INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e- TENDERING FORMING PART OF NIT AND TO BE PUBLISHED ON WEB SITE

(Applicable for inviting open tenders)

The Executive Engineer, Mysore Division, CPWD, Nirmaan Bhawan, T. Narasipura Road, Siddharthanagar, Mysuru-570011. Phone No. 0821-2473938, Email id: (mys-eemycd@cpwd.gov.in/eecpwdmysore@gmail.com) on behalf of President of India invites online **Percentage rate bids** from approved and eligible contractors, as per Rules for Enlistment of Contractors in CPWD 2026 vide circular no. DG/Enlist.Rules-2026/Misc./01 of appropriate class enlisted with CPWD for the following work :

Sl. No	NIT No.	Name of work & Location	Estimated cost put to tender	Earnest money	Period of completion	Last date & time of submission of bid	Date &Time of opening of tender
1	2	3	4	5	6	7	8
1	52/MyCD/EE/e-tender/2026-27	Construction of office Building for STPI at Mysore. SH: Additional and other Miscellaneous Works.	Rs.46,70,229/-	Rs.93,405/-	5 (Five) Month	Upto 13.00 Hrs. on 16-11-2026	At 13.30 Hrs. on 16-11-2026

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

2. The contractor submitting the tender should read the schedule of quantities, additional conditions, additional specifications, particular specifications, CPWD- 6 and other terms and conditions given in the NIT and drawings. The bidder should also read the General Conditions of Contract for CPWD Works 2023 (Maintenance works) with up to date correction slips, which is available as Government of India Publications; however, provisions included in the tender document shall prevail over the provisions contained in the standard form. The contractor should also visit the site of work and acquaint himself with the site conditions before tendering. The bid document consisting of specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website https://etender.cpwd.gov.in/ or www.cpwd.gov.in free of cost.

3. The successful bidder shall be required to submit a **Performance Guarantee as below** within the period specified in Schedule F.
   (a) 5.00% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher).
   (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the performance guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount

4. GST, Work Contract Tax, Labour Cess etc. as applicable shall be borne by the contractor himself. The contractor shall quote his rates considering all such taxes and hence their quoted rates should be inclusive of all the tax components.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

5. Tenders with any condition including that of conditional rebates shall be rejected forthwith.

6. It will be obligatory on part of the Contractor/ Bidder to tender for and sign the tender documents for all the component parts. The department reserves right to accept tender in full or in part without assigning any reasons.

   But the bid can only be submitted **after deposition of original EMD in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission** and uploading the mandatory scanned documents such as Insurance Surety Bonds, Account Payee Demand draft or Banker's Cheque or Fixed Deposit Receipts or/ and Bank Guarantee (**for balance amount as prescribed**) from any of the Commercial Bank towards EMD (Drawn in favour of **Executive Engineer, CPWD, Mysore)** receipt for deposition of original EMD to division office of any Executive Engineer **(including NIT issuing EE),** CPWD and other documents as specified.

   A part of earnest money (EMD) is acceptable in the form of bank guarantee also. In such cases, 50% of earnest money or Rs.20 Lakh whichever is less, will have to be deposited in shape prescribed above and balance can be accepted in form of Bank Guarantee issued by any of commercial bank. The bank guarantee submitted as a part of Earnest Money shall be valid for a period of 90days or more from the last date of submission of bid which is to be scanned and uploaded by the intending bidders.

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

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

9. On opening date, the contractor can login and see the bid opening process. After opening of tenders he will receive the competitor's bid sheets.

10. Contractor can upload documents in the form of JPG format and/or PDF format.

11. Contractor must ensure to quote rate in the column(s) meant for quoting rate in figure appears in yellow colour and the moment rate is entered, it turns sky blue.
    In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).

    However, if a tenderer quotes nil rates against each item 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.

12. The bid submitted shall become invalid if:

    a. The bidder is found ineligible.
    b. The bidder does not deposit original EMD with division office of any Executive Engineer, CPWD.
    c. The bidder does not upload the scan copies of all the documents stipulated in bid document.
    d. 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.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

e. 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 /subhead in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

The bid shall be opened on due date and time as mentioned in the tender document.

13. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.

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

(i)	Insurance Surety Bond, Demand Draft/ Account Payee Banker's Cheque / FDR/ Bank Guarantee including e-Bank Guarantee of any commercial Bank against EMD. Drawn in favour of Executive Engineer, CPWD, Mysore.
(ii)	Copy of receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/AE/AAO), CPWD.
(iii)	GST registration Certificate, if already obtained by the bidder. If the bidder has not obtained GST registration as applicable, then shall scan and upload following under taking along with other bid documents. "If work is awarded to me, I/We shall obtain GST registration certificate, as applicable, within one month from the date of receipt of award letter or before release of any payment by the CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by CPWD or GST department in this regard.
(iv)	Copy of valid enlistment establishing approved and eligible contractors of CPWD.
(v)	The agency must upload the ERP training Certificate regarding successful completion of ERP training from ERP portal.

15. All modifications/addendums/corrigendum issued regarding this bidding process, shall be uploaded on website only and shall not be published in any Newspaper.

While submitting the revised bid, agency can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) in case of item rate tender and / or revise the percentage in case of percentage rate tender, within the last time and date of submission of bid as notified.

If any information furnished by the applicant is found incorrect at a later stage, he shall be liable to be debarred from tendering/taking up of works in CPWD. The department reserves the right to verify the particulars furnished by the applicant independently.

Executive Engineer,
CPWD, Mysore
(For and on behalf of President of India)

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

CPWD 6

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
NOTICE INVITING e- TENDER

Percentage rate bids are invited on behalf of President of India from approved and eligible category of CPWD contractors for the work of **Construction of office Building for STPI at Mysore. SH: Additional and other Miscellaneous Works.**

1. The enlistment of the contractors should be valid on the last date of submission of bids. **In case the last date of submission of 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 of **Rs.46,70,229/- (Rupees Forty Six Lakh Seventy Thousand Two Hundred and Twenty Nine Only).** This estimate, however, is given merely as a rough guide.

1.2 Criteria for Eligibility
The Contractors, who fulfill the following requirements, shall be eligible to apply.

(i) The enlistment of the CPWD contractors in appropriate class should be valid on the last date of submission of bids.

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

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

3. The time allowed for carrying out the work will be **5 (Five) Month** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.

4. The site for the work is available at **STPI Mysore, Karnataka.**

(i) The architectural drawings and structural drawings shall be made available in phased manner, as per requirement of the same as per approved programme of completion submitted by the contractor after award of work.

5. The bid document consisting of 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 website https://etender.cpwd.gov.in/CPWD or www.cpwd.gov.infree of cost.

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

7. While submitting the revised bid, contractor can revise the percentage rate of one or more schedule(s) any number of times but before last time and date of submission of bid as notified.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

8. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt (FDR) or Banker's Cheque or Bank Guarantee (for balance amount as prescribed) from any of the commercial bank (**Drawn in favour of Executive Engineer, CPWD, Mysore),** shall be scanned and uploaded to the e- tendering website within the period of bid submission.

   The original EMD should be deposited either in the office of Executive Engineer inviting bids or Division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of Earnest Money deposit to the bidder in a prescribed format (enclosed Annexure 'A') uploaded by tender inviting EE in the NIT.

   The receipt shall also be uploaded to the e-tendering web site by the intending bidder up to the specific bid submission date and time.

   A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs.20.00 lakh, whichever is less, will have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any scheduled bank having validity for a period of 90 (Ninety) Days from the last date of receipt of bid which is to be scanned and uploaded by the intending bidder.

   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. However, certified copy of all the scanned and uploaded documents shall have to be submitted physically by the lowest bidder within a week after opening of bid in the office of bid opening authority.

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

9. The bid submitted shall be opened at **13.30 Hrs. on 16-11-2026.**

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

    (i) The bidder is found ineligible.
    (ii) The bidder does not deposit original EMD with division office of any Executive Engineer, CPWD.
    (iii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.
    (iv) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority
    (v) If a tenderer quotes nil percentage in percentage rate tender or does not quote any percentage above / below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

11. The contractor, whose bid is accepted, will be required to furnish performance guarantee of 5% (Five Percent) of the bid amount 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 (FDR) 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 deposit by the contractor shall be forfeited automatically without any notice to the contractor. The Earnest money deposited along with the bid shall be returned after receiving the afore said 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 and Program Chart (Time and Progress) within the period specified in Schedule F.

12. **The description of the work is as follows:**

    "Construction of office Building for STPI at Mysore. SH: Additional and other Miscellaneous Works.".

    The intending bidders are required to update their profile in CPWD e-tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile / uploading tender can be resolved through the concerned Executive Engineer / Assistant Engineer (Phone No. 0821-2473649, email ID eecpwdmysore@gmail.com / mys-eemycd@cpwd.gov.in) or ERP help line No.18001803286 or e – mail Id cpwd.support@techmahindra.com The tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest.

    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.

    Intending bidders shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidder shall be responsible for arranging and maintaining at their 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.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

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

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

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

16. GST or any other tax applicable in respect of inputs procured by the contractor for this contract shall be payable by the Contractor and Government will not entertain any claim whatsoever in respect of the same. However, component of GST at time of supply of service (as provided in CGST Act 2017) provided by the contract shall be varied if different from that applicable on the last date of receipt of tender including extension if any.

17. 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 gazette officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

18. 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 previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.

19. The bid for the works shall remain open for acceptance for a period of **30(Thirty)** days from the due date of opening of bids. Further,

    (i) If any tenderer withdraws his tender or makes any modification in the terms and 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 and 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 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.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

20. 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:-

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

ii. Standard CPWD Form 7 **GCC 2023 for (Maintenance works) with up to date correction slips** for CPWD works with Amendments/Modifications upto last date of submission of Tender.

20. **For Bids :**

20.1.1 The Executive Engineer in charge will call bids for the work.

20.1.2 The bid document will include components: CPWD-6, CPWD-7 including schedule A to F for major component of the work, Standard General Conditions of Contract for CPWD 2023 as amended/modified up to the date of submission of bid and Schedule of quantities of major component of work.

20.1.3 The eligible bidders shall quote percentage rates for schedule, above or below to two places of decimal only.

20.1.4 After acceptance of the bid by competent authority, the EE in charge of the work shall issue letter of award on behalf of the President of India.

20.1.5 Entire work shall be executed under one agreement.

20.1.6 Security Deposit will be worked out for the work as provided under this bid document.

20.1.7 Running payment shall be made by The EE in charge of the work.

20.1.8 The work shall be treated as complete when all the works are complete. The completion certificate of the work shall be recorded by Engineer-in-charge.

20.1.9 Final bill of whole work shall be finalized and paid by the EE in charge of the work.

20.1.10 All the Amendments/Modifications to GCC 2023 shall also be read by the tenderer along with tender documents. Further any Amendments/Modifications to GCC 2023 issued till the last date of submission of tender shall also be followed.

21. The intending bidders are required to update their profile in CPWD e-tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile / uploading tender can be resolved through the concerned Executive Engineer / Assistant Engineer (Phone No. 0821-2473649, email ID eecpwdmysore@gmail.com) or ERP help line no. 18001803286 or e-mail ID cpwd.support@techmahindra.com. The e-tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest.

Executive Engineer,
CPWD, Mysore
(For and on behalf of President of India)

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

Receipt of deposition of original EMD

(Receipt No. …….. / date ……)

1. Name of work …… **Construction of office Building for STPI at Mysore. SH: Additional and other Miscellaneous Works..**

2. NIT No. …….. **52/MyCD/EE/e-tender/2026-27**

Estimated cost …… **Rs.46,70,229/-**

3. Amount of Earnest Money Deposit …….. **Rs.93,405/-**

4. Last date of submission of bid …….. **16-11-2026 upto 13.00 Hours**

1. Name of Contractor ……#

2. Form of EMD ……#

3. Amount of Earnest Money Deposit …….. #

4. Date of submission of EMD …….. #

5. Email ID of EMD receiving officer……...#

6. Office Phone / Mobile Whatsapp number ……#

Signature, Name and Designation of EMD
receiving Officer
(EE/AE(P)/AE/AAO)
Along with Office Stamp

(#**To be filled by EMD receiving EE mandatory otherwise EMD will not be accepted**)

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

SECTION – I
BRIEF PARTICULARS OF THE WORK

1. Salient details of the work for which bids invited are as under:

Sl. No.	Name of Work	Estimated Cost	Period of completion
1	**"Construction of office Building for STPI at Mysore. SH: Additional and other Miscellaneous Works.."**	Rs.46,70,229/-	5 Month

2. The work is situated at **STPI Mysore, Karnataka,** under jurisdiction of EE, CPWD, Mysore.

3. **Features**:

The following provisions have been considered in this estimate: -

- Earthwork in excavation for construction of the flag hoisting platform.
- (PCC) of mix 1:5:10 as bed concrete for the raft of the flag hoisting platform.
- (RCC) of mix 1:1.5:3 for the platform raft and top slab, including reinforcement, centering, shuttering works.
- Providing AAC block masonry up to 0.60 m height above the terrace slab level for enclosing the terrace kitchen.
- Providing and fabricating MS framework for fixing ACP cladding to enclose the terrace kitchen and for providing MS grating to electrical rooms.
- Providing and fixing 19 mm thick plywood cabinet shutters in the terrace kitchen, complete with laminate finish, hardware, fittings, and fixtures.
- Providing and fixing factory-made flush door shutters with approved quality fittings, fixtures, locks, handles, and all accessories.
- Dismantling the existing flooring and providing polished granite flooring in the entrance lobby.
- Providing and fixing galvanized iron (GI) sheet roofing over fabricated steel framework for the STP shed .
- Providing and fixing stainless steel (SS 304 grade) railings for first-floor balconies and around the flag hoisting platform.Scraping the existing paint and providing wall finishing to electrical rooms with 1 mm thick wall putty, primer, and two or more coats of premium acrylic emulsion paint.
- Providing and fixing a table-top wash basin in the terrace kitchen, complete with CP brass fittings, sanitary fixtures, waste coupling, bottle trap, angle valves, and CPVC water supply and UPVC waste pipelines.
- Providing and fixing powder-coated aluminium work for doors and shutters, including filling the gap between the existing glazing frame and walls with matching aluminium sections and necessary sealant.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

- Supplying and spreading 40 mm nominal size graded stone aggregate to a compacted thickness of 100 mm over the prepared surface inside the DG set yard.
- Providing edge moulding/chamfering for vitrified tile flooring.
- Cement concrete block masonry for construction of the flag hoisting platform, complete with mortar, curing, and finishing.
- Removing the existing automatic sliding glass door and refixing the same at the front entrance, including all accessories, alignment, testing, and commissioning.
- Providing, supplying, and placing outdoor terrace cafeteria furniture comprising 20 tables and 80 chairs of approved design, complete and ready for use.
- Providing and fixing acrylic signage boards of various sizes at the front entrance and lobby, complete with MS tube frame (where required), studs, fasteners, lettering, and all accessories.
- Dismantling the existing false ceiling and providing and fixing an aluminium baffle false ceiling at the entrance, complete with suspension system, supporting framework, and all necessary accessories.
- Providing and fixing 4 mm thick ACP cladding over aluminium/MS supporting framework above the 0.60 m high AAC block masonry for enclosing the sides of the terrace kitchen, complete with framing members, cleats, fasteners, sealant, and all accessories.
- Construction of 3m x3m storage room with 300mm X 300mm RCC Column, 230mm X 300mm plinth & roof beams with GI sheet Roofing.
- Strip marking for parking basement.
- Crystalline water proofing for STP tank.

4. Work shall be executed according to General Conditions of Contract for Central P.W.D. Works available separately at printer's outlets. The bidder may obtain the address of the outlets from the Executive Engineer.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

SECTION – II

INFORMATION AND INSTRUCTIONS FOR BIDDERS (REGARDING FILLING AND SUBMISSION OF VARIOUS BID DOCUMENTS SPECIFIED HERE IN AFTER)

1.0 GENERAL:

1.1 All information called for in the enclosed forms should be furnished against the relevant columns in the forms. If for any reason, information is furnished on a separate sheet, this fact should be mentioned against the relevant column. Even if no information is to be provided in a column, a "nil" or "no such case" entry should be made in that column. If any particulars / query is not applicable in case of the bidder, it should be stated as "not applicable". The bidders are cautioned that not giving complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms or deliberately suppressing the information may result in the bidder being summarily disqualified. Bids made in any other method than specified-tendering process and those received late will not be entertained.

1.2 References, information and certificates from the respective clients certifying suitability, technical knowledge or capability of the tenderer should be signed by an officer not below the rank of Executive Engineer or equivalent.

1.3 The bidder may furnish any additional information which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. He is, however, advised not to furnish superfluous information.

2.0 Definitions

2.1 In this document the following words and expressions have the meaning hereby assigned to them:

2.2 **Employer**: Means the President of India, acting through the Executive Engineer, CPWD, Mysore.

2.3 **Contractor/ Bidder/ Agency/ Firm/ Applicant**: Means the individual, proprietary firm, firm in partnership, limited company private or public or corporation duly enlisted as approved and eligible contractor of CPWD in appropriate class.

3.0 FINAL DECISION MAKING AUTHORITY

The Employer reserves the right to accept or reject any bid and to annul the process and reject all bids at any time, without assigning any reason or incurring any liability to the bidders.

4.0 SCOPE OF WORK

The details of the work given in Section-I are provisional. They are liable to change and must be considered only as advance information to assist the bidder.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

5.0 SITE VISIT

The bidder is advised to visit the site of work, at his own cost, and examine it and its surroundings to himself collect all information that he considers necessary for proper assessment of the prospective assignment.

6.0 CRITERIA FOR ELIGIBILITY

The Contractors, who fulfill the following requirements, shall be eligible to apply.

6.1 Criteria for eligibility

(i) The enlistment of the contractors with CPWD in appropriate class and category should be valid on the last date of submission of bids.

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

7.0 AWARD CRITERIA

7.1 The employer reserves the right, without being liable for any damages or obligation to inform the bidder, to:

(a) Amend the scope of work and value of contract.

(b) Reject any or all the applications without assigning any reason.

7.2 Any effort on the part of the bidder or his agent to exercise influence or to pressurize the employer would result in rejection of his bid. Canvassing of any kind is prohibited.

Executive Engineer
CPWD, Mysore.
(For and on behalf of President of India)

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

CPWD 7

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

Percentage Rate Tender & Contract for Works

Tender for the work of **: "Construction of office Building for STPI at Mysore. SH: Additional and other Miscellaneous Works.."**

i. To be submitted / uploaded online upto **13.00 Hrs. on 16-11-2026** through website https://etender.cpwd.gov.in

ii. To be opened online in the presence of tenderers who may be present at **13.30Hrs. on 16-11-2026** in the office of Executive Engineer, Mysore Central Division, CPWD, Mysore.

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.

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

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

A copy of earnest money deposit receipt of prescribed amount deposited in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt (FDR), Banker's Cheque or Bank Guarantee (as prescribed) issued by a Commercial bank is scanned and uploaded (strike out as the case may be).

If I / We, fail to furnish the prescribed performance guarantee within prescribed period, I / We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I / We fail to commence work as specified, I / We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said performance guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to 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	Nil	
O	Nil	
C	Nil	AE(P) / EE

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

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

I/We hereby declare that I/we shall treat the tender documents, drawings and other records connected with the work as Secret / Confidential documents and shall not communicate information / derived therefrom to any person other than a person to whom I/we/am/are ~~may~~ authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated:

Signature of Contractor

Witness:

Postal Address

Address :

Occupation :

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

Dated:

Signature …*……

Designation *…….

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

PROFORMA OF SCHEDULES

SCHEDULE 'A'
Schedule of quantities – **Page No. 54 - 65**

SCHEDULE 'D'
Extra schedule for specific requirements/ documents for the work, if any.

1. Special conditions - Page No.21-35
2. Annexures - Page No.37-39
   Form of Bank Guarantee for performance Guarantee / Security Deposit/ Guarantee bond for water proofing.

SCHEDULE 'E' **(A) Reference to General Conditions of contract**	General conditions of contract **2023** (**Maintenance works**) with up to date correction slips for CPWD works contract amended upto last date of submission of bid.

Name of Work	**Construction of office Building for STPI at Mysore. SH: Additional and other Miscellaneous Works.**
Estimated cost of work	**Rs.46,70,229/-**
(i) Earnest Money	**Rs.93,405/-**
(ii) Performance Guarantee	(a) 5.00% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher). (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the performance guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.
(iii) Security Deposit	2.5% of tendered value

SCHEDULE 'F'
GENERAL RULES & DIRECTIONS:

Officer inviting tender	**Executive Engineer** **Mysuru Central Division, CPWD, Mysuru** **Or Successor thereof**
Definitions:	
2(vi) Engineer-in-Charge	**Executive Engineer** **Mysuru Central Division, CPWD, Mysuru** **Or Successor thereof**
2(viii) Accepting Authority	**Executive Engineer** **Mysuru Central Division, CPWD, Mysuru** **Or Successor thereof**
2(x) Percentage on cost of materials and Labour to cover all over-heads and profits	**15%**
2(x)(i) Standard Schedule of Rates	**Delhi Schedule of Rates 2023 (with prevailing Cost Index 16.25% applicable for Mysore) with modified / amended up to last date of submission of bid and Market Rates**
2(xii) Department	**Central Public Works Department.**

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

9(ii) Standard CPWD Contract Form:	**CPWD Form 7 & GCC 2023 (Maintenance Works) , as modified and corrected upto previous day of the last date of submission of the bid.**
Clause 1 (i) Time allowed for submission of Performance Guarantee, Programme chart (Time and progress) and applicable labour Licenses, registration with EPFO, ESIC and BOCW Welfare board or proof of applying thereof from the date of issue of letter of acceptance. (ii) Maximum allowable extension with late Fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above	**7 (Seven) days** **3 (Three) days.**
Clause 2 Authority for fixing compensation under clause 2	Superintending Engineer, Mysuru Central Circle, CPWD, Mysuru Or Successor thereof
Clause 2A	**Yes**
Clause 5 Number of days from the date of issue of letter of acceptance for reckoning date of start Mile stone(s) as per table given below:-	**10 (Ten)** days or date of handing over of site, whichever is later.

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

S.No.	Description of Milestone (physical)	Time allowed (from date of start)	Amount to be withheld in case of non achievement of milestone
1.	1/4th (of the whole work)	1/4th (of the whole work)	In the event of not achieving the necessary progress as assessed from the running payments, 1% of the tendered value of work will be withheld for failure of each mile stone.
2.	1/2 (of the whole work)	1/2 (of the whole work)	
3.	3/4th (of the whole work)	3/4th (of the whole work)	
4.	Full	Full	

Note: The withhold milestone will only be released when subsequent milestone is achieved within the specified time.
The withheld amount will not be interest bearing.
For EOT and Rescheduling of milestones, provisions as per GCC shall be followed. The Engineer-in-charge may release withheld amount on account of non achievement of milestone(s) against Bank Guarantee/FDR of an equivalent amount valid upto stipulated date of completion (to be extended further, if required) issued by a commercial bank**.**

Time allowed for execution of work : 5 (Five) Month

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

Authority to decide:

(i)	**To convey the decision of shifting of Mile stone and Extension of time.**	**Executive Engineer, CPWD, Mysore or his successor thereof.**
(ii)	**To decide Rescheduling of mile stones and extension of time.**	**Superintending Engineer, CPWD, Mysore or his successor thereof**
(iii)	**Shifting of date of start in case of delay in handing over of site.**	**Superintending Engineer, CPWD, Mysore or his successor thereof**

Clause 5 Schedule of handing over of site

Part	Portion of site	Description	Time period for handing over reckoned from date of issue of letter of intent
Part A	Portion without any hindrance	100% of site	10 days from the date of issue of acceptance letter
Part B	Portions with encumbrances	---	---
Part C	Portions dependent on work of other agencies	---	---

Clause 6 (Computerized Measurement Book) /
Electronic Measurement Book (EMB) : a) Mode of Measurement : CMB / ~~EMB~~.
b) Measurement to be recorded by contractor ~~or jointly by department and contractor.~~

Clause 7 Gross work to be done together with net payment /adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment.	**Rs. 9.34 Lakhs**
Clause 7A Whether Clause 7A shall be applicable	**Yes Applicable** (DG/CON/Maintenance 2023/13 Dt. 31.01.2025)
CLAUSE-7B: **Whether clause 7B as per DG/CON/334 dated 30.08.2022 shall be applicable**	**Yes, applicable**

Clause 10A

List of testing equipment to be Provided by the contractor at site lab	Refer Page Nos.**44 and 45** as attached in NIT document.

Clause 10 B (ii)	**:**	Mobilization Advance	**Not Applicable**
Clause 10C	**:**	Component of labour expressed as Percent of value of work	
Clause 10CA	**:**		
Clause 10CC	**:**		

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

Clause 11

Specifications to be followed : **CPWD specifications 2019 Vol I &II (with upto date correction slips) up to the last date of submission/ uploading of tender.**

Clause 12

Type of work : Maintenance work

Maximum percentage of quantity of items of work to be Refer below
The completion cost of maintenance work shall not exceed 1.5 times of the contract amount. Completion cost includes gross amount of work done, Extra item(s), Deviation(s), Escalation amount admissible as per agreement conditions.

12.2 (C)	Maximum percentage of quantity of items of work to be Executed beyond which rates are to be determined in accordance With Clause	Refer below

Deviation Limit beyond which clauses
12.2 (C) shall apply for all items of building work : No limit

Clause 16

Competent Authority for deciding Reduced rates : **Superintending Engineer Mysore, CPWD, Mysore.**

Clause 18

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

Sl. No.	Machinery and T & P	Min. Requirement
1	Concrete mixer	As per requirement
2	Welding machine 400 Ampere	
3	Needle Vibrator	
4	Steel scaffolding and staging materials	
5	Reinforcement cutting & Bending machines	
6	Screener for coarse sand and fine sand	
7	Centrifugal mono block water pump minimum capacity 2 HP	
8	Pressure gun/pump	
9	Auto level & staff	
10	JCB, Excavator, Dumper, Tipper	
11	Water tanker (minimum capacity of 5000 lts)	
12	Steel shuttering with necessary steel props	
13	Semiautomatic pavement concrete paver	
14	Any other machinery required for completion of the work as per decision of Engineer-in-charge.	

Clause 19: Modified provision.

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. The contractor shall also obtain a valid license under the said Act before the commencement of the work, and continue to have a valid license until its completion

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

Clause 19C, 19D,19G,19K Applicable

Clause 19C authority to decide penalty for each default:	Executive Engineer, of respective discipline or any authority as decided by the CPWD Directorate.
Clause 19D authority to decide penalty for each default	
Clause 19G authority to decide penalty for each default	
Clause 19K authority to decide penalty for each default:	

Clause 19C		
Penalty for each default	:	Rs.1000/-
Clause 19D		
Penalty for each default	:	Rs.2500/-
Clause 19G		
Penalty for each default	:	Rs.2500/-
Enhanced penalty per day for Continues default	:	Rs.5000/-
Clause 19K		
Penalty for each default	:	Rs.200/-

Clause 25

Conciliator	ADG, CPWD, Bangalore or successor thereof
Arbitrator appointing authority	Superintending Engineer, CPWD, Mysore or successor thereof
Place of Arbitration	Bangalore or as decided by the Arbitration appointing authority

Clause 32

Requirement of Technical Representative(s) and recovery Rate

Sl. No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical/ Technical Representative)	Minimum Experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 32((i)	
1	Graduate Engineer or	Civil	Project Manager cum planning /quality / site / Billing Engineer	2 years	1 no	Rs.15000/-	Rupees Fifteen thousand only
	Diploma Engineer	Civil		5 years	1 no	Rs.15000/-	

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

Diploma holder with minimum 5 years relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

The contractor shall submit a certificate of such employment of the technical representative(s) (in the form of copy of Form-16 or CPF deduction issued to the Engineers employed by him) along with every account bill/final bill and shall produce evidence if at any times so required by the Engineer-in-charge.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

Clause 38

(i)	(a)	Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates	**DSR 2023 with amendments/ Correction slips up to last date of submission of Tender.**
(ii)	**Variations permissible on theoretical quantities:**		
	(a)	Cement	
		For works with estimated cost put to tender not more than Rs.25 lakh For works with estimated cost put to tender more than Rs.25 lakh	3% plus/minus 2% plus/minus .
	(b)	Bitumen for all works	2.5% (Two decimal five percent) plus only and Nil on minus side.
	(c)	Steel Reinforcement and structural steel sections for each diameter, section and category	2% (Two percent) plus / minus
	(d)	All other materials	Nil

Clause-41

The security deposit of the work shall be refunded if no labour complaint has been received from the labour officer till the due date of its payment as per clause 17 of applicable GCC. If a labour complaint is received during this period, the Engineer-in-charge shall, after issue of notice in this regard to the contractor, deduct the amount required to settle the complaint from his security deposit and refund the balance amount.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

SPECIAL CONDITIONS

1. The contractor shall execute the whole work in the most substantial and workman like manner in strict accordance with the specifications, approved design, drawings, particular specifications, special conditions, additional conditions and instructions of the Engineer-in-Charge.

2. Before tendering, the contractor shall inspect the site of work and shall fully acquaint himself about the conditions prevailing at site, availability of materials, availability of land and suitable location for construction of godowns, stores and camp, transport facilities, the extent of leads and lifts involved in execution of work.

3. The contractor shall at his own expense and risk arrange land for accommodation of labour, setting up of office, storage of materials, erection of temporary workshops, construction of approach roads to the site of work, including land required for carrying out of all jobs connected with the completion of the work. However, the departmental land to the extent available may be allowed to be used for these purposes free of rent without accepting any responsibility for the delay, if any, on this account. The contractor shall have to abide by the regulations of the authorities concerned and the directions of the Engineer-in-Charge for use of land available at the site of work. If it becomes necessary during construction to remove or shift the stored materials, shed, workshop, access roads, etc., to facilitate execution of the work included in this agreement or any other work by any other agency, the contractor shall remove or shift these facilities as directed by the Engineer-in-Charge and no claim whatsoever shall be entertained on this account.

   It shall be deemed that the contractor has satisfied himself as to the nature and location of the work, transport facilities, availability of land for setting up of camp, etc. The department will bear no responsibility for lack of such knowledge and the consequences thereof.

4. The contractor shall have to make approaches to the site, if so required and keep them in good condition for transportation of labour and materials as well as inspection of works by the Engineer-in-Charge. Nothing extra shall be paid on this account.

5. The contractor shall carry out true and proper setting out of the work in co-ordination with the Engineer-in-Charge or his authorized representatives and shall be responsible for the correctness of the positions, levels, dimensions and alignments of all parts of the structure. If at any time during the progress of the work any error appears or arises in the position, level, dimensions or alignment of any part of the work, the contractor on being asked to do so by the Engineer-in-Charge, shall rectify such error to the entire satisfaction of Engineer-in-charge. The checking by the Engineer-in-Charge or his authorized representatives shall not relieve the contractor of his responsibility for the correctness of any setting out of any line or level. The contractor shall carefully protect and preserve all bench marks, pegs and pillars provided for setting out of works.

6. All setting out activities concerning establishment of bench marks, theodolite stations, center line pillars, etc. including all material, tools, plants, equipments, theodolite and all other instruments, labour, etc. required for performing all the functions necessary and ancillary thereto at the commencement of the work, during the progress of the work and till the completion of the work shall be carried out by the contractor and nothing extra shall be paid on this account.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

7. The contractor shall at his own cost submit samples of all materials sufficiently in advance and obtain approval of Engineer-in-Charge. The materials to be used in actual execution of the work shall strictly conform to the quality of samples approved by the Engineer-in-Charge and nothing extra shall be paid on this account. The acceptance of any sample or material on inspection shall not be a bar to its subsequent rejection, if found defective.

8. The contractor shall at his cost, make all arrangements and shall provide necessary facilities as the Engineer-in-Charge may require for collecting, preparing, packing, forwarding and transportation of the required number of samples for tests and for analysis at such time and to such places as directed by the Engineer-in-Charge. Nothing extra shall be paid for the above operations including the cost of materials required for tests and analysis. Testing charges, if any, will be borne by the department if the test passes. In case it fails, the same shall be borne by the contractor.

9. The necessary tests shall be conducted in the laboratory approved by the Engineer-in-Charge (NABL/ NABH accredited laboratories or Government laboratories). The samples for carrying out all or any of the tests shall be collected by the Engineer-in-charge or on his behalf by any other officer of CPWD. The contractor or his authorized representative shall associate himself in collection, preparation, packing and forwarding of such samples for the prescribed tests and analysis. In case the contractor or his authorized representative is not present or does not associate himself in the aforesaid operation the results of such tests and consequences thereon shall be binding on the contractor.

10. Materials used on work without prior inspection and testing (where testing is necessary) and without approval of the Engineer-in-Charge are liable to be considered unauthorized, defective and not acceptable. The Engineer-in-Charge shall have full powers to require the removal of any or all of the materials brought to site by contractor which are not in accordance with the contract specifications or do not conform, in character or quality to the samples approved by the Engineer-in-Charge. In case of default on the part of the contractor in removing rejected materials, the Engineer-in-Charge shall be at liberty to have them removed at the risk and cost of the contractor.

11. The contractor shall make his own arrangement of water required for execution of work and get the water tested at his own cost with regard to its suitability for use in the works and get written approval from the Engineer-in-Charge before he proceeds with the use of same for execution of work.

12. The work shall be carried out in such a manner so as not to interfere or adversely affect or disturb other works being executed by other agencies, if any.

13. Any damage done by the contractor to any existing works or work being executed by other agencies shall be made good by him at his own cost.

14. The work shall be carried out in the manner complying in all respects with the requirement of relevant rules and regulations of the local bodies under the jurisdiction of which the work is to be executed and nothing extra shall be paid on this account.

15. For completing the work in time, the contractor may have to work in two or more shifts and no claims whatsoever shall be entertained on this account, notwithstanding the fact that the contractor will have to pay to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour regulations and the agreement entered upon and/or extra amount for any other reasons.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

16. The contractor will have to make his own arrangement for obtaining electricity connection from the State Electricity Board and make necessary payment directly to the department concerned and/or install generators at the site of work, if required and nothing extra whatsoever will be payable on this account.

17. The drawings for the work issued by the Engineer-in-Charge during execution of work shall at all times be properly correlated before executing any work and no claim whatsoever shall be entertained for discrepancies in the drawings.

18. The contractor shall maintain in good condition all work executed till the completion of entire work entrusted to the contractor under this contract.

19. No payment shall be made to the contractor for damage caused by rain, whatsoever during the execution of works and any damage to the work on this account shall have to be made good by the contractor at his own cost.

20. The rates for all items of work, unless clearly specified otherwise, shall include the cost of all labour, materials, de-watering required, if any, and other inputs involved in the execution of the items.

21. Unless otherwise provided in the schedule of quantities, the percentage rates tendered by the contractor shall be all inclusive and shall apply to all heights, depths, leads and lifts, except for additional height in centring and shuttering over a height of 3.5m.

22. No claim whatsoever for idle labour, additional establishments, costs of hire and labour charges for tools and plants etc, would be entertained under any circumstances.

23. For the safety of all labour directly or indirectly employed in the work the contractors shall, in addition to the provision of CPWD safety code and directions of the Engineer-in-Charge, make all arrangements to provide facility as per the provision of Indian Standard Specifications (Codes) listed below & nothing extra shall be paid on this account.

1.	IS 3696 Part I	Safety Code for scaffolds and ladders.
2.	IS 3696 Part II	Safety Code for scaffolds and ladders Part II ladders.
3.	IS 764	Safety Code for excavation work.
4.	IS 4138	Safety Code for working in compressed air.
5.	IS 7293	Safety Code for working with construction machinery.
6.	IS 7969	Safety Code for storage and handling of building materials.
7.	IS 4130	Safety code for demolition of buildings.

24. The contractor shall take all precautions to avoid all accidents by exhibiting necessary caution boards and by providing red flags, red lights and barriers. The contractor shall be responsible for any accident at the site of work and consequences thereof.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

25. Royalty if any payable and all other incidental expenditure shall have to be paid by the contractor on all the boulders, metal shingle, earth, sand bajri, etc. collected by him for the execution of the work, direct to the concerned Revenue Authority of the State or Central Govt. and the amount paid shall not be reimbursed in any form whatsoever.

26. Other agencies working at site will also simultaneously execute the works entrusted to them and to facilitate their working, the contractor shall make necessary provisions e.g. holes, openings, etc. for laying/burying pipes, cables, conduits, clamps, hooks, etc. as may be required from time to time. The contractor shall extend full co-operation to other agencies for smooth execution of works by other agencies. The final finishing of the work is to be executed in co-ordination with other agencies as directed by the Engineer-in-Charge.

27. On account of security considerations, there could be some restrictions on the working hours, movement of vehicles for transportation of materials and location of labour camp. The contractor shall be bound to follow all such restrictions and adjust the programme for execution of work accordingly. Nothing extra shall be paid on this account.

28. Stacking of materials and excavated earth shall be done as per the directions of the Engineer-in-Charge. Double handling of materials or excavated earth if required shall have to be done by the contractor at his own cost.

29. In case of construction joints, the cost of applying cement slurry over the concrete surface before fresh concrete is laid as per para 5.4.4.4. of CPWD Specification 2009 is included in the relevant items of the schedule of quantities and nothing extra shall be paid on this account.

30. Unless otherwise specified in the schedule of quantities the rates for all items of work shall be considered as inclusive of working in or under water and/or liquid mud and/or foul conditions including pumping or bailing out liquid mud or water accumulated in excavations during the progress of the work from springs, tidal or river seepage, rain, broken water mains or drains and seepage from subsoil aquifer.

31. Water supply pipe lines shall not be embedded in floor. PVC pipe casing of next bigger diameter shall be provided in full width of wall (including finishing) when GI pipe line crosses the wall, to protect it from corrosion. The gap between the PVC and GI pipes shall be sealed at the ends with polysulphide or other suitable sealant. Nothing extra shall be paid on this account.

32. Stone slabs for risers and treads of staircases and steps, where specified, shall be of single piece of required width and length. No joint shall be permitted. The holes of required shape and size shall be drilled in the single piece stone slabs of treads for fixing balustrades wherever necessary. Pattern of stone slabs for landings of staircase shall be decided by the Engineer-in-Charge. Nothing extra is payable on this account.

33. Stone slabs used for treads of staircase shall be provided with three machine cut grooves of size 3mm wide x 2mm deep, 25 mm apart near the nosing of the steps. Nothing extra is payable on this account.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

34. To protect the flooring and steps of staircases during construction and until the completion of the work, finished/semi-finished surface of flooring shall be covered with a thick layer of plaster of Paris and this layer shall be maintained in good condition till its removal. The removal of the layer of plaster of Paris and cleaning the surface shall be done as and when decided by the Engineer-in-Charge. After the removal of plaster of Paris and cleaning of the surface, damage, if any, shall have to be made good by the contractor. No extra payment shall be made for protection with plaster of Paris, removal of plaster of Paris, cleaning and making good the damages.

35. The steel work in railing includes fish tailing of the section to be embedded in concrete and fixing the same.

36. In RCC work, to avoid displacement of reinforcement bars in any direction and to ensure proper cover, only factory made round / square type cover blocks should be used.

37. Nothing extra will be paid for centering, shuttering, reinforcement and RCC work for sloped slabs and beams, unless otherwise specified in the item.

38. Steel bars shall be stored about 30 to 45 cms above ground and where the storage is for more than 3 months, a coat of cement wash shall be given to the bars. Nothing extra shall be paid towards cost of application of cement wash.

39. Some restrictions may be imposed by the State Government on quarrying of sand, stones etc. from certain areas. For timely completion of work the contractor shall have to bring such materials from other quarries located elsewhere.

40. In case of any difference in the Hindi version and English version in any of the condition of contract, English version shall prevail.

41. It is the responsibility of the contractor to obtain necessary no objection certificate, wherever required for approval of drawings, water supply, sanitary connection, electricity connection, completion certificate, occupation certificate, clearance from fire department etc. from Central Govt./ State Govt./ Development Authority / Municipal Corporation / Zilla Parishad / Local Bodies/ Village Panchayat or any other organization as applicable.

    Nothing extra shall be paid to the contractor for obtaining such sanctions / approval / clearance from the above bodies. However, necessary requisition and letters required in this regard shall be given by the Department. The required fees and other statutory deposits as may be prescribed by the above bodies shall be borne by the Department.

42. Concrete mixers to be used on the work shall have arrangement for weighing water and controlling water cement ratio.

43. If the actual weight of reinforcement and structural steel to be used in the work differs from standard tables the following procedure shall be followed for arriving at the quantity for payment.

    (a) If the actual weight is more than standard weight only standard weight shall be considered for payment.

    (b) If the actual weight is less than standard weight but within the permissible variation, only actual weight shall be considered for payment.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

44. The contractor shall arrange to keep the premises neat and clean. The rubbish/malba and unserviceable materials shall be removed on day to day basis.

45. BAR CHART

45.1 The contractor shall give scientifically analyzed detailed bar chart for all the activities of the work within 15 days from the date of issue of letter of acceptance of tender. The bar chart shall be prepared covering the physical milestones as envisaged in the tender documents. Nothing extra shall be paid for preparation/modification of bar chart.

45.2 While preparing the above detailed bar chart, effort shall be made to take all possible items of work simultaneously.

45.3 Separate bar chart should be prepared exclusively for procurement of materials. The detailed bar chart should distinctly bifurcate the items of work and of materials required for the execution of that item. Both should not be clubbed together. For example, for internal plumbing work the bar chart should show the procurement of pipe and other fittings with start and finish dates and items of work with start and finish dates separately. Both items should be interlinked proceeding and succeeding activity. The bar chart not indicating procurement of items separately will not be accepted.

45.4 Similarly bar chart should be prepared separately for arrangement of labour.

45.5 The bar chart so finalized and accepted by department should be got reviewed by the department, once in a month regularly. Modified / revised bar chart shall be prepared in the event of not adhering to the targets mentioned in the earlier bar chart. The contractor shall augment additional resources, materials and man power for achieving the targets, so submitted in the revised bar chart.

46. **Procurement of centering and shuttering**

The steel centering and shuttering and other connected materials required for an area of <u>1000 sqm</u> shall be made available within 30 days of stipulated date of start of work. The material so brought shall not be removed from the site of work, unless connected works are completed and approval of Engineer-in-Charge is obtained. The decision of the Engineer-in- Charge in this regard shall be final and binding upon the contractor.

47 The contractor shall bring ready mix concrete (RMC) from any reputed manufacturer such as Ultratech, ACC, Lafarge as approved by the engineer-in-charge. Only 43 grade OPC conforming to IS: 8112 from any reputed manufacturer such as Ultratech, ACC, Jaypee, Vikram, Shree Cement, Birla Jute, CCI, India Cement, Zuari shall be used for production of RMC. The mix design with the ingredients of concrete to be used by the manufacturer of RMC shall be obtained from a recognized laboratory approved by the engineer-in-charge. The cost of samples, packaging, transportation, design and testing charges etc. shall be borne by the contractor. For any change in the quality and source of ingredients of a particular concrete, for which mix was designed and approved earlier, the mix has to be redesigned and approval obtained again. The engineer-in-charge shall have the right to reject the concrete if it does not meet the requisite specifications.

48. The agency shall have to make his own arrangement access to the building from outside the building free of cost without affecting the normal working of office and without disturbing the office premises.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

49. The alternate arrangements shall be made for existing water supply, electrical supply and sanitary services to the existing building free of cost before disturbing the same for the new construction.

50. The agency shall take all safety measures at his own cost to avoid any mis-happenings in the building premises and he shall bear all responsibility for such incidences if any during the period of construction.

51. Prevention of Nuisance and Pollution Control:

The contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the occupants of the adjacent properties and to the other public in general and to prevent any damage/ inconvenience to them from noise, dust, smoke and other pollutants. The contractor shall make good at his cost and to the satisfaction of Engineer-in-charge any damage to roads, paths, cross drainage works, and or any other properties whatsoever caused due to execution of work or by the traffic brought there on by the contractor.

A field laboratory shall be setup at site with minimum equipment as specified at Page no. 52 & 53 within 45 days from the stipulated date of start of work failing to which a penalty at Rs 5000/- per each weeks delay will be imposed which will be recovered from the RA bills of the contractor and the recovery shall be non refundable.

53. Compliance of directives of Hon'ble National Green tribunal (NGT) dated 04.12.2014 and 10.04.2015 and EIA guidance manual issued in February 2010.

The contractor shall comply with following guidelines on the matter in pursuance of orders passed by Hon'ble National Green Tribunal.

1) The contractor shall not store / dump construction material or debris on metaled 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 metaled road. This area shall not cause any obstruction to the free flow of traffic / inconvenience to the pedestrians. It should be ensured by the contractor that no accidents occur on account of such permissible storage.

3) The contractor shall take appropriate protection measures like raising wind breakers of appropriate height on all sides of the plot/area using CGI sheets or plastic and/or other similar material to ensure that no construction material dust fly outside the plot area.

4) The contractor shall ensure that all the trucks or vehicles of any kind which are used for construction purposes/or are carrying construction material like cement, sand and other allied material are fully covered. The contractor shall take every necessary precautions that the vehicles are properly cleaned and dust free to ensure that enroute their destination, the dust, sand or any other particles are not released in air/contaminate air.

5) The contractor shall provide mask to every worker working on the construction site and involved in loading, unloading and carriage of construction material and construction debris to prevent inhalation of dust particles.

6) The contractor shall provide all medical help, investigation and treatment to the workers involved in the construction of building and carry of construction material and debris relatable to dust emission.

7) The contractor shall ensure that C&D waste is transported to the C&D waste site only and due record shall be maintained by the contractor.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

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 started in the MoEF guidelines, 2010.

10) The contractor shall carry out on-road-inspection for black smoke generating machinery. The contractor shall use cleaner fuel.

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

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

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

14) Nothing shall be paid extra for fulfilling of all the above conditions except for the items existing in the schedule of quantities. For such items, work done shall be paid on the basis of the agreement rates.

54. SAFETY PRACTICES

(i) WARNING/ CAUTION BOARDS: All temporary warning / caution boards / glow signage display such as "Repair Work in Progress", "Keep Away", "No Parking", Diversions & protective Barricades etc. shall be provided and displayed during day time by the Contractor, wherever required and as directed by the Engineer-in-Charge. These glow signage and red lights shall be suitably illuminated during night also. The Contractor shall be solely responsible for damage and accident caused, if any, due to negligence on his part. Also, he shall ensure that no hindrance, as far as possible, is caused to general traffic during execution of the work. This signage shall be dismantled & taken away by the Contractor after the completion of work, only after approval of the Engineer – in – Charge.

Nothing extra shall be payable on this account except for protective barricades

(ii) SIGN BOARDS: The Contractor shall provide and erect a display board of size and shape as required and paint over it, in a legible and workman like manner, the details about the salient features of the project, as required by the Engineer-in-Charge. The Contractor shall fabricate and put up a sign board in an approved location and to an approved design indicating name of the project, Client/Owner, Engineer-in-charges, Structural Consultants, Department etc. besides providing space for names of other Contractors, Sub-Contractors and specialized agencies within 15 days from issue of commencement letter. Nothing extra shall be payable on this account. **In case of noncompliance/delay in compliance in this, a nonrefundable penalty @ Rs.2500/- per week will be imposed which will be recovered from the immediate next R/A Bill of the Contractor**.

(iii) Necessary protective and safety equipments such as helmet, safety shoes, gloves etc.shall be provided to the inspecting officers of the department, Site Engineers, Supervisory staff, labour and technical staff of the contractor by the Contractor at his own cost and to be used at site.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

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

56 Any dispute arising out of this bid including dispute related to encashment of any Bank Guarantee/ FDR etc. shall be subject to the jurisdiction of courts of **Karnataka** State only.

57 Compliance on Construction & Demolition Waste Management Rules, 2016 as available at Web address – www.moef.gov.in.

58 By uploading schedule of quantities, the bidder is deemed to have read, understood and accepted all terms and condition of this tender document.

59 Unless otherwise specified, nothing extra, whatsoever shall be paid for executing the work as per the above SPECIAL CONDITIONS from serial number 1 to 57.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

PARTICULAR SPECIFICATION AND SPECIAL CONDITIONS FOR CEMENT BROUGHT BY THE CONTRACTOR

1.0 CEMENT (TO BESUPPLIED BY THE CONTRACTOR).

1.1. Contractor has to produce manufacturers test certificate and challan for each lot of cement procured at site.

1.2 CEMENT: -

1.2.1 The contractor shall procure Portland Pozzolana Cement (conforming to IS:1489:2015(Part-I & Part-II) OR Ordinary Portland Cement of 43 grade (conforming to IS:8112:2013) as required in the work, from reputed manufacturers of cement such as ACC, Ultratech, Zuari cement and Dalmia Bharat cement or (from any other reputed cement manufacturer having a production capacity not less than one million tonnes per annum) as approved by the Additional Director General, CPWD, Bangalore.

1.2.2 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. The cement for such testing purpose shall be supplied by the contractor free of charge. In case test results indicate that the cement arranged by the contractor does not conform to the relevant BIS Codes, the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-in-Charge to do so. The cost of tests shall be borne by the contractor/

1.2.3 The cement godown of the capacity to store a minimum of 2 months requirement shall be constructed by the contractor at site of work for which no extra payment shall be made. Double lock provision shall be made to the door of cement godown. The keys of one lock shall remain with Engineer-in-Charge or his authorized representative and 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 godown. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-Charge or his authorized representatives.

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

1.2.5 OPC, PPC, Portland slag cement bags shall be stored in separate godowns. Separate godowns for tested cement and fresh cement (under testing) to be constructed by the contractor at his own cost as per sketches given in C.P.W.D Specifications having weather-proof roofs and walls. The size of the cement godown is indicated in the sketches for guidance. The actual size of godown shall be as per site requirements and nothing extra shall be paid for the same. Each godown shall be provided with a single door with two locks. The keys of one lock shall remain with Engineer-in-Charge or his authorized representative of the work and that of other lock with the authorized agent of the contractor at the site of work so that the cement is issued from godown according to the daily requirement with the knowledge of both parties. The account of daily receipt and issue of cement shall be maintained in a register in the prescribed proforma and signed daily by the contractor or his authorized agent and Engineer-in-Charge or his authorized representative in token of its correctness. The day to day receipt and issue accounts of different grade/brand of cement shall be maintained separately in the standard proforma by the contractor

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

or his authorized representative which shall be duly signed by the authorized representative of the Engineer-in- Charge before issue to the work on day to day basis.

Four separate cement godowns each having capacity of 50 MT or more as decided by the Engineer-in-Charge shall be constructed by the contractor at site of work for which no extra payment shall be made. The contractor shall be responsible for the watch and ward and safety of the cement go-downs. The contractor shall facilitate the inspection of the cement go-downs by the Engineer-in-Charge at any time.

1.2.6 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in Clause-38 of the contract and shall be governed by the conditions laid therein.

1.2.7 If the quantity of cement actually used in the work is found to be more than the theoretical quantity of cement including authorized variation, nothing extra shall be payable to the contractor on this account. In the event of it being discovered that, the quantity of cement used is less than the quantity ascertained as herein before provided (allowing variation on the minus side as stipulated in Clause-38), the cost of quantity of cement not so used shall be recovered from the contractor as specified in schedule. Decision of the Engineer-in-Charge in regard to theoretical quantity of cement which should have been actually used as per the schedule and recovered at the rate specified, shall be final and binding on the contractor.

For non-scheduled items, the decision of the Superintending Engineer regarding theoretical quantity of the cement, which should have been actually used, shall be final and binding on the contractor.

1.2.8 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.

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

1.2.10 Cement, which is not used within 90 days from its date of manufacture, shall be retested at approved laboratory. Until the results of such tests are found satisfactory, it shall not be used on the work.

1.2.11 The cement godown of the capacity to store a minimum of 2000 bags of cement or as decided by SE in charge of the work in case less than 100MT cement is required for the work, shall be constructed by the contractor at site of work for which no extra payment shall be made. For small maintenance works, NIT approving authority shall decide the requirement of the storage/godown

1.2.12 The contractor shall facilitate the inspection of the cement godown by the Engineer-in-Charge at any time.

1.2.13 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.

1.2.14 In case the cement consumption is less than theoretical consumption including permissible variation, recovery at the rate so prescribed shall be made after ensuring structural soundness and stability on the basis of testing. In case of excess

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

consumption no adjustment need to made.

1.2.15 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, the Engineer-In-Charge shall get it removed at the cost of the contractor.

1.2.16 The cement bags shall be stacked on proper floors consisting of two layers of dry bricks laid on well consolidated earth at a level of at least one foot above ground. The stacks shall be in rows of 2 and 10 bags high with minimum of 0.6m clear. Bags should be placed horizontally continuous in each line. Actual size / shape of godown shall be as per site requirement and nothing extra shall be paid on this account. The decision of Engineer-in-charge regarding capacity shall be final.

1.2.17 Cement register for the cement shall be maintained at site. The account of daily receipts and issues of cement shall be maintained in the register in the proforma prescribed and signed daily by contractor or his authorized agent.

1.2.18 Chief Engineers/CPMs/ADGs/SDGs may change the brand of Cement depending upon availability in local market but conforming to grade mentioned in the NIT and only with ISI mark, if warranted. The name of manufacturers should be finalized after taking into consideration the availability and cost factor. Conditions for cement proposed to be procured in silos may be approved by the NIT approving authority along with mode of storage, measurement, testing and grade requirements.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

PARTICULAR SPECIFICATION AND SPECIAL CONDITIONS FOR

STEEL REINFORCEMENT BROUGHT BY THE CONTRACTOR: -

1. (a) The Contractor shall procure ISI marked TMT bars of various grades from the approved steel manufacturers as per the list of approved makes forming part of this document or their authorized dealers having valid BIS license for IS: 1786 latest version with upto date amendments and further confirming to the **OM No. CSQ/SE (TAS)/steel/2024/262 (H), dated 14.08.2024**.

   The procured steel should have the following qualities:

   i. Excellent ductility, bendability and elongation of the finished product due to possible refining technology.

   ii. Consumption of steel should be accurate as per design

   iii. Steel should have no brittleness problem in the finished product.

   iv. Steel should carry the quality of corrosion and earthquake resistance.

   v. Quality steel with the achievement of proper levels of Sulphur and phosphorus as per IS: 1786 latest revision.

2.0 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.

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

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

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

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

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

Size of bar	For consignment below 100tonnes	For consignment above 100tonnes
Under 10mmdia bars	One sample for each 25tonnes or par thereof.	One sample for each 40tonnesor part thereof.
10mm to 16mm dia bars	One sample for each 45tonnes or part thereof.	One sample for each 50tonnesor part thereof.
Over 16mmdia bars	One sample for each 50tonnes or part thereof.	One sample for each 75tonnesor part thereof.

7.0 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.

8.0 The actual issue and consumption of steel on work shall be regulated and proper accounts shall be maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in **clause 38** of the contract and shall be governed by conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations leading to under designing of the structure, the work shall be summarily rejected, otherwise recovery at the rate so prescribed shall be made after ensuring structural soundness and stability. In case of excess consumption, no adjustment needs to be made.

9.0 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.

10. The contractor shall submit original vouchers from the manufacturer for the total quantity of steel supplied under each consignment to be incorporated in the work. All consignment received at the work site shall be inspected by the Site staff along with the relevant documen1ts before acceptance. The contractor shall obtain Original Vouchers and Test Certificates and furnish the same to the Engineer-in-Charge in respect of all the lots of steel brought by him from approved supplier to the site of work. The original vouchers and test certificates shall be defaced by the Site staff and kept on record in the site office.

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

12.0 The standard sectional weights referred to as in Table 5.4 in para 5.3.4 in CPWD Specifications will be considered for conversion of length of various sizes of M.S. Bars, Steel Bars and T.M.T. bars into Standard Weight.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

13.0 Records of actual Sectional weights shall also be kept dia-wise and lot-wise. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site. The decision of the Engineer-in-Charge shall be final for the procedure to be followed for determining the average sectional weight of each lot. Quantity of each diameter of steel received at site ofwork each day will constitute one single lot for the purpose. The weight of steel by conversion of length of various sizes of bars based on the actual weighted average sectional weight shall be termed as Derived Actual Weight. However, for the stipulated issue of steel reinforcement up to and including 10mm diameter bars, the actual weight of steel issued shall be modified to take into account the variation between the actual and the standard coefficients and the contractors' accounts will be debited by the cost of modified quantity.

14.0 (a) If the Derived Weight as in sub-para (13) above is less than the StandardWeight as in Sub-para (12) above then the Derived Actual Weight shall be taken for payment provided, if it is within the following tolerances specified in IS1786 latest version, otherwise whole lot will be rejected.

Tolerances on Nominal Mass

Nominal Size in mm	Tolerance on Nominal mass Percent		
	Batch	Individual Sample*	Individual sample for coil**
Up to and including 10	±7	-8	±8
a) Over 10 up to and Including 16	±5	-6	±6
b) Over 16	±3	-4	±4

***** For individual sample plus tolerance is not specified.

******For coils batch tolerance is not specified.

c) If the Derived Actual Weight is found more than the Standard Weight, the Standard Weight as per in sub-para (12) above shall be taken for payment. In such case nothing extra shall be paid for the difference betweenthe Derived Actual Weight and the Standard Weight.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

Ultrasonic Pulse Velocity test for RCC

1.0 The underlying principle of assessing the quality of concrete is that comparatively higher velocities are obtained when the quality of concrete in terms of density, homogeneity and uniformly is good. The consistency of the concrete as regards its general quality gets established. In case of poorer quality lower velocities are obtained. If there are cracks, voids or flaws inside the concrete which come in the way of transmission of pulse, lower velocities are obtained.

1.2 The quality of concrete in terms of uniformity, incidence or absence of internal flaws, cracks and segregation etc. indicative of the level of workmanship employed, can thus be assessed using the guidance given in table below, which have been evolved for characterizing the quality concrete in structure in term of the ultrasonic pulse velocity.

Velocity criterion for Concrete Quality Grading.

. Sl.No.	Pulse velocity by Cross Probing (km/sec)	Concrete Quality Grading
1.	Above 4.5 Excellent	Excellent
2.	4.5 to 3.5 Good	Good
3.	3.5 to 3.0 Medium	Medium
4.	Below 3.0 Doubtful	Doubtful

1.3 Pulse velocity method of test of concrete is to be conducted for CPWD works as a routine test. The acceptance criteria as per the above table will be applicable which is as per IS 13311 (part-1): 1992. From the above “Good” and “Excellent” grading are acceptable and below these grading the concrete will not be acceptable.

1.4 5% of the total number of RCC members in each category i.e. beam, column, slab and footing may be tested by UPV test method for establishing quality of concrete. It is suggested that test be conducted on RCC beam near joint with column and on RCC column near joint with beam through direct method of testing and on RCC footings and rafts through indirect or semi direct method of testing.

1.5 The test results are to be examined in view of the above acceptance criteria “Good” and “Excellent” and wherever concrete is found with less than required quality as per acceptance criteria, repairs to concrete will be made. Honeycombed areas and loose pockets will be repaired by grouting using Portland Cement Mortar/Polymer Modifies Cement Mortar /Epoxy Mortar, etc. after chipping loose concrete in appropriate manner. In areas where concrete is found below acceptance criteria and defects are not apparently visible on surface, injecting approved grout in appropriate proportion using epoxy grout /acrylic Polymer modified cements slurry made with shrinkage compensating cement / plain cement slurry etc will be resorted to for repairs.(refer relevant chapters from CPWD Hand Book on Repairs and Rehabilitation of RCC Buildings).Repair to concrete will be done till satisfactory results are obtained as per the acceptance criteria by retesting of the repaired area. If satisfactory results are not obtained dismantling and relaying of concrete will be done. Charges for conducting such UPVT test shall be borne by the contractor.

On non-judicial stamp paper of minimum Rs.100

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

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

The agreement made this .....day of .....two thousand and..... Between .....son of .....of..... (hereinafter called the guarantor of the one part) and the PRESIDENT OF INDIA (hereinafter called government of the other part).

WHEREAS this agreement is supplementary to a contract (hereinafter called the contract) dated..... And made between the GUARANTOR of the one part and the government of the other part, whereby the contractor, inter alia, undertook to render the buildings and structures in the said contract recited completely water and leak-proof.

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

NOW THE GUARANTER hereby guarantees that water proofing treatment given by him will render the structures completely leak-proof and the minimum life of such water proofing treatment shall be five years to be reckoned from the date after the maintenance period prescribed in the contract.

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

(a) misuse of roof shall mean any operation which will damage proofing treatment, like chopping of firewood and things of the same nature which might cause damage to the roof;
(b) alteration shall mean construction of an additional storey or a part of the roof or construction adjoining to existing roof whereby proofing treatment is removed in parts;
(c) the decision of the engineer-in-charge with regard to cause of leakage shall be final.

During this period of guarantee the guarantor shall make good all defects and in case of any defect being found, render the building water-proof to the satisfaction of the engineer-in-charge at his cost, and shall commence the work for such rectification within seven days from the date of issue of the notice from the engineer-in-charge calling upon him to rectify the defects, failing which the work shall be got done by the department by some other contractor at the GUARANTER'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 GUARANTER fails to execute the water proofing or commits breach there under then the GUARANTER 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 GUARANTER in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the government the decision of the engineer-in-charge will be final and binding on the parties.

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

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

1.
2.

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

1.
2.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

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

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

1. Whereas the Executive Engineer, Mysore Division, CPWD, Mysore on behalf of the President of India (hereinafter called "The Government) has invited bids under **52/MyCD/EE/e-tender/2026-27** dated…… for **"Construction of office Building for STPI at Mysore. SH: Additional and other Miscellaneous Works.."** The Government has further agreed to accept irrevocable Bank Guarantee for Rs. ..... (Rupees ..... only) valid upto ..... (date)*..... as Earnest Money Deposit from..... (name and address of contractor) ….. (hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR**

Whereas the Executive Engineer, Mysore Division, CPWD, Mysore on behalf of the President of India (hereinafter called "The Government,) has entered into an agreement bearing number…… with ……(name and address of the contractor)……. (hereinafter called "the Contractor,) for execution of work of **"Construction of office Building for STPI at Mysore. SH: Additional and other Miscellaneous Works.."** The Government has further agreed to accept an irrevocable Bank Guarantee for Rs.....(Rupees …… only) valid upto.....(date)as **Performance Guarantee/security Deposit/Mobilization Advance** from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.

2. We, ... (indicate the name of the bank)……. (herein after referred to as "the Bank" hereby undertake to pay to Bank,) the Government an amount not exceeding Rs.....(Rupees..... only) on demand by the Government within 10 days of the demand.

3. We, ... (indicate the name of the Bank)..... , do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. .....(Rupees ..... only)

4. We, ... (indicate the name of the Bank) ....., further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the contractor shall have no claim against us for making such payment.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

5. We, ... (indicate the name of the Bank).....further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor and to forbear or enforce any of the terms and conditions rerating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said contractor or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. We, ... (indicate the name of the Bank)..... further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the contractor and not withstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.

7. This guarantee will not be discharged due to the change in constitution of the Bank or the contractor.

8. We, ... (indicate the name of the Bank).....undertake not to revoke this guarantee except with the consent of the Government in writing.

9. This Bank Guarantee shall be valid up to.....unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs..... (Rupees.....only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date.

Witnesses:

1. Signature
   Name and address

Authorized signatory
Name
Designation
Staff code No.
Bank seal

2. Signature
   Name and address

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

CONDITIONS FOR BOTH RMC AND DMC

1. The cost of packaging, scaling, transportation, loading, unloading, cost of samples and the testing charges for mix design in all cases shall be borne by the contractor.

2. The mix design shall be done by the contractor and result submitted to the Engineer-in-Charge for further confirmation by the approved laboratory. The various ingredients used for mix design 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 till completion of work or change in Design Mix / Ready Mix whichever is earlier. The sample shall be taken from the approved materials which are proposed to be used in the work.

3. For each change of source or quality / characteristic properties of the ingredients during the work, from that approved and used in the concrete mix, a fresh mix design shall be got done by the contractor. Revised trial mix test shall be conducted and shall be submitted by the contractor as per the direction of the Engineer-in-Charge.

4. The items of RMC and DMC shall be inclusive of all the ingredients including admixtures if required, labour, machinery T&P etc., (except shuttering which will be measured and paid for separately) required for a ready 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 in quantities of concrete ingredients like aggregates and admixtures etc., as per the approved mix design.

5. Sampling and Testing

Quantity of concrete delivered (cum)	Number of sample
Less than 15	1
16 to 30	2
31 to 50	3
51 and above	Three plus one sample for each additional 30 cum or part thereof.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

ANNEXURE – A
CALIBRATION AND WEIGHING EQUIPMENT ACCURACY

1. The following limits shall apply to all design-mixed concrete plants:

A) The accuracy, sensitivity and arrangement of the weighing devices shall be such as to enable the materials to be batched within the following tolerances:

1) Cement, mineral admixtures : Within + 2 percent of the quantity of the constituent being measured

2) Aggregate, chemical admixtures and water : With + 3 percent of the quantity of the constituent being measured

B) Analogue scales shall have scale increments not exceeding 5 kg for cement and mineral admixtures, 25 kg for aggregate and 2 kg for water.

C) Preset controls shall be calibrated in increments not exceeding 5 kg for cement and mineral admixtures, 10 kg for aggregate and 2 kg for water.

(i) Digital readouts shall have a scale increment not exceeding 2 kg for cement and mineral admixtures, 10 kg for aggregate and 1 kg for water.

(ii) At the time of installation, or reconditioning, the accuracy of the indicated mass at any point on the scale shall be within 0.25 percent of the full scale reading.

(iii) At any other time during operation the accuracy shall be within 0.50 percent of the full scale reading.

(iv) Chemical admixture dispensers shall have scale increments not exceeding:

Range of Scale In kg/I	Scale increment in kg/I
0.1 – 0.5	0.01
0.5 – 1.0	0.02
1.0 – 10.0	0.2
more than 10.0	0.4

(v) All weighing and measuring equipment shall be tested and calibrated over its full working range at the following intervals:

1) Mechanical / knifeedge systems :At least once every two months

2) Electrical /load cell systems : At least once every three months

Adequate and identified facilities shall be provided for the application of the test loads.

a. In the case of batch weighing systems, testing and calibration shall be based on the application test loads to the weigh hoppers.

b. Checks on continuous weigh systems shall be based on comparison of preset quantities with those actually produced.

c. To achieve the required accuracy of calibration, a minimum of 500 kg of tamped weights are required, except that for low capacity scales an acceptable limit on the total mass of calibration weights would be 20 percent of the scale capacity.

d. When calibration of weighing equipment is carried out all personnel involved should be competent and fully trained, the procedures should be fully documented, and special attention should be paid to the health and safety aspects of the procedure.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

Batching Plants and Batching Equipment

Hoppers for weighing cement, mineral admixtures, aggregates and water and chemical admixture shall consist of suitable containers freely suspended from a scale or other suitable load measuring devices and equipped with a suitable discharging mechanism. The method of control of the loading mechanism shall be such that, as the quantity required in the weighing hopper is approached, the material may be added at a controllable rate and shut off precisely within the weighing tolerances specified in Annexure-A. The weighing hoppers for cement, mineral admixtures, aggregate shall be capable of receiving their rated load, without the weighed material coming into contact with the loading mechanism. The weighing hoppers shall be constructed so as to discharge efficiently and prevent the buildup of materials. A tare adjustment up to 10 percent of the nominal capacity of the weigh scale shall be provided on the weighing mechanism so that the scale can be adjusted to zero at least once each day. Dust seals shall be provided on cement hoppers between the loading mechanism and the weigh hopper, and shall be fitted so as to prevent the emission of cement dust and not to affect weighing accuracy. The hopper shall be vented to permit escape of air without emission of cement dust.

Vibrators or other attachments, where fitted, shall not affect the accuracy of weighing. There shall be sufficient protection to cement and aggregate weigh hoppers and weighing mechanisms to prevent interference with weighing accuracy by weather conditions or external build-up of materials.

Where chemical admixture dispensers are used, they shall be capable of measurement within the tolerances in Annexure-A and a calibrated container or weigh scale shall be provided to check the accuracy of measurement at least once a month.

Each control on the batching console and weigh-dial or display shall be clearly labeled with its function and where concerned with the batching of materials, the material type.

When pulverized fuel ash and other mineral admixtures are batched through the cement weigh system, the weighing device and discharge screw or other parts of the transfer system shall be empty when the weighing system has returned to zero reading or completed the batch.

Where a back weigh system is utilized to weigh materials a system shall be in place so as to prevent materials being loaded during the process of weighing.

Fully automatic production systems shall be fitted with control equipment to allow the correct operation of the plant to be monitored during weighing and batching. Automatic control systems on batching plants shall not commence batching until all hoppers have been emptied and / or tared and the scales zeroed unless such systems are designed to take account of build up in their programming.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

ANNEXURE – A
CALIBRATION AND WEIGHING EQUIPMENT ACCURACY

The plant shall have valid calibration certificate during the currency of the work

1. The following limits shall apply to all design-mixed concrete plants:

A) The accuracy, sensitivity and arrangement of the weighing devices shall be such as to enable the materials to be batched within the following tolerances:

1) Cement, mineral admixtures : Within + 2 percent of the quantity of the constituent being measured

2) Aggregate, chemical admixtures and water : With + 3 percent of the quality of the constituent being measurement

B) Analogue scales shall have scale increments not exceeding 5 kg for cement and mineral admixtures, 25 kg for aggregate and 2 kg for water.

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(iv) Chemical admixture dispensers shall have scale increments not exceeding:

Range of Scale In kg/l	Scale increment in kg/l
0.1 – 0.5	0.01
0.5 – 1.0	0.02
1.0 – 10.0	0.2
more than 10.0	0.4

(v) weighing and measuring equipment shall be tested and calibrated over its full working range at the following intervals:

1) Mechanical / knife edge systems : At least once every two months

2) Electrical /load cell systems : At least once every three months

Adequate and identified facilities shall be provided for the application of the test loads.

a. In the case of batch weighing systems, testing and calibration shall be based on the application test loads to the weigh hoppers.

b. Checks on continuous weigh systems shall be based on comparison of preset quantities with those actually produced.

c. To achieve the required accuracy of calibration, a minimum of 500 kg of tamped weights are required, except that for low capacity scales an acceptable limit on the total mass of calibration weights would be 20 percent of the scale capacity.

d. When calibration of weighing equipment is carried out all personnel involved should be competent and fully trained, the procedures should be fully documented, and special attention should be paid to the health and safety aspects of the procedure.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

LIST OF EQUIPMENT FOR FIELD TESTING LABORATORY

(a) For Building work

1. Balances:
   (i) 7kg. to 10 kg. capacity, semi-self indicating type – accuracy 10 gm.
   (ii) 500 gm. capacity, semi-self indicating type – accuracy 1 gm.
   (iii) Pan balance – 5 kg. capacity – accuracy 10 gms.

2. Ovens-electrically operated, thermostatically controlled upto 110ºC – sensitivity 1ºC.

3. Sieves: as per IS 460-1962.
   (i) I.S. sieves – 450mm internal dia, of sizes 100mm, 80mm, 63mm, 50mm, 40mm, 25mm, 20mm, 12.5mm, 10mm, 6.3mm, 4.75mm, complete with lid and pan.
   (ii) I.S. sieves- 200mm internal dia (brass frame) consisting of 2.36mm, 1.18mm, 600 microns, 425 microns, 300 microns, 212 microns, 150 microns, 90 microns, 75 microns, with lid and pan.

4. Sieve shaker capable of 200mm & 300mm dia sieves, manually operated with timing switch assembly.

5. Equipment for slump test- Slump cone, steel plate, tamping rod, steel scale, scoop.

6. Dial gauges, 25mm travel- 0.01 mm/division least count- 2 nos.

7. 100 tonnes compression testing machine, electrical-cum manually operated.

8. Graduated measuring cylinders 200 ml capacity – 3 Nos.

9. Enamel trays (for efflorescence test for bricks).
   (i) 300mm x 250mm x 40mm – 2 nos.
   (ii) Circular plates of 250mm dia – 4 nos.

10. Concrete cube moulds 15x15x15cm – 12 nos.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

(b) FIELD TESTING INSTRUMENTS

List of testing equipment to be provided by the contractor:-

All necessary equipment for conducting all necessary tests shall be provided at site lab.

1.	Steel tapes – 3m
2.	Vernier calipers
3.	Micrometer screw 25 mm gauge
4.	A good quality plumb bob
5.	Spirit level, minimum 30 cms long with 3 bubbles for horizontal vertical.
6.	Wire gauge (circular type) disc
7.	Foot rule
8.	Long nylon thread
9.	Rebound hammer for testing concrete
10.	Dynamic penetrometer
11.	Magnifying glass
12.	Screw driver 30 cms long
13.	Ball pin hammer, 100 gms
14.	Plastic bags for taking samples
15.	Moisture meter for timber
16.	Depth gauge
17.	Straight Edge.

Note: The above list is only indicative and not exhaustive. The contractor may be required to provide more equipments as per requirement of work and as per the direction of the Engineer-in-charge**.**

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

LIST OF PREFERRED MAKE OF MATERIALS (FOR CIVIL WORK)
NOTE:

1. A List of Preferred Brand Names of Various Materials / Products are shown below for usage in execution of work. However, Approved equivalent material of any other Specialized Companies / Firms may also be used, in case it is established that the Brands Specified below are not available in the market or in other unavoidable circumstances and subject to Approval of the alternate Brand by the Executive Engineer, CPWD, Mysore.

2. It must be ensured, in general, that all materials to be used in the works shall bear BIS Certification mark. In case where for a particular material / product, BIS Certification Mark is not available, then the material proposed to be procured can be used subject to the condition that it should conform to CPWD specifications and relevant BIS codes. In such cases written approval of the Engineer-in-Charge shall be obtained before use of such material in their works.

3. The list given below does not absolve the Executing Agency from their responsibility for using these products. It is only after, they are satisfied about the quality and performance, the products shall be used. To achieve this, proper check on the quality of the product, actually to be used, should be exercised.

Sl No	Materials	Approved Make
1	White cement	J.K. WHITE, BIRLA WHITE, ASIAN PAINTS.
2	Chemical Admixtures	ARDEX ENDURA, FOSROC, MC Bauchemie, SIKA, BASF, Pidilite, CHOKSEY CHEMICALS, BOSTIK
3	Expansion joint board	SUPREME INDUSTRIES, SIL FILL OR EQUIVALENT, STP LTD
4	Damp proof material	ARDEX ENDURA, IMPERMO, DURASEAL, ACCO-PROOF, ASIAN PAINTS.
5	NON METALIC SURFACE HARDNER	ARDEX ENDURA, FOSROC, SIKA, PIDLITE,
6	INJECTION GROUTING	ARDEX ENDURA, FOSROC, SIKA, BASF, CICCO, ASIAN PAINTS
7	DELETED	DELETED
8	RMC / DMC	ULTRATECH, LAFARGE, ACC, RMC INDIA
9	BITUMEN	INDIAN OIL, HINDUSTAN PETROLEUM, MANGALORE REFINERIES, BHARAT PETROLIUM
10	Steel work / TMT bars	IS MARKED TMT BARS OF TATA, JSPL, JSW, RINL, VSP OR THEIR AUTHORIZED DEALERS:
11	Structural Steel	IS MARKED TMT BARS OF TATA, JSPL, JSW, RINL OR THEIR AUTHORIZED DEALERS:
12	AAC blocks	Xtralite from Ultratech, Aerocon from HIL, Siporex India limited, NCL
13	EPOXY MORTAR	ARDEX ENDURA, FOSROC, SIKA, BASF, ULTRATECH, BOSTIK, PIDILITE,ASIAN PAINTS.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

14	CC BLOCKS/ FLYASH BLOCKS	SIPOREX, SUNVIK, HIL
15	FRP DOOR FRAME	MEENA, RAWJI, FIBERTECH, ASTRALWIN DOORS
16	FRP DOOR SHUTTERS	MEENA, RAWJI, FIBERTECH, ASTRALWIN DOORS
17	PVC DOOR SHUTTER AND FRAME	RAJASHREE, SINTEX DUROPLAST
18	Wooden Flush Doors	KITPLY, CENTURY, GREENPLY, ARCHID PLY, Kutty, KAILASH.
19	Water proof Ply WOOD	DURO, KITPLY, CENTURY, ARCHID PLY, GREENPLY
20	Commercial Ply.	DURO, KITPLY, CENTURY, ARCHID PLY, GREENPLY
21	Laminate	FORMICA, DECOLAM, CENTURY, ROYAL TOUCH, Greenlam
22	HIGH PRESSURE LAMINATES	MERINO, GREENLAM, DECOLAM, CENTURY, ROYAL TOUCHE
23	PRELAMINATED PARTICLE BOARD	NOVOPAN, KITLAM, ARCHID PLY, CENTURY
24	NATURAL WOOD VENEER	ARCHID, ANCHOR, DURAIN, KITPLY, NATIONAL ACTION TESA
25	POLYSTER POWDER COATED SHADES	NEROLAC, BERGER, AKZONOBEL, ASIAN
26	Gypsum board	Saint Gobain, Lafarge, Boral Board, Armstrong
27	FALSE CEILING CALCIUM SILICATE	ARMSTRONG, AEROLITE, RAMCO
28	FALSE CEILING MINERAL FIBRE	SAINT GOBAIN, ARMSTRONG, ANUTONE, HIMALAYAN
29	Melamine Polish	ASIAN PAINTS, MALAMYNE GOLD WUDFIN OF PIDILITE INDUSTRIES TIMBERTONE OF ICI DULUX
30	Door Hardware	DORMA, HAFELE, KICH, OZONE, DORSET, BACKERS FS, GODREJ
31	Hydraulic door closers / Floor springs	DORMA, KICH, GODREJ, Hardwyn, DORSET
32	Locks / Latches	GODREJ, HARRISON, LINK, Dorset, DORMA
33	FIRE CHECK DOOR	BANGALORE PROTECH, SHAKTI, NAVAIR, KENWOOD, VEROTECH, SHAKTI HARMON
34	SMOKE SEAL STRIP	IMPROTED PROMAT / ASTRO FLAME
35	Fire Rated Hardware	Dorma, Ingersol rand, Geze, DORSET BACKERS FS
36	Stainless steel screws for fabrication and fixing of windows.	Kundan, puja, Atul, GRIPWELL, NAKODA
37	Butt / ball bearing Hinges	Haffle, DORMA, DORSET, GODREJ
38	Piano Hinges	Jolly, Garg, AMIT, Jyoti

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

39	Nuts Bolts/ Screws	Kundan, Puja, Atul, IT, BOLT MASTER, GRIPWELL, NAKODA
40	Acoustic Insulation	U.P. Twiga Ltd, Lloyd Insulation, Saint Gobain, ARMSTRONG
41	Glass/ reflective Glass	MODI FLOAT, SAINT GOBAIN, ASAHI, GLAVERBEL
42	UPVC windows / VENTILATION	FENESTA, REHAU, ENCRAFT, DUROPLAST WINTECH, NCL, MADHU INDUSTRIES, LG
43	SOURCE FOR TEMPERING REFL. GLASS / CLEAR	FUSO, SAINT GOBAIN, GURIND, IMPACT SAFETY
44	Fire rated Glass	Pyoswiss of Saint Gobain, pyran of schott, pilkington
45	Vitrified Tiles TO BE OF 1ST QUALITY DOUBLE CHARGED AND TO BE MANUFACTURED IN THE MOTHER PLANT.	KAJARIA, JOHNSON, RAK CERAMICS, NITCO,SOMANY, MURUDESWAR CERAMICS Ltd.
46	Glazed Ceramic Tiles	JOHNSON, KAJARIA, NITCO, RAK CERAMICS, SOMANY, MURUDESWAR CERAMICS Ltd.
47	False Floor	Hewetson, Unifloor, Unitile, kebao, Pinnacle
48	Engineered wood/LAMINATE flooring	Armstrong, wernel, Pergo, ACTION TESA, WELSPUN
49	Cement Concrete Parking tiles	NITCO, NTC, HINDUSTAN, PODDAR Eurocon, Dazzle ultra.
50	Interlocking Concrete Blocks	NITCO-(ROCKARD), BHARAT- (NILSAN) REGENCY, bESANT
51	CLAY TILES ON ROOF	KENJAI, JOHNSON, COMMON WEALTH TRUST (IND) LTD
52	TILE ADHESIVE	ARDEX ENDURA, CICO, PIDILITE, PERROUS, FOSROC, SIKA,ASIAN PAINTS
53	CHEQUERED TERRAZO TILES	NITCO, BHARAT, PODDAR
54	SYNTHETIC CARPET TILES	TOLI, HOLLITEX, STANDARD CARPETS, WELSPUN
55	GLASS MOSAIC TILES	ITALIA, PALLADIO, BISAZZA
56	PAINT/PRIMER/OIL BOUND DISTEMPER ACRYLIC PAINT	ASIAN PAINTS, ICI DULUX, NEROLAC, BERGER
57	WATER PROOF CEMENT PAINT	SNOWCEM INDIA LTD, ASIAN PAINTS, ICI DULUX, NIPPON PAINTS
58	SYNTHETIC ENAMEL PAINT	BERGER, NEROLAC, ASIAN, ICI DULUX
59	ACRYLIC TEXTURED PLASTER	ASIAN PAINTS, ICI DULUX, NEROLAC, BERGER
60	FIRE RETARDANT PAINT	JOTUN, HILTI, AKZONOBEL, NIPPON, ASIAN PAINTS
61	MIRROR GLASS	MODI GUARD, SAINT GOBAIN, ASAHI, ATUL
62	ANTI CORROSIVE BITUMASTIC PAINT	ASIAN / BERGER / SHALIMAR

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

63	EPOXY PAINT	BERGER PAINTS, ASIAN PAINTS, MRF, ARDEX ENDURA
64	EPOXY COATING	ARDEX ENDURA, BASF, FORSOC, LATICRETE, MRF,ASIAN PAINTS
65	STRUCTURAL SILICON/ WEATHER SILICON	DOW CORNING / WACKER / GE
66	ACRYLIC EXTERIOR PAINT	ASIAN PAINTS, ICI DULUX, BERGER, NEROLAC
67	ALUMINIUM SYSTEMS / ANODIZED ALUMINUM FITTINGS FOR DOORS	HARDIMA, EVERITE, SIGMA (ISI MARKED) JYOTHI
68	STAINLESS STEEL FITTINGS	DORSET, GODREJ, DORMA, OZONE, KITCH
69	ALUMINIUM SECTIONS	JINDAL, HINDALCO, INDALCO
70	FRICTION STAY HINGES	EBCO, HAFELE, SEVAX
71	ALUMINIUM COMPOSITE PANEL (ACP)	ALUCOBOND, EUROBOND, DURABUILD
72	E.P.D.M. GASKETS	ANAND / ROOP / BOHRA / HANU / AMEE RUBBER
73	WATER PROOFING COMPOUND	SIKA, ACCOPROOF, IMPERMO, FOSROC PIDILITE, ARDEX ENDURA, BOSTIK, BERGER,ASIAN PAINTS
74	MEMBRANE WATERPROOFING SYSTEM	BASF, TEXSA, WR GRACE, PIDILITE, HYDRO TECH LTD. ARDEX ENDURA, BOSTIK, FOSROCK,ASIAN PAINTS
75	POLYMER BASED CONTENTIOUS WATER PROOF COATINGS	ARDEX ENDURA, BASF, MC-BAUCHEMIE, SIKA, FORSOLOC, PIDILITE, BERGER,ASIAN PAINTS
76	WATER STOPS	ARDEX ENDURA, HYDROTITE, BASF, HYDROSWELL, PIDILITE, BOSTIK,ASIAN PAINTS
77	PVC PERFORATED PIPES	REX POLYEXTRUSION LTD, AKASH ENTERPRISES, ZENPLAS PIPES PVT. LTD
78	MS PIPES	TATA, JINDAL, APOLLO
79	POLYSULPHIDE SEALANT	PIDILITE, CHEMETALL-RAJ, FOSROC, CHOKSEY CHEMICALS, TUFF SEAL, ASIAN PAINTS
80	BITUMEN IMPREGNATED BOARD	SHALITEX OR EQUIVALENT
81	POLYETHYLENE BACKER ROD	SUPREME IND. LTD. OR EQUIVALENT
82	FALSE CEILING MEMBERS (PERIMETER, CEILING SECTION,	ARMSTRONG, GYP. ROCK (SAINT GOBAIN)
83	WELDING ROD	ADVANI, ESAB
84	METAL DECK SHEET	TATA, JINDAL, ALFA, KAILASH ROOFIN
85	SHEAR STUD / CONNECTOR	KOCO OR EQUIVALENT
86	CLAMP. REBAR, CHEMICAL FASTENER	HILTI, FISCHER, WURTH, AXEL
87	ANCHOR FASTENERS / BOLTS	HILTI, FISHER, CANON, BOSCH, AXEL
88	MASKING TAPES	3M, SUN CONTROL, WONDER POLYMER
89	DASH FASTENERS	HILTI, FISHER, CANON, BOSCH, AXEL

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

90	STAINLESS STEEL BOLTS, WASHERS AND NUTS	ATUL / HILTI / GRIPWELL / NAKODA
91	GRC JALI	TERRAFIRMA, ECOVISION, BIRLA WHITE GRC, EVEREST GRC
92	STAINLESS STEEL	SALEM, JINDAL, SAIL
93	POLYCARBONATE SHEET	DANPALON, ALCOX, POLYGAL, V.A. CORPORATION, ALFA, GE, LEXON, TUFLITE
94	PT STRANDS	DP WIRES, TATA, USHA MARTIN
95	ADHESIVE (MANUFACTURE SPECS)	ARDEX ENDURA, DUNLOP, VAMORGANIC, SIKA, FOSROC, PIDLITE, BOSTIK, ASIAN PAINTS
96	GROUTS	KERAKOLL, WEBER, ARDEX ENDURA, BOSTIK, FOSROCK, PIDILITE,ASIAN PAINTS
97	SOLAR STUDS / MEDIAN MARKERS	3M, AVERY DENNISION, NIKKALITE
98	POLYCARBONATE CONVEX MIRRORS, RUBBERISED ROAD	UNIQUE SAFETY SOLUTIONS
99	AIR TRANSFER GRILLS	COOL GRILLS PUNE, SYSTEMAIR INDIA
100	THERMAL INSULATION TREATMENT	PIDILITE, BASF, BERGER, ARDEX ENDURA
101	VITREOUS WC / WASH BASIN	PARRYWARE, HINDWARE, CERA, JAQUAR
102	GULLYTRAPS	PERFECT, PARRY
103	STAINLESS STEEL SINKS	NILKANTH, AMC, COBRA, NIRALI, DIAMOND, HINDWARE
104	C. P. BRASS FITTINGS	JAQUAR, PARKO, MARC, HINDWARE, PARRYWARE, KINGSTON
105	GI PIPES	TATA, JINDAL, HISSAR
106	GI PIPE FITTINGS	ZOLOTO, UNIK, HB, ICS
107	RCC PIPES	INDIAN HUME PIPE, MOHAN HUME PIPE, BANGALORE CEMENT PIPES
108	SPUN CAST IRON COVERS & GRATINGS	NECO, SKF/ BENGAL IRON CORPORATION
109	SPUN CAST IRON PIPES	NECO, SKF/ BENGAL IRON CORPORATION
110	SPUN CAST IRON FITTINGS	NECO, SKF/ BENGAL IRON ORPORATION
111	SWR PVC PIPES AND FITTINGS	SUPREME, FINOLEX, PRINCE, ASTRAL
112	CPVC PIPE AND FITTINGS	SUPREME, ASHRIVAD, FINOLEX, PRINCE, FLOWGARD, ASTRAL, PRAYAG
113	UPVC PIPES	SUPREME, PRINCE, FINOLEX
114	WATER SUPPLY VALVES	ZOLOTO, LEADER, ARCO
115	CI MANHOLE COVER	NECO, BIC
116	SFRC COVER AND GRATING	TULSHI CONCRETE, KK, ADVENT, NEWTECH

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

117	AIR RELEASE VALVES	KIRLOSKAR, RBM, KARTAR
118	CI DOUBLE FLANGE SLUICE VALVE	KIRLOSKAR, RBM, KARTAR
119	PLASTIC ENCAPSULATED FOOT REST	KK INDIA, KGM, ACCURATE BUILDCON
120	GUN METAL VALVES	ZOLTO, LEADER, SANT, ANDCO INDIA
121	CI DOUBLE F LANGED SLUICE VALVES	KIRLOSKAR, IVS, BURN, ZOLOTO, LEADER
122	CI DOUBLE FLANGED NON-RETURN VALVES	KIRLOSKAR, FLUIDTEH, ZOLOTO
123	SANDWICH PU PANELLED ROOFING SHEETS	LLOYD INSULATION (INDIA) LTD., JINDAL, MECTEC PVT LTD., TATA
124	GALVALUME SHEET	LLOYD (INDIA) LTD., JSW, TATA BLUESCOPE
125	CRYTALLINE WATER PROOFING ADMIXTURE AND COMPOUND	PENETRON, KRYTON, PIDILITE, FOSROC. ASIAN PAINTS
126	STAINLESS STEEL WATER SUPPLY PIPES	JINDAL, SWASTIK, RAMPPART, J-PRESS.
127	HERMETICALLY SEALED PERFORMANCE GLASS, TOUGHENED, DGU, SGU, TOUGHENED LAMINATED GLASS	AUTHORISED TOUGHENERS OF (MODI GUARD, SAINT GOBAIN, ASAHI, AIS/GLAVERBEL, PILKINGTON
128	ORDINARY PORTLAND CEMENT (43 grade)AND PORTLAND POZZOLONA CEMENT	ACC CEMENT,ULTRATEC CEMENT, COROMANDAL CEMENT, BIRLA CEMENT, CHETTINADU CEMENT, BHARATI CEMENT , DALMIA CEMENT. ZUARI CEMENT, JAYPEE CEMENT ,MAHA CEMENT, J.K.CEMENT , AMBUJA CEMENT , CENTURY CEMENT, PENNA CEMENT , RAMCO CEMENT
129	PLASTICISER AND SUPER PASTICISER	AS PER CEMENT MANUFACTURER'S RECOMMONDATION
130	EXPANSION JOINT BITUMEN BOARD	DURA BOARD HD100, DURAFILL
131	HIGH DENSITY PRELAMINATEDEBOARD	PERGO, GREEN PLY INDUSTRIES LTD.
132	SS BUTT HINGES	OZONE , DORMA, GEZE
133	REFLECTIVE GLASS	SAINT GOBAIN , ASAHI , PILKINGTON, MODI FLOAT, GLAVERBEL
134	PREMIER ACRYLIC SMOOTH EXTERIOR PAINT WITH SILICON	ASIAN PAINT, ICI DULUX, NEROLOC BERGER
135	CEMENT BASED WALL PUTTY	JK WALL PUTTY, BIRLA WALLCARE, ASIAN PAINTS
136	FLUSHING CISTERN	KOHLER, GROHE, JAQUAR
137	PE-AL-PE COMPOSITE PIPES	KITECH, VECTUS, JINDAL
138	PVC /HDPE WATER STORAGE TANKS	VECTUS, SYNTEX, SUPREME
139	WATER SUPPLY FIXTURES	JAQUAR, HINDWARE

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

140	ANODISED A LUMINIUM FITTINGS FOR DOORS AND WINDOWS	DEFNE, SCHUECO, BHORUKA, KAWANEER, HARDIMA, EVERITE, JYOTHI, SIGMA
141	STRUCTURAL GLAZING	MODI, SAINTGOBAIN, ASAHI, GLAVERBEL
142	MULTI WALLED POLYCARBONATE ROFING SHEETS	DANPALON, LEXAN GE, DPI DAYLIGHT.
143	WALL PANELLING	ANUTONE, HIMALAYAN ACCOSTICS, ARMSTRONG.
144	WOOD POLYMER COMPOSITE MATERIAL (WPC) FOR DOOR FRAMES AND SHUTTERS, PLAIN / PRE LAMINATED BOARDS FOR WALL	ALSTONE, SMP MAGMA, ECOSTE, ECHON, QUTE, RAJASREE

I	Nil	
O	Nil	
C	Nil	AE(P) / EE

PARTICULAR SPECIFICATIONS FOR ALUMINIUM WORK

i. Aluminium Doors, Windows and Ventilators

ii. Powder coated aluminium doors, windows, ventilators and fixed glazing shall be generally as per the architectural drawing and shall be fabricated using aluminium alloy standard extruded sections of "JINDAL", "INDAL" or equivalent as approved by the Engineer-in-Charge. Alternatively, the contractor shall submit the drawings indicating the sections proposed to be used by him and the fixing arrangement for approval. The Engineer-in-Charge shall have the right to reject or modify these drawings before approval and the contractor is bound to execute the work in accordance with drawings approved by the Engineer-in-Charge. The powder coating shall be done to a minimum thickness of 60 micron conforming to European standard Qualicoat class -2 or American standard AAMA 2604-05.

iii. Samples of doors, windows and ventilators as per the drawings approved by the Engineer-in-Charge shall be fabricated and got approved by the Engineer-in-Charge before taking up the execution of these items of work.

iv. The aluminium sections shall be jointed to each other wherever required with extruded aluminium angle cleats of suitable size and of thickness not less than 6mm for doors and 4mm for windows and ventilators with stainless steel screws. Unless otherwise specified all joints shall be mitered..

v. Various tests on aluminium sections shall be conducted in accordance with the relevant provisions of IS: 1868 (anodic coatings on aluminium and its alloys) and IS:5523 (Method of testing anodic coating on aluminium and its alloys).

vi. The fabricated aluminium frame work shall be given a lacquer coating which shall be maintained during the entire period of construction to prevent damage to the anodic coating of aluminium sections. The surface shall be cleaned and polished before handing over the works.

vii. The doors, windows, ventilators, fixed glazing etc. individually or forming composite unit shall be provided with glazing and panelling as specified with neoprene felt. Glazing and panelling shall be fixed with aluminium snap beading. The sliding shutters of windows shall be provided with nylon pullers with concealed bearings, aluminium stoppers and special locking arrangements as approved by the Engineer-in-Charge. The interlocking styles of sliding windows shall be provided with PVC/ neoprene weather sealing gaskets. The windows with side hung shutters shall be provided with best quality heavy type anodized aluminium hinges with stainless steel pins/bolts, anodized aluminium peg stays and fasteners of suitable size and shape.

viii. For the purpose of payment, the weight of each door, window, ventilator, louvered window, fixed glazing etc. individually or forming composite unit shall be the actual weight of extruded aluminium sections, cleat angles and aluminium snap beading excluding the weight of all fittings & fixtures. If the variation between the actual unit weight and unit weight specified in the manufacturers catalogue is more than +10%,The materials shall be rejected as being substandard. The cost of hinges, locking arrangements, gaskets, stainless steel screws, pins/bolts etc and the wastage of extruded aluminium sections shall be deemed to be included in the agreement rate and nothing extra whatsoever shall be payable. Panelling and glazing shall be paid separately.

I	Nil	
O	Nil	
C	Nil	AE(P) / EE