Government of India
Central Public Works Department

Name of Work: - Construction of Implement Shed for Farm Implement at ICAR-CRIJAF, Barrackpore

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Certified that this NIT document consists of Page No. 1 to 114 and this Index page and Schedule of Quantities at Page No. C-1 to C-3

Sr.D/Man
BCD-II, CPWD, Barasat

Assistant Engineer (P)
BCD-II, CPWD, Barasat

Approved

Executive Engineer
BCD-II, CPWD, Barasat

CENTRAL PUBLIC WORKS DEPARTMENT

NOTICE INVITING e-TENDERS

The Executive Engineer, Barasat Central Division-II, CPWD, Barasat (Contact No. No.9955041158, e-mail ID: bcdiicpwd@gmail.com) on behalf of the president of India, invites online percentage rate bids from approved and eligible registered contractors of CPWD in appropriate category of building and road for the following work(s): -

NIT No:	44/EE/BCD-II/2026-27
Name of Work:	Construction of Implement Shed for Farm Implement at ICAR-CRIJAF, Barrackpore
Estimated Cost put to tender:	**Rs. 68,54,776.00**
Time of completion:	**03(Three) months**
Earnest Money:	**Rs 1,37,096/-**

Last Time & date of submission of Bid: - **upto 3.00 PM on 29/10/2026**

Time & date of opening of Bid: - **3.30 PM on 29/10/2026**

The tender forms and other details can be obtained from website http://etender.cpwd..gov.in

Note: - Applicants are advised to keep visiting the above mentioned web-sites from time to time (till the deadline for bid submission) for any updates in respect of the tender documents, if any. Failure to do so shall not absolve the applicant of his liabilities to submit the applications complete in all respect including updated thereof, if any. An incomplete application may liable for rejection.

Executive Engineer
BCD-II, CPWD, Barasat

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

(Applicable for inviting open tenders)

The Executive Engineer, Barasat Central Division-II, CPWD, Barasat on behalf of President of India invites online percentage rate bids from approved and eligible registered Contractors of CPWD in appropriate Category of Building and Roads for the following work(s):

Sl. No.	N.I.T No.	Name of work & Location	Estimated Cost put to tender	Earnest Money	Period of Completion	Last date & time of submission of tender	Time& date of opening of bid
1	2	3	4	5	6	7	8
1	44/EE/BCD-II/2026-27	Construction of Implement Shed for Farm Implement at ICAR-CRIJAF, Barrackpore	Rs. 68,54,776.00	Rs.1,37,096.00	03(Three) months	Upto 29/10/2026 at 15:00 Hrs	At 29/10/2026 at 15:30 Hrs

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

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

3. The bid document consisting of plans, specifications, the schedule of quantities of various types of work 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.

4. But the bid can only be submitted after deposition of original EMD either in the office of the Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission and uploading the mandatory scanned documents such as Demand Draft or Pay Order or Bankers Cheque or deposit at Call Receipt or Fixed deposit Receipt and Bank guarantee of any schedule Bank towards EMD in favour of Executive Engineer as mentioned in NIT, receipt for deposition of original EMD to Division office of any Executive Engineer (including NIT issuing EE / AE), CPWD and other documents as specified.

The Contractors registered prior to 01/04/2015 on e-tendering portal of CPWD shall have to be deposit tender processing fee at exiting rates, or they have option to switch over to the new registration system without tender processing fee any time.

5. The enlistment of the contractors should be valid on the last date of submission of tenders. In case, only the last date of submission of tender is extended, the enlistment of contractors should be valid on the original date of submission of tenders.

6. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.

7. The intending bidder must have valid digital signature to submit the bid.

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

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

10. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in pink color and the moment rate is entered, it turns sky blue.
In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0".
Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).
However, if a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section/sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

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

12. All the receipts to be received as Earnest Money, Performance Guarantee Money, Late Fee, Deposits of works etc. should made only through E-Payment/NEFT/RTGS using Non-Tax Receipt Portal (NTRP) of the Government of India for which they have to register themselves in Bharatkosh.gov.in before making payments. The following references should be taken care of while making payments with regards to following division:-

1	Purpose	Deposit Works, Earnest Money, Performance Guarantee, Late Fee
2	Payment Type	a. Part-2, for Earnest Money b. Part-3, for Deposit of Works c. Part-5, for Performance Guarantee d. Others for Late Fee
3	Ministry	(030) Urban Development & Urban Poverty Alleviation
4	Pay & Accounts Office (PAO)	043460 – PAO (East Zone), CPWD, Kolkata
5	Drawing & Disbursing Officer (DDO)	110020 – Executive Engineer, Barasat Central Division-II, CPWD, Barasat

13. **List of mandatory documents to be scanned and uploaded within the period of bid submission:**

(i) Treasury Challan or Demand Draft or Pay order or Banker`s Cheque or Deposit at Call Receipt or Bank Guarantee of any scheduled bank against EMD (To be drawn in favour of **Executive Engineer, BCD-II, CPWD, Barasat**).

(ii) Enlistment Order of Contractor. Also, all the existing eligible contractor of CPWD are allowed to participate in this tender who have given the consent to enlisting authority for change into composite category. However, they will require uploading a copy of consent letter duly acknowledged by the office of enlisting authority as well as copy of existing enlistment order.

(iii) GST Registration Certificate, if already obtained by the bidder.
If the bidder has not obtained GST registration "as applicable" then he shall scan and upload following undertaking along with bid documents.
"If work is awarded to me, I/we shall obtain GST registration Certificate, "as applicable", within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by CPWD or GST department in this regard.

(iv) Contact details of the agency i.e. Complete Postal Address, Email ID No., Contact No. or Mobile No. etc.

(v) Valid Electrical Contractor License or undertaking that "I/We shall either obtain valid electrical license at the time of execution of electrical work or associate an approved and eligible contractor of CPWD in appropriate class having valid electrical contractor license"

(vi) Certificate of Registration with EPFO & ESIC.

(vii) ERP Training Certificate

(viii) Undertaking on structural stability and soundness as per prescribed format Form 'F' (Format given on page-83).

(ix) Copy of receipt for deposition of original EMD to Division office of any Executive Engineer (including NIT issuing EE/AE) of CPWD.

(x) An affidavit on Rs.100 stamp paper duly attested by notary after publishing of tender with Name of Work & NIT number is to be uploaded as regard to that "I/we have not been debarred suspended for tendering in CPWD till the last date of submission of bid".

Physical submission of documents by lowest bidder.

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

CPWD – 6 for e-tendering
GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
NOTICE INVITING BID
(Refer SOP No. 4/8 & 4/9)

1. ~~Item rate~~/percentage rate composite bids are invited by Executive Engineer, Barasat Central Division-II, CPWD, Barasat on behalf of President of India from approved and eligible registered Contractors of CPWD in appropriate Category of Building and Roads for the work of "**Construction of Implement Shed for Farm Implement at ICAR-CRIJAF, Barrackpore"**

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 **Rs. 68,54,776.00.** This estimate, however, is given merely as a rough guide.

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

For composite bid, besides indicating the combined estimated cost put to bid, should clearly indicate the estimated cost of each component separately. The bidders will correspond to the combined estimated cost of different components put to bid.

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

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

4. (i) The site will be handed over in phased manner.

OR

The site for the work shall be made available in parts as specified below:-

(ii) The details 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.

OR

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

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

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

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

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

9. Earnest Money in the form Treasury Challan or Demand Draft or Pay order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour of **Executive Engineer, BCD-II, CPWD, Barasat**) 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 uploaded by tender inviting EE in the NIT.
This receipt shall also be uploaded to the e-tendering website by the intending bidder up to the specified bid submission date and time.
A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 lakh, whichever is less, shall 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 six months or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.
Copy of Enlistment Order and certificate of work experience and other documents as specified in the notice shall be scanned and uploaded to the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in notice shall have to be submitted by the lowest bidder only within a week physically in the office of tender opening authority.
Online bid documents submitted by intending bidders shall be opened only of those bidders, whose EMD deposited In Prescribed manner with any division office of CPWD and other documents scanned and uploaded are found in order.
The bid submitted shall be opened **at 03.30 PM on 29/10/2026**

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

10. The bid submitted shall become invalid if:
(i) The bidder is found ineligible.
(ii) The bidder does not deposit original EMD with division office of any Executive Engineer, CPWD.
(iii) The bidder does not upload all the documents (including GST registration/Undertaking) as stipulated in the bid document including the copy of receipt for deposition of original EMD.
(iv) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest tenderer in the office of tender opening authority.
(v) If a tenderer quotes nil rates against each time in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section/sub

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

11. The Contractor whose tender is accepted, will be required to furnish performance guarantee at specified percentage of the tendered amount as mentioned in Schedule 'E' and within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10000/-) or Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank/ Pay order of any Scheduled Bank of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with as prescribed in Sl No. 12 /Page-3. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee.
The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. if applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work and programme chart (Time and Progress) within the period specified in Schedule F.

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

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

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

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

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

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

18. The bid for the works shall remain open for acceptance for a period of 30(Thirty) days from the date of opening of bid. If any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bidders shall not be allowed to participate in the rebidding process of the work.

19. GST and all other tax as applicable, Education Cess, etc. shall be payable by the contractor and Government will not entertain any claim whatsoever in respect of the same.

20. This notice inviting Bid shall form a part of the contract document. The successful bidders/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-

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

(b) Standard C.P.W.D. Form 7 or other Standard C.P.W.D. Form as applicable and as amended upto previous day to the last date of bid submission.

21. The contractor shall quote his rates keeping in mind the specifications, terms & conditions, additional and special conditions etc. and nothing shall be payable extra whatsoever unless otherwise specified.

Provision for Labour Camp": (No. CSQ/C&M/C37(8)/2005/688, dated, 07.07.06.

22. **The intending bidders are required to update their profile in CPWD e-tender portal and 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.9955041158 e-mails Id: bcdiicpwd@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 raise any issues till the last date of submission of bid in their own interest. (As Per DG OM No- DG/SOP/36 dated 25.03.2022).

23. In case any discrepancy is noticed between the documents as uploaded at the time of submission of the bid online and hard copies as submitted physically in the office of Executive Engineer, then the bid submitted shall become invalid and the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderer shall not be allowed to participate in the re-tendering process of the work.

Executive Engineer
For & on behalf of President of India

CPWD - 7/~~8~~

PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

Tender for the work of: - **Construction of Implement Shed for Farm Implement at ICAR-CRIJAF, Barrackpore**

To be submitted/ uploaded by 29/10/2026 hours on 15:00 Hrs. to the Executive Engineer, Barasat Central Division-II, CPWD, Barasat uploaded at https://etender.cpwd.gov.in or www.cpwd.gov.in

(i) To be opened in presence of tenderers who may be present at 15:30 hrs. on 29/10/2026 in the office of the Executive Engineer, Barasat Central Division-II, CPWD, Barasat.

TENDER

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

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

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

A sum of **Rs. 1,37,096/-** is hereby forwarded in cash/receipt treasury challan/deposit at call receipt of a scheduled bank/fixed deposit receipt of scheduled bank/demand draft of a scheduled bank/bank guarantee issued by a scheduled bank as earnest money. A copy of earnest money in issued by a scheduled bank is scanned and uploaded. If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

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

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

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

Dated Signature of Contractor

Witness: Postal Address

Address:

Occupation:

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 the President of India.

Signatures.....*.....

Dated: …….*…….

Designation.....*.....

PROFORMA OF SCHEDULES

(Separate Performa for Civil Works in case of Tenders)

(Operative Schedules to be supplied separately to each intending tenderer)

SCHEDULE 'A'

Schedule of quantities (as per PWD-3) :	Page No. C-1 to C-3

SCHEDULE 'B'

Schedule of materials to be issued to the contractor:

Sl. No.	Description of item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of Issue
1	2	3	4	5
----------NIL----------				

SCHEDULE 'C'

Tools and plants to be hired to the contractor as required for the purpose of execution and completion of work

SI. No.	Description	Hire charges per day	Place of Issue
1	2	3	4
----------NIL----------			

SCHEDULE 'D'

Extra schedule for specific requirements/document for the work, if any: As attached in tender documents.

SCHEDULE 'E'

Reference to General Conditions of contract.		GCC for CPWD works – 2023(Construction) as amended/ modified upto last date of submission of tender.
Name of work		Construction of Implement Shed for Farm Implement at ICAR-CRIJAF, Barrackpore
Estimated cost of work		Rs. 68,54,776.00
(i)	Earnest money	Rs. 1,37,096.00
(ii)	Performance Guarantee	(a) 5% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher). (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.
(iii)	Security Deposit	2.5 % of tender value

SCHEDULE 'F

GENERAL RULES & DIRECTIONS:		
Officer inviting tender :		Executive Engineer, Barasat Central Division-II, CPWD, Barasat
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3:		See appropriate Clause under definition below
Definitions:		
2(vi)	Engineer-in-Charge (For Civil Work) :	Executive Engineer, Barasat Central

		Division-II, CPWD, Barasat or successor thereof.
	Engineer-in-Charge (For E&M Work) :	Executive Engineer (El), Barasat Central Electrical Division, CPWD, Salt Lake, Kolkata or successor thereof.
2(vii)	Director General/CPWD Directorate	It includes Director General/ Special Director General (Kolkata)/ SE-Barasat
	Successor	Any authority as notified by the CPWD Directorate before, during or after execution of work/ Agreement
2(viii)	Accepting Authority:	Executive Engineer, Barasat Central Division-II, CPWD, Barasat or successor thereof.
2(x)(a)	Percentage on cost of materials and labour to cover all overheads and profits:	15%
2(x)(b)	Standard Schedule of Rates	DSR'23
2(xi)	Department	Central Public Works Department
2(xvi)	Extra item	Those Item which are not available in the contract a. **Non-schedule Extra items** are those items which are not available in the standard scheduled of Rates specified in schedule F b. **Scheduled Extra items** are those items which are available in the standard schedule of Rates specified in Schedule F
2(xvii)	Completion cost	The completion cost includes gross amount of work done, amount of extra items and deviations and escalation admissible as per agreement etc.
9(ii)	Standard CPWD contract Form GCC 2023 (Construction)	GCC 2023(Construction), CPWD Form 7 as modified & corrected upto last date of submission of tender (whether correction vide latest circulars are incorporated or not in this document)

Clause 1

(i)	Time allowed for submission of Performance Guarantee, Programme Chart (Time and Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board or Proof of applying thereof from the date of issue of letter of acceptance:	07 days
(ii)	Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above:	03 days

Clause 2

Authority for fixing compensation under clause 2 :	Superintending Engineer, Barasat Central Circle, CPWD, Barasat or successor thereof.

Clause 2A

Whether Clause 2A shall be applicable	N.A.

Clause-3: Applicable as modified/as per amendment upto date till the date of acceptance of tender

Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start	10 days

Clause 5.2 Delay due to reasons beyond the control of both parties

Nature of Hindrance Register	As per OM No. DG/MAN/394 Dated: 28/01/2020

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

SL No.	Financial Progress	Time Allowed (From date of start)	Amount to be with-held in case of non-achievement of milestone
1	Full work	03 months	In the event of not achieving the necessary progress as assessed from the running payments, **5%** of the tendered value of work will be withheld for failure of milestone.

Time allowed for execution of work	03 Months

Clause 5.4

Schedule of rate of recovery for delay in submission of the modified programmed in terms of delay per day basis.

Sl. No.	Contract value	Recovery per day basis
i.	Works costing up to Rs. 20 Crores	**Rs. 500/-**
~~ii.~~	~~Works costing more than Rs. 20 Crores~~	~~Rs. 1000/-~~

Authority to decide :

(i)	Extension of time and authority to convey the decision of shifting of milestone	:	Executive Engineer, Barasat Central Division-II, CPWD, Barasat or Successor thereof
(ii)	Authority to decide rescheduling of mile stone	:	Superintending Engineer, Barasat Central Circle, CPWD, Barasat or successor thereof.
(iii)	Shifting of date of start in case of delay in handing over of site	:	Superintending Engineer, Barasat Central Circle, CPWD, Barasat or successor thereof.

Proforma of Schedule Clause 5 schedule of handing over the site

Part A	Portion of Site	Description	Time period for handling over reckoned from date of issue of letter of intent
Part-A	Portion without any hindrance	Full site	10 (Ten) days
Part-B	Portion with encumbrances	NA	NA
Part-C	Portion dependent on work of other agencies	NA	NA

Clause 6

Computerized Measure Book (CMB)/ Electronic Measurement Book (EMB)

(i) Mode of measurement: CMB/~~EMB~~

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.23.00 lacs for civil component or as decided by Engineer-in-Charge

Clause 7A

Whether Clause 7A shall be applicable -	Yes No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-in-Charge.

Clause 10A: List of testing equipment to be provided by the contractor at site lab.

Sl. No.	Name of Equipment		Numbers
1	Excavators (various sizes)		1 No.
	Equipment for hoisting & lifting		
1	Tower Crane		NIL
	Equipment for Concrete work		
1	As per agreement item		One or more as per site requirement
2	Concrete pump (Desirable)		1 No.
3	Concrete Transit Mixer		As per site requirement
4	Batch Mix Plant		1 No.
5	Semi-Automatic Batch Mix Plant		1 No.
6	Needle vibrator (electrical)		2 Nos.
7	Needle vibrator (petrol)		2 Nos.
8	Surface vibrator		2 Nos.
	Equipment for Building work		
1	Bar bending Machine		1 No.
2	Bar cutting machine		1 No.
3	Drilling machine		Nil
4	Wall grooving machine for chase cutting		2 Nos.
5	Welding machine i/c transformer		2 Nos.
6	Rig machine		NIL
7	Cube testing machines		1 No.
8	M.S. pipes	As per requirement but not less than 2.5 times plinth area of a typical floor or as directed by Engineer-in- Charge	---
9	Steel shuttering		---
10	Steel scaffolding		---
11	Grinding/polishing machines		1 No.
	Equipment for transportation		
1	Tippers		As per site requirement
2	Trucks		
	Pneumatic equipment		
1	Air compressors (diesel)		1 No.
	Dewatering equipment		
1	Pump (diesel)		1 No.

2	Pump (electric) (Desirable)	1 No.
	Power equipment	
1	Diesel Generator	1 No.

Clause 10B(ii)

Whether Clause 10 B (ii) shall be applicable	No.

Clause 10C Not Applicable

Clause 10CA Not Applicable

Clause 10CC - Not Applicable

Clause 11

Specifications to be followed for execution of work	CPWD Specifications 2019 volume -I & II with correction slips upto last date of submission of bid.

Clause 12

Type of work:	Construction Work
The completion cost includes the gross of extra item(s) and deviation(s) and escalation amount admissible as per agreement etc. The completion cost shall, in no case, exceed 1.5 times of contract amount.	
Clause 12.2 & 12.3 Deviation limit beyond which clauses 12.2 & 12.3 shall apply for building work.	100%

Clause 16

Competent Authority for deciding reduced rates	Superintending Engineer, Barasat Circle, CPWD, Barasat or successor thereof.
	Sub-standard work must be got rectified and if necessary, may be redone. Acceptance of sub-standard work at reduced rate should be done only under exceptional circumstances. Total value of quantities of items at agreement rate for which the Superintending Engineer accepts sub-standard work in a contract shall not exceed 5% of the Contract value. In case, total value of such items exceeds 5%, prior approval of SDG (Kolkata) will be necessary. The decision of Superintending Engineer regarding quantum of reduction as well as justification thereof in respect of rates for substandard work that may be decided will be final and would not be open to arbitration under clause 25 of the agreement.

Clause 18

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

Sl. No.	Name of Equipment	Numbers
1	Excavators (various sizes)	1 No.
	Equipment for hoisting & lifting	
1	Tower Crane	NIL
	Equipment for Concrete work	

1	As per agreement item		One or more as per site requirement
2	Concrete pump (Desirable)		1 No.
3	Concrete Transit Mixer		As per site requirement
4	Concrete mixer (diesel)		1 No.
5	Concrete mixer (electrical)		1 No.
6	Needle vibrator (electrical)		2 Nos.
7	Needle vibrator (petrol)		2 Nos.
8	Surface vibrator		2 Nos.
	Equipment for Building work		
1	Bar bending Machine		1 No.
2	Bar cutting machine		1 No.
3	Drilling machine		Nil
4	Wall grooving machine for chase cutting		2 Nos.
5	Welding machine i/c transformer		2 Nos.
6	Rig machine		NIL
7	Cube testing machines		1 No.
8	M.S. pipes	As per requirement but not less than 2.5 times plinth area of a typical floor or as directed by Engineer-in- Charge	---
9	Steel shuttering		---
10	Steel scaffolding		---
11	Grinding/polishing machines		1 No.
	Equipment for transportation		
1	Tippers		As per site requirement
2	Trucks		
	Pneumatic equipment		
1	Air compressors (diesel)		1 No.
	Dewatering equipment		
1	Pump (diesel)		1 No.
2	Pump (electric) (Desirable)		1 No.
	Power equipment		
1	Diesel Generator		1 No.

Note:

1. The above list is only indicative and not exhaustive. The contractor may be required to deploy more T&P as per requirement of work.
2. All the above plants & equipment's are to be deployed as and when required or directed by Engineer-in-Charge.

Clause 19	**Labour laws to be complied by the contractor as per OM No. DG/CON/Construction2023/08 dated 05-03-2024.**	
Clause 19A	No person below the age of fourteen years shall be employed on the work.	No person below the age of fourteen years shall be employed on the work. However Adolescent Persons can be employed on non-hazardous works/process as per OM DG/CON /Construction 2023/05 dated 08-02-2024.

Clause 19B	Payment of Wages	(i)The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in the C.P.W.D. Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971 and Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 - sec. 3 (ii) amended time to time. Thus higher of the wages either notified by Govt. of lndia, Ministry of Labour and/or that notified by the local administration of the State Govt. both relevant to the place of work and the period of reckoning shall be paid by the contractor to the labourer .(V) The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, '1923, lndustrial Disputes Act, '1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act '1970, Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 - sec. 3 (ii) and er the modifications thereof or any other laws relating thereto and the rules made there under from time to time as per OM DG/CON /Construction 2023/06 dated 01-03-2024
Clause 19C	Authority to decide penalty for each default	Executive Engineer, BCD-II, CPWD, Nizam Palace, Kolkata or successor thereof.
Clause 19D	Authority to decide penalty for each default	Executive Engineer, BCD-II, CPWD, Nizam Palace, Kolkata or successor thereof.
Clause 19G	Authority to decide penalty for each default	Executive Engineer, BCD-II, CPWD, Nizam Palace, Kolkata or successor thereof.
Clause 19K	Employment of skilled / semi-skilled workers.	Applicable as per DG/CON/304 dated 15.10.2018

Clause 25

(a)	Conciliator	-	Special Director General (Kolkata) CPWD, Kolkata or his Successor thereof.
(b)	Arbitrator Appointing Authority	-	SE-Barasat, CPWD, Kolkata or his Successor thereof.
(c)	Place of Arbitration	-	Kolkata

Clause 32: Requirement of Technical Representative(s) and recovery Rate

Cost of work	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical/ Technical) Representative	Minimum Experience (year)	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause36(i)	
					Figure	Words
~~1.~~	~~Graduate Engineer~~	~~1 of major component~~	~~Principal Technical Representative~~	~~5 Years~~	~~Rs. 25000/- per month~~	~~Rupees Twenty Five thousand only per person per month~~
More than 15 Lacs to 1.5 Crore	Graduate Engineer Or Diploma Engineer	1 of major component	Project Manager cum Planning/Quality/ Site / Billing Engineer	2 Years Or 5 Years respectively	Rs. 15,000/- per month Per person	Rupees Fifteen thousand only per person per month

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

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

Clause 38

(i)	(a)	Schedule/ statement for determining theoretical Quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2021 with up-to-date Correction slips.	DSR 2023 with correction slips up to the last date of submission of tender	
(ii)	Variations permissible on theoretical quantities:	Variations	Recoveries proposed	
			Plus side	Minus Side
a	Cement for works with estimated cost put to tender not more than Rs.25 lakh.	± (plus / minus) 3 % (Three percent)	Nil	Not Permitted
b	For works with estimated cost put to tender more than Rs 25 lakh.	± (plus / minus) 2 % (Two percent)	Nil	Not Permitted
c	Bitumen all works	+ (plus) 2.5% (Two-point five percent) only and nil on – (minus) side.	Nil	Not Permitted
d	Steel reinforcement and structural steel sections for each diameter, section and category	± (plus / minus)2% (Two percent) only	Nil	Not Permitted
e	All other materials	NIL	Nil	Not permitted
f	Schedule / statement for determining theoretical consumption of Red Brick work on the basis of Calcutta Schedule of Rate 1994 may be followed.			

On non-judicial stamp paper of minimum Rs.100

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

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

Whereas the **Executive Engineer, Barasat Central Division-II, Central Public Works Department, Nizam Palace, Kolkata-20** on behalf of the President of India (hereinafter called "The Government") has invited bids under **NIT No. 44/EE/BCD-II/2026-27** for "***Construction of Implement Shed for Farm Implement at ICAR-CRIJAF, Barrackpore"***

1. ." The Government has further agreed to accept irrevocable Bank Guarantee for Rs……. (Rupees……. Only) valid up to……. (date)* as Earnest Money Deposit from…… (name and address of contractor) …… (herein after called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

~~OR**~~

~~Whereas the Executive Engineer, Barasat Central Electrical Division, CPWD, Salt Lake, Kolkata on behalf of the President of India (herein after called "The Government") has invited bids under NIT No. ******** for " *********." The Government has further agreed to accept irrevocable Bank Guarantee for Rs……. (Rupees……. Only) valid up to…. (date)* as Performance Guarantee/security Deposit/Mobilization Advance 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.~~

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

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

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(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.

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

6. We, …….. (indicate the name of the Bank)……., further agree with the Government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor(s)

from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).

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 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 ……..) and unless a claim in writing is lodged with us within the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.
Date ……..

Authorized Signatory
Name
Designation
Staff code No.

Witnesses:

1. Signature ……..
Name and address

2. Signature……
Name and address

* The Performance Guarantee shall be submitted by the contractor on format as per GCC and shall be initially valid up to the stipulated date of completion plus minimum 6 months beyond that.
**In paragraph 1, strike out the portion not applicable. Bank Guarantee will be made either for earnest money or for performance guarantee/Security deposit/mobilization advance, as the case may be.

APPENDIX – XVII

Reference of disputes and amount claimed for each dispute to the Conciliator.

[Refer to Clause 25]

To
The ADG/SDG
……(Region)……...
…….
Subject: Reference of disputes and amount claimed for each dispute to the Conciliator for settlement of disputes relating to agreement number: ……

Dear Sir,

In terms of clause 25 of the aforesaid agreement, particulars of which are given below. I/We hereby refer my / our disputes and amount claimed for each dispute to you for settlement in your capacity as Conciliator.

1. Name of applicant
2. Whether applicant is Individual / Proprietorship Firm /Partnership Firm /Company
3. Full address of the applicant
4. Name of the work and contract number for which arbitration is sought
5. Name of the Division which entered into contract
6. Contract amount
7. Date of contract
8. Stipulated date of start of work
9. Stipulated date of completion of work
10. Actual date of completion of work (if completed)
11. Total number of claims made:
12. Total amount claimed
13. Date of intimation of final bill (if work is completed)
14. Date of payment of final bill (if work is completed)
15. Amount of final bill (if work is completed)
16. Date of claim made to Engineer-in-Charge:
17. Date of receipt of decision from Engineer-in-Charge:

I/We certify that the information given above is true to the best of my / our knowledge. I/We enclose the statement of claims with amount of each claim.

Yours faithfully,

Signature of the applicant
(Only the person/authority who signed the Contract should sign here)

Copy to:

1. The Chief / Superintending Engineer …….
2. The Executive Engineer……. Division

APPENDIX – XVIII
Notice for appointment of Arbitrator
[Refer to Clause 25]

To
The Chief Engineer/Superintending Engineer
…… (Zone or Circle) …….
…….

Subject: Notice for appointment of Arbitrator for adjudication of disputes relating to agreement number: ……

Dear Sir,

In terms of clause 25 of the aforesaid agreement, particulars of which are given below. I/We hereby give you notice to appoint an Arbitrator for adjudication of disputes mentioned below.

1. Name of applicant
2. Whether applicant is Individual / Proprietorship Firm /Partnership Firm /Company
3. Full address of the applicant
4. Name of the work and contract number for which arbitration sought
5. Name of the Division which entered into contract
6. Contract amount
7. Date of contract
8. Stipulated date of start of work
9. Stipulated date of completion of work
10. Actual date of completion of work (if completed)
11. Total number of claims made:
12. Total amount claimed
13. Date of intimation of final bill (if work is completed)
14. Date of payment of final bill (if work is completed)
15. Amount of final bill (if work is completed)
16. Date of reference made to SDG/ADG for conciliation, if applicable:
17. Date of termination of conciliation proceedings:
18. I/We hereby give consent for appointment of Arbitrator of MoHUA. Waiver agreement as per Appendix-XIX is enclosed. or I/We do not give consent for appointment of Arbitrator of MoHUA

I/We certify that the information given above is true to the best of my / our knowledge. I/We enclose the following documents

1. Statement of claims with amount of each claim.
2. "Agreement of waiver of Section 12(5) of the Arbitrator and Conciliation Act, 1996 in Appendix –XIX.

Yours faithfully,

Signature of the applicant
(Only the person/authority who signed the
Contract should sign here)

Copy to:

3. The Executive Engineer……. Division

APPENDIX – XIX
Agreement towards waiver of Section 12(5) of Arbitration & Conciliation Act 1996
[Refer to Clause 25]

1. Whereas certain disputes have arisen between M/s……. (claimants) and M/s ……. (respondents) relating to agreement No……

2. And whereas the parties are aware that Shri……. is on the cadre of CPWD; presently on deputation as Arbitrator, Ministry of Housing and Urban Affairs, Government of India.

3. I/We agree for the appointment of Shri……. as the sole Arbitrator for adjudication of the disputes, and we hereby waive the applicability of Section 12(5) of the Arbitration & Conciliation Act, 1996.

Yours faithfully,

Signature
(Only the person/authority who signed the Contract should sign here)
Name …….

Date: ……

(The name of the Arbitrator, Ministry of Housing and Urban Affairs, Government of India may be enquired from the Engineer-in-Charge, if required)

(Proforma for encashment of BG to be issued 14 days before its expiry)

To
The Manager
….. (Name and address of bank) ….
…….
…….

Subject: Request for encashment of Bank Guarantee number ……. dated …… for Rs……. Valid up to ……. towards earnest money deposit / performance guarantee / security deposit / mobilization advance (as applicable).

Name of contractor:

Dear Sir,

The above-mentioned Bank Guarantee number …… dated …… is valid up to ……. in terms of paragraph 2 of the said Bank Guarantee, the Government of India hereby demands a sum of Rs……. (Rupees ……. only) payable under this Bank Guarantee since this amount is required to meet the recoveries due from ……. (Name of the contractor) ……. The amount shall be paid latest by …… (give date) ……. By transfer to account number …….

The aforesaid Bank Guarantee is being sent to you through …… (name and designation) …… along with this letter.

Enclosure: Bank Guarantee

Yours faithfully,

Name of Executive Engineer
……Division, CPWD
……. Landline number
……Mobile number

Copy to: …….....(Name & address of the contractor) ……

Executive Engineer

(Proforma for extension of BG to be issued 30 days before its expiry)

To
….. (Name and address of contractor) ….
…….
…….

Subject: Extension of Bank Guarantee number ……. Dated …… issued by ……. (Name of Bank) …….

Name of Work
……
……
Agreement Number …….

Dear Sir,

The Bank Guarantee number …… dated …… submitted by you for the above-mentioned work as security deposit/performance guarantee/ mobilization advance/ earnest money deposit (as applicable) is valid up to ……

The validity of the aforesaid bank guarantee needs to be extended because ……. (Give reasons) …….

You are, therefore, requested to get the validity of the said Bank Guarantee extended up to ……. and submit the same to this office within 15 days from the issue of this letter failing which it shall be uncashed without further notice.

Yours faithfully,

Executive Engineer
……Division, CPWD

[Note for EE: If extended Bank Guarantee is not received by the prescribed date, action for encashment must be initiated].

Addition .. NIL
Delition .. NIL
Correction.. NIL
Overwriting.. NIL

GENERAL TERMS & CONDITIONS

1. The work shall be carried out as per description of item given in the "Schedule of Quantities", General conditions, Special conditions, BIS/IRC Specifications and CPWD Specifications 2019 Vol. I & II (with up-to-date correction slips) unless and otherwise specified in individual item or items in the schedule of quantity of the work.

2. The order of preference regarding applicability of various specifications and special condition shall be as given below:

   a) Nomenclature of items given in the schedule of quantities in the tender.

   b) Particular Specifications

   c) Special conditions.

   d) General Conditions

   e) Contract & Clauses as per Standard CPWD form 2023 with up to date.

   f) C.P.W.D. Specifications 2019 volume I to II with up-to-date correction slips.

   g) IRC specifications. Wherever these specifications are referred for this work, the latest one at the time of issue of the tenders shall be taken into consideration

   h) I.S. Codes or specifications. Wherever I.S. code is to be referred for this work, the latest one at the time of issue of the tenders shall be taken into consideration.

   i) Directions of Engineer-in-charge shall be applicable where none of the above are to be applied.

3. The contractor(s) shall inspect the site of work before tendering and acquaint himself with the site conditions and no claim on this account shall be entertained by the department.

   The contractor(s) shall also see the approaches to the site in case any approach from main road is required at, site or existing approach is to be improved and maintained for cartage of materials by the contractor, the same shall be provided, improved and maintained by the contractor at his own cost. No extra payment whatsoever shall be made on this account.

4. The contractor(s) shall get himself acquainted with nature and extent of the work and satisfy himself about the availability of materials from kiln or approved quarries for collection and conveyance of materials, suitable location for construction of godown, store, camp, transport facilities the extent of leads and lifts.

5. The contractor shall quote the percentage above or below the estimated cost in figures and words accurately so that there is no discrepancy in figures and words and total amount. If only percentage is written and above or below not quoted, then it will be assumed that rates / percentage quoted is below the estimated rates. The percentage rate quoted by the contractor shall include cost of materials, labour i/c all leads, lifts and depths etc. unless & otherwise specified in the nomenclature of item or items.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

6. The contractor & his work people shall observe all relevant rules regarding security promulgated in which work is to be carried out by the controlling authority of the area.

7. All the materials such as stone aggregate, screening materials , sand, bricks, cement and pipes etc. to be used in the work, shall have to be got approved from the Engineer-in-charge or his authorized representative prior to use in the work failing which work shall not be measured & paid for.

8. The contractor shall construct suitable Godown / stockyard at the site of work for safe storing of materials, like cement, bitumen and other materials, against damage by sun, rain, dampness, fire, theft etc at his own cost. He shall also employ watch & ward personnel(s), for plants and machinery and other materials issued and arranged by him at his own cost and no extra payment shall be made on this account.

9. No tools & plants or machinery shall be supplied by the department.

10. The contractor shall make his own arrangements for electricity and water required for the execution of the work and nothing extra shall be paid for the same. However, for electrical connection, Engineer-in-charge shall recommend the application to concerned authority for Electrical connection if required. Necessary payment shall be made by the contractor directly to the department concerned. In case the concerned authority fails to sanction the electric connection or delays the sanction of electric connection, the contractor shall make his own arrangements by providing diesel generators of adequate capacity at his own cost.

11. For water supply, contractor shall make his own arrangement including boring of tube well, if necessary, and nothing extra shall be paid by the Department for arrangement of water or on its treatment as per requirements laid down in IS: 456 / 2000 Para 5.4 or CPWD Specification 2019 Volume-I to II with upto date correction slips.

12. Roadside proper accommodation for labour / workmen, as per contract labour regulation Act, shall be provided by the contractor at his own cost & nothing extra shall be paid by the department.

13. Unserviceable materials shall have to be removed and disposed off to places as decided by the Engineer-in-charge.

14. The contractor shall at all time carry out the works on the road in a very systematic manner without interference to the flow of traffic and consistent with the satisfactory & timely execution of the work. For all works, the contractor shall maintain a passage for traffic either along a part of the existing carriage-way under improvement or along temporary diversion constructed close to the road for this purpose as directed by Engineer-in-Charge for which nothing extra shall be paid.

15. The contractor shall also provide necessary barricade, informatory boards, lights and flagmen at either end of the execution area and at such intermediate points as required & as directed by the Engineer-in-charge at no extra cost.

16. The work shall have to be executed in Kolkata areas. Contractor(s) should inspect the site, so as to apprise himself / themselves of the site condition, before tendering. Being a Kolkata area their could be some restriction by Security agencies and the contractor has to follow and no extra claim on this account shall be entertained by the department.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

17. The Executive Engineer by prior notice in writing to the contractor may reduce/increase the scope of work. In case of deviation in quantities, no extra claim except as otherwise provided in General Conditions of Contract 2023 shall be entertained by the department.

18. The contractor(s) shall submit " Time & Progress chart " for execution of work in different reaches showing activities distinctly along with Bar-Chart within fifteen days of the letter of acceptance of work in direct relation to the time stated in the contract document for completions of items of the works as per different milestone fixed indicating the forecast of date of commencement and date of completion of various items / activities kilometer wise from start point to end point of road as per agreement for adherence during execution.

If any time, it appears to the Engineer-in-charge that the actual progress of work does not confirm to the approved programme referred above, the contractor shall produce a revised programme showing the modifications to the approved programme by additional inputs to ensure completion of the work within the stipulated time.

In case the contractor fails to achieve individual milestone as specified in Schedule F, action shall be taken as per clause 5 & other relevant clauses of the General Conditions of Contract 2023.

19. The item of concreting/premixing shall be started / executed strictly under prior written approval of the Executive Engineer at appropriate time indicating the quantities and reaches / length and shall be liable for any consequences of wastage / damage / loss / non-payment etc.

20. The contractor has to deploy necessary Tools & Plants in required numbers to ensure smooth & timely execution of work, at his own cost & risk as per the requirement of work at different stages. The decision of Engineer-in-charge shall be final regarding use of particular T & P(s) at a particular time(s) & the contractor has to adhere the same strictly. The Contractor shall be responsible for further running and maintenance and safety of all T&P. No claim whatsoever , for any loss or damage or idle Plant & Machinery, due to insurgency , accidents , theft prevailing at site , availability of materials, availability of land , suitable location for construction of Godown, stores and camp , transport facility including local conditions or other reasons shall be entertained by the Department.

21. The rates of materials shall be inclusive of all taxes such as Sale Tax, Royalty, Octeroi etc. and contractor shall be liable to pay the same direct to the concerned department. No claim on this account shall be entertained by the department.

22. In case of any calamity or injury to any labour / workmen etc. or loss / wastage of materials due to nature or insurgency, contractor shall have to bear the cost of compensation and no claim to this effect shall be entertained by the department.

23. The contractor shall keep himself ready for execution of any item / items of work / part of the item of work on emergent notice given by the Engineer-in-charge on day to day basis during rainy season.

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

25. Royalty / Octeroi at the prevalent rates and all other incidental expenditure shall have to

be paid by the contractor, on all the boulders, road metal, stone aggregate, river bed 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 Government. The rates mentioned in the documents relating to this contractor are deemed to include all such expenditure and nothing extra shall be paid on this account.

26. The contractor shall maintain in good condition all work executed till the completion of the entire work entrusted to the contractor under this contract & nothing extra shall be paid on this account.

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

28. The tenderer shall abide by the rules and regulations of respective State Value Added Tax / Works Contract Tax Act etc. Necessary deductions on account of taxes shall be made on the gross value of the work done from the bills of the contractor as per the provisions of above stated Acts. Necessary certificates for tax deduction at source shall be issued to the contractor by the Engineer in Charge. The decision of the Engineer in Charge regarding quantum of tax deducted at source shall be final and binding on the contractor.

29. Necessary permit etc. for utilization of forest produce would be obtained by the contractor directly from the Forest Authority. Necessary Forest Royalty Clearance Certificate (FRCC) from the Forest Authority shall be submitted by the Contractor to the Engineer-in-Charge along with the Bills for the work. Engineer-in-Charge reserves the right to deduct any sum considered reasonable towards forest royalty from the Running Accounts Bills of the Contractor, in the event on non-submission of FRCC. In case the contractor does not submit FRCC a sum considered reasonable towards payment of forest royalty would be deducted by the Engineer-in-Charge from the final bill of the work and credited to the Government accounts. The Engineer-in-Charge would determine the quantum of materials consumed on which such royalty is payable and also the rate of royalty payable. The decision of the Engineer-in-Charge shall be final and binding on the matter.

30. All test registers and material at site register shall be maintained by the Contractor which will be reviewed by the Officers of CPWD at regular intervals. These registers shall be issued to the contractor by the Engineer-in-Charge. Contractor shall be responsible for safe custody of all the test registers.

31. The contractor shall provide at his own cost suitable weighing and measuring equipments /instruments as may be necessary at site for checking purposes. All such equipments /instruments shall be got tested for calibration in advance from laboratory approved by the Engineer-in- Charge. All the expenditure to be incurred for testing of samples, e.g., packaging, sealing, transportation, loading, unloading etc. including testing charges shall be borne by the contractor.

32. The work has to be carried out at different stretches and nothing extra will be payable on account of shifting of T&P, Machinery, Labour and materials etc.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

GENERAL REQUIREMENT OF THE TENDERER

Name of Work: **Construction of Implement Shed for Farm Implement at ICAR-CRIJAF, Barrackpore**

1 The tenderer is advised to read and examine the tender documents for the work and the set of drawings available with Engineer-in-charge. He should inspect and examine the site and its surroundings by himself before submitting his tender.

2 Separate schedule of quantity is included in this tender for Civil items of work. If the tenderer wants to offer any unconditional rebate on their rates, the same should also be offered in the respective components of civil schedule separately. The contractor shall quote the percentage rates in figures and words accurately so that there is no discrepancy in rates written in figures and words.

3 Time allowed for the execution of work is **03 Months.**

4 The contractor(s) shall submit a detailed program of execution in accordance with the master programme/milestone within ten days from the date of issue of award letter.

5 Contractor has to arrange and install required plant and machinery during the urgency of work and nothing extra will be paid on this account.

6 Quality of the project is of utmost importance. This shall be adhered to in accordance with the provisions of CPWD specifications and guidelines given in the relevant paras.

7 The contractor (s) shall make his own arrangements for electricity and water required for the execution of work.

8 All materials to be used in the work of this NIT shall be arranged by the contractor himself.

9 Contractor has to engage specialized agencies for specialized items of works such as structural glazing, ACP, water proofing, RCC overhead tank, sewage treatment plant, truss fabrication and other specialized items if mentioned in the tender documents. Approval of the specialized agencies for each specialized work shall be obtained from the Engineer-in-Charge within one month of award of work. Even if, such specialized items of work shall be executed by the specialized agencies, the work shall be deemed to be executed by the tenderer for all purposes and the responsibility of the quality of items of works executed etc. shall continue to be that of the tenderer only.

10 Contractor has to deploy required Plant and machinery on the project. Minimum number of plant and machinery to be deployed by him is indicated in NIT. In case the contractor fails to deploy the plant and machinery whenever required and as per the direction of the Engineer-in-charge, he (Engineer-in-charge) shall be at a liberty to get the same deployed at the risk and cost of the contractor.

11 The contractor shall submit the running bills in the shape of the c-MB in pages of A-4

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

size as per the standard format of department and shall act as per modified clause 6 of CPWD-7

12 Contractor has to provide reinforcement cover blocks made of approved proprietary pre packed free flowing mortars.

13 The contractor shall comply with the provisions of the Apprentices Act 1961, and the rules and orders issued there under from time to time.

14 The contractor should either himself meet the eligibility conditions for the respective E&M & Horticulture packages or otherwise he will have to associate an agency meeting the eligibility requirements. The proposal for associate agency for all packages of E&M and Horticulture shall be submitted within one month from the date of award for verification and approval of the Department. Consent letter of such proposed agencies for association along with verifiable completion certificates of the work/ registration/approval documents as the case may be, duly attested by the applicant, valid Electrical Contractor's license, duly attested by the applicant and self-attested GST registration documents in respect of the associated agencies shall also be submitted along with the proposal.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II EE/BCD-II

Material and Quality Assurance

1. The contractor shall ensure quality control measures on different aspects of construction including materials, workmanship and correct construction methodologies to be adopted. He shall have to submit quality assurance programmed within two weeks of the award of work. The quality assurance programmed should include method statement for various items of work to be executed along with check lists to enforce quality control.

2. The contractor shall get the source of all other materials, not specified elsewhere in the document, approved from the Engineer-in-Charge. The contractor shall stick to the approved source unless it is absolutely unavoidable. Any change shall be done with the prior approval of the Engineer-in-Charge for which tests etc. shall be done by the contractor at his own cost. Similarly, the contractor shall submit brand/ make of various materials not specified in the agreement; to be used for the approval of the Engineer-in-Charge along with samples and once approved, he shall stick to it.

3. The contractor shall submit shop drawings of staging and shuttering arrangement, aluminum work, Steel truss work and other works as desired by Engineer in Charge for his approval before execution. The contractor shall also submit bar bending schedule for approval of Engineer –in – charge before execution.

4. Test Laboratories:

A) Laboratory at site:

The contractor shall establish a testing lab at site and provide testing equipment and materials for the field tests mentioned in the list of mandatory tests given in CPWD specifications 2019 Vol. 1 & 2 with up-to-date correction slip. Nothing extra shall be payable to him on this account.

The representatives of the department shall be at liberty to inspect the testing facilities at site and conduct testing at random in consultation with Engineer in charge. The contractor shall provide all necessary facilities for this purpose. The laboratory shall be equipped, inter alia, with the following equipment's:

a) Balances:

i) 7 kg 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 gm.

b) Ovens- Electrically operated, thermostatically controlled up to 1100C- Sensitivity 10C.

c) Sieves: as per IS: 460

i) IS Sieves – 450 mm internal dia of sizes 100 mm, 80 mm, 63 mm, 50 mm, 40 mm, 25 mm, 20 mm, 12.5 mm, 10 mm, 6.3 mm, 4.75 mm, complete with lid and pan.

ii) IS Sieves – 200 mm internal dia (brass frame) consisting of 2.36 mm, 1.18 mm, 500 microns, 425 microns, 300 microns, 212 microns, 150 microns, 90 microns, 75 microns with lid and pan.

d) Sieve shaker capable of 200 mm and 300 mm dia sieves, manually operated with timing switch assembly.

e) Equipment for slump test- slump cone, steel plate, taping rod, steel scale, scoop.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

f)	Equipment for concrete testing	
i)	Concrete cube moulds 15x15x15cm.	18Nos.
ii)	Tamping Rods 2Kg weight length 40cm and ramming face 25mm	1 No.
iii)	Extra Bottom plates for 15cm cube mould	6 Nos.
iv)	Standard Vibration table for cubes	1 No
v)	Dial gauges 25 mm travel- 0.01 mm/division Least count-	1 No.
vi)	Compression testing machine of 100 tonne capacity.	1 No.

Not less than 90% tests for material be performed at site lab with above stated equipment's, however at least 10% testing of materials shall be got done from external laboratories. However, for the tests to be carried out by the external laboratories, the contractor shall supply free of charge all the materials required for testing, including transportation. If the tests which were to be conducted in the site laboratory are conducted in other laboratories for any the reasons the cost of such tests shall be borne by the contractor.

B) Other Laboratories:

(i) B1 The contractor shall arrange carrying out all tests required under the agreement through the laboratory as mentioned in NIT at page- 62 or as approved by SDG(Kolkata) and shall bear all expenditure including testing of samples e.g., packaging, sealing, transportation, loading, unloading etc. including charges for testing for all materials shall be borne by the contractor. Testing of all materials shall be done as given in CPWD specifications 2019 Vol. 1 & 2 with up-to-date correction slip. In case contractor is not making the necessary testing or delaying the same, the same shall be done/updated immediately by JE/AE/EE without any delay with necessary cost recovery from contractor. The recovery amount may be decided by Engineer-in-charge.

C) Sampling of Materials:

C1 Sample of building materials fittings and other articles required for execution of work shall be got approved from the Engineer-in-Charge. Articles manufactured by companies of repute and approved by the Engineer-in-Charge shall only be used. Articles bearing BIS certification mark shall be used in case the above are not available, the quality of samples brought by the contractor shall be judged by standards laid down in the relevant BIS specifications. All materials and articles brought by the contractor to the site for use shall conform to the samples approved/tested by the Engineer-in-Charge which shall be preserved till the completion of the work by AE.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

C2 The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material/work beyond set out tolerance limit shall be summarily rejected by the Engineer-in-Charge.

C3 BIS marked materials except otherwise specified shall be subjected to quality test at the discretion of the Engineer-in-Charge besides testing of other materials as per the specifications described for the item/materials. Wherever BIS marked materials are brought to the site of work, the contractor shall if required, by the Engineer-in-Charge furnish manufacturers test certificate to establish that the material produced by the contractor for incorporation in the work satisfies the provisions of BIS codes relevant to the material and/or the work done.

C4 The contractor shall procure all the materials in advance so that there is sufficient time to testing and approving of the materials and clearance of the same before use in work.

C5 All materials brought by the contractor for use in the work shall be got checked from the Engineer-in-Charge or his authorized representative of the work on receipt of the same at site before use.

C6 The contractor shall be fully responsible for the safe custody of the materials issued to him even if the materials are in double lock and key system.

C7 The Stone aggregate/stone, sand shall be brought from any quarries subjected to the said materials confirm CPWD specifications.

5 The day-to-day receipt and issue accounts of different grade/brand of cement shall be maintained separately in the standard proforma by the Engineer-in-Charge of work and which shall be duly signed by the contractor or his authorized representative.

6 The contractor shall render all help and assistance in documenting the total sequence of this project by way of photography, slides, audio-video recording etc. Nothing extra shall be payable to the contractor on this account.

7 Separate cement registers showing the receipt of the OPC and PPC shall be maintained at site. The contractor shall construct separate godowns for storage of OPC & PPC at site and nothing extra on this account shall be payable.

8 Cement issued shall be for consumption at site only. No cement for factory made items and those not manufactured at site shall be issued.

9 In case there is any discrepancy in frequency of testing as given in the list of mandatory test and that in the individual sub-head of work as per CPWD specification 2019 Vol. 1 & 2 the higher of the two frequencies of testing shall be adopted.

10 Maintenance of Works Register:

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

(ii) The registers to be issued to the contractor are:

a) Materials at site account register.

b) Cement register.

c) Master test registers.

d) Cube test register.

e) Paint register.

f) Drawing register.

g) Site order Book.

(iii) All the entries in the register will be made by the designated engineering staff of the contractor and same should be regularly reviewed by JE/AE/EE. In case contractor is not making the necessary entries or delaying the same, the same shall be done/updated immediately by JE/AE/EE without any delay with necessary cost recovery from contractor. The recovery amount may be decided by Engineer-in-charge.

(iv) Contractor shall be responsible for safe custody of all the registers issued to him.

(v) Submission of copy of all test registers, material at site register along with each alternate running account bill and final bill shall be mandatory. These registers should be duly checked by AE(P) in division office.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II EE/BCD-II

Additional Conditions for Cement

1 The contractor shall procure PPC conforming to IS: 1489 (Part 1) as required in the work from reputed manufacturers of cement such as ACC, Ultratech, Vikram, Shree Cement, Ambuja, Jaypee Cement, Century Cement & J.K. Cement or from any other reputed cement manufacturer having a production capacity not less than 1 million tons per annum as **approved by SDG (Kolkata)/Superintending Engineer – Barasat, CPWD, Kolkata.**

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

3 The cement shall be brought at site in bulk supply of approximately 50 tonnes or as decided by the Engineer- in- charge. The cement godown of the capacity to store a minimum of 2000 bags of cement or decided by NIT approving authority in case less than 100 MT cement is required for work, shall be constructed by the contractor at site of work for which no extra payment shall be made.

4 Double lock provision shall be made to the door of the cement godown. The keys of one lock shall remain with the Engineer-in-Charge or his authorized representative and the 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 at any time.

5 The cement shall be got tested by the Engineer-in-charge and shall be used on the work only after satisfactory test results have been received. The contractor shall supply free of charge the cement required for testing including its transportation cost to testing laboratories. All expenditure to be incurred for testing of samples e.g., packaging, sealing, transportation, loading, unloading etc. including testing charges shall be borne by the contractor.

6 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in clause 38 of the contract and shall be governed by conditions laid therein. In case the cement consumption is less than theoretical consumption including permissible variation, recovery at the rate so prescribed shall be made after ensuring structural soundness and stability on the basis of testing. In case of excess consumption, no adjustment shall be made.

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

8 The damaged cement shall be removed from the site immediately by the agency on receipt of a notice in writing from the Engineer-in-charge. If he does not do so within 3 days of receipt of such notice, the Engineer-in-charge shall get it removed at the cost of the contractor.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

Special Conditions for Steel Reinforcement Bars.

1. **The contractor shall procure only TMT bars Corrosion Resistant Steel of Fe 500 D or more grade from steel producers such as SAIL, Tata Steel Ltd, RINL, Jindal Steel & Power Ltd and JSW Steel Ltd or their authorized dealers.**
2. TMT bars shall meet the provisions of IS 1786: 2008 (Indian Standard specifications for high strength deformed steel bars and wires for concrete reinforcement) pertaining to Fe 500 D or more grade of steel.
3. The contractor shall have to obtain manufactures certificate stating the process of manufacture, chemical composition and test sheet giving results of each mechanical test applicable to the materials and submit and furnish to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work. Each test certificate shall indicate the number of cast to which it applies, corresponding to the number or identification mark to be found on the material.
4. Steel bars brought by the contractor for use in the work shall be got checked from the Engineer-in-Charge or his authorized representative of the work on receipt of the same at site before use. Samples of each confinement shall be taken and got tested by the Engineer-in-charge for chemical composition and physical properties (including bend and re-bend test) as per the provisions in this regard in the relevant BIS codes from any Govt. or approved laboratory. 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 of written orders from the Engineer-in-charge to do so.
5. The steel reinforcement shall be brought to the site in bulk supply of 30 tonnes or more or as directed by the Engineer-in-charge.
6. The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent distortion & 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.
7. 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 at frequency not less than that specified below:

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

8. All the expenditure to be incurred for testing of samples, e.g., packaging, sealing, transportation, loading, unloading etc. including testing charges shall be borne by the contractor.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

9. If the quantity of steel actually used in the work is found to be more than the theoretical quantity of steel including authorised variation, nothing extra shall be payable to the contractor on this account. In the event of it being discovered that at any stage or after the completion of the work the quantity of steel 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 steel so less used shall be recovered from the contractor at rate as specified in schedule 'F'. Decision of the Engineer-in-Charge in regard to theoretical quantity of steel which should have been actually used and recovery of the rate specified shall be final and binding on the contractor. In case the contractor brings surplus quantity of steel the same after completion of the work will be removed from the site by the contractor at his own cost after approval of the Engineer-in-Charge.

10. The standard sectional weights referred to as in Table 5.4 under para 5.3.4 in CPWD specifications for works 2019 Vol. 1 will be considered for conversion of length of various sizes of MS bars, Tor steel bars and TMT bars into standard weight.

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

12. If the derived weight as in para 10 above is lesser than the standard weight as in para 9 above, the derived actual weight shall be taken for payment.

If the derived actual weight is found more than the standard weight then the standard weight as worked out in para 9 above shall be taken for payment. In such case nothing extra shall be paid for the difference between the derived actual weight and the standard weight.

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

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

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

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

General Terms and Conditions

1 The order of preference in case of any discrepancy as indicated in condition No. 8.1 under "Conditions of Contract" give in standard CPWD contract form may be read as the following:

i) Nomenclature of items as per schedule of quantities.
ii) Particular specification and special condition, if any.
iii) CPWD specifications.
iv) Architectural Drawings
v) Indian standard specifications of B.I.S.
vi) Sound Engineering Practice

A reference made to any Indian Standard specification in these documents, shall imply to the latest version of that standard. Including such revision/amendments as issued by the bureau of Indian standard upto last date of receipt of tenders. The contractor shall keep at his own cost all such publications of relevant Indian standard applicable to the work at site.

2 Except for the items, for which particular specifications are given or where it is specifically mentioned otherwise in the description of items in the schedule of quantities the work shall generally be carried out in accordance with the "CPWD specifications 2019 Vol. 1 and Vol. 2 (with up-to-date corrections slips). (Hereinafter to be referred to as CPWD specifications) and instructions of Engineer-in-Charge. Wherever CPWD specifications are silent the latest IS codes/specification shall be followed.

3 Unless otherwise provided in the Schedule of Quantities/Specifications, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the work and nothing extra shall be payable to him on account of the same. Extra payment for centering/shuttering, if required to be done for heights greater than 3.5 m shall however be admissible at the rates arrived at in accordance with clause 12 of the agreement, if not already specified.

4 The proposed building is a prestigious project and quality of work is paramount importance. Contractor shall have to engage well experienced skilled labour and deploy modern T&P and other equipment to execute the work. Many items like

stone masonry & stone cladding works, stone flooring, structural glazing, PVDF coating aluminium composite panel and other specialized flooring work, Wood work will specially require engagement of skilled workers having experience particularly in execution of such items.

5 a) The contractor (s) shall inspect the site of work before tendering and acquaint himself with the site conditions and no claim on this account shall be entertained by the department.

b) The contractor (s) shall get himself acquainted with nature and extent of the work and satisfy himself about the availability of materials from kiln or approved quarries for collection and conveyance of materials required for construction.

6 The contractor (s) shall study the soil investigation report for the site, available in the office of the Engineer-in-Charge and satisfy himself about complete characteristics of soil and other parameters of site. However, no claim on the alleged inadequacy or incorrectness of the soil data shall be entertained.

7 The tenderer shall see the approaches to the site. In case any approach from main road is required by the contractor, the same shall be made good, improved and maintained by the contractor at his own cost. No payment shall be made on this account.

8 The contractor (s) shall give to the Municipality, Police and other authorities all necessary notices etc. that may be required by law and obtain all requisite Licenses for temporary obstructions, enclosures etc. and pay all fee, taxes and charges which may be leviable on account of these operations in executing the contract. He shall make good any damage to the adjoining property whether public or private and shall supply and maintain light and other illumination on for cautioning the public at night.

9 The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night speed limit boards red flags, red lights and providing barriers. He shall be responsible for all dangers and incidents caused to existing / new work due to negligence on his part. No hindrances shall be caused to traffic during the execution of the work.

10 Contractor shall provide permanent bench marks and other reference points for

the proper execution of work and these shall be preserved till the end of work. All such reference points shall be in relation to the levels and locations, given in the Architectural and plumbing drawings

11 The contractor shall make his own arrangement for obtaining electric connection(s) if required and make necessary payments directly to the department concerned.

12 Other agencies doing works related with this project may also simultaneously execute their works and the contractor shall afford necessary facilities for the same. The contractor shall leave such necessary holes, openings etc. for laying/burying in the work, pipes cables, conduits, clamps, boxes and hooks for fan clamps etc. as may be required for the other agencies. Nothing extra over the Agreement rates shall be paid for doing these.

13 Some restrictions may be imposed by the security staff etc. on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restrictions/instructions and nothing extra shall be payable on account of the same.

14 The contractor shall fully comply with all legal orders and directions of the Public or local authorities or municipality and adhere by their rules and regulations and pay all fees and charges for which he may be liable in this regard. Nothing extra shall be paid/reimbursed for the same.

15 The building work shall be carried out in the manner complying in all respects with the requirements of the relevant bylaws and regulations of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-charge and nothing extra shall be paid on this account.

16 The contractor shall give a performance test of the entire installation(s) as per standing specifications before the work is finally accepted by making his own arrangements for water supply, electricity etc. and nothing extra whatsoever shall be payable for the same.

17 It shall be ensured by the contractor that no electric live wire is left exposed or unattended to avoid any accidents in this regard.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

18 The structural and architectural drawings shall at all times be properly co-related before executing any work. However, in case of any discrepancy in the item given in the schedule of quantities appended with the tender and Architectural drawings relating to the relevant item, the former shall prevail unless otherwise given in writing by the Engineer-in-charge.

19 The contractor shall maintain in perfect condition, all portions executed till completion of the entire work allotted to him. Where however phased delivery of work is contemplated these provisions shall apply separately to each phase.

20 The entire royalty at the prevalent rates shall have to be paid by the contractor on all the boulders, metals, shingle sand etc. collected by him for execution of the work, directly to the Revenue authority or authorized agents of the State Government concerned or the Central Government, as the case may be.

21 PROGRAMME CHART

i) The contractor shall prepare an integrated programmed chart for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment and machinery required for the fulfillment of the programmed within the stipulated period or earlier as indicated in the mile stones under clause 5 of the contract and submit the same for approval to the Engineer-in-Charge within ten days of the award of the contract.

ii) The programmed chart should include the following: -

a) Descriptive note explaining sequence of various activities.
b) Network (PERT/CPM/BAR CHART)
c) Programmed for procurement of materials by the contractor
d) Programmed of procurement of machinery/equipment's having adequate capacity commensurate with the quantum of work to be done within the stipulated period by the contractor.
e) Programmed for engagement of labours (skilled /unskilled) in number.

22 If it appears to the Engineer-in-Charge that the actual progress of work does not conform to the approved programmed referred above the contractor shall produce a revised programmed showing the modifications to the approved programmed to

ensure completion of the work within the stipulated time for completion.

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

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

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

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

27 The contractor shall bear all incidental charges for cartage, storage and safe custody of materials issued by department.

28 Any cement slurry added over base surface for continuation of concreting for better bond is deemed to have been built in the items and nothing extra shall be payable for extra cement considered in consumption on this account.

29 The contractor shall take instructions from the Engineer-in-charge for stacking of materials. No excavated earth or building materials etc. shall be stacked/collected in areas where other buildings, roads, services, compound walls etc. are to be constructed.

30 Any trenching and digging for laying sewer lines/water lines/cables etc. shall be commenced by the contractor only when all men, machineries and materials have been arranged and closing of the trench(s) thereafter shall be ensured within the

least possible time.

31 The contractor shall submit for the approval of Engineer-in-Charge names of specialized agencies of repute along with their technical capacity proposed to be engaged by him, who must have executed satisfactorily works of value as specified in mandatory conditions.

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

33 The contractor shall take all precautions to avoid accidents by, exhibiting caution boards day and night, speed limit boards, red flags, red light and providing necessary barriers and other measures required from time to time. The contractor shall be responsible for all damages and accidents due to negligence on his part.

34 Other agencies will also simultaneously execute and install the works of electrification, air conditioning, lifts, fire-fighting etc. for this work and the contractor shall provide necessary facilities for the same. The contractor shall leave such recesses, holes openings etc. as may be required for the electric, air-conditioning and other related works (for which inserts, sleeves, brackets, conduits base pinion, clamps etc. shall be supplied free of cost by the department unless otherwise specifically mentioned) and the contractor shall fix the same at time of casting of concrete, stone work & brick work, if required and nothing extra shall be payable on this account.

35 The contractor shall conduct work so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose of the materials being used or removed so as not to interfere

with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of others.

36 All Architectural drawings given in the tender other than those indicated in nomenclature of items are only indicative of the nature of the work and materials/fixings involved unless and otherwise specifically mentioned. However, the work shall be executed in accordance with the drawings duly approved by the Engineer-in-Charge.

37 Samples of all materials and fittings to be used in the work in respect of brand manufacturer and quality shall be got approved from the Engineer-in-Charge, well in advance of actual execution and shall be preserved till the completion of the work. Articles bearing BIS certifications mark shall only be used unless no manufacturer has got BIS mark for the particular material. Any material/fitting whose sample has not been approved in advance and any other unapproved material brought by the contractor shall be immediately removed as soon as directed.

38 Unless otherwise specified in the schedule of quantities the rates for all items shall be considered as inclusive of pumping/baling out water, if necessary, for which no extra payment shall be made. Those conditions shall be considered to include water from any source such as inflow of flood, surface and sub-soil water etc. and shall apply to the execution in any season.

39 On completion of work, the contractor shall submit at his own cost four prints of "as built" drawings to the Engineer-in-Charge within 30 days of completion of work. These drawings shall have the following information:

a) Route of all piping and their diameters including soil waste pipes & vertical stacks.

b) Ground and invert levels of all drainage pipes together with locations of all manholes and connections up to outfall.

c) Route of all water supply lines with diameters, location of control valves, access panels etc.

40 No extra payment will be made for operation/activity mentioned at Sl. No. 1 to 39

above unless specifically mentioned otherwise.

41 Condition regarding secured advance: -

Secured advance shall be admissible only on those bonafide materials which are likely to be used in the work in a period not exceeding six months from the date of secured advance payment. If agency fails to use the material (in respect of which secured advance have been paid) in the work in this specified period of six month, the said component of secured advance shall be recovered from next running account bill paid to the agency. Secured advance on the same material shall not be paid again.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II EE/BCD-II

ADDITIONAL CONDITIONS

1. Unless otherwise provided in the Schedule of quantities the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing extra shall be payable to him on this account. Payment for centring, shuttering, however if required to be done for floor to floor heights greater than 3.5 m. shall be admissible at rates arrived at in accordance with clause-12 of the agreement if not already specified.

2. The contractor shall make his own arrangements for obtaining electrical service connection if required and make necessary payments directly to the department concerned.

3. Other agencies doing works related with this project will also simultaneously execute the works and the contractor shall afford necessary facilities for the same. The contractor shall leave such necessary holes, openings etc. for laying/burying in the work pipes, cables, conduits, clamps, boxes and hooks for fan clamps etc. as may be required for other agencies. Conduits for electrical wiring/cables will be laid in a way that they leave enough space for concreting and do not adversely affect the structural members. Nothing extra over the agreement rates shall be paid for the same.

4. Some restrictions may be imposed by the security staff etc. on the working and for movement of labour, materials etc. the contractor shall be bound to follow all such restriction/instructions and nothing extra shall be payable on this account.

5. (a) The building work will be carried out in the manner complying in all respects with the requirements of relevant by laws of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-Charge and nothing extra will be paid on this account.

   (b) Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should conform to bye-laws and specifications of the Municipal Body/Corporation where C.P.W.D. specifications are not available. The contractor should engage licensed plumbers for the work and get the materials (fixtures/fittings) tested by the Municipal Body/Corporation Authorities wherever required at his own cost.

   (c) The contractor shall comply with proper and legal orders and directions of the local or public authority or municipality and abide by their rules and regulations and pay all fees and charges which he may be liable.

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

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

8. Testing of materials:

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

(a) Samples of various materials required for testing shall be provided free of charge by the contractor. Testing charges, if any, shall be borne by the agency. However in case samples fail in testing, the testing charges if any shall also be borne by the contractor. All other expenditure required to be incurred for taking the samples, conveyance, packing etc. shall be borne by the contractor himself.

9. The structural and architectural drawings shall at all times be properly co-related before executing any work. However, in case of any discrepancy in the item given in the schedule of quantities appended with the tender and Architectural drawings relating to the relevant item, the former shall prevail unless and otherwise given in writing by the Engineer-in-charge.

10. The contractor shall bear all incidental charges for cartage, storage and safe custody of materials issued by department or procured by the contractor and nothing extra shall be payable to the contractor on their accounts.

11. The full nomenclature of items shall be adopted in preparing abstract of final bill in the measurement book and also in the bill form for final bill.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

ADDITIONAL SPECIFICATIONS

1.0 **GENERAL**

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

1.2 The following modifications in the above specifications and some additional specifications shall however apply:

i) All stone aggregate and stone ballast shall be of hard stone variety to be obtained from approved quarries at **Pakur or** any other source to be got approved by the Engineer-in-Charge.

ii) Sand to be used for cement concrete work, mortar for masonry and plaster work shall be of standard quality. Sand shall be obtained from **Ganges/Hooghly or** any other source to be got approved from the Engineer-in-Charge and screened as required. The same shall consist of hard siliceous material. It shall be clean sand.

2.0 Wherever any reference to any Indian Standard Specification occurs in the documents relating to this contract the same shall be inclusive of all amendments issued their to revision thereof if, any, upto the date of receipt of tenders.

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

3.1 **Brick Work.**

Bricks shall be obtained from kilns at 24 Parganas (North) **or** any other source to be got approved by the Engineer-in-Charge.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

PARTICULAR SPECIFICATION

1. **EARTH WORK**

Any trenching and digging for laying sewer lines/water lines/cables etc. shall be commenced by the contractor only when all men, machineries and materials have been arranged and closing of the trench(s) thereafter shall be ensured within the least possible time.

2. RCC WORK

The work shall be done as per CPWD specifications.

2.1 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 after the completion of the work, 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 so less used shall be recovered from the contractor at the rate as specified in schedule 'F'. Decision of the Engineer-in-Charge in regard to the quantity of cement which should have been actually used as per the schedule and recovery at the rate specified shall be final and binding on the contractor.

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

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

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

2.5 Cement register for the cement shall be maintained at site.

Cement bags shall be stored in separate godowns to be constructed by the contractor at his own cost as per sketch (which is only indicative and actual size will depend on the site requirements) given in CPWD specifications with weather proof roofs and walls. Each godown shall be provided with a single shutter door with two locks. The key of one lock shall remain with Engineer-in-charge or his authorized representative and that of the other lock with the authorized agent of the contractor at the site of work so that the cement is issued from the godown according to the daily requirements with the knowledge of both parties and proper account for the same is maintained in the standard proforma.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

PROFORMA FOR THE CEMENT REGISTER

PARTICULARS OF RECEIPT

Date of receipt	Quantity received	Progressive total	Date of issue	Quantity issued	Items of work for which issued
1	2	3	4	5	6

PARTICULARS OF ISSUE

Qty. returned at the end of the day	Total issued	Daily balance in hand	Contractor's initial	JE's initial	Remarks (AE/EE's periodical check)
7	8	9	10	11	12

2.6 **DESIGN MIX CONCRETE:**

The contractor shall be required to submit two separate design mix of concrete with and without using plasticizers/admixtures, separately. The decision of the engineer-in-charge to specify the design mix of concrete based on above shall be final.

2.6.1 Coarse aggregate: As per CPWD Specifications

2.6.2 Fine Aggregate: As per CPWD Specifications.

2.6.3 Water: It shall conform to requirements laid down in IS:456: 2000 and CPWD specifications.

2.6.4 Cement: Cement arranged by the contractor will be PPC (in bags) conforming to IS: 1489-Part-I. If for any reasons, cement other than that specified in this para for example OPC of grade 43 or higher grade is brought to site by contractor, the issue, payments rate as well as the quantity to be used in the design mix concrete will remain unchanged.

2.6.5 Slump: Design slump should be clearly specified in the mix design.

2.6.6 Admixtures shall not be used without approval of Engineer-in-charge. Wherever required, admixtures of approved quality shall be mixed with concrete as specified. The admixtures shall conform to IS: 9103. The contractor shall not be paid anything extra for admixture required for achieving desired workability without any change in specified water cement ratio for RCC/CC work.

2.6.7 The concrete mix design/laboratory tests with and without admixture shall be got done by contractor at his own cost and will be carried out by the contractor through one of the following laboratory/Test houses:

a. IIT Kharagpur, IIT Guwahati, NIT Gangtok, NIT Durgapur
b. Jadavpur University, Kolkata.
c. Bengal Engineering and Science University, Shibpur
d. North Bengal Engineering College, Jalpaiguri.

The various ingredients for mix design / laboratory tests shall be sent to the test

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

houses through the Engineer-in-Charge and the samples of such aggregate & cement shall be preserved at site by the department

2.6.8 The contractor shall submit the mix design report from any of above approved laboratory for approval of Engineer-in-Charge within 30 days from the date of issue of letter of acceptance of the tender. No concreting shall be done until the mix design is approved by the Engineer-in-charge. In case of white portland cement and the likely use of admixtures in concrete with PPC/white portland cement the contractor shall design and test the concrete mix by using trial mixes with white cement and/or admixtures also for which nothing extra shall be payable.

2.6.9 In case of change of source or characteristic properties of the ingredients used in the concrete mix during the work, a revised laboratory mix design report conducted at laboratory established at site shall be submitted by the contractor as per the direction of the Engineer-in-Charge.

2.7 APPROVAL OF DESIGN MIX

The mix design for a specified grade of concrete shall be done for a target mean compressive strength Tck=Fck+1.65 s.

Where Fck = Characteristic compressive strength of 28 days

s = Standard deviation which depends on degree of quality control

The degree of quality control for this work is "good" for which the standard deviation (s) obtained for different grades of concrete shall be as below:

Grade of Concrete	For "Good" quality of control
M 25	4.00
M 30	5.00
M 35	5.00
M 40	5.00

Of the six specimen of each set three shall be tested at seven days and remaining three at 28 days. The preliminary tests at seven days are intended only to indicate the strength to be attained at 28 days

2.8 All cost of mix designing and testing connected therewith including charges payable to the laboratory shall be borne by the contractor.

2.9 The batching plant shall conform to IS:4925. It shall have the facilities of presetting the quantity to be weighed with automatic cutoff when the same is achieved. Concreting at places may have to be resorted to through concrete pump for which nothing extra shall be paid.

2.10 All other operations in concreting work like Mixing, Slump, Laying Placing of concrete, compaction curing etc. not mentioned in this particular specification for Design Mix of concrete shall be as per CPWD specification.

2.11 WORK STRENGTH TEST

TEST SPECIMEN

Work strength test shall be conducted in accordance with IS: 456 on random sampling. Each test shall be conducted on six specimens, three of which shall be tested at 7 days and remaining three at 28 days.

TEST RESULTS OF SAMPLE

The test result of the sample shall be the average of the strength of three specimen. The individual variation shall not be more than 15 percent of the average. If more, the test results of the sample are invalid. 90% of the total test shall be done at the laboratory established at site by contractor and remaining 10% in the laboratory of CPWD or in any other laboratory as directed by the Engineer-in-Charge.

Lot size: As per CPWD Specification with up-to-date correction slip

2.12 STANDARDS OF ACCEPTANCE- As per CPWD specifications/IS 456 Code

2.13 In case of rejection of concrete on account of unacceptable compressive strength governed by para "Standard of Acceptance" as above the work for which samples have failed shall be redone at the cost of contractors. However, the Engineer-in-Charge may order for additional test (like cutting cores, ultrasonic pulse velocity test, load tests on structure or part of structure etc.) to be carried out at the cost of contractor to ascertain if the portion of structure wherein concrete represented by the sample has been used, can be retained on the

basis of results of individual or combination of these tests. The contractor shall take remedial measures necessary to retain the structure as approved by the Engineer-in-Charge without any extra cost. However, for payment the basis of rate payable to contractor shall be governed by the 28 days cube test results.

2.14 Only MS centering/shuttering and scaffolding material unless & otherwise specified shall be used for all RCC. Work to give an even finish of concrete surface. However marine ply shuttering in exceptional cases as per site requirement may be used on specific request from contractor on approval by the Engineer-in-Charge.

2.15 Necessary arrangements shall be made for field tests and all required equipment's shall be arrange by establishing field lab by the Agency for mandatory tests of the materials as specified in CPWD specifications or as per direction of Engineer-in-Charge. No extra payment shall be paid on this account.

3. READY MIX CONCRETE (RMC)/BATCH MIX CONCRETE FROM RMC PRODUCER

The contractor shall arrange Ready Mix Concrete (RMC) from the approved RMC producing plants as given in the list of preferred makes.

The contractor shall, within a period of 15 days of award of the work, submit text of MOU proposed to be entered between purchaser (the contractor) and supplier (RMC producer) to the Engineer-in-Charge for his approval. The contractor shall draw the MOU with approved RMC producer and submit to the Engineer-in-Charge within a week of such approval. The contractor will not be allowed to use ready mix concrete without completion of above stated formalities.

Notwithstanding the approval granted by the Engineer-in-Charge in aforesaid manner or provisions in CPWD specifications 2019, the contractor shall be fully responsible for

quality of concrete including input control, transportation and placement etc.

The Engineer-in-Charge will reserve right to inspect at any stage and reject the concrete if he is not satisfied about quality of product at the user's end.

The Engineer-in-Charge reserves the right to exercise control over the: -

(i) Ingredients, water and admixtures purchased, stored and to be used in the concrete including conducting of tests for checking quality of materials, recording of test result and declaring the materials fit or unfit for use in production of mix.

(ii) Calibration check of the RMC plant.

(iii) Weight and quantity check on the ingredients, water and admixture added for batch mixing.

(iv) Time of mixing of concrete.

(v) Testing of fresh concrete, recording of results and declaring the mix fit or unfit for use. This will include continuous control on the workability during production and taking corrective action, if required.

(vi) For exercising such control, the Engineer-in-Charge shall periodically depute his authorized representative at the RMC plant. It shall be responsibility of the contractor to ensure that all necessary equipment, manpower & facilities are made available to the Engineer-in-Charge and/or his authorized representative at RMC plant.

(vii) The contractor shall arrange for sending an SMS on the mobile No. of authorised representative of Engineer-in-Charge as soon as the RMC is despatched from the plant, giving details such as time of despatched, grade of concrete, tipper registration number etc.

The contractor should therefore draw MOU/agreement with RMC producer very carefully keeping in view all terms and conditions/specifications forming part of this document.

All required relevant records of RMC shall be made available to the Engineer-in- Charge or his authorized representative. The Engineer-in-Charge shall as require, specify guidelines & additional procedures for quality control & other parameters in respect of materials, production & transportation of concrete mix which shall be binding on the contractor & the RMC plant. Only concrete as approved in design mix by the Engineer-in-Charge shall be produced in RMC plant and transported to the site.

3.1 QUALITY CONTROL OF READY MIXED CONCRETE

It shall be the responsibility of the contractor to ensure that RMC producer provides all necessary testing equipments and takes all necessary measures to ensure quality control of ready mixed concrete. In general, the required measures shall be: -

(i) Control of purchased material quality

RMC producer shall ensure that all the materials purchased and used in the production of concrete confirm to the stipulation of the relevant standards and the requirements of the

concrete mix design and quality control procedures. This shall be accomplished by visual checks, sampling and testing, certification from material supplier and information/date from materials supplier. Necessary equipment for the testing of all materials shall be provided and maintained in calibrated condition at the plant by the RMC producer.

(ii) Control of material storage

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

(iii) Record of mix design and mix design modification

RMC producer shall ensure that record of mix design and mix design modification is readily available in his computer at RMC plant for inspection of Engineer-in-Charge or his authorized representative at any time. Any modification in mix design shall be done only after the approval of the Engineer-in-Charge.

(iv) Transfer and weighing equipment

RMC producer shall ensure that a documented calibration procedure is in place. Proper calibration records shall be made available indicating date of next calibration due & corrective action taken. RMC producer shall ensure additional calibration checks whenever required by the Engineer-in-Charge in writing to contractor. RMC producer shall also maintain a daily production record including details of customers to whom RMC was supplied including details of mixes supplied. Record shall also be maintained of materials used for each day's production including water and admixtures.

The accuracy of measuring equipment shall be within + 2% of quantity of cement & + 3% of quantity of aggregate, admixture and water being measured.

(v) Maintenance of Plant, Truck Mixers and Pumps

Plant, Truck Mixers and Pumps should be well maintained so as to not hamper any operation of production, transportation and placement of concrete.

(vi) Production of concrete at RMC producing plant

(a) Weighing (correct reading of batch date and accurate weighing): -For each load, printed or graphical records shall be made of the weights of the materials batched, the estimated slumps, the total amount of water added to the load, the delivery ticket numbers for that load and the time of loading the concrete into the truck.

(b) Adequate testing equipments at the plant including equipment for measuring surface moisture content of aggregates shall be provided by the RMC producer.

(c) Making corresponding adjustments at the plant automatically to batched quantities to allow for observed measured or reported changes in materials or concrete qualities.

(d) Sampling of concrete, testing, monitoring of results.

(e) Diagnosis and correction of faults identified from observation/complaints.

(f) Control of designed and the prescribed mixes: a quality control system shall be operated to control the strength of designed mixes to the required levels. The system shall include continuous analysis of results from cube tests.

(vii) Ready mix concrete shall be arranged in quantity as required at site of work. The ready-mix concrete shall be supplied as per the pre-agreed schedule approved by Engineer-in-

Charge. Noting extra shall be payable on this account.

(viii) The Engineer-in-Charge reserves the right to approve RMC producing plants not mentioned in the list of approved RMC plants if they fulfil all the necessary conditions.

(ix) In case of rejection of concrete for which cubes have failed to achieve the requirement of acceptance criteria as per the CPWD specification, the work done using that RMC shall be rejected and the work shall be redone at the cost of the contractor, however, the Engineer-in-Charge may order for additional tests (like ultrasonic pulse velocity and rebound hammer test etc.) to be carried out at the cost of contractor to ascertain, if the portion of structure wherein concrete represented by the sample has been used, can be retained on the basis of results of individual or combination of these tests. The contractor shall take remedial measures necessary to retain the structure as approved by the Engineer-in-Charge without any extra cost. However, for payment, the basis of rate payable to contractor shall be governed by the 28 days cube test result and reduced rates shall be regulated in accordance with para 5.4.10.5 D (D-3) of CPWD specifications 2019.

Laying of RMC concrete-All ready mixed designed concrete shall be laid with the help of concrete pump of adequate capacity.

3.2 Transportation, placing and Compaction of Concrete

Mixed concrete from the RMC shall be transported to the point of placement by transit mixers and placed in position through concrete pumps and/or steel closed bottom buckets capable of carrying minimum 0.6 cum concrete is proposed to be transported by transit mixer, the mixing speed shall not be less than 4 rev/min. of the drum nor greater than a speed resulting in a peripheral velocity of the drum 70 m/minutes at its largest diameter. The agitating speed for the agitator shall neither be less than 2 rev/min nor more than 6rev/min of the drum. The numbers of revolution for a uniform mix, after all ingredients, have been charged into the drum unless tempering water is added, all rotation after 100 revolutions shall be at agitating speed of 2 to 6 rev/min and the number of such rotations shall not exceed 250. The general construction of transit mixer and other requirement shall conform to IS: 5892.

4 PRE-CAST RCC WORK

4.1 Pre-cast reinforced concrete units shall be of grade or mix as specified. Provision shall be made in the mould to accommodate fixing devices such as hooks, flats etc. and forming of notches and holes. Each unit shall be cast in one operation. A sample of the unit shall be got approved from Engineer-in-Charge before taking up the work.

4.2 Pre-cast units shall be clearly marked to indicate the top of member and its locations.

4.3 Pre-cast units shall be stored, transported and placed in position in such a manner that these are not damaged.

5 FORM WORK

Basically, only steel shuttering shall be adopted in general. However, a combination of steel and shuttering ply conforming to I.S: 848-1974 and I.S: 5539 may be allowed by the Engineer-in-Charge in consideration of the special request of the contractor to maintain quality and speed of the work. In such cases the use of shuttering ply shall be permitted only for circular columns, beam sides and bottom and in other locations wherever it is felt necessary on account of difficulty in using steel shuttering in such locations. But in other areas like slab, rectangular/square columns etc. steel

shuttering shall be invariably used. However, no extra payment or deduction will be admissible or made for use of shuttering ply.

To maintain the quality and speed the contractors have to arrange and bring the following minimum quantities steel cantering shuttering with necessary steel vertical props, horizontal and diagonal bras sings before execution of the following items of work.

i.	Foundation and footings.	= 500 sqm.
ii.	Beams.	= 1200 sqm.
iii.	Columns.	= For 100 nos.
iv.	Slabs	= 1500 sqm
v.	Steel Props	= 800 nos.

The aforesaid quantities of shuttering materials should be kept at site for execution of the columns, suspended floors and beams at the upper floor levels.

6 Bricks work.

(a) The Common Burnt Clay Bricks shall conform to IS: 1077 and shall be hand moulded or machine moulded. They shall be free from nodules of free lime, visible cracks, flaws warpage and organic matter, have a frog 100 mm in length 40 mm in width and 10 mm to 20 mm deep on one of its flat sides. Bricks made by extrusion process and brick tiles may not be provided with frogs. Each brick shall be marked (in the frog where provided) with the manufacturer's identification mark or initials.

(b) Fly Ash Lime Bricks (FALG Bricks) : The Fly Ash Lime Bricks (FALG Bricks) shall conform to IS 12894. Visually the bricks shall be sound, compact and uniform in shape free from visible cracks, warpage, flaws and organic matter. The bricks shall be solid and with or without frog on one of its flat side. Fly Ash: Fly ash shall conform to IS 3812

Note: This item will be operated only for load bearing structure upto 2 storeys and for nonload bearing walls 23 cms thick for multi-storeyed buildings.

(c) Clay Fly Ash Bricks: The clay fly ash bricks shall conform to IS 13757. The bricks shall be sound, compact and uniform in shape and colour. Bricks shall have smooth rectangular faces with sharp and square corners. The bricks shall be free from visible cracks, flaws, warpage, nodules of free lime and organic matter, the bricks shall be hand or machine moulded. The bricks shall have frog of 100 mm in length 40 mm width and 10 to 20 mm deep on one of its flat sides. If made by extrusion process may not be provided with frogs. Fly Ash shall conform to grade I or grade II of IS 3812.

(d) Calcium Silicate Bricks: The bricks shall conform to IS 4139. The Calcium silicate bricks shall be sound, compact and uniform in shape. Bricks shall be free from visible cracks, warpage, organic matter, large pebbles and nodules of free lime. Bricks shall be solid and with or without frog. The bricks shall be made of finely grounded sand siliceous rock and lime. In addition limited quantity of fly ash conforming to IS 3812 may be used in the mix. These bricks are also known as Fly Ash Sand Lime bricks in the construction industry.

(e) Brick Bats: Brick bats shall be obtained from well burnt bricks.

(g) Mechanized Autoclave Fly Ash Lime Brick: These bricks shall be machine moulded and prepared in plant by appropriate proportion of fly ash and lime. The autoclave fly ash bricks shall conform to IS 12894. Visually, the bricks shall be sound, compact and uniform shape, free from visible cracks, warpage and organic matters. The brick shall be solid with or without frog, and of 100/80 mm in length, 40 mm width and 10 to 20 mm deep one of its flat side as per IS 12894. The brick shall have smooth rectangular faces with sharp corners and shall be uniform in shape and colour. Fly ash shall conform to IS 3812 and lime shall conform to class 'C' hydrated lime of IS 712.

6.1.2 Classification Bricks/Brick tiles shall be classified on the basis of their minimum compressive strength as given below:

TABLE 6.2

Class Designation	Average compressive strength			
	Not less than		Less than	
	N/mm2	(kgf/cm2	N/mm2	(kgf/cm2)
12.5 (125)	12.5	125	15.0	150
10 (100)	10	100	12.5	125
7.5 (75)	7.5	75	10	100
5 (50)	5	50	7.5	75
3.5(35)	3.5	35	5.0	50

The bricks shall have smooth rectangular faces with sharp corner and shall be uniform in colour and emit clear ringing sound when struck.

7 SANITARY INSTALLATIONS, WATER SUPPLY AND DRAINAGE

The work of water supply and sanitary installations shall be got executed by the agency as approved by Engineer-in-Charge.

i. The entire plumbing drawing and sanitary installation drawing/ details shall be submitted by the contractor and got approved by the Engineer-in-Charge before the execution.

ii. The entire responsibility for the quality of work will however rest with the building contractor only.

The work of water supply, internal sanitary installations and drainage etc. shall be carried out as per the bylaws of the Municipal Corporation or any other local body and the contractor shall produce necessary completion certificates from such authority after completion of work.

All water tanks, taps, sanitary, water supply and drainage pipes fittings and accessories etc. shall conform to the bylaws and specifications of the Municipal Body/Corporation where CPWD specifications are not available.

The contractor shall engage licensed plumbers for the work and the materials (fixtures/fittings) tested by the local Municipal Body/Corporation wherever required at his own cost. Nothing extra shall be paid/reimbursed for the same.

The contractor shall give a performance test of the entire installation(s) as per standing specifications before the work is finally accepted by making his own

arrangements for water supply, electricity etc. and nothing extra whatsoever shall be payable for the same.

The work in general shall be carried out as per CPWD specifications. Rate includes all materials, labour and all the operations mentioned in the respective items unless and otherwise specifically mentioned.

The contractor shall give a satisfactory performance test of the entire installation (s) before the work is finally accepted and nothing extra shall be payable to the contractor on this account.

The contractor shall be responsible for all the protection of sanitary, water supply fittings and fixtures against pilferage and breakage during the period of installation until the completion / handing over of the work.

The contractor shall submit completion plans for water supply internal sanitary installations and building drainage work within thirty days of the date of completion. These plans are to be submitted on drawings prepared preferably through computers (1 original copy + 3 photocopies) on suitable scales to show the general arrangement and desired details.

8. **WATER PROOFING TREATMENT**

The contractor shall associate himself with the specialized firm, to be approved by the Engineer-in-charge in writing, for water proofing treatment for basement/lower ground floor, underground tank and on roofs. A Notarized Guarantee Bond on stamp paper of Rs. 100/- should be submitted in the prescribed proforma attached with tender document shall be given by the specialized firm, for a period of 10 years from the date after the maintenance period prescribed in the contract, which shall be counter signed by the contractor as token of overall responsibility. In addition, 10% (ten percent) of the cost of water proofing items shall be retained as guarantee to watch the performance of the work done. However, half of this retained amount will be released after five years, if the performance of the work done is found satisfactory. If, however any defect is noticed during the guarantee period, it shall be rectified by the contractor within seven days of intimation. In case it is not attended to, the same will be got done by another agency at the risk and cost of the contractor. This guarantee deposit can however be released in full if a bank guarantee of equivalent amount for 10 years is produced and deposited with the department by the contractor.

9. **Water Supply & Sanitary Installation:**

A Notarized Guarantee Bond on stamp paper of Rs. 100/- should be submitted by the contractor in the prescribed proforma attached with tender document for performance of water supply & sanitary installation work. In addition, 5% (Ftve percent) of the cost of water supply & sanitary installation items shall be retained as guarantee to watch the performance of the work done. Which shall be released after 02 (Two) year to be reckoned from the date after the expiry of maintenance period prescribed in the contract, if the performance of the work done is found satisfactory.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

10. **Guarantee for external finishing walls with smooth exterior paint.**

The work of external wall finishing work as per item shall be guaranteed for a period of 5 (Five) years as per enclosed guarantee bond against non-uniform coloring flaking Workmanship and defective finishing. On notification by the Engineer- In – Charge of any Compliance to be performed under this guarantee by the contractor. The contractor shall immediately supply labour/ material and rectify all the defects notified by the Engineer – In –Charge to perform this guarantee at no additional cost and to ensure that the defects are fully rectified. In addition extra 2% (two percent) of the amount of the external finishing work as per relevant item of the agreement shall be withheld on this account which shall be refunded under expiry of the guarantee period if no defects are observed in the said period if the defects have been rectified in pursuant in the agreement to the entire satisfaction of the Engineer – In - Charge.

The materials shall be Premium Acrylic Smooth Exterior paint with silicone additives "Snowcryl 1– XT, Of M/s Snowcem India Ltd. or equivalent like (a) Weather Coat Smooth " of M/s Berger Paint India Ltd (b) " Dulux – Weather Shield" of M/S . ICI (India) Paints (c) Apex Ultima"of M/s Asian Paints.

The base for painting (Acrylic) be prepared by cleaning, scaling mosses etc. with wire

Brushes and cleaning with water etc. complete for which no extra payment shall be made

11. **ALUMINIUM WORK**:

11.1 Before commencement of the work, the contractor shall co-relate all relevant structural, architectural, detailed drawings of aluminum doors, windows etc. and service drawings and shall satisfy himself that the information available there form is complete and unambiguous. The contractor shall be responsible for any error/omission owing to any discrepancy in the drawings, which has been overlooked by him and or had not been brought to the notice of the Engineer-in-Charge before execution.

11.2 MATERIAL:

11.2.1 Inspection of materials or works: All materials brought to the site by the contractor for use in the work, as well as fabricated components shall be subject to inspection and approval by Engineer-in-Charge. The contractor shall be required as directed by the Engineer-in-Charge, to get necessary tests carried out on materials components at his own cost from the laboratories/test houses, approved by the Engineer-in-Charge.

11.2.2 Manufacturer's Test Certificate: The contractor shall, if required by the Engineer-in-Charge, produce manufacturer's test certificates for any material or particular batch of materials supplied by him. The tests carried out shall be as per relevant specifications/Indian Standard Code.

11.3 Aluminium Sections:

11.3.1 Aluminium sections to be used for doors, windows, ventilators, fixed glazing etc.

shall be manufactured by reputed companies such as Hindalco, Jindal, Indian Aluminium Company, NALCO satisfying the design and specification criteria of relevant components and shall be subject to approval of the Engineer-in-Charge.

11.3.2 The aluminium extruded sections shall conform to IS Designations HEIWP/HVIWP alloy, with chemical composition and technical properties as per I.S: 733 and IS: 1285.

11.3.3 For sectional weight, tolerance limits shall be (-) 0.5%.

11.3.4 Approval of samples: No work shall commence before samples are approved. Samples of un-anodised as well as anodized and electro coloured aluminium sections, neoprene gaskets, thermal barrier sections, glass, screws, hardware and any other material or components requiring approval of samples in opinion of Engineer-in-Charge shall be submitted for his approval. These samples will be retained as standards of materials and workmanship till the completion of work. Anodising and electro colouring of aluminium section and fabrication shall be got done from the factory as approved by the Engineer - in - Charge.

11.4 Fabrication:

11.4.1 Contractor shall prepare detailed shop drawings of his proposal using suitable sections based on architectural design/drawings, adequate to meet the requirement/specifications laid down in this tender document. These detailed shop drawings shall be got approved from the Engineer-in-Charge before taking up the fabrications. Actual measurement of each opening shall be measured before fabrication of framework. Aluminium shall be fabricated in the factory to the extent possible and feasible, only adjustment, joining, assembling and fixing shall be done at the site of work.

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

11.4.3 All doors, windows, ventilators and glazing etc. shall be made completely leak proof against water and air using neoprene gaskets and silicon sealants to the satisfaction of the Engineer-in-Charge.

11.4.4 The frames shall be as per architectural drawings and the corners of the frame shall be true to right angles. Both fixed frames and openable shutter frames shall be fabricated out of sections which have been cut to length, mitred and mechanically jointed for satisfactory performance. All members shall be accurately machine milled and fitted to form hairline joints. The jointing accessories such as cleats, brackets, screws etc. shall be of such materials as not to cause any bimetallic action. Nothing extra shall be paid for jointing accessories.

11.4.5 Mixed joints of the doors, windows, ventilators, shutters and frames shall be either corner crimped or fixed with self tapping stainless steel screws of approved make and quality to heavy duty extruded aluminium cleats and sealed with silicon

sealant, for which nothing extra shall be paid.

11.4.6 Verticals of the frame shall be embedded in the floors, wherever required upto 50mm including cutting and making good of the floor, for which nothing extra shall be paid.

11.5 Fixing.

11.5.1 The screws used for fixing aluminium frames to masonry walls/RCC members and aluminium members to another aluminium members shall be stainless steel of approved make and quality. Threads of machine screws used shall conform to IS : 4218.

11.5.2 The gap between frames and sill, jamb or soffit, shall be filled with approved polysulphide sealant to ensure complete water tightness. The sealant shall be of such approved colour and composition that it would not stain the masonry/RCC work. It should not set or flow and shall not set hard or dry out under any conditions of weather. The silicon sealant shall be used as required and shall match the colour of the aluminum sections. Any excess sealant shall be removed/cleared. Nothing extra shall be paid for the above.

11.5.3 Fixing of glass panes should be designed in such a way that replacing damaged/ broken glass panes is easy without having to remove or damage any members or interior finishing materials.

11.6 Anodizing/ Electro Coloring:

11.6.1 Aluminum sections shall be anodized as per IS: 7088 - 1973.Anodising to be done as per Grade AC-15 and shall not be less than 15 microns thick when measured as per IS: 6012, and electro colour with colour fastness rating no.8 of IS: 1868. Colour anodizing shall be done only by electro color process. No visual variation in colour shall be permitted.

11.6.2 The anodic coating shall be properly sealed by steam or by boiling in deodorized water as per IS: 1868 and or IS: 6057. Sealing quality shall be tested in accordance with the relevant standards. Nothing extra shall be paid on that account.

11.6.3 The contractor shall satisfy himself by 100% checking in the factory that the thickness of the anodic coating is found to be minimum 15 microns and sealing quality appropriate everywhere. The testing shall be done by 'Eddy current method' as per IS: 6012. The Eddy Current Method uses a probe that contains a coil. This probe/coil is driven by a high-frequency oscillator to generate an alternating high-frequency field. If thickness is found substandard, the material shall be rejected. Requisite tests shall also be carried out at site as instructed by the Engineer-in-Charge. Contractor shall arrange all the equipment's required for these tests at site. Nothing extra shall be paid for the same.

11.6.4 All anodized aluminum works shall conform to relevant IS standards relating to materials, workmanship, fabrications, finishing, erection, installation etc. In this connection, IS codes including IS: 1868 – 1982, IS: 733 – 1983, IS: 1948-1961, IS:

7088-1973, 6012-1970, IS: 1285-1975, IS: 740-1975 are considered relevant and applicable.

11.6.5 A thick layer of clear transparent lacquer based on methacrylates or cellulose styrate shall be applied on the anodised sections, before they are brought at site. The lacquer shall be removed after installations are complete or as an alternative, the exposed surface of the aluminium sections shall be provided with gummed paper tape protection. After fixing and assuring of proper functioning of doors, windows etc., such protective layer shall be cleaned out/removed. Nothing extra shall be paid for above to the contractor.

11.7 Glazing:

11.7.1 All glass panes shall be retained within aluminium framing by use of exterior grade neoprene gaskets even though PVC gaskets may be mentioned in the schedule. No water leakage shall occur on the interior even if water penetrates exterior gradeneoprene gaskets. Use of glazing or caulking compounds around the perimeter of glass will not be permitted. All fixed glass panes shall be supported by setting blocks. There shall be no whistling or rattling. Before installation of glass, contractor shall ensure the following: (a) All glazing rebates shall be square, to plumb, true to plane, dry and free from dust, (b) Glass edge shall be clean and cut to exact size, (c) glazing shall provide such thermal expansion and contraction of components, as will be caused by the temperature variations inside and outside without causing buckling stress on glass, detrimental effect on structural elements and components.

11.7.2 Samples of typical glazing shall be made and got approved by the Engineer-in-Charge before mass installation taken in hand.

11.7.3 Glass in doors, windows, ventilators and fixed glazing etc. shall be of Modi, Atul, Triveni, Asahi, Saint Gobain, Pilkington make as approved by the Engineer-in-Charge.

11.7.4 4mm (10.00 kg/sqm) thick glass panes shall be provided for openings not exceeding 0.5 sqm. Openings exceeding 0.5 sqm. in size shall be provided with 5.5 mm. to 6.00 mm thick (13.75 kg. to 15 kg/Sqm.) glass panes unless specified otherwise.

11.7.5 Panel inserts shall be exterior grade boiling water proof particle board of Novapan, Bhutan Board, Kitlam, Green Lam make.

11.7.6 Fitting and fixture shall be of best quality of Classic, Adarsh as approved by the Engineer-in-Charge.

11.8 Protection and Cleaning

After erection and removal of protective layer, all aluminium works including glass panes shall be washed with a suitable thinner and water to give a uniform clear appearance free from any marks and/or blemishes.

11.9 Measurements:

11.9.1 For aluminium framework, the length of each mepmber of the frame shall be measured correct to half centimeter along the center line of the member. The weight shall then be calculated on the basis of unit weight specified in the manufacturer's catalogue. The weight shall also be calculated on the basis of the unit weight of the corresponding sections specified in the approved drawings.

11.9.2 For purpose of payment, the least of the two weights calculated as per 5.9.1 above shall be considered subject to the condition that actual weight per meter of the respect sections is not less than the weights calculated above. In case the actual weight per meter is less, the payment then shall be made on the basis of actual weight per meter.

11.9.3 For glazing and fixed laminated inserts, actual length and breadth of glass/laminated board shall be measured correct to half a centimeter and area calculated in square meters correct to two places of decimal.

11.9.4 Weight of cleats, angles, brackets, packing pieces, separators, nuts, bolts, washers, screws and other fixtures etc. which shall be required for fabrication and erection of aluminium work shall not be considered for the purpose of payment.

11.9.5 Rate: The rate shall include the cost of labour & materials incurred in all the operation described above.

12.0 **Wood Work**

The samples of species of timber to be used shall be deposited by the contractor with the E.E. before commencement of the work. The contractor shall produce cash vouchers and certificate from standard kiln seasoning chemically pressure treatment plant operators about the timber section to be used on the work having been kiln seasoned chemically pressure treated by them, failing which it would not be to accept as kiln seasoned & chemically pressure treated.

12.1 Factory made shutter, as specified shall be obtained from factories to be approved by the Engineer-in-Charge and shall conform to IS: 2202 (Part-I) 1977. The contractor shall inform well in advance to the Engineer-in-Charge the names and address of the factory where from the contractor intends to get the shutters manufactured. The contractor will place order for manufacture of shutters only after written approval of the Engineer-in-Charge in this regard is given. The contractor is bound to abide by the decision of the Engineer-in-Charge and recommend a name of another factory from the approved list in case the factory already proposed by the contractor is not found competent to manufacture quality shutters. Shutters will, however, be accepted only, if this meet the specified tests. The contractor will also arrange stage-wise inspection of the shutters at factory by the Engineer-in-Charge or his authorised representative. Contractor will have no claim if the shutters brought at site are rejected by Engineer-in-charge in full lot due to bad workmanship/quality. Such shutters will not be measured and paid and the contractor shall remove the same from the site of work within 7 days after the written instructions in this regard are issued by Engineer-in-charge or his authorised representative.

13. STEEL WORK:

13.1 The steel doors, windows, ventilators and composite units shall be got fabricated in workshop approved by the Chief Engineer concerned.

13.2 The M.S. plate clamps 15x6mm. Thick for holding arrangements are to be provided and added as per site conditions. The rate is inclusive of the cost of such clamps.

13.3 All welded steel work shall be tested for quality of weld as laid down in IS: 822-1970 before actual erection, unless otherwise specified in the nomenclature of the item.

15. MARBLE STONE SLAB WORK

14.1 The marble stone slab work wherever specified in this contract / tender documents, the thickness should be considered as 16 mm in place of 18 mm and correspondingly the thickness of bed mortar shall be 24 mm.

14.2 Flooring work is to be executed as per flooring pattern shown in Arch. Drawings and as per direction of Engineer-in-Charge for which nothing extra will be paid.

14.3 The size of tiles/marble stone/Granite stone in dado/skirting is to be provided as shown in Architectural drawings.

15 (a) WARRENTY CARD WHEREEVER APPLICABLE AS PER DIRECTION OF ENGINEER IN CHARGE

Wherever applicable, the product which comes with manufacture:-
Such warranty/guarantee shall be available by the agency should be handed over to the Engineer-in-charge as a documentary proof.

(b) GURANTEE BOND WHEREEVER APPLICABLE AS PER DIRECTION OF ENGINEER IN CHARGE

(i) GURANTEE BOND FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER PROOFING WORKS:-A Notarized Guarantee Bond on stamp paper of Rs. 100/- should be submitted by the contractor in the prescribed proforma.

(ii) GURANTEE BOND IN RESPECT OF ALUMINIUM DOORS, WINDOWS VENTILATORS, STRUCTURAL GLAZING & ALUMINIUM COMPOSITE PANEL WORKS :-A Notarized Guarantee Bond on stamp paper of Rs. 100/- should be submitted by the contractor in the prescribed proforma.

(iii) GUARANTEE BONDS FOR REMOVAL OF DEFECTS AFTERCOMPLETION IN RESPECT OF ACRYLIC PAINT WORKS:-A Notarized Guarantee Bond on stamp paper of Rs. 100/- should be submitted by the contractor in the prescribed proforma.

(iv) GURANTEE BOND FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER SUPPLY AND SANITARY INSTALLATIONS :-A Notarized Guarantee Bond on stamp paper of Rs. 100/- should be submitted by the contractor in the prescribed proforma.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

16.0 : FLOORING

i) The rate of items of flooring is inclusive of Providing Sunken Flooring in Bathrooms, Kitchen, W.C., etc. and nothing extra on this account is admissible.

ii) All the work in general shall be carried out as per CPWD Specifications 2019.

iii) The vitrified tiles shall be double charged. The tiles shall be of specified colors as shown in the drawings and will be laid in pattern as per architectural drawings. Nothing extra shall be paid for laying tiles in specific pattern. The tiles shall be of first quality of approved make.

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

v) The flooring and skirting will be executed as per pattern shown in the Architectural drawings and as per approval of Engineer-in-Charge and nothing extra shall be payable on this account.

vi) Samples of flooring material are to be deposited well in advance to the Engineer-in-Charge for approval. Approved samples should be kept at site with the Engineer-in-Charge and the same shall not be removed except with the written permission of Engineer-in-Charge. No payment whatsoever will be made for these samples.

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

CONTRACT FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER PROOFING WORKS

(BASEMENT/LOWER GROUND FLOOR/UNDER GROUND TANK/ROOF)

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

WHEREAS THIS agreement is supplementary to a contract (hereinafter called the contract) dated _____ and made between the GUARANTOR OF THE ONE part and the Government of the other part, whereby the contractor, inter alia, undertook to render the buildings and structures in the contract recited completely water and leak-proof.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said structures will remain water and leak-proof for 10 (Ten) years from the date after the maintenance period prescribed in the contract.

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

Provided that the Guarantor will not be responsible for the 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/seepage 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 the 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 done by the department by some other agency contractor at the GUARANTOR's risk and cost without limited liability. The decision of the Engineer-in–charge as to the cost payable by the Guarantor shall be final and binding.

That if guarantor fails to make good all defects or commits breach there under then the Guarantor will indemnify the principal and his successors against all loss, damage, cost expense otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Government the decision of the

Engineer-in-Charge will be final and binding on the parties.

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

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

1. _____

2. _____

SIGNED FOR AND ON BEHALF OF THE PRESIDENT OF INDIA BY _____

in the presence of:

1. _____

2. _____

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER SUPPLY AND SANITARY INSTALLATIONS

The agreement made this _____ day of _____ Two Thousand and _____ between _____ son of _____ (hereinafter called the GUARANTOR of the one part) and the PRESIDENT OF INDIA (hereinafter called the Government of the other part.)

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

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

NOW THE GUARANTOR hereby guarantee that work executed by him will remain structurally stable after expiry of maintenance period prescribed in the contract for the minimum life of 02 (Two) year to be reckoned from the date after the expiry of maintenance period prescribed in the contract.

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

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

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

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

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

1. _____

2. _____

SIGNED FOR AND ON BEHALF OF THE PRESIDENT OF INDIA BY _____

in the presence of:

1. _____

2. _____

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF ALUMINIUM DOORS, WINDOWS VENTILATORS, STRUCTURAL GLAZING & ALUMINIUM COMPOSITE PANEL WORKS

The agreement made this _____ day of _____ Two Thousand and _____ between _____ son of _____ (hereinafter called the GURANTOR of the one part) and the PRESIDENT OF INDIA (hereinafter called the Government of the other part.)

WHEREAS THIS agreement is supplementary to a contract (Hereinafter called the Contract) dated _____ and made between the GUARANTOR OF THE ONE PART AND the Government of the other part, whereby the contractor inter alia, undertook to render the work in the said contract recited structurally stable, leak proof and sound material, workmanship, anodizing, colouring, sealing.

AND WHEREAS THE GURANTOR agreed to give a guarantee to the affect that the said work will remain structurally stable, leak proof and guaranteed against faulty material and workmanship, defective anodizing, colouring, sealing and finishing for two years to be reckoned from the date after the expiry of maintenance period prescribed in the contract.

NOW THE GUARANTOR hereby guarantee that work executed by him will remain structurally stable, leak proof and guaranteed against faulty material and workmanship, defective anodizing, colouring, sealing and finishing for two years to be reckoned from the date after the expiry of maintenance period prescribed in the contract.

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

During this period of guarantee, the guarantor shall make good all defects to the satisfaction of the Engineer-in-charge at his cost and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer-in-charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the Guarantor's risk and cost without limited liability. The decision of the Engineer-in-Charge as to the cost, payable by the Guarantor shall be final and binding.

That if the guarantor fails to make good all the defects or commits breach thereunder, then the guarantor will indemnify the principal and his successor against all loss, damage, cost expense or otherwise which may be incurred by him by reason of any

default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Government, the decision of the Engineer-in-charge will be final and binding on both the parties.

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

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

1. _____

2. _____

SIGNED FOR AND ON BEHALF OF THE PRESIDENT OF INDIA BY _____

in the presence of:

1. _____

2. _____

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

GUARANTEE TO BE EXECUTED BY CONTRACTORS FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF ACRYLIC PAINT WORKS.

This agreement made this ---------- day of ---------- ------Two thousand and ---------- ------- between ---------- son of ---------- of ---------- ---------- (herein after called the Guarantor of the part) and the PRESIDENT OF INDIA (herein after called the Government of the other Part)

WHERAS THIS AGREEMENT is supplementary to a contract (hereinafter called for Contract)dated ---------- and made between the GUARANTOR of the one part and the GOVERNMENT of the other part, hereby the Contractor interalia, under took that the acrylic painting work done on building will remain non flaking and uniform coloring without patches

.AND WHEREAS THE GUARANTOR agreed to give a guarantee to effect that the said Acrylic painting will remain non flaking and uniform coloring without patches for five years from the date of completion of work.

NOW THE GURANTOR hereby guarantee that Acrylic painting done by him will remain non flaking and uniform coloring without patches and the minimum guarantee period of such painting shall be five years to be reckoned form the date of the completion of work

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

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

That if the guarantor fails to make good the defects or commits breach there under then the guarantor will indemnify the principal and his successors against all loss, damage cost, expenses or otherwise which may be incurred by him by reasons of any default on the part of GUARANTOR in performance and observance of this supplementary agreement as to the amount of loss and / or damage and / or cost incurred by the Government and the

decision of the Engineer-in-Charge will be final and binding on both the parties.

An amount equivalent to 2% of item will be deducted from R. A. Bills as security and the same will

be refunded after five years from the date of completion of work.

IN WITNESS WHEROF these presents have been executed by the obligator ---------- and by ---------- and for and on behalf of the PRESEDENT OF INDIA on the day, month and year first above written.

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

SIGNED FOR AND BEHALF OF THE PRESIDENT OF INDIABY

In the presence of

1

2

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

SPECIAL CONDITIONS

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

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

Engineer-in-Charge.

15. During the execution of work, the finished items i/c tile works, granite work, marble work, kota stone and all other items shall be protected from damages/scratches/broken/discolour etc. by using suitable materials as per direction of Engineer-in-Charge till the completion/handing over of building to user department.

16. Contractor shall provide for use of CPWD the following during entire period of the work.

    (i) CCTV camera IP based on site Project Monitoring System with minimum 06 Dome/Bullet cameras.

    (ii) Temporary site office of 01 rooms having minimum size of 15x10ft including required furniture's, A/C & attached toilet for department for monitoring the project.

17. No extra payment will be made for operation/activity mentioned at Sl. No. 1 to 16 above.

18. Contractor shall prepare the structural design & detailing of Structural Glazing, ACP works, Entrance gate and vetted from government engineering collage like Jadavpur University, Kolkata, Bengal Engineering and Science University, Shibpur or any other Government Engineering Collage with the approval of Engineer-in-charge. No, additional payment will be made on this account.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II EE/BCD-II

Special Conditions to comply directives of Hon'ble National Green Tribunal and EIA Guidance Manual

The contractor shall not store/dump construction material or debris on metalled road.

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 are a 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.

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.

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 precaution that the vehicles are properly cleaned and dust free to ensure that enrooted their destination, the dust, sand or any other particles are not released in air/contaminate air.

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 in halation of dust particles.

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.

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.

The contractor shall compulsorily use of wet jetting rending and stone cutting.

The contractor shall comply all the preventive and protective environmental steps as stated in the MoEF guidelines, 2010.

The contractor shall carry out on-Road-Inspection for black smoke generating machinery. The contractor shall use cleaner fuel.

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

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 km/ph. 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.

The contractor shall ensure that the construction materials covered by tarpaulin. The contractor shall take all other precaution to ensure that no dust particles are permitted to

pollute air quality as a result of such storage.

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

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II EE/BCD-II

LIST OF PREFERRED MAKES FOR CIVIL WORKS

Approved makes of materials to be used in the work are as under. In case of non-availability of these makes, the Engineer-in-charge may allow use of alternative BIS makes of materials in the work. Non-BIS marked materials may be permitted by the Engineer-in-charge if BIS make is not available.

No.	Material description	Approved Manufacturer / Brand Name
1	Ready Mix Concrete Plant.	Ultratech Ready Mix Concrete Plant, ACC Ready Mix Concrete Plant, Maruti Ready Mix Concrete Plant.
2	Cement (PPC)	ACC, Ultratech, Vikram, Shree Cement, Ambuja, Jaypee Cement, Century Cement & J.K. Cement.
3	White Cement	Birla White, J.K. White.
4	TMT bars – Fe 500D or more	SAIL, Tata Steel Ltd, RINL, Jindal Steel & Power Ltd. and JSW Steel Ltd
5	Water proofing compounds, admixtures, plasticizer, super plasticizer, curing compounds	Fosroc, ROFF/Dr. Fixit (Pidilite Industries), Garware, STP Ltd., Sika, BASF, Ardex Endura & Perma Construction Aids Pvt. Ltd.
6	Integral water proofing compound with cement (for plaster & mortar)	Fosroc: Conplast 421, Dr. Fixit: LW+, Sika: Sikacim, Asian Paint: SmartCare Vitalia & equivalent product of BASF, Garware, STP Ltd., Ardex Endura & Perma Construction Aids Pvt. Ltd.
7	Water proofing compound for bathroom/ toilet /balcony & other wet areas	Fosroc: Bush Bond, STP Ltd.: Shalicrete, CICO: Tapecrete, Dr. Fixit: Pidifine 2K, Garware, Sika: Topseal 107, Asian Paints: Damp Block 2K & equivalent product of BASF, Ardex Endura & Perma Construction Aids Pvt. Ltd.
8	Crystalline water proofing compound	Fosroc: Bushbond TGP, Dr. Fixit: Dr. Fixit Krystalline, Sika: Sika 101h, Garware, Asian Paints: SmartCare & equivalent product of BASF, Ardex Endura, STP Ltd., Perma Construction Aids Pvt. Ltd.
9	Grouts, Tile Adhesive	Laticrete, STP Ltd., Kajaria, Garware, BASF, Perma, Ardex Endura, Wurth, JK White.
10	Structural steel	SAIL, Tata Steel, Rashtriya Ispat Nigam Ltd. (RINL), JSW Steel Ltd., Jindal Steel & Power Ltd.
11	Polycarbonate sheet	GE Plastic, LEXAN & MG Polyplast, DPI Daylighting.
12	Profile steel sheet	Ezydeck of TATA, Lloyd Superdeck, JSW, Jindal
13	Particle board	Action TESA, Merino, Archidply & Orion Doors
14	Laminates	Action TESA, Vibrant Laminate Pvt. Ltd., Greenlam, Century Ply, Merino, Archidply, Virgo & Orion Doors
15	Flush door shutters	Duro, Century, Durian, Archidply, GreenPly, JAYNA (Jain Wood Industries), Jain Doors Pvt. Ltd., GREENPANEL. Note: Only ISI marked flush door shutters to be used.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

16	Fire rated doors	Signum fire protection, ASES (Agni Suraksha), Saint Gobain, Shakti Metdoor, NAVAIR, Promat, Thrislington, Pacific, Sukri & Bhawani. If fire rated glass is integral part of fire rated door than it should be of one of the following makes: Pyroguard, Saint Gobain, Asahi India, Pilkington & Schott.
17	False ceiling system	Armstrong, USG Boral, Saint Gobain, Aerolite, Diamond ceilings, Interarch, Hi-steel of PR Ceiling Products, Hunter Douglas.
18	Plywood / Veneer	GreenPly, Century, Merino, Durian, Archidply, GREENPANEL & Orion Doors
19	Melamine polish	Asian Paints melamine gold, Garware, Wudfin of Pidilite & Timbertone of ICI Dulux.
20	Floor spring & door closer	Godrej, Dormakaba, Dorset & Kich.
21	Aluminium section	Hindalco, Jindal & Indian Aluminium Co.
22	Anodized aluminium hardware (Heavy Duty)	Kilong, Alualpha, Classic & Ebco.
23	Clear/Float/Frosted/Toughen Glass/ Refractive Glass	Saint Gobain, AIS, Gold Plus & Modiguard
24	Stainless steel railing, Accessories etc.	Jindal, Dormakaba, Kich, GEZE, Godrej & Hardwyn.
25	SS fittings for doors & window	Jindal, Dormakaba, Kich, Dorset, Godrej, Ozone & Define
26	Silicon based water repellant/weather sealant	GE Plastics, Wurth, STP Ltd., Dow Corning, Waker, BASF & Pidilite (Dr. Fixit/Roff).
27	Poly-Sulphide Sealant	Fosroc, STP Ltd., Pidilite (Dr. Fixit/Roff), Sika & BASF
28	Mosaic tiles/Chequered Tiles	Ultra Tiles, NITCO, Hyper, Mayur & Pavcon
29	Glazed Ceramic Tiles	Kajaria, NITCO, Orient Bell, RAK & AGL.
30	Glazed Vitrified Tiles (Antiskid / Matt / Polished)	Kajaria, NITCO, Orient Bell, RAK, Adicon & AGL.
31	Paver block & Kerb stone	Instone, Pavcon, Hyper, Mayur, KK, Power, Sharda & Navya
32	Cement Based wall putty	Asian Paints, Birla Wall Care, JK White.
33	Oil bound washable distemper / dry distemper	Asian Paints (Professional Acrylic Distemper), Nerolac: Beauty Acrylic Distemper, Berger: Bison Acrylic Distemper, Garware & Dulux ICI: Maxilite
34	1st quality acrylic distemper (washable/ ready mix / Low VOC)	ICI-Dulux, Asian Paints, Garware, Berger & Nerolac.
35	Acrylic emulsion paints	Asian Paints: (Professional Premium Interior Emulsion Paint), Garware, Nerolac: Beauty Gold, Berger: Rangoli Total Care & ICI Dulux: Super Cover
36	Plastic emulsion paint	Asian Paints: (Apcolite Heavy Duty Premium Emulsion Paint), Garware, Nerolac: Impression, Berger: Easy Clean & ICI Dulux: 3 in 1
37	Premium acrylic emulsion paints (Interior)	Asian Paints : (Royale Luxury Emulsion), Garware, Nerolac : Impression, Berger : Silk & ICI Dulux : Velvet Touch

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

38	Textured exterior paint	Asian Paints, Nerolac, Garware, Berger Paints, Ultratech Paints & Luxture
39	Acrylic smooth exterior paint	Asian Paints: (Apex/Professional Premium Exterior Emulsion), Nerolac: XL, Berger: Weather Coat, Garware & ICI Dulux: Weather Shield,
40	Premium acrylic smooth exterior paint with silicon additive	Asian Paints: Apex Ultima, Nerolac: XL total, Garware, Berger: Weather Coat all Guard & ICI Dulux: Weather Shield Max
41	Synthetic Enamel Paint	Asian Paints: Apcolite Premium Gloss Enamel, Nerolac: Synthetic Hi gloss, Garware Berger: Luxol Hi gloss & ICI Dulux: Gloss Synthtic enamel.
42	Cement Primer	Nerolac, Berger (BP white), Garware, STP Ltd., Asian (Decoprime WT) & ICI (White primer).
43	Steel primer (Red Oxide Zinc Chromate Primer)	Asian Paints, Nerolac, Garware, Berger & ICI
44	Wood primer	Asian Paints (wood primer – White/Pink), Garware, Berger, ICI & Nerolac
45	Epoxy paint	Asian Paints, STP Ltd., Nerolac, Berger, ICI, Kansai & Akzo Nobel
46	Fire paint	Asian Paints, STP Ltd., Akzo Nobel, Wurth PROMAT & JOTUN
47	GI/MS Pipe	Tata, Jindal, Jindal (Hisar) & Prakash Surya
48	GI Fittings	Unik, AVR, HB & Zoloto
49	HDPE Pipes	Reliance, Jain Pipes, ORIPLAST & Supreme
50	DI Pipes & fittings	Electrosteel, Jindal, TATA DUCTURA & Kesoram
51	uPVC pipe and fittings	Astral, Supreme, Prince, M/s Skipper Ltd., Ashirwad & Prayag Polymers Pvt. Ltd., Hindware.
52	SW Pipes (BIS approved)	Anand, Parry & Perfect
53	Centrifugally Cast (Spun) Iron Pipes & Fittings /Hubless pipes & fittings	Hepco, NECO, BIC, SKF, Raj Pattern Makers & Founders Pvt. Ltd. or any other ISI marked make.
54	CI Manhole covers, frames & GI Gratings	Hepco, NECO, BIC, SKF or any other ISI marked make
55	SFRC Manhole covers & gratings	Hepco, NECO, KK, JAIN & PARGATI
56	CP brass fittings (Superior Range)	Jaquar, Groh, PLATO, Prima, Roka, Player & Kingston.
57	CP brass fittings (Normal Range)	ESSCO (by Jaquar), PLATO, Prima, Parryware, CERA, Kerovit (Kajaria), Johnson, Prayag Polymers Pvt. Ltd., Player & Kingston.
58	Sanitary ware, fittings & accessories	Kerovit (Kajaria), Prima, CERA, PLATO, Jaquar, Parryware, Hindware & Prayag Polymers Pvt. Ltd.
59	Mirror glass	Atul, Modi Guard, Gold Plus & Golden Fish
60	CPVC Pipe & fitting	Astral, Supreme, Prince, M/s Skipper Ltd., Ashirwad & Prayag Polymers Pvt. Ltd., Hindware.
61	Stainless steel sink	Silver Shine (Bluestar Sanitary Industries Pvt. Ltd.), Prima, PLATO, Neelkanth, Niralli, AMC, Jyna & Prayag Polymers Pvt. Ltd.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

62	FRP doors shutters & frame	Jayna, Fiberways, Jain Doors Pvt. Ltd. & Selected Product Co.
63	Extruded polystyrene insulation board	Dowcorning, Supreme, Texas & Analco
64	Gypsum plaster	Ferrous Crete, Gyproc Saint Gobain, Ultra Tech & JK White
65	Floor hardener	Ironite, Perma, STP Ltd., Ferrok & Hardonate
66	Modular Expansion Joint	Herculus, Sanfield India Ltd & Vexcolt
67	Glass Wool	Dow Corning, UP Twiga & Isover
68	uPVC door/window/ventilator	Fenesta, Komerling, Rheau, Veka, Duroplast, Aluplast & Advika Profiles Pvt. Ltd. (Advika Fenster) (Fabrication and installation will be done by profile manufacturer or his authorized fabricator).
69	uPVC doors and window hardware	Roto, Dorset, DNV Accado & Kinlong
70	AAC block Adhesive	UltraTech, Perma, Ardex Endura, Home sure/Build well & Ferrous Crete, MYK Latcrete.
71	PVC Water Tank	Sintex, Patton & Vectus
72	AAC Block	TATA, Excel, MAX Blocks, UltraTech, HIL, BILTECH ACE & Gravit.
73	Modular Kitchen	Godrej, Evok by Hindware
74	Aluminum shuttering	Knest, S-form, Durand Forms (India) Pvt. Ltd. & Mivan
75	Dash fasteners /Anchors	Wurth, Hilti, Bosch & Fischer
76	MBBR reactor, Multi grade Filter & Activated Carbon Filter	Degremont, OSDPL, Thermax & ION Exchange
77	MBBR media	Cooldeck, MM Aqua, Eco Aqua & Ion Exehange
78	Solid PVC Door Frames & Shutters	Polyline, Sintex, Plasto Green, Duroplast & Rajshri Plastiwood
79	Aluminium Composite Panel	Alstrong, Aludecor & Timex
80	Toilet Cubical with HPL board & SS fittings of grade SS-316	Merino Industries Limited, Greenlam Industries Ltd.

All fitting shall have ISI marked on its body wherever applicable.

Note :- Superintending Engineer-Barasat, CPWD, Kolkata reserves the right to add or delete any materials and Brands in the list of approved materials/brands. Unless otherwise specified in the tender document, all the materials which are ISI marked shall be used in the work and if the ISI marked materials are not available, materials confirming to ISI shall be used, and for materials which are neither BIS marked nor confirm to BIS, the manufacturers specification shall be used with prior approval of Engineer-in-charge.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

RECEIPT OF DEPOSITION OF ORIGINAL EMD

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

NAME OF WORK: Construction of Implement Shed for Farm Implement at ICAR-CRIJAF, Barrackpore

1.	**NIT No.**	**:-**	**44/EE/BCD-II/2026-27**
2.	**Estimated Cost**	**:-**	**Rs. 68,54,776.00**
3.	**Amount of Earnest Money Deposit**	**:-**	**Rs.1,37,096.00**
4.	**Last date of submission of bid**	**:-**	**29/10/2026 at 03:00 P.M.**
5.	**Name of contractor**	**:-**	**_____***_____**
6.	**Form of EMD**	**:-**	**_____***_____**
7.	**Amount of Earnest money deposit**	**:-**	**_____***_____**
8.	**Date of submission of EMD**	**:-**	**_____***_____**

(___*___ to be filled by EMD receiving EE)**

Signature, Name and Designation of EMD receiving officer (EE/AE(P)/AAO) along with Office stamp

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II

EE/BCD-II

Format for Undertaking on structural stability and soundness

Form 'F'

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

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

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

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

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

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

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

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

No. DG/CON/Construction 2023/04

ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Nirman Bhawan, New Delhi Dated: 08.12.2023

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

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

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

R.K. JAIN
(EE (Contact)

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II EE/BCD-II

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

08/11/2023
R.K. JAIN
(EE (Contact)

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II EE/BCD-II

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

R.K. JAIN
(EE (Contact)

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II EE/BCD-II

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

R.K. JAIN 08/11/2023
(EE (Contact)

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II EE/BCD-II

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

28/11/2023
R.K. JAIN
(EE (Contact)

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

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

R.K. JAIN
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Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II EE/BCD-II

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

R.K. JAIN
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Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II EE/BCD-II

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

21/11/2023
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Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

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

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

This is issued with the approval of DG CPWD.

08.12.2023
(वी. पी.साहू)
अधीक्षण अभियंता (सी.एंड एम.)

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

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

R.K. JAIN
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Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II EE/BCD-II

Central Public Works Department
Office Memorandum
No. DG/CON/Construction 2023/03
ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Nirman Bhawan, New Delhi Dated 06.12.2023

Subject: Modifications in Clause 12 and Schedule F for Clause 12 of GCC 2023 for Construction Works

The following amendments are made in the GCC 2023 Construction Works.

Existing provision	Modified provision
CONDITIONS OF CONTRACT **Definitions** 2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:- (i) to (xv) (xvi) No provision (xvii) No provision	**CONDITIONS OF CONTRACT** **Definitions** 2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:- (i) to (xv) **No change** **(xvi) Extra items** are those items which are not available in the contract. a. **Non Schedule Extra Items** are those items which are not available in the Standard Schedule of Rates specified in Schedule F. b. **Scheduled Extra Items** are those items which are available in the Standard Schedule of Rates specified in Schedule F. **(xvii) Completion cost: The completion cost includes gross amount of work done, amount of extra items and deviations and escalation admissible as per agreement etc.**
Clause 12 Deviations/ Variations Extent and Pricing The Engineer-in-Charge shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the	**Clause 12 Deviations/ Variations Extent and Pricing** No Change

06/12/2023
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(EE (Contact)

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II EE/BCD-II

progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineer-in-Charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided.	
The completion cost of any agreement for Maintenance works including works of upgradation, aesthetic, special repair, addition/ alteration should not exceed 1.25 times of Tendered amount. Any further deviation beyond this limit upto 1.5 times of tendered amount shall be approved by the authority mentioned in schedule 'F' with recorded reason and in exceptional case, ADG shall have full power to approve the deviation beyond 1.50 times of tendered amount with recorded reason and take suitable corrective action.	**Deleted**
No provision	**The completion cost shall, in no case, exceed 1.5 times the contract amount.** **Contractor will devise a system to keep a watch on quantum of work taken up vis-a-vis balance items required to complete defined scope of work and will give the alerts to Engineer-in-Charge before taking up extra items, deviations so that completion cost does not exceed above limit. Work executed beyond above limit will neither be recorded nor be paid.**

06/11/2023
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Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

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	Engineer-in-Charge will verify and confirm the alerts before assigning deviations and / or extra items to the contractor. If additional work(s) is required to complete defined scope of work beyond above limit then Engineer-in Charge may take up such work(s) separately. The contractor will not have any claims whatsoever on this account.
12.1 The time for completion of the works shall, in the event of any deviations resulting in additional cost over the tendered value sum being ordered, be extended, if requested by the contractor, as follows : i. In the proportion which the additional cost of the altered, additional or substituted work, bears to the original tendered value plus ii. 25% of the time calculated in (i) above or such further additional time as may be considered reasonable by the Engineer-in-Charge	12.1 The time for completion of the works shall, in the event of any deviations **and extra items** resulting in additional cost over the **contract amount will** be extended, if requested by the contractor, as follows : i. In the proportion **to** the additional cost of work, bears to the original **contract amount** plus ii. 25% of the time calculated in (i) above.
12.2 Deviation, Extra Items and Pricing In the case of extra item(s) (items which are not available in the contract), the contractor may within fifteen days of the receipt of order or occurrence of the item(s), submit claim for market rate(s), supported with proper analysis of rate and manufacturer's specification for the work, invoices, vouchers, etc. (as applicable), failing which the rate(s) approved later by the Engineer-in-Charge shall be final and binding. Where the contractor submits claim for market rate(s) in the manner prescribed above, the Engineer-in-Charge shall, within 45 days of the receipt of the claims, after giving consideration to the analysis of	**12.2 Deviation, Extra Items and Pricing** **a) Non Schedule Extra Items** - The contractor may, within fifteen days of the receipt of order **to execute extra item** or occurrence of the item(s), submit **analysis of rate of extra item(s) based on the rates of materials available in basic rate of Standard Schedule of Rate mentioned in schedule F and market rates of the materials which are not available in standard schedule of rate mentioned in schedule F. For this purpose, the basic rate of materials available in Schedule of Rates mentioned in Schedule F will be enhanced or reduced by the applicable cost index, as the case**

06/1/2023
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Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

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rates and other documents submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.	**may be.** **The rates of the materials which are not available in Standard Schedule of Rates, mentioned in Schedule F, shall be based on, tax paid bills for the material as defined in** manufacturer's specification. **Material rates from Standard Schedules of Rates shall be given priority in the analysis of rates.** **The rate of extra item will be:-** **i. Analyzed rates as above multiplied by (tender amount divided by estimated cost put to tender), if tendered amount is below the estimated amount put to tender.** **ii. Analyzed rate, if the tendered amount is above the estimated amount put to tender.** Failing which the rate(s) approved later by the Engineer-in-Charge shall be final and binding. Where the contractor submits **analysis of rate of extra items** in the manner prescribed above, the Engineer-in-Charge shall, within **60** days of the receipt of the **analysis of rate**, after giving consideration to the analysis of rates and other documents submitted by the contractor, determine the rate**(s) of extra items.** The contractor shall be paid in accordance with the rates so determined. **However provisional rates on the basis of invoice will be allowed by the Engineer-in-Charge. Invoice shall be accepted only for materials not available in the Standard Schedule of Rates mentioned in Schedule F. The extra items rate shall be finalized only after submission of tax paid bills by**

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Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

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	the contractor to the Engineer-in-Charge as required above. The Engineer-in-Charge may apply the discount available in the market on the rate of materials taken from tax paid bills.
(b) No Provision	**b) Scheduled Extra Items** **i. For percentage rate tenders, the extra item(s) shall be paid as per the Standard Schedule of Rates, mentioned in Schedule F, enhanced or reduced by the applicable cost index and further enhanced or reduced by percentage above/ below quoted by the contractor on estimated cost put to tender.** **ii. For item rate tenders, the extra item(s) shall be paid as per the said schedule rate enhanced or reduced by the applicable cost index and multiplied by (tender amount divided by estimated cost put to tender).**
The rate(s) of extra items so determined by the Engineer-in-Charge shall be final and binding on the contractor, and shall not be arbitrable.	**Deleted**

06/11/2023
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(EE (Contact)

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

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Deviation, deviated quantities, Pricing In the case of contract items which exceed the limit laid down in Schedule F, the contractor may within fifteen days of the receipt of order or occurrence of the excess, claim revision of the rates, supported with proper analysis of rate and invoices, vouchers, etc. (as applicable), for the quantity in excess of the above-mentioned limit. The Engineer-in-Charge shall within 45 days of receipt of the claims, after giving consideration to the analysis of rates and other documents submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined. The rate(s) so determined by the Engineer-in-Charge shall be final and binding on the contractor, and shall not be arbitrable.	**c) Deviation, deviated quantities, Pricing** In the case of contract items which exceed the limit laid down in Schedule F, the contractor may within fifteen days of the receipt of order or occurrence of the excess, claim revision of the rates, supported with proper analysis of rates **and other documents, as per procedure described in para 12.2(a) or 12.2(b)** (as applicable), for the quantities in excess of the above-mentioned limit. The Engineer-in-Charge shall within ~~45~~ **60** days of receipt of the claims, after giving consideration to the analysis of rates and other documents submitted by the contractor, determine the rates and the contractor shall be paid in accordance with the rates so determined. **In case, the contractor fails to submit his claim for revision of rates within 15 days of the receipt of order or occurrence of the excess, the Engineer-in-Charge shall determine the rate(s) of such items in accordance with para 12.2 (a) and 12.2 (b) without giving any notice to the contractor. The rates so determined by the Engineer-in-Charge shall be final and binding.** The rate(s) **of extra items and deviated items** so determined by the Engineer-in-Charge shall be final and binding on the contractor.
12.3 In the case of contract items which exceed the limit laid down in Schedule F, the Engineer-in-Charge shall after giving notice to the contractor within 30 days of submission of that bill by the contractor which contains such item(s), and after taking into consideration any reply received from the contractor within 15 days of the issue of such notice, reduce the rate for quantity in excess of the above-mentioned limit on the basis of market rates, within 30 days of the expiry	**Deleted**

06/11/2023
R.K. JAIN
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Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

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of the said period of 15 days, and the contractor shall be paid in accordance with the rates so determined. The rate(s) so determined by the Engineer-in-Charge shall be final and binding on the contractor, and shall not be arbitrable	
12.4 The cost of any operation necessarily ..... admissible for such operations.	**12.3** The cost of any operation necessarily ..... admissible for such operations.
12.4 No provision	**12.4 Cost index** **Latest available Cost index at the time of beginning of execution of extra item and deviation shall be used in sub-clauses 12.2 (a), 12.2 (b) and 12.2 (c) for calculation of rates of extra items.**
12.5 No provision	**12.5 Labour rates** **Labour rates will be based on latest available circulars issued by Central Govt. or State Govt. whichever are higher as well as applicable for the work.**
PROFORMA OF SCHEDULES (Separate Performa for Civil, Elect.& Hort. Works in case of Composite Tenders) **SCHEDULE 'F'** **Clause 12** Authority to decide deviation upto 1.5 time of tendered amount	**PROFORMA OF SCHEDULES (Separate Performa for Civil, Elect.& Hort. Works in case of Composite Tenders)** **SCHEDULE 'F'** **Clause 12** Deleted
12.2 & 12.3 Deviation Limit beyond which clauses12.2 & 12.3 shall apply for building work	12.2 **(c)** Deviation Limit beyond which clauses12.2 **(c)** shall apply for building work .....

06/12/2023
R.K. JAIN
(EE (Cont...))

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

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12.4 (i) Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for foundation work (except items mentioned in earth work subhead in DSR and related items) ..... (ii) Deviation Limit for items mentioned in earth work subhead of DSR and related items	(i) Deviation Limit beyond which clauses 12.2 **(c)** shall apply for foundation work (except items mentioned in earth work subhead in DSR and related items) ..... (ii) Deviation Limit for items mentioned in earth work subhead of DSR and related items .....

This OM is applicable for all NITs issued w.e.f. date of issue of this OM. This issues with the approval of DG CPWD.

06.12.2023

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

Issued from file No. CSQ/CM/17(1)/Construction/2023 e-file no 9163323
All CPWD and PWD officers for information and necessary action.
(Through CPWD website.

06/12/2023
R.K. JAIN
(EE (Contact)

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II EE/BCD-II

Central Public Works Department
Office Memorandum
No. DG/CON/Construction 2023/08
ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI Dated: 05.03.2024

Subject: Modifications in Clause 19 of GCC 2023 for Construction Works

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

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

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

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

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

This issues with the approval of DG CPWD.

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

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

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

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

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II

EE/BCD-II

Central Public Works Department
Office Memorandum

No. DG/Enlist. Rules-2023/ 07

ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Nirman Bhawan, New Delhi **Dated:12.01.2024**

Sub: Modification for enlistment under rule 12.0 in ER-2023.

Ref:- OM No. DG/ Enlst. Rules-2023/03 dated 20.09.2023

Following modification is made in the Enlistment Rules 2023.

Existing Provision	Modified Provision
12.0 Enlisted contractor's obligations The contractor shall fulfill all his obligations under these Rules in the prescribed manner, failing which he shall be liable for disciplinary action as mentioned therein. Some of the obligations are summarized below: (a) to (d) (e) The existing enlisted contractor either himself or his authorized representative shall take compulsory ERP training through any of the CPWD Regional Training institutes (RTIs) at Delhi, Mumbai, Chennai and Kolkata, National CPWD Academy (NCA) Ghaziabad, Training arranged by Graduates of ERP "Train the Trainers Programme" conducted by NCA, Ghaziabad or through any other special training arranged by ERP unit at of CPWD before 31.12.2023. Training will be valid only when participants are registered and certificate issued through LMS (Learning Management System) in ERP. From 01.01.2024, the enlisted contractor will not be allowed to participate in tendering process without uploading the certificate of above training.	12.0 Enlisted contractor's obligations The contractor shall fulfill all his obligations under these Rules in the prescribed manner, failing which he shall be liable for disciplinary action as mentioned therein. Some of the obligations are summarized below: No Change (e) The existing enlisted contractor either himself or his authorized representative shall take compulsory ERP training through any of the CPWD Regional Training institutes (RTIs) at Delhi, Mumbai, Chennai and Kolkata, National CPWD Academy (NCA) Ghaziabad, Training arranged by Graduates of ERP "Train the Trainers Programme" conducted by NCA, Ghaziabad or through any other special training arranged by ERP unit at of CPWD before **31.03.2024**. Training will be valid only when participants are registered and certificate issued through LMS (Learning Management System) in ERP. From **01.04.2024**, the enlisted contractor will not be allowed to participate in tendering process without uploading the certificate of above training.

R.K. JAIN 12/01/2024
(EE (Contact)

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

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(f) The newly enlisted contractor or his authorized …….. uploading the training certificate.	(f) No change.
The enlisted …….. Headquarter for training purpose.	No change

This issues with the approval of DG CPWD.

12.01.2024
(V.P. Sahu)
Superintending Engineer (C&M)

Issued from file No. CSQ/CM/18(4)/2023, e- file 9161361

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

R.K. JAIN 12/01/2024
(EE (Contact)

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II

EE/BCD-II

Central Public Works Department
Office Memorandum
No. DG/CON/Construction 2023/10
ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD
NIRMAN BHAWAN, NEW DELHI **Dated:** 03-06-2024

Subject: Modifications in Clause 36 of GCC 2023 for Construction Works

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

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

This issues with the approval of DG, CPWD.

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

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

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

R.K. JAIN
EE (Contract)

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II EE/BCD-II

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

No. DG/CON/Construction 2023/12

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

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

Subject: Modifications in Clause 10A of GCC 2023 for Construction Works

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

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

09.10.24
R K SINGH
EE(Manual)

1/2

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II EE/BCD-II

Appendix-XX

REGISTER OF MATERIAL AT SITE (MAS)

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

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

This issues with the approval of DG, CPWD.

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

Issued from file No. CSQ/CM/17(1)/ Construction/2024
e-file 9184028 (DFA//9301389)
केलोनिवि तथा लोनिवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु।
(केलोनिवि वेबसाईट के माध्यम से)

09.10.24
R K SINGH
EE(Manual)

2/2

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II EE/BCD-II

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

No. DG/Manual-2024/20

ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Vidyut Bhawan, New Delhi Dated: 27.02.2026

Sub: Modification in Para 5.2 for CPWD Works Manual 2024.

Following modification is made in Para no. 5.2 for CPWD Works Manual 2024:

Existing Provision	Modified Provision
5.2 Performance Guarantee Sl. No. 1 **2.** PG shall be 5% of the contract amount or as prescribed from time to time to be submitted in the form as prescribed in GCC. Performance Guarantee shall remain valid for a minimum period of sixty days beyond the date of completion of all contractual obligations as per GCC. In case of contracts where supplementary agreement is drawn, the fresh PG shall be obtained from the contractor @ 5% of the amount of the supplementary agreement or as prescribed from time to time. The PG received against the original work shall be released as per contract conditions.	**5.2 Performance Guarantee** **No Change** **2.** PG shall be 5% of the **Estimated cost put to tender (ECPT) or** contract amount **whichever is higher,** or as prescribed from time to time, to be submitted in the form as prescribed in GCC. Performance Guarantee shall remain valid for a minimum period of **six months** beyond the date of completion of all contractual obligations as per GCC. In case of contracts where supplementary agreement is drawn, the fresh PG shall be obtained from the contractor @ 5% of the amount of the supplementary agreement or as prescribed from time to time. The PG received against the original work shall be released as per contract conditions.
Sl. No. 3	**No Change**
4. No provision	**4. A bid will be treated as abnormally low if the quoted bid amount is lesser than 80% of the estimated cost put to tender.**
5. No provision	**5. Requirement of Additional Performance Guarantee (APG) : In case of abnormally low bids as defined above, the bidder shall be required to submit Additional Performance Guarantee (APG) in addition to the Standard Performance Guarantee (PG). The amount of Additional Performance Guarantee (APG) shall be equivalent to the difference between the 80% amount of ECPT and quoted amount. (e.g. if ECPT is A and quoted amount is 0.7A then the amount of APG shall be**

27/2/26 R.P. Jindal EE (Contract)

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II EE/BCD-II

	0.8A – 0.7A). **The Additional Performance Guarantee (APG) shall be in the prescribed format of Performance Guarantee and has to be submitted within the time frame prescribed for submission of Performance Guarantee. The other terms and conditions of release etc. of APG shall be same as that of PG.**

This is issues with the approval of DG CPWD.

27.02.2026

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

Issued from file No. CSQ/CM/16(1)/2026 e-file 9212995 (DFA/ 9365789)

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

27/2/26

D.P. Jindal
EE (Contract)

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II

EE/BCD-II

Proforma of Quoting Rates

Central Public Works Department

NIT No.: 44/EE/BCD-II/2026-27

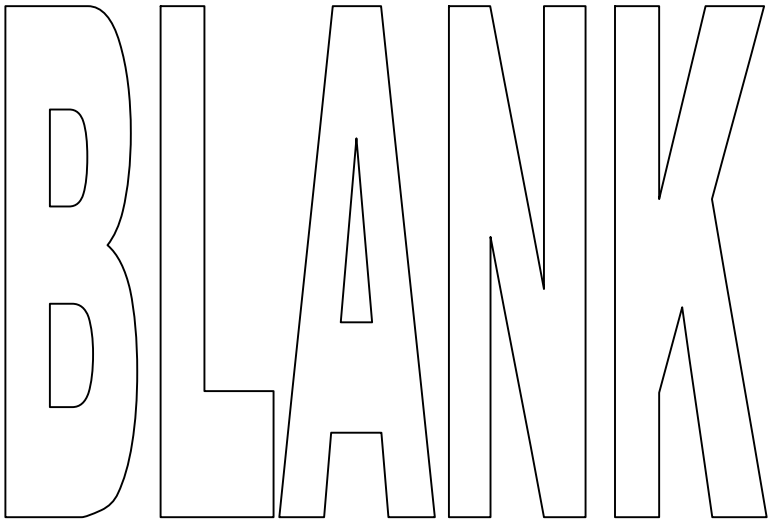
Name of work: Construction of Implement Shed for Farm Implement at ICAR-CRIJAF, Barrackpore

Estimated Cost put to tender (Rs.): **Rs. 68,54,776.00**					
Proforma for quoting the rates					
Name of the Contractor					
Sl. No.	Name of component	Estimated Cost	Percentage above or below the estimated cost	% in Figures	Total Cost
1	SW-I: Civil work	**Rs.68,54,776.00**			
	Total	**Rs.68,54,776.00**			

1. Only one of the options is to be filled. More than one option shall be rejected.
2. Rate filled in any form shall be considered only in % age.
3. Rate filled at any other place in the document shall not be considered
4. No condition shall be accepted.

Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL

AE(P)/BCD-II EE/BCD-II



Addition .. NIL
Deletion .. NIL
Correction.. NIL
Overwriting.. NIL