            |
| Water supply CP Fittings & Accessories                                   | Jaquar, Kohler, RoCa.                                                                                                                             |

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| PVC water tank | Sintex, National Plastic, Kaveri, Plasto, Supreme, Bejod. |
|----------------|-----------------------------------------------------------|

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| Stainless Steel Sink                                | Nirali, Ruhe, Jindal, Futura, Kaff, JAYNA, Hindware.                                                                                                                                                       |
| M. S. Pipe                                          | Tata, Apollo (ISI), Electro Steel.                                                                                                                                                                         |
| GI Pipes                                            | Zenith / Tata / Jindal, SURYA, ASIAN                                                                                                                                                                       |
| Clay tiles on Roof                                  | Kenjai, Johnson.                                                                                                                                                                                           |
| GI Fittings                                         | Unik, Zoloto, AVR, R-BRAND, Zenith / Tata / Jindal, SURYA, ASIAN                                                                                                                                           |
| Clay tiles on Roof                                  | Kenjai, Johnson.                                                                                                                                                                                           |
| Valves                                              | Zoloto, Sant, KIRLOSKAR, LEADER, Honeywell                                                                                                                                                                 |
| HDPE Pipe                                           | Reliance, Jain Pipes, ORIPLAST, Supreme                                                                                                                                                                    |
| DI Pipes AND Fittings                               | ELECTROSTEEL, Kesoram, JINDAL, TATA DUCTURA, Neco, Kapilansh.                                                                                                                                              |
| Centrifugally Cast (Spun) Iron Pipes & Fittings     | Neco, Kapilansh, SKF, BIC, RPMF                                                                                                                                                                            |
| Hubless CI Pipes & Fittings                         | Neco, Kapilansh, SKF, BIC, RPMF                                                                                                                                                                            |
| CI Manhole covers, Frames & GI Gratings             | Neco, Kapilansh, SKF, RPMF                                                                                                                                                                                 |
| SFRC Covers                                         | KK spun pipes, Jain spun pipes, SS industries                                                                                                                                                              |
| RCC Pipes                                           | Jain Spun Pipes, LAKSHMI, SOOD & SOOD, PRAGATI, K.K.Spun Pipe, The Indian Hume Pipe Co.Ltd., Patel Hume Pipes, Deccan Concrete, Manufacturers having valid BIS Certification and turnover more than 50 Cr. |
| UPVC / CPVC Pipe & Fittings                         | Finolex Supreme, Prince, Astral, Ashirwad                                                                                                                                                                  |
| UPVC DOORS & windows (OEM only allowed)             | Fenesta, Kommerling, VEKA, Saint Gobain, Aluplast, Durplast.                                                                                                                                               |
| UPVC DOORS & windows Hardware                       | Rotto, Kinlong, Fenesta, Saint Gobain                                                                                                                                                                      |
| FRP chajja, FRP Shutters & Frame                    | Freeways, Bhutt FRP, Fiberways                                                                                                                                                                             |
| Anodised Aluminium Doors Fittings (ISI Marked only) | Classic, Shalimar, Prestige                                                                                                                                                                                |
| PVC Shutters & Frame                                | Rajashree, Plastiwood, Accucel, DUROPLAST, POLYLINE, POLYWOOD, Vijay Doors, Sintex..                                                                                                                       |

|                                                           |                                                                                                                 |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Steel Door / Window Frames                                | AGEW, SenHarvik , Shiv Mular, Steel Plast                                                                       |
| SBR COMPOUND (For REPAIR MORTAR & WATER PROOFING SLURRY)  | MASTER EMACO SBR2 OF BASF, SIKALATEX POWER, CICALATEX sbr                                                       |
| Acrylic Polymer FOR BOND COAT AND POLYMER MODIFIED MORTAR | Anuvi Chemical, Sunanda Specialty Coating Pvt. Ltd,                                                             |
| Rust remover                                              | Anuvi Chemical, Sunanda Specialty Coating Pvt. Ltd,                                                             |
| Rust Passivator                                           | Anuvi Chemical, Sunanda Specialty Coating Pvt. Ltd,                                                             |
| READYMADE SINGLE COMPONENT POLYMERMODIFIED REPAIR MORTAR  | MASTER EMACO S 348 OF BASF, ANUVI CHEMICAL, SUNANDA SPECIALITY COTING PVT.LTD, SKG CONSTN.                      |
| MICRO CONCRETE                                            | DR. FIXIT, BASF, FOSROC                                                                                         |
| Stone Ware Pipes Grade-A (ISI Marked only)                | Sonya, Supertech, Cherry, Manufacturers having valid BIS Certification and turnover more than 50 Cr.            |
| PTMT (ISI Marked only)                                    | Prayag, Polytuf, Shakti                                                                                         |
| Veneers                                                   | Greenlam (Smoked Oak, Smoked Burma Teak, Smoked Cocobolo, Smoked Makore) or equivalent in Duro, Ekbote, Century |
| Toilet Cubicles                                           | Merino (Titan Series) or equivalent in Greenlam, Durian                                                         |
| Acoustical Wall Paneling                                  | Armstrong, Anutone, USGBoral Ecophone, Techno                                                                   |
| Acoustical false ceiling                                  | Armstrong, Ecophone, USGBoral, Anutone                                                                          |
| PUF Panel insulated double skin                           | Jindal, Metacno                                                                                                 |
| Epoxy Flooring                                            | SIKA, Fosroc, or Equivalent                                                                                     |
| WPC Doors/ Frames                                         | Greenply, Century, Alstone, Fenesta                                                                             |
| Structural Glazing Work                                   | Ajit India, Rachana BuiltArt, Heramb                                                                            |
| RFID Electronic Lock                                      | Dorma, Godrej, Onity, Salto, Briton, Tesa                                                                       |
| Wooden Fire cum Acoustical Doors/ Frame                   | Naviar, Godrej, Shakti Horman                                                                                   |
| PVC Edge binding tape                                     | Rehau, Smartedge                                                                                                |
| Epoxy Grout for tile work                                 | MYK, Sika, Fosroc, Pidilite                                                                                     |
| Horizontal roller blinds                                  | Vista Levator, Mac, Aurolux                                                                                     |
| Wet Shower system                                         | Klenzaid / I Clean / HT Airtec / Nicomac / K Pass                                                               |

|                              |                                                   |
|------------------------------|---------------------------------------------------|
| Bio safety doors             | Klenzaid / I Clean / HT Airtec / Nicomac / K Pass |
| Dynamic Pass Box / Dunk Tank | Klenzaid / I Clean / HT Airtec / Nicomac / K Pass |

|                                                          |                                                                                                             |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Normal Clean Room Doors                                  | NICOMAC/ ICLEAN/ MRC/ Klenzaid                                                                              |
| Bio-Safety Cabinets                                      | ESCO / New Air / Thermo Fisher                                                                              |
| Aluminium SGU/ DGU partition system and Doors            | Dorma, Bene, Jeb                                                                                            |
| Post Tension Tendon                                      | Tata, Usha Martin                                                                                           |
| PVC Vinyl Flooring                                       | Armstrong, LG, Tarkett                                                                                      |
| Gypsum Partition                                         | Gyproc, USG Boral, Hunter Douglas                                                                           |
| Carpet tile/ roll                                        | Welspun, Tarkett, Tuntex, Armstrong, Shaw                                                                   |
| Stone Polymer Composite Flooring                         | Welspun, Responsive, Tarkett                                                                                |
| Polyester Powder Coating                                 | Nerolac, Berger, J&N                                                                                        |
| Pre-coated GI sheet for Roofing                          | Jindal, Tata, Nippon.                                                                                       |
| PVC Rain Water Pipe & Fitting<br>IS:13592 Type A         | Finolex, Supreme, Plasto.                                                                                   |
| PVC Tiles                                                | Arm Strong, LG.                                                                                             |
| R.C.C. Door frames                                       | Ventura, Bothra, Mahalaxmi.                                                                                 |
| Sanitary fittings                                        | Jaquar, RoCa, Kohler.                                                                                       |
| SS Railing                                               | Metallica India, Stark steel Fabricator, Mobel Hardware, ICICH Industries, Essal.                           |
| Terrazzo tiles                                           | Mehtab, Nitco, Raj tiles, Bharat                                                                            |
| Tubular Section Windows                                  | M/S classic Engineers & Fabricator, Raipur, M/s JK Enterprises, Jaipur                                      |
| TMT Bars Fe-500 D                                        | SAIL, TISCO, RINL, JINDAL, STEEL & POWER LTD., JSW STEEL LTD.                                               |
| Water proofing APP Membrane/ Crack filler and crack seal | M/s. Asian Paints Limited, Nagpur- 440022.<br>M/s. Tiki Tar Donasa Pvt limited,, Bhandup (W) Mumbai- 400078 |

|                                                                                                                   |                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Wooden paneled door, shutter, wire mesh shutter and window wooden shutter                                         | M/s. M.P. Wood Product, M/s. A-1 Teak Products Pvt. Ltd, Indore.                                                                  |
| Fire resistant glass, Clear toughened glass DGU and laminated glass (sandwich type thermal insulation and safety) | SCHOTT PYRAN-S manufactured by FG Glass Industries Pvt. Ltd. 1204 A, Naman Midtown Elphinstone Road, Lower Parel, Mumbai- 400013. |

The materials which are not included in the above list shall be approved by the NIT approving authority.

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| Sr.no | Description | Unit | Quantity | Rate | Amount |
|-------|-------------|------|----------|------|--------|
|-------|-------------|------|----------|------|--------|

**SCHEDULE OF QUANTITY**

Name of work : Upgradation of Gymnastic hall at NCoE Sports Authority of India, Aurangabad. SH:- Construction of the foam pit/jumping pit.

SH : Gymnastic hall foam pit wall plastering, creation of new windows & misc. work.

| Item No. | Description                                                                                                                                                                                                                          | Unit | Quantity | Rate    | Amount   |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|---------|----------|
| 1        | 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. | cum  | 9.00     | 196.00  | 1764.00  |
| 2.1      | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :                                                                                   |      |          |         |          |
| 2.1.1    | 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)                                                                             | cum  | 3.00     | 8340.85 | 25023.00 |
| 3        | Centering and shuttering including strutting, propping etc. and removal of form work for :                                                                                                                                           |      |          |         |          |
| 3.1      | Retaining walls, return walls, thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.                                                                                          | sqm  | 18.00    | 842.50  | 15165.00 |
| 4        | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:                                                                                                                  |      |          |         |          |
| 4.1      | Cement mortar 1:6 ( 1 cement : 6 Coarse sand )                                                                                                                                                                                       | cum  | 1.00     | 7132.25 | 7132.00  |

| Sr.no | Description | Unit | Quantity | Rate | Amount |
|-------|-------------|------|----------|------|--------|
|-------|-------------|------|----------|------|--------|

| Item No. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Unit | Quantity | Rate    | Amount   |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|---------|----------|
| 5        | 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. |      |          |         |          |
| 5.1      | Granite stone slab of all colour and texture except black, Cherry/Ruby red                                                                                                                                                                                                                                                                                                                                                                                                                            |      |          |         |          |
| 5.1.1    | Area of slab upto 0.50 sqm                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | sqm  | 2.50     | 4170.70 | 10427.00 |
| 5.1.2    | Area of slab over 0.50 sqm                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | sqm  | 4.00     | 3848.70 | 15395.00 |
| 6        | Providing and fixing zinc alloyed (white powder coated) touch lock for uPVC sliding window with necessary screws etc. complete.                                                                                                                                                                                                                                                                                                                                                                       | nos  | 9.00     | 204.00  | 1836.00  |
| 7        | Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.                                                                                                                                                                                                                                                                                                                                                                      |      |          |         |          |
| 7.1      | Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides                                                                                                                                                                                                                                                                                                                                                                                                           | sqm  | 6.00     | 1133.55 | 6801.00  |
| 8        | 12 mm cement plaster of mix :                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |         |          |
| 8.1      | 1:6 (1 cement: 6 coarse sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | sqm  | 15.00    | 343.65  | 5155.00  |
| 9        | 18 mm cement plaster in two coats under layer 12 mm thick cement plaster (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster (1 cement : 6 fine sand).                                                                                                                                                                                                                                                                                                                     | sqm  | 130.00   | 518.55  | 67412.00 |

| Sr.no | Description | Unit | Quantity | Rate | Amount |
|-------|-------------|------|----------|------|--------|
|-------|-------------|------|----------|------|--------|

| Item No. | Description                                                                                                                                                                                                                                                                                                  | Unit | Quantity | Rate    | Amount   |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|---------|----------|
| 10       | 6 mm cement plaster of mix                                                                                                                                                                                                                                                                                   |      |          |         |          |
| 10.1     | 1:3 (1 cement : 3 fine sand)                                                                                                                                                                                                                                                                                 | sqm  | 250.00   | 300.45  | 75113.00 |
| 11       | Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer in - charge.                                                                                                                                                     |      |          |         |          |
| 11.1     | Nominal concrete 1:36 or richer mix (including equivalent design mix)                                                                                                                                                                                                                                        | cum  | 2.75     | 2434.25 | 6694.00  |
| 12       | Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.                                                                                                         |      |          |         |          |
| 12.1     | In cement mortar                                                                                                                                                                                                                                                                                             | cum  | 3.00     | 2060.20 | 6181.00  |
| 13       | 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. | cum  | 6.00     | 263.95  | 1584.00  |

| Sr.no | Description | Unit | Quantity | Rate | Amount |
|-------|-------------|------|----------|------|--------|
|-------|-------------|------|----------|------|--------|

| Item No. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Unit | Quantity | Rate   | Amount   |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|--------|----------|
| 14       | Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall smooth, rust free, straight. mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling. C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing,paneling and dash fasteners to be paid for separately) : |      |          |        |          |
| 14.1     | For portion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |        |          |
| 14.1.1   | Powder coated aluminium (minimum thickness of coating 50 micron)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | kg   | 50.00    | 530.90 | 26545.00 |
| 15       | Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall smooth, rust free, straight. mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling. C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing,paneling and dash fasteners to be paid for separately) : |      |          |        |          |

| Sr.no | Description | Unit | Quantity | Rate | Amount |
|-------|-------------|------|----------|------|--------|
|-------|-------------|------|----------|------|--------|

| Item No. | Description                                                                                                                                                                                                                                                                           | Unit | Quantity | Rate    | Amount    |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|---------|-----------|
| 15.1     | For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)                         |      |          |         |           |
| 15.1.1   | Powder coated aluminium (minimum thickness of coating 50 micron)                                                                                                                                                                                                                      | kg   | 60.00    | 634.45  | 38067.00  |
| 16       | Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as the architectural drawings and the directions of engineer-in-charge (Cost of aluminium snap beading shall be paid in basic item): |      |          |         |           |
| 16.1     | With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)                                                                                                                                                                                                            | sqm  | 10.00    | 1176.80 | 11768.00  |
|          |                                                                                                                                                                                                                                                                                       |      |          |         |           |
|          | Total                                                                                                                                                                                                                                                                                 |      |          |         | 322062.00 |
|          | GST correction factor (0.973) on DSR 2023                                                                                                                                                                                                                                             |      |          |         | 313367.00 |
|          | Add for approved cost Index at Aurangabad 110 w.e.f. 30.07.2026 hence $(110-100)/100 \times 100 = 10\%$ on DSR items                                                                                                                                                                  |      |          |         | 344704.00 |

**Assistant Engineer,  
ACSD,CPWD,Aurangabad**

| Sr.no | Description | Unit | Quantity | Rate | Amount |
|-------|-------------|------|----------|------|--------|
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| Sr.no | Description | Unit | Quantity | Rate | Amount |
|-------|-------------|------|----------|------|--------|
|-------|-------------|------|----------|------|--------|



### Central Public Works Department



**Division : Nasik Central Division, Nasik  
Nagpur**

**Zone: WZ-II,CPWD,**

**NIT No. 23/NIT/EE/Nasik/2026-27.**

**Name of Work:- Upgradation of Gymnastic hall at NCoE Sports Authority of India, Aurangabad.  
SH:- Construction of the foam pit/jumping pit.**

**SH : Gymnastic hall foam pit wall plastering, creation of new windows & misc. work.**

### **PRICE BID**

**Abstract of quoted the rates**

| Name of the Firm |                    |                |                                              |              |            |
|------------------|--------------------|----------------|----------------------------------------------|--------------|------------|
| Sr. No.          | Name of component  | Estimated cost | percentage above or below the estimated cost | % in Figures | Total Cost |
| 1                | Civil Work         | 3,44,704.00    |                                              |              | -          |
|                  | <b>GRAND TOTAL</b> |                |                                              |              | 0.00       |

**Assistant Engineer  
ACSD,CPWD,Aurangabad**

| Sr.no | Description | Unit | Quantity | Rate | Amount |
|-------|-------------|------|----------|------|--------|
|-------|-------------|------|----------|------|--------|

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