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Name of Work : C/o Tin shade PM Shri Kendriya Vidyalay at BSF campus Dabla Jaisalmer,
Distt. Jaisalmer.

NIT No. : 10/EE/Jaisalmer/2026-27

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Time Allowed : 5 Months.

Certified that this bid document contains pages 01 to 94 (One to Ninety Four only excluding front and back cover page).

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Assisatant Engineer (P)
CPWD, Jaisalmer

NIT approved for **Rs. 60,97,682/- (Rupees Sixty Lakh Ninety Seven Thousand Six Hundred Eighty Two Only)**

(Ashok Kumar)
Executive Engineer Jaisalmer
CPWD, Jaisalmer

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CHECK LIST FOR BIDDERS FOR SUBMISSION OF BIDS

1. The bidder should read all the instructions, items & conditions, contract clauses, nomenclature of items, specifications etc., contained in the bids document very carefully, before quoting the rates.
2. The bidder should also read the General Conditions of Contract for CPWD works 2020 construction work, published by DG, CPWD, Nirman Bhawan, New Delhi which will be a part of the Agreement with up to date amendments upto the date of receipt of tenders.
3. The bidder shall quote his rates keeping in mind the specifications, terms & conditions, additional and special conditions etc. and nothing extra shall be payable unless otherwise specified.
4. The bidder shall have to make his own arrangement for housing facilities for staff and labour at construction site or to transport the labour to and fro between Construction site and labour camp at his own cost.
5. The bidder should read the specification and special condition and additional conditions etc.
6. The bidder shall make environment friendly arrangement for disposal of dismantle/waste materials from upper floors.
7. **C.P.W.D Contractor's Labour Regulations:**

Payment of Wages (as per DG, CPWD OM no. DG/SE/CM/CON/283 dated 05.05.2015)

- (i). Wages due to every worker shall be paid to him direct by contractor through Bank or ECS or online transfer to his bank account.
- (ii) All wages shall be paid through bank or ECS or online transfer.
- (iii) It shall be the duty of the contractor to ensure the disbursement of wages through bank account of labour
- (iv) The contractor shall obtain from the junior Engineer or any other authorized representative of the Engineer-in-Charge as the case may be, a certificate under his signature at the end of the entries in the "Register of Wages" or the "Wage cum-Muster Roll" as the case may be in the following form:-
"Certified that the amount shown in column No.....has been paid to the workman concerned through bank account of labour on.....at....."

8. Modifications as per DG, CPWD OM no. DG/SE/CM/CON/285 dated 04/06/2015:-

- a. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/registration or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW welfare board and program chart(time and progress) within the period specified in schedule 'F' .
- b. As per recently introduced clause 7A, no running account bill shall be paid for the work till the applicable labour license, registration with EPFO, ESIC and BOCW welfare board whatever applicable are submitted by the contractor to the Engineer-in-charge.
- c. The contractor shall also comply with provision of the interstate migrant workman (regulation of employment) and condition of service Act 1979.

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

The Executive Engineer (Jaisalmer), CPWD, Jaisalmer on behalf of President of India invites online Percentage rate bids from approved and eligible CPWD registered contractors of Building & Road category for following work:

S.No.	NIT No.	Name of work and Location	Estimated cost put to bid	EarnestMoney	Stipulated Period of Completion of work (in months)	Last date of online submission of bid, copy of receipt of deposition of original EMD and other documents as specified in the bid document.	Time & date of opening of bid
1	2	3	4	5	6	7	8
1.	10/EE/Jaisalmer/2026-27	C/o Tin shade PM Shri Kendriya Vidyalay at BSF campus Dabla Jaisalmer, Distt. Jaisalmer.	Rs. 60,97,682/-	Rs. 1,21,954/-	5 Months	Upto 03:00 PM on 18/08/2026	From 3:30 PM onwards, on 18/08/2026

1. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
2. Information and Instructions for bidders posted on website shall form part of bid document.
3. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <https://etender.cpwd.gov.in> or www.cpwd.gov.in free of cost.
4. But the bid can only be submitted after deposition of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission and uploading the mandatory scanned documents such as Insurance Surety Bonds, Account Payee Demand draft or Bankers Cheque or Fixed Deposit Receipts or/ and Bank Guarantee (for balance amount as prescribed) from

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any of the Commercial Bank towards EMD in favour of Executive Engineer as mentioned in NIT, receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/ AE), CPWD and other documents as specified.

5. Those contractors who are not registered or have not updated their profile on the website mentioned above, are required to get registered / update their profile beforehand. The necessary training materials including the videos with step to step process are available on download section of <https://etender.cpwd.gov.in>
6. The intending bidder must have valid Class-III digital signature certificate with encryption key (combo type) to perform any operations / transactions on the e-tendering portal / website and the bidder should download and install the eMSigner on their system as per instructions available on download section of <https://etender.cpwd.gov.in>.
7. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
8. Contractor can upload documents in the form of JPG format and PDF format.
9. Contractor must ensure to quote rate in the prescribed column(s) meant for quoting rate in figures appears in yellow colour and the moment rate is entered, it turns sky blue. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO). However, If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

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

- I. Insurance Surety Bond, Demand Draft/Account Payee Banker's Cheque/FDR/Bank Guarantee of any commercial Bank against EMD.
- II. Enlistment Order of the Contractor in appropriate class having validity atleast till last date of bid submission.
- 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

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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 Copy of receipt for deposited of original EMD issued from division office of any Executive Engineer, CPWD (The EMD document shall only be issued from the place in which the office of receiving division office is situated). (Annexure-I)
- V Address with phone No. and email Id of bidder.
- VI Undertaking as structural stability & soundness as per prescribed formats in Form 'A'.
- VII Certificate of ERP Training.

Executive Engineer (Jaisalmer)
CPWD, Jaisalmer

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PART – A

**NOTICE INVITING e-TENDER (CPWD-6), TENDER FORM (CPWD-7),
SCHEDULES - A TO F FOR WORK AND STANDARD GCC FOR
CPWD-2023 FOR CONSTRUCTION WORK AMENDED/ MODIFIED
UP TO PREVIOUS DATE OF ONLINE SUBMISSION OF BID**

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CPWD-6 FOR e-TENDERING
GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

NOTICE INVITING TENDER

1. **Percentage rate tenders** are invited on behalf of the President of India through online from CPWD enlisted contractors of appropriate class in Buildings & Road category for the following work :-

“C/o Tin shade PM Shri Kendriya Vidyalay at BSF campus Dabla Jaisalmer, Distt. Jaisalmer.”

The enlistment of the contractor shall be valid on the last date of submission of bids.

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

- 1.1 The work is estimated to cost **Rs. 60,97,682/-** This estimate, however, is given merely as a rough guide.
2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD-7 of GCC 2023 for construction work amended upto previous date of Bid Submission, 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 **5 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 tender documents.
4. (i) The site for the work is available, ~~however small portion of building and may be made available on request of agency when work is likely to be started on that portion.~~
- (ii) The architectural & structural drawings for the work shall be made available in phased manner, as per the requirement of the same as per approved programme of completion submitted by the contractor after the award of the work and also as per actual progress of the work at site.
5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms & conditions of contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen from website <https://etender.cpwd.gov.in> or in the office of the Executive Engineer (Jaisalmer) CPWD Jaisalmer, free of cost.

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6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of tender as notified.
7. While submitting the revised bid, contractor can revise the quoted percentage rates but before last time and date of submission of tender as notified.
8. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (for balance amount as prescribed) from any of the Commercial Banks (drawn in favour of **Executive Engineer Jaisalmer CPWD, Jaisalmer** shall be scanned and uploaded on the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.

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

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

Copy of Enlistment Order and certificate of work experience and other documents as specified in the notice inviting e- tender shall be scanned and uploaded on the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in e- tender notice shall have to be submitted by the lowest bidder within a week physically in the office of tender opening authority. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose original EMD deposited with any division of CPWD and other documents scanned and uploaded are found in order. The bid submitted shall be opened at 03:30 PM on **18/08/2026**.

9. The bid submitted shall become invalid if:

- (i) The bidder is found ineligible.

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- (ii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.
- (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.
- (iv) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
10. The contractor whose bid is accepted will be required to furnish performance guarantee at specified percentage of the tendered amount as mentioned in schedule E and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the subcontractors, if any engaged by the contractor for the said work within the period specified in Schedule F.

11. The description of the work is as follows:

“C/o Tin shade PM Shri Kendriya Vidyalay at BSF campus Dabla Jaisalmer, Distt. Jaisalmer.”

In this work provision of construction of Shed for assembly ground of Kendriya vidyalaya BSF campus Dabla has been taken. The span of truss is about 20m. The height of truss above floor level is about 4m. The pitch of truss is 2.5m. The truss structure is made from the structural steel hollow tubes as per structural drawing. MS purlin is to be placed over the truss for pre-coated GIS sheet. The foundation work for the support of the truss is taken in the estimate is RCC work. The required area is to be excavated for foundation work. The school building is running. The work is to be executed considering the convenience for the school activities. Work activities is to be plan with the co-ordination/consent of the Principal Kendriya Vidyalaya Dabla so that there should be minimum disturbance to the students reading in the classroom and safety of the student and staff of school may be ensured every time.

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

12. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidder shall be summarily rejected.
13. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
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 bidder 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 Housing and Urban Affairs. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
17. No Engineer of 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

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Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.

18. The bids for the work shall remain open for acceptance for a period of 30 (thirty) days from the date of opening of bids in case of single bid system and 75 (seventy five) days from the date of opening of technical bids in case bids are invited in 2 or 3 bid system.

Further

- (i) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department within 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - (ii) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - (iii) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work.
19. This notice inviting Bid shall form a part of the contract document. The successful bidder/ contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
- (a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
 - (b) Standard C.P.W.D. Form 7/8 or other Standard C.P.W.D. Form as applicable.

20. For Composite Bids

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

20.1.2 The bid document will include following three components:

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Part A:- CPWD-6, CPWD-7/8 including schedule A to F for the major component of the work, Standard General Conditions of Contract for CPWD 2023 as amended/ modified up to previous date of submission of online bid.

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

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

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

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

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

EE of major component will operate Part A and Part B of the agreement. EE/DDH incharge of minor component(s) shall operate Part- C alongwith Part A of the agreement.

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

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

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

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

The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-Charge is not satisfied with the performance of any agency, he can direct the contractor to

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change the agency executing such items of work and this shall be binding on the contractor.

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

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

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

20.1.12B. Final bill of whole work shall be finalized and paid by the EE of major component.

Engineer(s) in charge of minor component(s) will prepare and pass the final bill for their component of work and pass on the same to the EE of major component for including in the final bill for composite contract.

21. ~~Integrity Pact: The contractor shall download the Integrity Pact, which is a part of tender documents, affix his signature in the presence of a witness, and upload the same while submitting online bids for all works of estimated cost put to tender equal or more than the threshold value given in Schedule F. In the event of his failure to sign and upload the Integrity Pact along with other bid documents, his bid shall be rejected.~~

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

23. Jurisdiction of Courts

The Court of the place from where the letter of award of work has been issued shall have the jurisdiction to decide any dispute arising out of or in respect of the contract.

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24. CPWD does not have funds of its own and it carries out the works of client departments from their funds (deposit, budgetary, authorization). The CPWD is making payments to the contractors after getting budget/ authorization/ deposit from various Ministries/Client Departments. The payment to the contractor can be done only on availability of funds for that work from client department and in case of delay in getting funds from Ministry / Client Department, CPWD will not be responsible for delay in payment. Interest on delay of the payment shall be payable as per agreement clause-7 and no any other extra compensation shall be payable on this account. The contractor has to quote his tender accordingly considering this aspect.

*To be filled in by NIT approving authority.

Executive Engineer (Jaisalmer)
CPWD, Jaisalmer

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GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE	Rajasthan	CIRCLE	SE Jodhpur
BRANCH	B&R	DIVISION	EE Jaisalmer

PERCENTAGE RATE TENDER AND CONTRACT FOR WORKS

Tender for the work of: C/o Tin shade PM Shri Kendriya Vidyalay at BSF campus Dabla Jaisalmer, Distt. Jaisalmer.

(i) To be uploaded by 03.00PM on 18/08/2026

i) The online Bid shall be opened in presence of tenderers who may be present at 03.30PM on 18/08/2026 In the office of the: Executive Engineer Jaisalmer, CPWD Jaisalmer.

TENDER

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

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

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

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

A copy of earnest money deposit receipt of prescribed amount deposited in the form of insurance surety bonds. Account Payee Demand Draft. Fixed Deposit Receipt, Banker's cheque or Bank Guarantee (as prescribed) issued by a Commercial 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

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conditions contained or referred to those in excess of that limit at the rate to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

Further, I/We agree that in case of forfeiture of Performance Guarantee as aforesaid, I/We shall be debarred for participation in the 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 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

Dated:

Signature _____

Designation _____

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

SCHEDULE 'A' to 'F'

SCHEDULE 'A'

Schedule of quantities: For civil work Page No. **91 to 93**

SCHEDULE 'D'

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

Civil:

- 1 Additional condition for civil work and additional specification.
- 2 List of Preferred make of material
- 3 Special condition for site.
- 4 Special condition royalty.
- 5 Guarantee Bonds

SCHEDULE 'E'

Reference to General Conditions of contract	General Conditions of Contract-2023 for Construction Works in CPWD as amended/ modified up to the Previous date of online submission of Bid
Name of Work:	C/o Tin shade PM Shri Kendriya Vidyalay at BSF campus Dabla Jaisalmer, Distt. Jaisalmer.
Estimated Cost of work: -	Rs. 60,97,682/-
Earnest Money: -	Rs. 1,21,954/- (to be returned after receiving performance guarantee)
Performance Guarantee	(a) 5.00% of tendered value or estimated put to tender (ECPT) whichever is higher (b)Where the tendered amount is less than 80% of the estimated cost put to tender (ECPT), The performance guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between Eighty percent (80%) of the ECPT and the tendered amount.
Security Deposit	2.5% of the tendered value

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

SCHEDULE 'F':-

General Rules & Directions:-

	Officer Inviting Tender	:	Executive Engineer Jaisalmer, CPWD, Jaisalmer
	Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 C	:	Refer Clause-12
	Definitions:-		
2 (v)	Engineer-In-Charge	:	Executive Engineer Jaisalmer, CPWD, Jaisalmer
2 (viii)	Accepting Authority	:	SE (Jodhpur), CPWD, Jodhpur
2 (x)	Percentage on cost of materials and labour to cover all overheads and profits	:	15%
2 (xi)	Standard Schedule of Rates (civil & electrical)	:	DSR 2023 modified by multiplying correction factor of 0.973 as Director General Office Memorandum No. 158/SE(TAS)/ GST/2024/02-E Dt. 08-08-2024 & DSR-2025 (E&M) with correction slips issued up to previous day of late date of submission of bids & market based items wherever applicable.
2 (xii)	Department	:	Central Public Works Department
9 (ii)	Standard CPWD Contract (civil)	:	GCC-2023 Construction works CPWD Form-7 modified and amended up-to previous date of last date of online submission of bids.
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 including provident fund Code No. or proof of applying thereof from the date of letter of acceptance.		07 days
(ii)	Maximum allowable extension with late fee @ 0.1 % per day of performance guarantee amount beyond the period as provided in (i) above		05 days
Clause-2	Authority for fixing compensation under clause-2		SE (Jodhpur), CPWD, Jodhpur or his successor

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

Clause-5		Number of days from the date of issue of letter of acceptance for reckoning date of start.	12 days	
S.No.	Description of Milestone (Physical)		Time allowed in days (from date of start)	Amount to be withheld in case of non achievement of milestone
1	Civil Work:- Earth work in Excavation, P.C.C., R.C.C. footing, for column of steel truss structure residential quarters, Completion of RCC footing work for office building i/c water proofing treatment.		1.5 Months	1.00% of accepted tendered amount.
2	Civil Work:- Completion of truss work. Errection of truss at site.		3 Months	1.00% of accepted tendered amount.
3	Civil Work:- Completion of GIS roofing I/c purlin and painting of the truss structure.		4 Months	1.00% of accepted tendered amount.
4	Civil Work:- Re-laying of paver block work and complete the work as per scope of work.		5 Months	1.00% of accepted tendered amount.
Time allowed for execution of work: 5 Months				
Note :				
(1) Mile stones shall be applicable both for major component (civil work) as well as for minor component (electrical work) of the work.				
(2) The milestone (s) will be treated as achieved when both Civil as well as Electrical work specified in milestone (s) is achieved simultaneously.				
(3) Engineer in charge of Major component will withhold for non achievement of milestone(s) after getting confirmation in writing from the Engineer in charge of Minor component at the time of making payment.				
Authority to decide.				
(i)	Authority to convey the decision of shifting of milestone and extension of time.	:	EE Jaisalmer, CPWD, Jaisalmer	
(ii)	Authority to decide rescheduling of milestone and extension of time.	:	EE Jaisalmer, CPWD, Jaisalmer	
(iii)	Shifting of date of start in case of delay in handing over of site.	:	EE Jaisalmer, CPWD, Jaisalmer	

Proforma of Schedule: Clause 5 schedule of of handing over of site

Part	Portion of Site	Description	Time Period for handing over reckoned from date of issue of letter of intent.
Part A	Portion without any hindrance	Site is available	
Part B	Portions with Encumbrances		

Schedule of Issue of design and drawing:

Portion of Design	Description	Time Period for Issue of drawing/design
Portions of Civil Designs to be issued	Structural Drawings and Architectural Drawings	Structural Drawings for Foundation and Superstructure for shall be given within 15 days of handing over of site .

CLAUSE 5.4

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

Rescheduling of milestone(s) and extended date of completion :-

As per OM no. DG/CON/Construction 2023/04 dt 08.12.2023

Clause-6:-	Computerised Measurement Book (CMB) / Electronic Measurement Book (EMB) Mode of Measurement :	CMB
Clause-7:-	Gross work to be done together with net payment / adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment.	Rs. 10 Lakh for Civil or as mutually agreed by both parties.
Clause-7A:-	Whether Clause-7A shall be applicable.	Yes
Clause-7B:-	Payment to Third Party	Applicable
Clause-8	Competent authority to inspect and issue part/final completion certificate	EE (Jaisalmer), CPWD, Jaisalmer or his Successor thereof

Clause -8A

1	Authority to decide compensation on account if contractor fails to submit completion plans.	EE Jaisalmer, CPWD, Jaisalmer or his successor thereof
Clause-10A:-	Materials to be provided by the contractor	Provision as per O.M. No. DG/Con/Construction 2023/12 dated 09.10.2024 & DG/Con/Construction 2023/13 dated 29.10.2024 issued by CPWD Directorate.
Clause-10-B (ii)	Whether clause 10-B (ii) shall be applicable	Yes
Clause- 10C		Applicable
Component of labour expressed as percentage of value of work.		0.25
Clause : 10CC		Not Applicable

Clause-11:- (i) Specifications to be followed for Execution of work -

C.P.W.D. Specifications 2019 Vol. I & II with correction slips upto previous date of online submission of bid and as per manufacture specification i/c special conditions & particular specifications.

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

i). Building information model (BIM) is applicable and BIM professional to be deployed by contractor. **NO**

CLAUSE 12.2C

Type of work:	Construction Work.
Deviation limit beyond which clause 12.2 C shall apply for building work.	100%
(i). Deviation limit beyond which clause 12.2C shall apply for foundation work (except items mentioned in earth work sub head in DSR and related items)	100%
(ii). Deviation limit for items mentioned in earth work sub-head of DSR and related items.	100%

CLAUSE 16

Competent Authority for deciding reduced rates

Superintending Engineer, Jodhpur or his Successor thereof.

CLAUSE 18

List of mandatory machinery, tools & plants to be deployed by the contractor at site:
Which ever required.

Sl. No.	Equipment	Numbers (Minimum)
1.	Crane, JCB, Excavator, Hydra crane	To be deployed whenever required as per site
2.	Rock Breaker Machine (like Tata Hitachi).	As per requirement
3.	DG set of minimum capacity 25 KVA.	1
4.	Concrete pump	1
5.	Transit Mixer	1
6.	Needle Vibrators.	2
7.	Plate Vibrator	2
8.	Screed leveler/ Double beam surface vibrator	1
9.	Dumper/Tipper	1
10.	Reinforcement bending machine.	1
11.	Reinforcement cutting machine	1
12.	Total station.	1
13.	Auto level & staff.	1
14.	Water tanker (Minimum capacity of 5000 liters)	1

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

15.	Welding machine 400 Ampere	1
16.	Screen for coarse sand and fine sand	1
17.	Centrifugal mono block water pump minimum capacity 2 HP	1
18.	Steel Shuttering with necessary steel props	As per site requirement (minimum 100 Sqm)
19.	Steel scaffolding and staging materials	As per requirement
20.	Any other machinery required for completion of the work as per decision of Engineer-in-charge.	As per Actual requirement

Note :

1. The machinery, tools & plants shall have to be mobilized for **C/o Tin shade PM Shri Kendriya Vidyalay at BSF campus Dabla Jaisalmer, Distt. Jaisalmer** as per requirement of work & as per completion program submitted by the contractor and machinery, tools & plants can be demobilized after completion particular activity for which such machinery, T&P was required.
2. Other machineries, T&P not mentioned in above list shall be arranged by Contractor as and when required to complete the particular activity as per approved completion program & direction of engineer-in-charge.
3. The above list is only indicative and not exhaustive. The Bidder may be required to deploy more T&P as per requirement of work.

Clause19 Competent Authority to decide penalty for each default–

Clause 19C	Competent Authority to decide penalty for each default	Executive Engineer Jaisalmer, CPWD, Jaisalmer or his Successor.
Clause 19D	Competent Authority to decide penalty for each default	Executive Engineer (Jaisalmer), CPWD, Jaisalmer or his Successor.
Clause 19G	Competent Authority to decide penalty for each default	Executive Engineer (Jaisalmer), CPWD, Jaisalmer or his Successor.
Clause 19K	Competent Authority to decide penalty for each default	Executive Engineer (Jaisalmer), CPWD, Jaisalmer or his Successor.

- Clause 25** (i) Conciliator – Special Director General, Chandigarh.
(ii) Arbitrator Appointing Authority – SE (Jodhpur), CPWD, Jodhpur.
(iii) Place of Arbitration - Jaisalmer

CLAUSE 32

"Requirement of Technical Representative (s) and Recovery Rate"

	Requirement of Technical Staff	Minimum	Designation of	Rate at which recovery
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C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

S. No	Qualification	Number(of Major+ Minor component)	experience (Years)	Technical Staff	shall be made from the contractor in the event of not fulfilling provision of Cl. 32
					Figures
1.	Graduate or Diploma Engineer	1	2 or 5 Years respectively	Project Manager cum Planning Quality/Site/ billing Engineer	Rs. 15,000/- Per month per person

Note: Engineer-in-charge shall assess the actual requirement of the technical representatives as per the progress of the work.

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

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

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

CLAUSE 38

(i) (a)	Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates	DSR-2023 with correction slips upto issued upto date of receipt of tender
(ii)	Variations permissible on theoretical quantities	
(a)	i. Cement for works with estimated cost put to tender not more than Rs. 25 lakh ii. Cement for works with estimated cost put to tender more than Rs. 25 lakh	3 % plus/minus 2 % plus/minus
(b)	Bitumen for all works	2.5% plus only & nil on minus side
(c)	Steel reinforcement and structural steel section for each diameter, section and category	2 % plus/minus
(d)	All other materials	Nil

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O	NIL

AE (P)

EE Jaisalmer

ITEMS WHICH ARE TO BE EXECUTED THROUGH SPECIALIZED AGENCY:

The tenderer(s) must associate with himself, specialized agencies of the appropriate eligibility to components of specialized nature of items/ work of major component listed below individually.

S.No.	Specialized work(s)/ item of work(s) Civil	Estimated Cost Rs (in Lakh)	Criteria / Acceptable names of associated agencies
1.	Steel structure work for truss	25	The fabricator should have there own factory with required machines for cutting and welding the truss members and erection at site should have experience to execute the work of similar nature during the last three years. i) One similar completed work of value not less than 80% of 25 lakhs amount of this specialised work. OR ii) Two similar completed works each of value not less than 60% of 25 lakh amount of this specialised work. OR iii) Three similar completed works each of value not less than 40% of 25 lakh amount of this specialised work. Similar work shall mean “Steel structure”.

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AE (P)

EE Jaisalmer

PART - B

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I	NIL
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EE Jaisalmer

ADDITIONAL CONDITIONS FOR (CIVIL WORK)

1.0 General Conditions for Civil Works

The work in general shall be carried out in accordance with the CPWD Specifications 2019 Vol. I to II (corrected/ amended up to last date of bid submission) herein after referred as CPWD Specifications.

Order of Preference: In case of any difference or discrepancy between the description of items as given in the schedule of quantities, specifications for individual items of work, contract conditions and/or I.S. Codes etc., the following **order of preference** shall be observed:

- a) Description of items given in Schedule of quantities
- b) Particular specifications, if any, for the item in agreement
- c) Special conditions, if any, in agreement
- d) Additional conditions, if any, in the agreement
- e) Tender drawings attached/ GFC drawings issued during execution
- f) CPWD Specifications including correction slips up to previous date of online submission of bid.
- g) General Conditions of Contract 2023 for Construction Work with correction slips up to previous date of online submission of bid.
- h) Indian Standards Specifications of B.I.S.
- i) ASTM, BS or other foreign origin code mentioned in agreement.
- j) Manufacturer's specifications for the item, as decided by Engineer-in-charge.
- k) Sound Engineering practices or well-established local construction practices.

1.3 Source of Material:

- a. *The water for construction work shall be arranged by contractor. The contractor shall get the water tested with regard to its suitability of use in the works and get written approval from the Engineer-in-charge before he proceeds with the use of same of execution of works. If the tubewell water is not suitable, the contractor shall arrange Municipal water or from any other sources in his own cost and nothing extra shall be paid to the contractor on this account. The water shall be got tested at frequency specified in latest CPWD specifications/BIS code. Contractor may be required to install industrial RO plant at site at his own cost, for treating water for construction purpose.*
- b. *Stone for stone aggregates and stone ballast shall be of hard stone variety, mined from Govt. approved mines. The contractor shall submit source(s) of material along with samples of material from that source. Based on stipulated specifications, source and sample shall be approved by the Engineer- in-Charge quarry nearby Barmer city is approved for coarse aggregates subjected to confirming the CPWD specification.*
- c. **Stone for stone masonry : For the RR stone masonry work in building work, the stone is to be procured from Jaisalmer.**
- d. *The quarry for stone for CR/RR stone masonry shall be approved by the Engineer-*

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AE (P)

EE Jaisalmer

in-charge subjected to confirming the CPWD specification. However, the stone procured for the work shall be of one quarry. Engineer-in-charge with recorded reason may allow another quarry.

e. Coarse and fine aggregates to be used for concrete work, mortar for masonry, plaster etc shall be sourced from Govt. approved mines or manufacturer(s) as approved by Engineer-in-charge. The contractor shall submit source(s) of material along with samples of material from that source & testing reports. Based on stipulated specifications, source and sample shall be approved by the Engineer- in-Charge. River sand from Sindhari Distt Barmer or Parewar Double wash sand, District Jaisalmer is approved for this work subjected to confirming the CPWD specification.

f. In schedule of quantity, wherever provision for coarse sand and fine sand is specified in any item, use of crushed stone sand or manufactured sand shall also be permissible as per codal provisions. Nothing extra shall be payable or recoverable on this account, over & above the quoted rate(s) of respective item. However decision of the Engineer-in-charge w.r.t. selection of material i.e. natural sand, crushed stone sand, manufactured sand etc. shall be final and binding on contractor.

1.3 Testing of Materials:

(A) Regarding testing of civil & electrical materials, which cannot be tested in site laboratory and/or to be tested at an independent laboratory, the testing of materials shall be conducted in Govt. Laboratory/ Govt. colleges/ IITs/NITs or from the laboratory approved by SDG/ADG.

All expenditure to be incurred for testing of the samples including testing charges, cost of sample, packaging, sealing, transportation, loading, unloading etc. shall be borne by the contractor. The contractor shall also make all arrangements for transportation and delivery of samples of materials to the testing laboratory and nothing extra in this regard is payable.

1.4 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. 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 the purpose. The laboratory shall be equipped, inter alia, with the following equipment:

1 Balances:

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AE (P)

EE Jaisalmer

- 7 kg to 100 kg capacity, semi-self-indicating type – Accuracy 10 gm.
500 gm capacity, semi-self-indicating type Accuracy 1 gm.
Pan Balance- 5 kg Capacity- Accuracy 10 gm.
- 2 **Ovens-** Electrically operated, thermostatically controlled upto 110 degree Centigrade- Sensitivity 1 degree Centigrade.
- 3 **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, 600 microns, 425 microns, 300 microns, 212 microns, 150 microns, 90 microns, 75 microns with lid and pan.
- 4 Sieve shaker capable of 200 mm and 300 mm dia sieves, manually operated with timing switch assembly.
- 5 Equipment for slump test- slump cone, steel plate, tamping rod, steel scale, scoop.
- 6 Equipment for concrete testing
- i) Concrete cube moulds 15x15x15cm. 18Nos.
 - ii) Pruning Rods 2Kg weight, length 40cm and ramming face 25mm 1No.
 - iii) Extra Bottom plates for 15cm cube mould 6Nos.
 - iv) Standard Vibration table for cubes 1No
 - v) Compression testing machine of 100 tonnes capacity. 1 No.
(Electrical-cum-manually operated)
 - vi) Slump Cone, Steel plate, tamping rod, steel scale, scoop 1 Set
 - vii) Gauging trowels 100 mm and 200 m with wooden handles 1 set
 - viii) Spatula 100 mm and 200 m with wooden handles 1 set
 - ix) Vernier calipers, screw gauge (All digital), SWG 1 set
- 7 Dial gauges 25 mm travel- 0.01 mm/division least count 2 Nos.
- 8 Graduated measuring cylinders 200ml capacity 3 Nos.
- 9) Enamel Trays (for efflorescence test for bricks)
- i) 300mmx250mmx40mm 2 Nos.
 - ii) Circular plates of 250mm diameter 4 Nos.
- 10 Steel tapes - 3 m
- 11 Micrometer screw 25 mm gauge
- 12 A good quality plumb bob
- 13 Spirit level, minimum 30 cms long with 3 bubbles for horizontal vertical
- 14 Wire gauge (circular type) disc
- 15 Foot rule
- 16 Long nylon thread
- 17 Rebound hammer for testing concrete (1 no)
- 18 Dynamic penetrometer
- 19 Magnifying glass
- 20 Screw driver 30 cms long
- 21 Ball pin hammer, 100 g
- 22 Plastic bags for taking samples
- 23 Water testing kit

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AE (P)

EE Jaisalmer

- 25 Depth Gauge
- 26 Straight edge
- 27 Any other equipment for site tests as outlined in BIS codes and as directed by the Engineer-in-charge.

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.

All the test in field lab setup at construction site shall be carried out by the Engineering staff deployed by contractor which shall be 90% witnessed by JE and 50% of tests shall be witnessed by AE-in- charge. At least 10% of the tests are to be witnessed by the Executive Engineer.

1.5 Sampling of Materials:

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 by the Engineer-in-Charge which shall be preserved till the completion of the work.

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. Same shall be removed from the site within the time as directed by the Engineer-in charge at their own cost.

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.

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.

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.

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.

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

1.6 Program Chart:

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AE (P)

EE Jaisalmer

The Contractor shall prepare an integrated program chart and action thereof as per GCC 2023 for Construction Works - Clause 5 of Contract.

The integrated program chart including civil as well as E & M activities for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment and machinery required for the fulfillment of the program within the stipulated period and submit the same for approval of the Engineer-in-Charge within fifteen days of the award of the work. These shall be submitted by the contractor through electronic media besides forwarding hard copies of the same. The integrated program chart so submitted should not have any discrepancy with the physical milestones attached in the contract agreement.

The program chart should include the following: -
Descriptive note explaining sequence of various activities.

Network (PERT/CPM/BAR CHART) prepared on MS project/Primavera, which will indicate resources in financial terms, manpower and specialized equipment for every important stage.

Program for procurement of materials by the contractor.

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

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

Program for achieving monthly milestones and periodic milestones.

The contractor shall also be required to submit 2 sets of monthly progress report of the work in a computerized form, every month.

The **monthly progress report** shall contain the following:
Construction schedule of the various components of the work through a bar chart for the next month (or as may be specified), showing targeted tasks (including material and labour requirement) and up to date progress.
No. of skilled workers (trade wise) and total no. of unskilled workers deployed on the work and their location of deployment i.e. blocks.
Ten photos of the site showing months activities.

1.7 QUALITY ASSURANCE

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

In addition to the supervision of work by CPWD engineers, the officials deployed by the client shall also be carrying out regular and periodic inspection of the ongoing activities in the work and deficiencies, shortcomings, inferior workmanship pointed out by them shall be communicated by CPWD engineers to the contractor. Upon receipt of instructions from Engineer-in-Charge these are also to be made good by necessary improvement, rectification, replacement upto his complete satisfaction. Special attention shall be paid towards line and level of internal and external plastering, exposed smooth surface of RCC members by providing fresh shuttering plates, rubberized linings to all the shuttering joints, accurate joinery work in wooden doors and windows, thinnest joints in stone / tiling / cladding work, non-

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EE Jaisalmer

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

Contractor shall submit minimum “Quality Assurance Plan: within 20 days after award of work.

The QA plan shall consist of lot size & number of required tests and frequency of testing. While deciding these criteria, CPWD Specifications & Provisions of BIS Code and Standard Practices may be referred. Volume of work, Practical Difficulties and Site Conditions etc. may also be kept in view. The lot size, number of tests and frequencies of testing can be altered or modified by the Engineer-in-charge from the prescribed limits.

QA plan should also clearly indicate the Machinery and other Tool & Plants required to be deployed at site by the Contractor. Entire Machinery and T&P may not be required at the start of work, therefore, a proper time schedule by which each Machinery & T&P is to be brought at site should also be indicated.

QA plan should also indicate system of Receipt of Material, testing of the same & Construction of Register of Tests.

All the registers of tests carried out at Construction Site or in outside laboratories shall be maintained by the Contractor, which may be inspected by Engineer-in-charge or his/her representative.

The contractor shall allow access to Third Party Quality Assurance agency (TPQA), if engaged by Engineer-in-charge to have a control on quality and methodology of execution. At least 25% of Samples of materials including Cement Concrete Cubes shall be taken jointly by contractor and TPQA / Engineer-in-charge or his authorised representative. All arrangements for transporting and getting them tested shall be made by the contractor.

All the tests in field lab setup at construction site shall be carried out by the Quality control team/engineer to be engaged by the contractor which can be witnessed by Engineer-in-charge or his/her representative. A daily intimation of tests to be conducted on a day shall be given to Engineer-in-charge or his/her representative.

All the entries in the registers will be made by the designated Engineering Staff of the contractor.

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

Submission of original/copy of all test registers, material at site register and hindrance register along with each alternate Running Account Bill and with the Final Bill shall be mandatory.

All material received at site shall be entered in MAS Register and copy of Supply order, MTC & Bill-invoice shall be maintained in order. The MAS Registers including Cement and Steel Registers shall be maintained by a qualified staff of contractor which may be inspected by Engineer-in-charge or his/her representative at any time. The intimation of receipt of material shall be sent to Engineer-in-charge or his/her representative on day to day basis for his approval.

All the materials to be used in the work, to give the finished work complete in all respects, shall comply with the requirements of the specifications and shall pass all the tests required as per specifications as applicable or such specifications / standards as directed by the Engineer-in-Charge. However, keeping the Quality Assurance in mind, the Contractor shall

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submit, on request from the Engineer-in-Charge, his own Quality Assurance procedures for basic materials and such items, to be followed during the execution of the work, for approval of the Engineer-in-Charge.

All the hidden items such as reinforcement, water supply lines, drainage pipes, conduits, sewers, putty, primers etc. are to be properly tested as per the design conditions before covering and their measurements in computerized measurement book duly test checked shall be deposited with Engineer in charge or his authorized representative, prior to hiding these items.

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

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

The contractor shall depute Site Engineer & skilled workers as required for the work. The contractor shall maintain all the work in good condition till the completion of entire work.

1.8 Pour card, check-list for Execution of work

As and when any important item is taken up for execution, the Contractor shall develop and submit a checklist and/or pour card. This sample checklist should be got approved from the Engineer-in-charge and should be used at site. This check list should be shown to the Engineer-in-charge or his/her designee during inspection. This procedure is to be followed for all hidden items, CC/RCC work, Steel-reinforcement, shuttering, cast-in-situ mosaic flooring, doors & windows, plumbing, including water supply pipe lines, roof treatment, earth filling etc.

The Contractor shall maintain documentation of the total sequence of this project by way of photography, video recording etc. and submit to Engineer-in-charge for record. Nothing extra shall be payable to the contractor on this account.

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1.9 SAMPLE POUR CARD FOR RCC WORK

Name of work:

1.0 GENERAL

Name of Contractor

Structural Element

Location

Architectural drawing No.

Structural drawing No.

Approximate quantity and grade of concrete

Expected start time

Expected finish time

Name of Contractor's Engineer

2.0 CENTERING TYPE

2.1 Adequate vertical supports Y/N

2.2 Adequate lateral supports Y/N

3.0 SHUTTERING TYPE

3.1 Cleaned Y/N

3.2 Oiled Y/N

3.3 Leveled Y/N

3.4 Holes plugged Y/N

4.0 REINFORCEMENT TYPE

4.1 Cover blocks Y/N

4.2 Conforms to Drawings Y/N

4.3 Couplers Tied Properly Y/N

4.4 Space Bars / chairs Y/N

4.5 Reinf tied properly Y/N

4.6 Laps proper Y/N

5.0 CONCRETE TYPE

5.1 Plant informed about mix and type Y/N

5.2 Transit mixer ready Y/N

5.3 Tower crane ready Y/N

5.4 Concrete pump ready Y/N

5.5 Vibrators (Electrical & Diesel Ready) Y/N

5.6 Predetermined Holes left wherever required Y/N

5.7 Boards for construction joints Y/N

5.8 Conduits placed in position Y/N

5.9 Fan clamps placed in position Y/N

5.10 Steel templates Y/N

5.11 Cement slurry Y/N

Dated:

The above information filled by me after proper verification

(AUTHORISED SITE ENGINEER OF FIRM)

The above information checked by me

(JUNIOR/ ASSISTANT ENGINEER)

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Sample of Work/Items:

The contractor shall invariably prepare the samples of finishing items i.e. flooring of different types, external & internal finishing i/c colour scheme of paint, tiles in dado, flooring in platforms & staircase, water supply & sanitary fittings and any other item as per direction of Engineer-in-charge. The contractor shall proceed with further finishing items only after getting the samples of these items approved in writing from Engineer-in-charge.

In case of construction of residential quarters, one sample quarter, each of Type- II and Type – III alongwith one sample room of Boys & Girls Hostel each i/c sample toilet in both hostels within the proposed building, complete in all shape, shall be prepared by the contractor and got approved from Engineer-in-charge in writing. The contractor shall be allowed to proceed with further finishing work only after getting the sample quarters/room/toilet, as applicable, approved in writing from Engineer-in-charge. No extra claim whatsoever beyond the payments due at agreement rates will be entertained from the contractor on this account.

In the schedule of quantities/BOQ/preferred make list of items, brand/make of material is mentioned. The contractor shall be required to provide the same brand/make as mentioned in the item/list. If the same are not available in the market or the suppliers adopts monopolistic practice then the approval of other equivalent brand/make are to be obtained from Engineer-in-charge. The contractor will submit such a case at least three months before the materials is required at site. If the rate of other equivalent brand/make are less than the brand/make mentioned in the item, than necessary cost adjustment will be made for difference in rates.

During actual execution of item(s) at site, due to change/updation of product specification(s) by manufacturers, there may be minor variation in manufacturer's specifications viz-a-viz specification mentioned in item(s) in Schedule of Quantity (civil, furniture well as electrical work). Such variations shall be allowed with prior permission of Engineer-in-charge for execution of work at site and nothing extra shall be payable to the contractor on this account. The decision of Engineer-in-charge in this matter shall be final and binding on contractor.

1.10 THIRD PARTY QUALITY ASSURANCE

In order to achieve high standards of materials, workmanship and overall quality of the execution, an agency of CPWD may carry out Third Party Inspections as part of 'Third Party Quality Assurance'. The TPQA may be in-house team of CPWD or an external agency. This Contractor will carry out the checks of the quality assurance procedures followed at site, take samples of the materials for independent testing and check the workmanship of the works carried out. The contractor shall extend full co-operation to the TPQA in facilitating the inspections and collection of samples and regulate the execution stages with regards to the hold and witness points which shall be strictly adhered to by the contractor. The next stage work shall not be undertaken at the hold point stage and work shall be done in presence of the TPQA representative at the witness stage. The contractor shall be required to co-operate with TPQA in carrying out various activities including documentation at no extra time and cost to the owner. In case of any adverse findings by the TPQA, the contractor shall do the needful rectifications to the entire satisfaction of the TPQA and CPWD. If contractor fails to rectify the defects of the serious nature within a reasonable time frame no further payment shall be made. If work is stopped due to non- rectification of defects and delay occurs on this account, no relief in completion of mile stone by way of grant of EOT or any other relaxation be given.

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INSPECTION OF WORK

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

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

Entrance and area surrounding to be kept cleaned.

Display layout plan key plan, building drawings including plans, elevations and sections.

Upto date displays of Bar chart, CPM and PERT etc.

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

Keep plastic / cloth mounted one sets of building drawings.

Set of Helmets and safety shoes for safety.

1.11 RESPONSIBILITY

The Contractor shall keep himself fully informed of all relevant acts and laws of the Central & State Governments, orders, decrees of statutory bodies, tribunals having any jurisdiction or authority, which in any manner may affect those engaged or employed and anything related to carrying out the work. All the rules & regulations and bye-laws laid down by District Collector / Municipal Corporation / Urban Development Authority and any other statutory bodies shall be adhered to, by the contractor, during the execution of work.

The Contractor shall also adhere to all traffic restrictions notified by the local authorities. The water charges (for municipal water connection as well as tanker water) shall be borne by the contractor. Also, if the contractor obtains water connection for the drinking purposes from the municipal authorities or any other statutory body, the consequent sewerage charges shall be borne by the contractor.

Temporary electrical connection, all statutory taxes, levies, charges (including water and sewerage charges, charges for temporary service connections and / or any other charges) payable to such authorities for carrying out the work, shall be borne by the Contractor. The Contractor shall arrange to give all notices as required by any statutory / regulatory authority and shall pay to such authority all the fees that is required to be paid for the execution of work. He shall protect and indemnify the Department/ client and its officials & employees against any claim and /or liability arising out of violations of any such laws, ordinances, orders, decrees, by himself or by his employees or his authorized representatives. Nothing extra shall be payable on these accounts.

The fee payable to statutory authorities for obtaining the various permanent service connections and Building Use Certificate for the building shall be borne by the Department/ client.

The contractor shall assume all liability, financial or otherwise in connection with this contract and shall protect and indemnify the Department from any and all damages and claims

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

No residential accommodation shall be provided to any of the staff engaged by the contractor. The contractor shall also not be allowed to erect any temporary set up for his staff in the campus.

No claim of the labourers shall be entertained including that of providing employment, regularization of services etc.

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

The staff employed by the contractor should be well behaved and any complaint of misbehavior shall be taken very seriously and such staff will have to be removed by the contractor immediately from the site.

Contractor shall be fully responsible for any damages caused to government property or allottee's property by him or his labour in carrying out the work and shall be rectified by the contractor at his own cost.

1.12 Specialized Agencies

The tenderer must associate with himself, agencies of the appropriate eligibility to tender for each of specialized nature of items / work listed in the tender documents, individually. Such works shall be got executed only through associated agencies specialized in these fields. The contractor shall submit name(s) of his associated specialized agencies those fulfilling the eligibility criteria laid down in contract document, atleast 60 days before commencement of such items / work for the approval of the Engineer in charge whose decision shall be final and binding. If the tenderer himself fulfils the eligibility criteria laid down for associated specialized agencies, then the tenderer shall not require associating with himself the associated specialized Contractor.

It shall be the responsibility of main contractor to sort out any dispute / litigation with the Specialized Agencies without any time & cost overrun to the Department. The main contractor shall be solely responsible for settling any dispute / litigation arising out of his agreement with the Specialized Agencies. The contractor shall ensure that the work shall not suffer on account of litigation/ dispute between him and the specialized agencies / sub-contractor(s). No claim of hindrance in the work shall be entertained from the Contractor on this account. No extension of time shall be granted and no claim what so ever, of any kind, shall be entertained from the Contractor on account of delay attributable to the selection/rejection of the Specialized Agencies.

1.13 SECURITY

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Any labour engaged by the contractor shall be in possession of photo ID card failing which they are liable to be disengaged from the work and shall not be allowed to enter into the campus.

In case of any nuisance caused by activities attributed to contractors staff, workmen and movement of vehicle, and reported to CPWD by client (an officer of the rank not lower than EE) commensurate penalty not exceeding Rs. 5000/- for each nuisance shall be imposed on the contractor by CPWD in consultation with client.

1.14 SAFETY PRACTICES

No Entry/exit/roads other than specified by the **Engineer-in-charge** for purpose of construction activities will be allowed to be used for construction activity purposes or movement of trucks/lorries/load-carriers and nothing extra/ delay whatsoever will be accounted for on this part.

In the event of any restrictions being imposed by the Client, Security, CPWD, Traffic police or any other authority having jurisdiction in the area on the working or movement of labour /material, the contractor shall strictly follow such restrictions and nothing extra shall be payable to the contractor on this account.

WARNING/ CAUTION BOARDS: A protective temporary Barricades minimum 2.0 Mtr height shall be erected by the contractor in the site for safeguard of the student and school staffs from the construction activities at his own cost and same shall be removed after execution of the work. A display board may be erected during the day time by the Contractor, All temporary warning / caution boards / glow signage display such as "Construction Work in Progress", "Keep Away", "No Parking", Diversions & protective Barricades etc. shall be provided and displayed during day time by the Contractor, wherever required and as directed by the Engineer-in-Charge. These glow signage and red lights shall be suitably illuminated during night also. The Contractor shall be solely responsible for damage and accident caused, if any, due to negligence on his part. Also he shall ensure that no hindrance, as far as possible, is caused to general traffic during execution of the work. This signage shall be dismantled & taken away by the Contractor after the completion of work, only after approval of the Engineer-in-Charge. Nothing extra shall be payable on this account.

SIGN BOARDS: The contractor shall provide and erect a display board of size and shape as required and paint over it, in a legible and workman like manner, the details about the salient features of the project, as required by the Engineer-in-Charge. The Contractor shall fabricate and put up a sign board in an approved location and to an approved design indicating name of the project, client / owner, architects, structural consultants, Department, salient features of project etc. besides providing space for names of other Contractors, Sub-Contractors and specialized agencies.

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

No inflammable materials including P.O.L shall be allowed to be stored in huge quantity at site. Only limited quantity of P.O.L may be allowed to be stored at site subject to the compliance of all rules / instructions issued by the relevant authorities and as per the

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direction of Engineer-in-Charge in this regard. Also all precautions and safety measures shall be taken by the contractor for safe handling of the P.O.L products stored at site. All consequences on account of unsafe handling of P.O.L shall be borne by the Contractor.

The contractor shall comply with the safety procedures, norms and guidelines (as applicable) as outlined in the “Constructional practices and safety- 2005”, National Building code of India, Bureau of Indian Standards. A copy of all pertinent regulations and notices concerning accidents, injury and first-aid shall be prominently exhibited at the work site. Depending upon the scope & nature of work, a person qualified in first-aid shall be available at work site to render and direct first-aid to casualties. A telephone may be provided to first-aid assistant with telephone numbers of the hospitals displayed. Complete reports of all accidents and action taken thereon shall be forwarded to the competent authorities.

The contractor shall ensure the following activities for construction workers safety, among other measures:

- Guarding all parts of dangerous machinery.

- Precautionary signs for working on machinery

- Maintaining hoists and lifts, lifting machines, chains, ropes, and other lifting tackles in good condition.

- Durable and reusable formwork systems to replace timber formwork and ensure that formwork where used is properly maintained.

- Ensuring that walking surfaces or boards at height are of sound construction and are provided with safety rails or belts.

- Provide protective equipment; helmets etc.

- Provide measures to prevent fires. Fire extinguishers and buckets of sand to be provided in the fire-prone area and elsewhere.

- Provide sufficient and suitable light for working during night time.

1.15 PREVENTION OF NUISANCE AND POLLUTION CONTROL

The contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupiers of adjacent properties and to the public in general and to prevent any damage to such properties from pollutants like smoke, dust, noise. The contractor shall use such methodology and equipment so as to cause minimum environmental pollution of any kind during and minimum hindrance to road users and to occupants of the adjacent properties or other services running adjacent/near vicinity. The contractor shall make good at his cost and to the satisfaction of the Engineer-in-Charge, any damage to roads, paths, cross drainage works or public or private property whatsoever caused due to the execution of the work or by traffic brought thereon by the contractor. All waste or superfluous materials shall be carried away by the contractor, without any reservation, entirely to the satisfaction of the Engineer-in-Charge.

1.16 PROTECTION OF FLORA

The contractor will take reasonable precautions to prevent his workman and employees from removing and damaging any flora (plant/vegetation) from the project area.

1.17 General Cleanliness of site:

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The contractor shall provide for adequate number of garbage bins around the construction site and the workers facilities and will be responsible for the proper utilization of these bins for any solid waste generated during the construction. The contractor shall ensure that the site and the workers facilities are kept litter free. Separate bins should be provided for wet and dry waste and labeled in both Hindi and English with suitable symbols.

Contractor should spray curing water on concrete structure and shall not allow free flow of water. Concrete structures should be kept covered with thick cloth/gunny bags and water should be sprayed on them. Contractor shall do water ponding on all sunken slabs using cement and sand mortar. Use of curing compound as per approval of engineer-in-charge in areas where wet water curing not feasible shall be permissible and nothing extra shall be paid for the same.

The Contractor shall remove from site all rubbish and debris generated by the works and keep works clean and tidy throughout the Contract Period. All the serviceable and non-serviceable (malba) material shall be segregated and stored separately. Construction waste, malba and other rubbish generated out of execution of work by contractor, shall be disposed of as directed by Engineer in Charge for which no extra payment shall be made to contractor.

The contractor shall not stack building material / malba/ muck on the land or road of the local development authority or on the land owned by the others, as the case may be. So the muck, rubbish etc. shall be removed periodically as directed by the Engineer-in-Charge, from the site of work to the approved dumping grounds as per the local byelaws and regulations of the concerned authorities and all necessary permissions in this regard from the local bodies shall be obtained by the contractor. Nothing extra shall be payable on this account. In case, the contractor is found stacking the building material/ malba as stated above, the contractor shall be liable to pay the stacking charges/ penalty as may be levied by the local body or any other authority and also to face penal action as per the rules, regulations and bye-laws of such body or authority. The Engineer-in-Charge shall be at liberty to recover, such sums due but not paid to the concerned authorities on the above counts, from any sums due to the contractor including amount of the Security Deposit and performance guarantee in respect of this contract agreement.

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

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

1.18 PRESERVATION AND CONSERVATION MEASURES

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

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shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.

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

Excavated earth shall be property of client and shall not be disposed off without approval of Engineer in charge. Any legal or financial implications resulting out of disposal of earth shall be sole responsibility of the contractor.

1.19 Conditions of National Green Tribunal

The Contractor shall not store/ dump construction material or debris on the metaled 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 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.

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 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 enroute their destination, the dust, sand or any other particles are not released in air/contaminate air.

The Contractor shall provide mask to every working on the construction site and involving in loading, unloading and carriage of construction material and construction debris to prevent inhalation of dust particles.

The Contractor shall compulsory use of wet jet in grinding 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 set 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 Kmph. Speed bumps shall be used to ensure speed reduction. In case where reduction speed cannot effectively reduce fugitive dust, the Contractor shall divert traffic to nearby paved areas.

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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.

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. This shall be in addition to provision of barricading. Nothing extra shall be payable on this account.

Any violation of orders of MoEF including guidelines of State Government, SPCB or any officer of any department shall lead to stoppage of work for which Contractor shall be responsible and no hindrance shall be accounted in this regard.

The contractor shall ensure that no construction leachate (e.g. cement slurry etc.), is allowed to percolate into the ground. Adequate precautions are to be taken to safeguard against this including, reduction of wasteful curing processes, collection, basic filtering and reuse. The contractor shall follow requisite measures for collecting drainage water run-off from construction areas and material storage sites and diverting water flow away from such polluted areas. Temporary drainage channels, perimeter dike/swale, etc. shall be constructed to carry the pollutant-laden water directly to the treatment device or facility (municipal sewer line)

1.20 Responsibility during Extreme Weather/Site Conditions:

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

In case of flooding of site on account of rain or any other cause and any consequent damage, whatsoever, no claim financially or otherwise shall be entertained notwithstanding any other provisions elsewhere in the contract agreement. Also, the Contractor shall make good, at his own cost, the damages caused, if any. Further, no claims for hindrance shall be entertained on this account.

The contractor shall be fully responsible for any damage to the work for which the payment has been advanced to him under the contract and he shall make good the same at his risk and cost. The contractor shall be fully responsible for safety and security of his labour, material, T&P, Machinery brought to the site by him.

1.21 SETTING OUT

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

The contractor shall establish, maintain and assume responsibility for grades, lines, levels and benchmarks. He shall report any errors or inconsistencies regarding grades, lines, levels, dimensions etc. to the Engineer-in-Charge before commencing work.

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Commencement of work shall be regarded as the Contractor's acceptance of such grades, lines, levels, and dimensions and no claim shall be entertained at a later date for any errors found.

If at any time, any error appears due to grades, lines, levels and benchmarks during the progress of the work, the contractor shall, at his own expense rectify such error, if so required, to the satisfaction of the Engineer-in-Charge. Nothing extra shall be payable on this account.

Though the site levels are indicated in the drawings the contractor shall ascertain and confirm the site levels with respect to benchmark from the concerned authorities. The contractor shall protect and maintain temporary/permanent benchmarks at the site of work throughout the execution of work. These benchmarks shall be got checked by the Engineer-in-Charge or his authorized representatives. The work at different stages shall be checked with reference to bench marks maintained for the said purpose. Nothing extra shall be payable on this account.

The approval by the Engineer-in-Charge, of the setting out by the contractor, shall not relieve the contractor of any of his responsibilities and obligation to rectify the errors/defects, if any, which may be found at any stage during the progress of the work or after the completion of the work.

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

Contractor(s) shall provide permanent bench marks, flag tops and other reference points for the proper execution of work and these shall be preserved till the end of the work. All such reference points shall be in relation to the levels and locations, given in the Good for Construction drawings.

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

1.22 RECESS, HOLES, OPENINGS, JOINTS ETC

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 plates, clamps etc. shall be payable separately by the department unless otherwise specifically mentioned and the contractor shall fix the same at the time of casting of concrete, stone work & brick work or at any similar location if required, and nothing extra shall be payable on this account.

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Chases, holes, etc shall be done using power operated tools.

Nothing extra shall be paid for core cutting & sealing of joint with approved material (non-shrink grout) for taking out of sanitary/ water supply/ fire-fighting cables, pipes etc. if any,

The construction joints shall be provided in predetermined locations only as decided by Engineer-in-charge. The cost of shuttering for these construction joints shall be included in item of Concrete work / RCC work and nothing extra shall be payable on this account to the contractor

Any cement slurry / epoxy based bonding agent such as Nitobond or equivalent etc. added over base surface for continuation of concreting for better bond is deemed to have been in-built in the items and nothing extra shall be payable.

1.23 SCAFFOLDING / SHUTTERING

Wherever required for the execution of work, all the scaffolding shall be provided and suitably fixed by the contractor. It shall be provided strictly with steel double scaffolding system, suitably braced for stability, with all the accessories, gangways, etc. with adjustable suitable working platforms to access the areas with ease for working and inspection. It shall be designed to take all incidental loads. It should cater to the safety features for workmen. Nothing extra shall be payable on this account. It shall be ensured that no damage is caused to any structure due to the scaffolding.

Only steel shuttering, unless otherwise specified, with suitably designed steel frame supporting system is to be used in the work. The contractor shall ensure that there shall be no leakage at formwork joints and there shall be no movement at joints or bending of the formwork under pressure of the concrete. Nothing extra shall be paid on this account.

1.24 PRODUCT DELIVERY, STORAGE AND HANDLING OF CHEMICALS

The contractor shall construct storage space for Chemicals materials to ensure that the storage conditions are as recommended by the manufactures.

All the materials shall be procured and delivered in sealed containers with labels legible and intact.

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All the chemicals {polymers, epoxy, water proofing compound, plasticizer, Polysulphide, SBR based elastomeric, APP (Atactic Polypropylene Polymer), all exterior and interior paints, polish etc.) shall be procured in convenient packs say 20 liters/Kgs.} Capacity packing only or as approved by the Engineer-in-Charge, and not in bigger capacity containers, say 200liter (Kgs.) drums unless otherwise specifically permitted by the Engineer-in-Charge. One sample from each lot of the chemical procured by the contractor shall be tested in a laboratory as approved by the Engineer-in-charge

All material required for the execution of the work shall be got approved, procured and deposited with the Departmental supervisory staff. The materials shall be kept in joint custody of the contractor and the Department. The watch and ward of such material shall, however, remain to be the responsibility of the contractor and no claim, whatsoever, on this account shall be entertained. Different containers of each chemical shall be serially numbered on packing and also consumed in that order. Day-to-Day account of receipt, issue and balance shall be regulated by the Department and proper account shall be maintained at site of work in the prescribed form as per the standard practice.

All the chemicals shall be procured by the contractor directly from the manufacturer or the authorized dealers of the manufacturers.

The original copies of challan/cash memos towards the quantity of various chemicals procured shall be made available by the contractor at the request from the Engineer-in- Charge and a copy of the same shall be kept in record.

The Name of manufacturers, manufacturer's product identification, and manufacturer's mixing instructions, warning for handling and toxicity and date of manufacturing and shelf life shall be clearly and legibly mentioned on the labels of each container.

The contractor shall submit for the chemicals procured, manufacturer's and / or authorized dealer's certificate regarding supplying and verifying conformance to the material specifications, as specified.

All filled containers shall be handled in safe manner and in a way to avoid breaking container seals.

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Empty containers of the chemicals should not be removed from site till the completion of work and shall be removed only with the approval of the Engineer-in-Charge.

All arrangements for measuring, dosing and mixing of material / chemicals at site have to be made by the contractor.

Contractor shall suitably advise his site Engineer and all the workers as regards safe handling of chemicals. Necessary protective and safety equipments in form of hand gloves, goggles etc. shall be provided by the contractor and be also used at site.

All incidental charges of any kind including cartage, storage and wastage and safe custody of material etc. shall be borne by the contractor and no claim, whatsoever, shall be entertained on this account.

1.25 Other Conditions w.r.t Execution of work:

The work shall be carried out in accordance with the architectural drawings and structural drawings, to be issued from time to time, by the Engineer-in-Charge. Before commencement of any item of work the contractor shall correlate all the relevant architectural and structural drawings, nomenclature of items and specifications etc. issued for the work and satisfy himself that the information available there from is complete and unambiguous. The figure and written dimension of the drawings shall be superseding the measurement by scale. The discrepancy, if any, shall be brought to the notice of the Engineer-in-charge before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and/ or incomplete information and no claim for such work shall be entertained. The work shall be carried out in accordance with the Good for Construction Architectural, Civil and Electrical drawings as issued by the Engineer-in-Charge.

Before commencement of any item of work the Contractor shall correlate all the relevant architectural, civil and electrical drawings, BOQ items and specifications etc. and satisfy itself that the information available is complete and unambiguous. The Contractor alone shall be responsible for any loss or damage occurring by the commencement and execution of

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work based on any erroneous and or incomplete information and no claim whatsoever shall be entertained on this account.

The execution of items shall be carried out in accordance to relevant CPWD specifications (amended upto date of receipt of tenders). For the items which are not covered under CPWD Specifications, the Particular Specifications / B.I.S. Specifications shall have to be followed. The decision of Engineer-in-Charge shall be final in this regard.

Wherever any reference is made to any Indian Standard, it shall be taken as reference to the latest edition with all amendments / revision issued thereto upto the date of receipt of tenders.

The contractor is required to deploy resources as per availability of site. However no claim will be entertained for idle labour, idle machinery, idle technical/no-technical staff, idle T&P etc.

The Contractor shall procure the required materials in advance so that there is sufficient time to testing of the materials and clearance of the same before use in the work. The Contractor shall provide at his own cost suitable weighing and measuring arrangements at site for checking the weight / dimensions as may be necessary for execution of work.

The terms machine batched, machine mixed and machine vibrated concrete used elsewhere in agreement shall mean the concrete produced in concrete batching and mixing plant and if necessary transported by transit concrete mixers, placed in position by the concrete pumps, tower crane and vibrated by surface vibrator /needle vibrator / plate vibrator, as the case may be to achieve required strength and durability.

PPC Cement shall be used in the work unless there is any reason requiring use of OPC as per approval of Engineer-in-charge.

Under Special circumstances, contractor can be allowed to procure concrete from RMC plant approved by engineer-in-charge. However, nothing extra shall be payable to the contractor for procurement of concrete from RMC plant except rates payable for batch mixed concrete.

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The work of services will be executed simultaneously. The Contractor shall minimize the scope of making recesses, holes, opening etc. as the same shall be planned in advance and necessary grooves/niches shall be provided in shuttering of RCC.

The Contractor shall conduct his 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 simultaneously working 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.

Laminates on flush doors shall be machine pressed, preferably in factory. The design and pattern of laminates shall be as per the approval of engineer in charge. The UPVC door-windows, Aluminium door-windows-framework, MS Door frames section shall be factory made.

1.26 RATES

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

The rates quoted by the tenderer shall be firm and inclusive of all taxes, stamp duty and levies including GST. Taxes shall be deducted at source as per statutory orders and Govt. rules and regulation, from bill payments to the contractor by Engineer-in-charge.

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No foreign exchange shall be made available by the Department for importing (purchase) of equipment, plants, machinery, materials of any kind or any other items required to be carried out during execution of the work. No delay and no claim of any kind shall be entertained from the Contractor, on account of variation in the foreign exchange rate.

All ancillary and incidental facilities required for execution of work like labour camp, stores, fabrication yard, offices for Contractor, watch and ward, temporary, temporary structure for plants and machineries, water storage tanks, installation and consumption charges of temporary electricity, telephone, water etc. required for execution of the work, protection works, testing facilities / laboratory at site of work, facilities for all field tests and for taking samples etc. during execution or any other activity which is necessary (for execution of work and as directed by Engineer-in-Charge), shall be deemed to be included in rates quoted by the Contractor, for various items in the schedule of quantities. Nothing extra shall be payable on these accounts. Before start of the work, the Contractor shall submit to the Engineer-in-Charge, a site / construction yard layout, specifying areas for construction, site office, positioning of machinery, material yard, cement and other storage, steel fabrication yard, site laboratory, water tank, etc.

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

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

Nothing extra shall be payable to the contractor for compliance of various additional conditions, special conditions, general terms & conditions, additional /general specifications, etc. as prescribed in bid document except specifically stated therein, on and above the quoted rate(s) of various items of schedule of quantities (civil as well as electrical work) of the bid document.

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Any where in the bid document / NIT, BOQ, SCHEDULE OF WORK shall mean Schedule of Quantities.

1.27 ROYALTY: Contractor shall comply with all statutory rules and regulations w.r.t royalty and other levies and taxes. Royalty at the prevalent rates shall be paid by the contractor or his associate supplier as per Government rules, on all materials such as boulders, metals, all sizes stone aggregates, brick aggregates, coarse and fine aggregates, moorum, river sand, gravels and bajri etc. collected by him for the execution of the work, directly to the revenue authority of the state government concerned. Further, contractor needs to submit proof of submission of full royalty to the state government or local authority. Nothing extra shall be payable on this account.

1.28 ALL HEIGHTS, LIFTS, LEADS AND DEPTHS

Unless otherwise provided in the Schedule of quantities or in CPWD Specifications or in the tender document, 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.

~~**1.29 Site office establishment:** In order to ensure smooth, timely and proper management of work by department's project team under the Engineer in charge, the contractor shall provide following arrangements at project site, for the entire duration of the contract agreement i/c extension, if any. Nothing extra shall be paid to the contractor for providing these arrangements at site:~~

~~For site related works by the Engineer in charge and his project team, Contractor shall provide (Prefabricated/built up) site office of minimum 25 sqm area, with office furniture, all civil & electrical fittings & fixtures i/c AC and one latest version computer with printer. The site office shall have a CPWD engineers room, support staff office room, toilet, pantry, store etc. The electricity and day today operation i/c cleaning, sweeping, security etc. all shall be within the scope of the Contractor. Nothing extra shall be paid for the same.~~

1.30 SUBMISSION AND DOCUMENTATION

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

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The contractor shall make available three (03) sets of completed Building Drawings, “As Built Drawings” along with literatures, manuals, warranty certificates etc. of various installed fittings, fixtures and equipment for the completed projects. This shall be the prerequisite for payment of final bill.

The contractor shall make available three (03) sets of all drawings of internal and external services i.e. Water Supply, Sanitary line and Drainage lines. This shall be the prerequisite for payment of final bill. These drawings shall have the following information:

- (a) For all piping, their diameters including soil, waste pipes and vertical stacks.
- (b) Ground and invert level of all drainage pipes together with locations of all manholes and connections, up to outfall.
- (c) For all water supply lines, diameter of pipes, location of control valves, access panels etc.

The contractor will submit computerized measurement sheet for the work carried out by him for making payment as per Clause-6 of the CPWD General Conditions of Contract 2023 for Construction Work(with correction slips upto last date of submission of tender). For casting of RCC members and other hidden items the corrected and duly test checked measurement sheets of reinforcement or that of other hidden items shall be deposited with Engineer in charge or his authorized representative, before casting of RCC or other hidden items. The delay in submission of corrected and duly checked measurement sheet may, therefore, delay casting of RCC or execution of hidden item for which no hindrance shall be recorded.

To avoid delay, contractor should submit all samples well in advance so as to give timely orders for procurement.

1.31 TEMPORARY WATER/ ELECTRICITY/ TELEPHONE CONNECTION

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

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

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

1.32 Shop Drawings:

The contractor shall submit the shop drawings of UPVC/ Aluminium / MS doors, windows, louvers cladding and other joinery work, based on architectural drawings to Engineer-in-charge for his approval. The drawings shall show full size sections of door, window etc. thickness of metal (i.e. wall thickness) details of construction, sub frame / rough ground profile anchoring details, hardware as well as connection of windows doors, and other metal work to adjacent work. Samples of all joint sand methods of fastening and joining shall be submitted to the Engineer-in-Charge for approval 30 days in advance of commencing the work.

1.33 Other Conditions w.r.t Payment of Bills to Contractor:

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

In the case of items of which abbreviated nomenclature is not available in the above cited publication and also in case of extra and substituted items of works for which abbreviated nomenclature is not provided in the agreement, the full nomenclature of items shall be reproduced in the measurements books and bill forms for running account bill.

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All running account bills preferred by the contractor for advance payments shall be processed only if Engineer-in-charge is satisfied that upto date investments (excluding security deposit & performance guarantee, which are not considered as investments) made by the contractor against contracted work are more than the payments received. Accordingly, all running account bills shall be supported with an account of up-to-date payments received vis-a-vis upto date investments made on the work to enable engineer-in-charge to check to his satisfaction that the payments made by engineer-in-charge are properly utilized only on the work and nowhere else.

Contractor should hand over the warranty of all the specialized items and non-specialized items, if any such warranty provided by manufacturer, which have been installed in the constructed building to the department.

Contractor shall give performance test of the water supply, sanitary, sewer and electrical installation(s) as per the specifications in the presence of the Engineer-in-charge or his authorized representative before the work is finally accepted and nothing extra whatsoever shall be payable to the Contractor for the test.

Contractor shall not divert any RA bill payments and advance payments or part thereof for any work other than that needed for completion of the contracted work. All advance payments received as per terms of the contract (i.e. mobilization advance, secured advance against materials brought at site, secured advance against plant & machinery and/or for work done during interim stages, etc) are required to be re-invested in the contracted work to ensure advance availability of resources in terms of materials, labour, plant & machinery needed for required pace of progress for timely completion of work.

The contractor shall have to execute guarantee bonds in respect of water supply and sanitary installation works, Sewerage Treatment plant work, UPVC Window work and water proofing works as per proforma annexed in this bid document.

1. GUARANTEE BONDS FOR VARIOUS ITEMS :

The contractor shall be duly responsible for and shall guarantee proper design and performance of the following items for a period of 10 years from the date of completion of the work:-

1.	Internal water supply and Internal sanitary installations except sanitary fittings.	
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2. **DEFECT LIABILITY:**

The defect liability period of works shall be one year and shall be reckoned from the date on which the buildings are physically handed over to user department after the date of physical completion, whichever is later. The contractor's liability during the defect liability period from the final date of completion as per clause 17 / actual date of physically handed over the building shall be limited to rectification of defects including replacement as follows which in the opinion of Engineer-in-charge are not man made.

S.No.	Description		Defect Liability
(i)	Anti termite treatment.	(a)	Termites found if any till guarantee period to be rectified.
(ii)	Concrete	(a)	Rectification of structural/ superficial/ non-structural cracks.
		(b)	Rectification of dampness / seepage in roof slab/junctions & sunken portion.
		(c)	Rectification of cracks in beam, shade, column.
(iii)	Brick work / Stone Masonry	(a)	Rectification of cracks in panel wall /portion
		(b)	Cracks/ settlement of dwarf walls.
		(c)	Rectification of efflorescence/leaching
(iv)	Joinery	(a)	Replacement of warped joinery
		(b)	Cracks in panels, rails/ styles etc.
(v)	Builders Hardware	(a)	Repairs/Replacement of loosened / pre-mature failure of fittings
		(b)	Tightening / Replacement of saging mosquito proofing
(vi)	Steel & Ironwork	(a)	Rectification/Replacement of defective part of rolling shutter
		(b)	Redoing of defective portion in fabrication /welding including painting
		(c)	Steel windows, grills, gates etc.–defects to be rectified.
(vii)	Roof treatment	(a)	Rectification of leakage/seepage of roof slab including covering at junction till guarantee period
(viii)	Plastering	(a)	Rectification of structural/superficial cracks if any
		(b)	Rectification of protruding/peeling off plaster if any
		(c)	Rectification of efflorescence
(ix)	Flooring	(a)	Rectification of sinking portion of plinth protection including saucer drain
		(b)	Settlement of foundation & floors, Hollow sounding, cracks in tiles /stones
(x)	Plumbing /Sanitary	(a)	Making Good of Leakage through Soil/WastePipeJoints/

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			Floor traps/ Sanitary Pipes/ WastePipe
		(b)	Replacement of Looking Mirror If Found Wavy
		(c)	Rectification of Leakage of Over Head Tanks
		(d)	Leakage / seepage of sunken floor, blockage of taps/ pipes, non-functioning of cistern
		(e)	Any leakage noticed from embedded pipes
		(f)	Any defects due to workmanship resulting in water pooling on the floor/ negative slope/ non-draining of bathroom floors, balconies, staircase landings, sills etc.
(xi)	Finishes	(a)	Making good of defective/dissimilar patches of painting to match with remaining surfaces,peeling of paint
(xii)	Internal WaterSupply	(a)	Repairs/ Replacement of defective taps/fittings
		(b)	Repair to leakage of GI water pipe lines including joints
		(c)	Removal of blockage of GI pipelines
(xiii)	Roads	(a)	Repair of sunk portion of road & potholes, if any
(xiv)	Sewage	(a)	Rectification of slope/system if found defective during use
		(b)	Rectification of major blockage in Sewerlines
		(c)	Cracks & settlement of sewagelines
(xv)	Drains	(a)	Repair to Drains
		(b)	Regarding defects due to settlement of Drains
(xvi)	External WaterSupply	(a)	Repairs to installations &fittings
(xvii)	General	(a)	All manufacturing defects of structures/fixtures/fittings/ equipments other than listed above including any defects of shrinkage or other faults that appear in the work within twelve months after a certificate of its completion is given by the Engineer-in-charge shall be rectified by the contractor.

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ADDITIONAL SPECIFICATIONS

1.0 Cement

Agency shall procure 43 Grade OPC conforming to IS: 8112 / PPC conforming to IS : 1489 (Part 1) as required in the work from cement manufacturers mentioned in the list of Preferred makes for civil works or from any other reputed cement manufacturer having a production capacity not less than 1 million tons per annum as approved by SDG for the region. Uses of GGBS /Fly ash with OPC is permitted.

- 1.2 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. Supply of cement shall be taken in 50-kg bags bearing manufacturer's name, or his registered trademarks if any and grade and type of cement as well as ISI marking. The packing of the cement bags shall be as per CPWD specifications 2019.
- 1.3 The cement shall be brought at site in bulk supply of approximately 50 tons or more as decided by the Engineer-in-charge. For each grade / type, cement bags shall be stored in two separate godowns, one for tested cement and the other for fresh cement (under testing) constructed by the contractor at site of work as per sketch shown in General Conditions of Contract 2023 for Construction Work with weather proof roofs and walls, for which no extra payment shall be made. The size of the cement godown is indicated in the sketch for guidance only. The actual size of godown shall be as per site requirements and as per the direction of the Engineer in charge and nothing extra shall be paid for the same. The decision of the Engineer-in-charge regarding the capacity required/needed will be final. However, the capacity of each godown shall not be less than 100 tonnes. Each godown shall be provided with a single door with two locks. The keys of one lock shall remain with CPWD Engineer-in-charge or his authorized representative and that of other lock with the contractor at the site of work so that the cement is issued from godown according to the daily requirement with the knowledge of both the parties. The account of daily receipt and issue of cement shall be maintained in a register in the prescribed Proforma and signed daily by the contractor or his authorized agent in token of its correctness.
- 1.4 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 authorised representative and the keys of other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of cement godown. The contractor shall facilitate the inspection of cement godown by the Engineer-in-charge at any time.
- 1.5 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.
- 1.6 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

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

- 1.7 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.
- 1.8 The damaged cement shall be removed from the site immediately by the Contractor on receipt of a notice in writing from the Engineer-in-charge. If he does not do so within 3 days of receipt of such notice, the Engineer-in-charge shall get it removed at the cost of the Contractor.

Steel Reinforcement Bars

The CPWD/Contractor shall/procure IS marked TMT bars of various grades from

(1) The Steel Manufacturers such as SAIL, TATA steel Ltd., RINL, Jindal Steel & Power Ltd, JSW steel Ltd. or their authorized dealers having valid BIS licence for IS: 1786-2008 (Amendment-3 March 2017)

- (2) (a) The steel manufacturers or their authorized dealers (as per following selection criteria) having valid BIS licence for IS:1786- 2008 (Amendment-1 November 2012).

- 2.2 The procured steel should have following qualities:-

Excellent ductility, bend ability and elongation of finished product due to possible refining technology.

Consumption of steel should be accurate as per design.

Steel should have no brittleness problem in finished product.

Steel should carry the quality of corrosion and earthquake resistance.

Quality steel with achievement of proper level of Sulphur and phosphorus as per IS:1786-2008.

2.3 Selection Criteria of steel manufacturers

- (1) The supply of reinforcement steel for all CPWD works should have following selection criteria of steel manufacturers:-

Steel producers of any capacity using iron ore/ processed iron ore as the basic raw material adopting advanced refining technologies as given under,

- (i) DRI-EAF= Direct Reduced iron - Electric arc furnace.

or

- (ii) BF-BOF= Blast furnace - Basic oxygen furnace

or

- (iii) COREX-BOF= COREX- Basic oxygen furnace

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

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

- 2.5 Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the

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steel arranged by the contractor does not conform to the specifications, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time or written orders from the Engineer-in-Charge to do so.

- 2.6 The steel reinforcement bars shall be brought to the site in bulk supply of 10 tonnes or more, or as decided by the Engineer-in-charge. The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent their distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking. For checking nominal mass, tensile strength, bend test, re-bend test etc. specimens of sufficient length shall be cut from each size of the bar at random, and at frequency not less than that specified below:

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

- 2.7 The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. **The cost of testing of steel reinforcement shall be borne by the contractor.**
- 2.8 The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations, recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to be made.
- 2.9 The Steel brought to site and remaining unused shall not be removed from site without the written permission of Engineer-in-Charge.
- 2.10 Reinforcement including authorized spacer bars and laps shall be measured in length for different diameters as actually (not more than as specified in the drawings) used in the work nearest to a centimeter. Wastage and unauthorized overlaps shall not be measured.
- 2.11 The standard sectional weights referred to shall be as in Table 5.4 in para 5.3.4 in revised CPWD specifications 2019 Vol. I will be considered for conversion of length of various sizes of TMT bars in to standard weight.
- 2.12 Record of actual sectional weights shall also be kept dia wise and lot wise. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site. The decision of the Engineer in Charge shall be final for the procedure to be followed for determining the average sectional weight of each lot. Quantity of each diameter of steel received at site of work each day will constitute one

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single lot for the purpose. The weight of steel by conversion of length of various sizes of bars based on the actual weighted average sectional weight shall be termed as Derived Actual Weight.

- 2.13 If the derived weight is less than the standard weight, then the Derived Actual Weight shall be taken for payment.
- 2.14 If the derived actual weight is found more than the standard weight, than standard weight as worked out as per para above shall be taken for payment. Nothing shall be paid extra for the difference in Derived/ Actual Weight and standard weight.
- 2.15 Every care should be taken to avoid mixing different types of grades of bars in the same structural members as main reinforcement to satisfy relevant clause of IS: 456. In case of buildings, wherever the situation necessitates, the changeover shall be permitted only from any one level onwards. In case of foundations, all foundation elements (footings and grade beams) shall have the same kind of steel. In the case of columns, all structural elements up to the level of change, where the changeover is taking place should have the same kind of steel as those in columns.
- 2.16 The reinforcing steel brought to site of work shall be stored on brick / timber platform of 30/40-cm height, nothing extra shall be paid on this account. The contractor shall have to obtain and furnish manufacturer test certificates to the Engineer-in-charge in respect of steel brought by him to the site of work.
- 2.17 **Special condition for structural steel (Tee, Angle, Channel, Structural Tubes and plates & R.S. Joist)**
- 2.18 The contractor shall procure Structural steel (Tee, Angle, Channel, Structural Tubes and plates & R.S. joist) from primary producers (SAIL, Tata Steel Ltd, RINL, Jindal Steel & Power Ltd. and JSW steel Ltd.).

In case of non-availability of structural steel from primary producers the NIT approving authority may permit use of structural steel procured from steel producers having valid BIS licence confirming to IS -2062-2006
- 2.19 Samples shall be taken and got tested by the Engineer-in-charge confirming to relevant BIS code. In case the test results indicate that the structural steel arranged by the contractor does not conform to the specification, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week's time or written orders from the Engineer-in-charge to do so.
- 2.20 The structural steel shall be stored by the contractor at site of work in such a way as to prevent their distortion and corrosion, and nothing extra shall be paid on this account.
- 2.21 The contractor shall supply free of charge the structural steel sample required for testing including its transportation to testing laboratories . The cost of test shall be borne by the department if it confirm to relevant BIS code else the testing charges shall be borne by the contractor.
- 2.22 The steel brought to site and the steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.
- 2.23 If the actual weight of structural steel to be used in the work differs from standard weight, the following procedure shall be followed for arriving at the quantity for payment.

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

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

3.0 Design Mix Reinforced Cement Concrete from Batch Mix Plant or RMC.

- 3.1 Design mix is to be carried out as per IS 10262, IS 456 and other relevant IS codes / CPWD Specifications amended upto last date of bid submission.
- 3.2 The Contractor shall install fully automatic Batch Mix Plant at site or in nearby area wherever permissible. If required, Contractor will arrange concrete from RMC (Ready Mix Concrete) producing plants (located within 50 km distance from the site of work) with prior approval from Engineer-in-charge. Nothing extra shall be payable for sourcing concrete from RMC plant.
- 3.2.1 For all purposes, the Contractor shall carry out fully, the responsibilities of the “placement Contractor” and the “manufacturer of concrete”.
- 3.3 The Engineer-in-Charge will reserve the right to inspect at any stage and reject the concrete if he is not satisfied about quality of product at the user’s end.
- 3.4 The Engineer-in-charge reserves the right to exercise control over the: -
- 3.4.1 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 results and declaring the materials fit or unfit for use in production of mix.
- 3.4.2 Calibration check of the RMC /Fully Automatic Batching plant.
- 3.4.3 Weight and quantity check on the ingredients, water and admixtures added for batch mixing.
- 3.4.4 Time of mixing of concrete.
- 3.4.5 Testing of fresh concrete, recordings of results and declaring the mix fit or unfit for use. This will include continuous control on the workability during production and taking corrective action, if required.
- 3.5 For exercising such control, the Engineer-in-charge shall periodically depute his authorized representative at the RMC/Fully automatic batching plant. It shall be responsibility of the Contractor to ensure that all necessary equipment, manpower & facilities are made available to Engineer-in-Charge and/or his authorised representative at RMC/Fully automatic batching plant.
- 3.6 All required relevant records of produced and used concrete shall be made available to the Engineer-in-Charge or his authorised representative. Engineer-in-Charge shall, as required, 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. Only concrete as approved in design mix by Engineer-in-Charge shall be produced and transported to the site.
- 3.7 The concrete mix design with admixture will be carried out by the Contractor, at his own cost, through one of the following laboratories/Test houses to be approved by Engineer-in-charge: -
- (i) IITs, NITs or any Govt. Engineering College or
- (ii) National Council for Cement & Building Materials, Ballabhgarh or
- (iii) CRRI, Delhi.
- 3.7.1 In the event of all the above laboratories being unable to carry out the requisite design/testing; the Contractor shall have to get the same done from any other reputed laboratory with prior approval of the Engineer-in-Charge.

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Note: Admixture/ Plasticizer to be used in concrete mix design shall be PCE (Poly Caboxyl Ether) based only and agency shall quote rates accordingly. Nothing extra shall be paid on this account.

- 3.8 The contractor shall submit the mix design report from any of above approved laboratories for approval of Engineer-in-Charge **within time given** as per the table of mile-stone(s).
- 3.9 In case of white Portland cement and the likely use of admixtures where CC/RCC is done with concrete pumps in concrete with ordinary Portland/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.
- 3.10 Each time when there is change of source or characteristic properties of the ingredients used in the concrete mix during the work, a revised mix design shall be done and approval obtained from the approved Laboratory or as per the direction of the Engineer-in-Charge. Preferably only single source of cement shall be kept for the work. In case contractor decides to use more than one source of approved cement brand then for each brand separate design mix shall be done and got approved by Engineer-in-charge.
- 3.11 The Mix shall be designed to produce the grade of concrete having required workability and characteristic strength not less than as specified.
- 3.12 The mix design for a specified grade of concrete shall be done for a target mean compressive strength $T_{ck} = F_{ck} + 1.65 S$

Where,

F_{ck} = Characteristic compressive strength at 28 days.

S= Standard deviation

The standard deviation for each grade of concrete shall be calculated separately.

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 follows:-

Grade of Concrete	For “Good” quality of control
M 20	4.0
M 25	4.0
M 30	5.0
M 35	5.0

- 3.13 Out 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 likely to be attained at 28 days. All cost of mix designing and testing connected therewith including charges payable to laboratory shall be borne by the Contractor.
- 3.14 The samples of cement, aggregate (fine & coarse) to be sent to the laboratories shall be sealed in the presence of the Engineer- in -Charge and shall have his signature and cost of packaging, sealing, transportation, loading, unloading, cost of samples and the testing charges for Mix design in all cases shall be borne by the contractor.
- 3.15 Notwithstanding the approval granted by Engineer-in-Charge in aforesaid manner, the contractor shall be fully responsible for quality of concrete including input control, transportation and placement etc.
- 3.16 The Engineer-in-Charge reserves the right to exercise control over the ingredients, water and admixtures, purchased, stored and to be used in the concrete including

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conducting of tests for checking quality of materials fit or unfit for use in production of mix.

- 3.17 The Contractor shall submit the test data of the material used for concrete mix-design in the laboratories, so the material being used at site can be compared with those data / size etc.
- 3.18 In case of change of parameters of ingredients (fine aggregate, cement, coarse aggregate) fresh concrete mix-design to be done as mentioned in above paras and got approved from the Engineer-in-Charge before execution.
- 3.19 The contractor shall make arrangement to install a mini laboratory at site for accelerated testing of design mix concrete as per IS : 9013. The department reserves right to take samples of design mix concrete from the mass production of the concrete for testing and compare with the laboratory's results.
- 3.20 Nothing shall be paid extra for installation and cost of batching plant and other arrangement for making necessary test of design mix concrete.
- 3.21 The item of design mix cement concrete shall be inclusive of all the ingredients including admixtures if required, labour, machinery T & P etc. (except shuttering which will be measured & paid for separately) required for a design mix concrete of required strength and workability. **The rate quoted by the agency shall be net & nothing extra shall be payable on account of change in quantities of concrete ingredients like aggregates and admixtures as per the approved mix design.**
- 3.22 Concrete shall be handled from the place of mixing to the place of final deposit / placement by methods, which prevent segregation, or loss of any ingredients and contamination.
- 3.23 Where concrete is conveyed by chutes, the chute shall be made of metal or fitted with metal lining. The approval of the Engineer-in-charge shall be obtained for the use of chutes in excess of 3 meters length and in such cases the concrete shall be remixed if so required by the Engineer-in-Charge or closed bottom buckets shall be used. If concrete is placed by pumping, the conduit shall be primed properly. Once pumping is started, it shall not be interrupted as far as possible. Concrete shall not be dropped into place from a height more than 1.5m.
- 3.24 Concreting of any portion of the work shall be done in presence of the representative of the Engineer-in-Charge and shall be done only after approval of the Engineer-in-Charge.
- 3.25 Concreting shall be carried out continuously between constructions joints shown on the drawings or as agreed by the Engineer-in-Charge. The contractor shall closely follow the sequence of concreting where it is specified in the drawings. If concreting is interrupted before reaching the predetermined joint an approved construction joint shall be provided. Construction joints shall be minimized as far as possible. These shall be set at right angles to the general direction of the member. The surface film of the first placed concrete should preferably be removed while the concrete is still green to expose the aggregate and leave a sound irregular surface. However, care shall be taken not to disturb the concrete already laid.
- 3.26 **Admixtures:** Wherever required, admixtures of approved quality only shall be mixed with concrete as specified. The admixtures shall conform to IS: 9103. The chloride content in the admixture shall satisfy the requirements of BS: 5075. The total amount

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of chlorides in the admixture mixed concrete shall also satisfy the requirements of IS 456-2000.

- 3.27 Use of ready mixed concrete (RMC) may also be permitted, with prior approval of Engineer –in – Charge, without any extra payment. Separate account of design mix concrete and RMC shall however be kept. The ready mixed concrete shall conform to the requirement of durability, workability and strength as laid down for design mix concrete.

3.28 **Use of Fly Ash and Fly Ash Blended Cements in RCC Structures:-**

General: IS: 456-2000 Code of Practice for plain and Reinforced Concrete (as amended up to date) shall be followed in regard to Concrete mix Proportion and its production as under :-

1. The concrete mix design shall be done as “Design Mix Concrete” as prescribed in clause – 9 of IS 456 mentioned above.
2. Concrete shall be manufactured in accordance with clause 10 of above mentioned IS : 456 covering quality assurance measures both technical and organizational, which shall also necessarily require a qualified Concrete Technologist to be available during manufacture of concrete for certification of quality of concrete.
3. Minimum M25 grade of concrete shall be used in all structural elements made with RCC both in load bearing and framed structure.
4. The mechanical properties such as modulus of elasticity, tensile strength, creep and shrinkage of flyash mixed concrete or concrete using flyash blended cements (PPCs) should not likely to be significantly different and their values are to be taken same as those used for concrete made with OPC. Fly ash when used in the production of concrete shall be strictly in conformity with IS : 3812 (Para 1 & 10).
5. To control higher rate of carbonation in early ages of concrete both in flyash admixed as well as PPC based concrete, water / binder ratio shall be kept as low as possible, which shall be closely monitored during concrete manufacture. If necessitated due to low water / binder ratio, required workability shall be achieved by use of chloride free chemical admixtures conforming to IS : 9103. The compatibility of chemical admixtures and super plasticizers with each set OPC, fly ash and / or PPC received from different sources shall be ensured by trials.
6. In environment subjected to aggressive chloride or sulphate attack in particular, use of flyash admixed or PPC based concrete is recommended. In cases, where structural concrete is exposed to excessive magnesium sulphate, flyash substitution / content shall be limited to 18% by weight. Special type of cement with low C3A content may also be alternatively used. Durability criteria like minimum binder content and maximum water / binder ratio also need to be given due consideration in such environment.
7. Wet curing period shall be enhanced to a minimum of 10 days or its equivalent. In hot and arid regions, the minimum curing period shall be 14 days or its equivalent.

3.29 **Use of Fly ash Admixed Cement Concrete (FACC) in RCC Structures:-**

There shall be no bar on use of FACC in RCC structures subject to following additional conditions:-

1. Flyash shall have its chemical characteristics and physical requirements etc. conforming to IS : 3812 (Part-10) and shall be duly certified.

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2. To ensure uniform blending of flyash with cement in conformity with IS: 456, a specific facility needs to be created at site with complete computerized automated process control to achieve design quality or with similar facility from Ready Mix concrete (RMC) plants.
3. As per IS: 1489 (Part-I), Maximum 35% of OPC by mass is permitted to be substituted with flyash conforming to IS : 3812 (Part-I) and same is reiterated.
4. Separate storage for dry flyash shall be provided. Storage bins or silos shall be weather proof and permit a free flow and efficient discharge of fly ash. The filter or dust control system provided in the bins or silos shall be of sufficient size to allow delivery of flyash maintained at specified pressure to prevent undue emission of flyash dust, which may interfere weighing accuracy.

5 Use of Fly Ash Blended Cements in Cement Concrete (PPCC) in RCC structures

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

- 6 Till the time, BIS makes it mandatory to print the %age of flyash on each bag of cement, the certificate from the PPC manufacturer indicating the same shall be insisted upon before allowing use of such cements in works.
- 7 While using PPC for structural concrete work, no further admixing of fly ash shall be permitted.

8 Conditions for Ready-mix concrete :-

The contractor can use concrete from RMC plants also with prior approval of the Engineer in-charge, instead of preparing the same in central batching plant at site within agreement item of Batch Mix Plant without any extra cost, looking to expedite the progress and need of work. However for procuring RMC from approved plant the contractor shall follow the following conditions. Nothing extra shall be payable to the contractor for procuring RMC from the external plant.

For procurement of ready mix concrete from approved RMC plants, the contractor shall, within a 15 days of award of the work, submit list of at least three RMC plant companies of repute along with details of transit mixer and pumps etc. to be deployed indicating name of owner/company, its location capacity, technical establishment, past experience and text of MOU proposed to be entered between purchaser (the contractor) and supplier (RMC Plant). The Engineer – in – Charge shall give approval in writing (subject to draw of MOU). The contractor shall draw the MOU with approved RMC plant owner / company and submit to Engineer – in – Charge within a week of such approval. The contractor will not be allowed to purchase ready mixed – concrete without completion of above stated formalities for use in this project. Notwithstanding the approval granted by Engineer-in-charge in aforesaid manner, the contractor shall be fully responsible for quality of concrete including input control, transportation and placement etc.

The Engineer-in-charge will reserve right to inspect at any such stage and reject the concrete if he is not satisfied about quality of product. The contractor should therefore draw MOU / agreement with RMC owner / company very carefully, keeping all terms and conditions / specifications forming a part of this tender document. Including the following controls.

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The Engineer-in-charge reserves the right to exercise control over the ingredients, water and admixtures purchased, stored and to be used in the concrete including conducting of tests for checking quality of Materials, recordings of test results and declaring the Materials fit or unfit for use in production of mix.

Calibration checks of the RMC.

Weight and quantity check on the ingredients, water and admixtures added for batch mixing.

Time of mixing of concrete.

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

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

The ready-mix concrete should be produced in RMC plant using fully automatic batching plant having capacity to produce 30 cum/hr. The plant should have computerized control and shall give print out of all the ingredients.

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

- 9 grade OPC/ PPC as per schedule of the contract (conforming to relevant IS Codes) of brand / make / source as approved by Engineer-in-charge shall only be used for production of concrete.

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

The item of design mix cement concrete shall be inclusive of all the ingredients including admixtures if required, labour, machinery, T&P etc. required for a design mix concrete of required strength and workability. The rate quoted by the agency shall be net & nothing extra shall be payable on account of change in quantities of concrete ingredients like cement and aggregates and admixtures etc. as per the approved mix design.

Ready mix concrete shall be arranged in quality as required at site of work by transportation in a transit mixer. [The general conditions of transit mixer and other requirement shall conform to IS:5892.] Ready mix concrete shall be supplied as per the pre-agreed schedule approved by Engineer-in-charge.

All other operations in concreting work like Mixing, Slump, transportation, laying / placing of concrete, compaction, curing etc. not mentioned in this particular specification for Design Mix Concrete shall be as per IS : 456-2000 or amended thereafter.

For design mix concrete of RCC other than those specified above, the contractor shall use the Design mix concrete produced by a central batching and mixing plant at his own cost. The contractor, if he so desires, can arrange the design mix concrete also

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from Ready mix concrete producer after obtaining written approval of the Engineer-in-charge. Nothing extra whatsoever shall be payable on this account.

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. Nothing extra shall be payable on this account.

The item of design mix cement concrete (produced at site as well as arranged from RMC producer) shall be inclusive of all the ingredients including admixtures if required, labour, machinery, transportation etc. (except reinforcement and shuttering which will be measured & paid as per provision of contract) required for a design mix concrete of required strength and workability. The rate quoted by the agency shall be net & nothing extra shall be payable on account of changes in quantities of concrete ingredients like cement and aggregates and admixtures etc. as per approved mix design except for quantity of extra cement payable as per schedule of quantity. Other operations in concreting work like Mixing, Slump, transportation, laying / placing of concrete, compaction, curing etc. not mentioned in this particular specification for Design Mix of Concrete shall be as per IS : 456-2000.

10. **Waterproofing**

The contractor shall associate specialized agency for water proofing work, duly approved by the Engineer-in-Charge.

The water proofing compounds shall be in accordance to approved make of materials annexed in the contract agreement. Contractor shall get the water proofing product and its make approved from Engineer-in-charge. However, this approval shall not exempt the contractor from responsibility for success of water proofing treatment done by him.

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

Specialized labour shall prepare a mock up sample to demonstrate to engineer-in-charge the success of water proofing treatment.

The finished surface after water proofing treatment shall have adequate smooth slope as per the direction of the Engineer-in-charge.

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

The contractor shall get water proofing work done checked by engineer-in-charge or his authorized representative by flooding of water for sufficient duration as directed by Engineer-in-charge. However, this approval shall not exempt the contractor from responsibility for success of water proofing treatment done by him.

The Contractor, for the work of water proofing, will have to execute a guarantee bond in the prescribed proforma in this bid document for removing any defects in waterproofing done by it in this contract for 10 years after completion of entire work in the contract agreement.

10% of total cost of water proofing item (excluding cost of external plaster on masonry, if water proofing compound added in external plaster also) shall be retained as additional security deposit and the amount so withheld would be released after ten years from the date of

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completion of the entire work under the agreement. If the performance of the work done is found unsatisfactory and any defects noticed during the guarantee period, they shall be rectified by the Contractor within 10 days of receipt of intimation of defects in the work. If the defects pointed out are not attended to within the specified period, the same will be got done from another Contractor at the risk and cost of the Contractor.

11. Additional Conditions for Painting Work:

Mechanical sanding machine (for scrubbing & preparation of surface) shall be used by the contractor.

In case of painting over old work / new work, the contractor shall give proper notice to the Engineer-in-charge after the surface is prepared & before applying of primer coat / paint. The Engineer-in-charge shall either approve the surface thus prepared or ask the contractor to rectify the defects pointed. Only after approval by Engineer-in-charge, the priming / painting coat shall be applied.

Primer coat shall be applied over cement based putty as per specifications of the paint manufacturers. If the component of primer is not included in the Schedule of work agreement item for painting, then payment for primer shall be made to the contractor separately.

12. Preferred Make & Approval of materials:

Contractor shall adopt materials in work as per preferred make of materials annexed in this contract document. Contractor shall submit at least three makes of material which he propose to use for this work for approval of engineer-in-charge. The approval of samples by Department shall be final and binding. The approved samples shall be preserved at work site in safe custody till completion of whole work. In case any sample submitted by contractor is not approved by Engineer-in-charge, contractor shall arrange and submit alternate samples for approval of engineer-in-charge. The Contractor should also consider the availability of spares parts/components for Construction purposes while proposing any brand/manufacturer.

Wherever work is specified to be done or material procured through specialized agencies, their names shall be got approved well in advance from Engineer-in-charge. Failure to do so shall not justify delay in execution of work. It is suggested that immediately after award of work, contractor should negotiate with concerned specialist agencies and send their names for approval to Engineer-in-charge. Any material procured without prior approval of Engineer-in-charge in writing is liable to be rejected. Engineer-in-charge reserves right to get the materials tested in laboratories of his choice before final acceptance. Non-standard materials shall not be accepted.

Various factory-made materials shall be procured from reputed and approved manufacturers or their authorized dealers and the material shall conform to the make as specified in this contract agreement. However for the items not appearing in the list, preference shall be given to those articles which bear ISI certification marks. In case articles bearing ISI certification marks are not available or where BIS certification system is available for a particular material/product but not even a single producer has so far approached BIS for certification, the material can be used subject to the condition that in such case written approval of Engineer-in-charge be obtained before use of such material in the work.

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All materials and articles brought by the contractor to the site for use shall conform to the samples approved, which shall be preserved till the completion of the work. However, such articles which bear ISI mark but stand banned by CPWD will not be used.

In the schedule of quantities / nomenclature of some items, the make(s) of product / material has been mentioned. The contractor is required to provide the same make(s) as mentioned in the item. If the same are not available in the market or the suppliers adopts monopolistic practice then the approval of other equivalent brand / make, matching with schedule of work items and specification, can be taken from Engineer-in-charge. The contractor will submit such a case at least three months before the materials is required at site. If the rate of other equivalent brand / make are less than the brand / make mentioned in the schedule of work item, than necessary cost adjustment will be made for difference in rates.

For items / materials not appearing in the list of preferred make of materials, decision of Engineer-in-charge shall be final and binding.

The list of preferred make of materials for Civil Works is available in tender documents.

Sanitary and water supply items shall be as per make specified in schedule of work item(s) and if no make is mentioned in schedule of work item, same shall be as per "Normal Range" in preferred make list of materials.

Sample of building materials, fittings and other articles required for execution of work shall be got approved from the Engineer-in-Charge before use in the work. The quality of samples brought by the Contractor shall be judged by standards laid down in the relevant CPWD/ BIS specifications. In case, samples provided by Contractor are not approved, Contractor shall submit new samples of the materials and other articles for approval of Engineer-in-charge. Decision of Engineer-in-charge w.r.t. approval of samples of materials shall be final and binding on the contractor. All materials and articles brought by the Contractor to the site for use shall conform to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work.

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/material. Wherever BIS marked materials are brought to the site of work, the Contractor shall, if required, by the Engineer-in-Charge, furnish manufacturer's test certificate or test certificate from approved testing laboratory to establish that the material procured by the Contractor for incorporation in the work satisfies the provisions of contract agreement, specifications / BIS codes relevant to the material and / or the work done.

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SPECIAL CONDITIONS FOR WORK CONTRACT

Contractor has to submit stamp paper of Rs. 1000/- for works upto 50 lakhs and for works more than lakhs the stamp paper amount required amount i.e. 0.15% of the tender amount or subject to max of Rs. 25.00 Lacs as per prevailing order of Government of Rajasthan Finance department (Tax Division) dt. 06-11-2020 or as modified and applicable within 15 days from issue of work order. The total stamp duty amount shall be borne by the contractor.

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PREFERRED MAKES OF MATERIALS FOR CIVIL WORKS		
Sl No.	Material	Preferred Make
1.	(i) Ordinary Portland Cement/Portland Pozzolona Cement.	ACC, Ultratech, Ambuja Cement, J.K. Cement
	(ii) White Cement	Birla White, J.K. White
2.	Reinforcement Steel	SAIL, Tata Steel (TATA), Rashtriya Ispat Nigam Ltd. (RINL), JSW Steel Ltd. (JSW), Jindal Steel & Power Ltd. (JSPL).
3.	Water Proofing Compounds, Admixtures Plasticizer, Super Plasticizer, Curing Compounds	Fosroc, CICO, Sika, BASF, ArdexEndura (BalEndura), KRYTON, Penetron
4.	Grouts, Tile Adhesive	MYK Laticrete, Ferrous Crete, AdrexEndura
5.	Structural Steel for truss members	SAIL, Tata Steel, Rashtriya Ispat Nigam Ltd, (RINL), JSW Steel Ltd., Jindal Steel & Power Ltd.
6.	Laminates	Greenlam, Merino, Century, ARCHIDPLY, Duro Ply
7.	Flush door shutters	Duro, Century, Green Ply, Archidply NOTE: Only ISI marked flush door shutters to be used.
8.	Plywood/Veneer	Green Ply, Century, Merino, Duro
9.	Floor Spring & Door Closure	Dormakaba, Hafele, Geze, Assa Abloy
10.	(a) Aluminium Section	Hindalco, Jindal, Indian Aluminum co.
	(b) Anodised Aluminium Hardware (Heavy Duty)	Kinlong, Alualpha, Classic, Ebco
11.	Clear/ Float/Frosted/Toughened Glass/Refractive Glass	Saint Gobain, Asahi Float, Gold Plus
12.	Stainless Steel Railing, Accessories etc.	JSL, Dormakaba, GEZE, Hafele
13.	S.S. Fittings for Door & Window	JSL, Dormakaba, GEZE, Hafele, Assa Abloy
14.	Silicon based water repellant/Weather Sealant	G.E. Plastics, Dow Corning, Wacker, BASF, Pidilite
15.	Poly-Sulphide Sealant	Fosroc, Pidilite (Dr. Fixit/Roof), Sika, BASF
16.	Ceramic Tiles	Kajaria, RAK, Somany, Johnson NOTE: The tiles manufactured at mother plant, to be used.
17.	Vitrified Tiles (Antiskid/Matt/Glazed) (Only Double charged vitrified tile permitted.)	Kajaria, RAK, Somany, Johnson NOTE: The tiles manufactured at mother plant, to be used.
18.	Dash/ Anchoring Fasteners/ SS Stone Cladding Clamps	HILTI, Fischer, Bosch, Wurth
19.	Cement based wall Putty	Birla wall care, JK White, Wonder

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20.	Acrylic Emulsion Paint	Asian Paints (Professional Premium Interior Emulsion Paint), Nerolac : Beauty Gold Berger : Rangoli total care ICI-Dulux : Super cover
21.	Plastic Emulsion Paint	Asian Paint (Apolite Heavy Duty Premium Emulsion Paint), Nerolac : Impression, British Paints: Satin Max Interior Berger : Easy Clean ICI-Dulux : 3 in 1
22	Premium Acrylic Emulsion Paints(Interior)	Asian Paints (Royal Luxury Emulsion) Nerolac : Impression Berger : Silk ICI-Dulux : Velvet touch
23	Textured Exterior Paint	Asian Paints, Nerolac, Berger Paints,Ultratech Paints
24	Acrylic Smooth Exterior Paints	Asian Paints (Apex/Professional Premium Exterior Emulsion) Nerolac : XL Berger : Weather Coat ICI-Dulux : Weather Shield
25	Premium Acrylic Smooth Exterior Paints with Silicon additive	Asian Paints : Apex Ultima Nerolac : XL Total Berger : Weather Coat all guard ICI-Dulux : Weather Shield max
26	Synthetic Enamel Paint	Asian Apolite Premium gloss enamel, Nerolac : Synthetic Hi gloss Berger : Luxol Hi gloss ICI-Dulux : Gloss Synthetic Enamel
27	Cement Primer	Nerolac, Berger (BPWhite), Decoprime WT(Asian), White primer(ICI).
28	Steel Primer(Red Oxide Zinc Chromate Primer)	Asian Paints, Nerolac, Berger, ICI.
29	Wood Primer	Asian Paints (Wood Primer-white/Pink), Berger, ICI, Nerolac.
30	Epoxy Paint	Asian,Nerolac, Berger, ICI
31	Fire Paint	Asian Paints, Akzo Nobel Coatings India Ltd., PROMAT, Jotun, Berger Paint
32	G.I.Pipe	Tata, Jindal (Hisar)
33	G.I. Fittings	Unik AVR, Zoloto
34	UPVC pipe and Fittings	Astral, Supreme, Prince, Finolex
35	Centrifugally Cast(spun) Iron Pipes & Fittings	NECO, Electrosteel, SKF, RPMF
36	Hubless Centrifugally Cast	RPMF, SKF

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

	(spun) Iron Pipes & Fittings	
37	C.I. Manhole covers, Frames & GI Gratings	NECO, RAJ Iron Foundary Agra, BIC, SKF, Kapilansh, NTC
38	SFRC Manhole covers & Gratings	KK JAIN, PARGATI
39	CP Brass Fittings	Jaquar, Grohe, Roca, Kohler
40	Sanitary ware, Fittings & accessories	Jaquar, Grohe, Roca, Kohler
41	Mirror Glass	Atul, Modi Guard, Gold Plus
42	UPVC/CPVC Pipe & Fittings	Astral, Supreme, Prince, Finolex
43	Stainless Steel Sink	Jindal, Hindware, Kohler, Neelkanth, Nirali, Jayna
44	RCC Pipes	Lakshmi, Sood&Sood, Jain Pipe Co. (Newai), Mahaveer Enterprises (Newai), Work well spun pipes, Pali, M/s J K Pipes
45	UPVC Doors & Windows (Profile makers & their authorized Fabricators only)	Fenesta, Simta Astrix, VEKA
46	Heat Resistant Tiles	NTC, Somany, Johnson
47	UPVC doors and window hardware	Roto, Dorset, Kinlong
48	AAC Block Adhesive	UltraTech, ArdexEndura, Ferrous Crete
49	FRP Doors/Panelled & Wiremesh doors	Jayna, Jain Doors Pvt. Ltd., Bhatt FRP
50	WPC/PVC Doors Shutters & Frames	Century Ply, ARCHIDPLY, Greenply
51	Epoxy Grouting compound	Saint Gobain- Weber, MYK Laticrete, Kerakoll, Roff,
52	Aluminium Door & Windows sections	ETERNIA - HINDALCO, Jindal
53	Polyethylene Water Storage Tanks	Sintex, Vectus, Supreme, Plasto
54	Aluminium Door & Windows Fittings	GLOBAL, India Mart, Jindal
55	MS Steel Door frame box section	Apollo, Tata Steel, Sambhv Steel

Note:-

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

In respect of other materials, any ISI marked material can be used on the work but these shall also meet the requirement for obtaining GRIHA 3 star rating. In case any material / product listed above do not meet the requirement required for obtaining GRIHA 3 star rating, alternate product as per decision and approval of tender accepting Authority shall be used. In such situation, cost adjustment (if required) shall be made after approval from tender accepting authority whose decision shall be binding and final.

All other material/ make to be approved by Engineer in charge conforming to Specifications and Nomenclature of item and latest IS Codes and samples to be kept in safe custody for inspection of senior officers.

All other makes approved by SE(Jodhpur) office & valid on the date of publication of this NIT will also be considered part of this list unless specifically cut in above list or their rates are varying by more than 10% from the makes taken in list of preferred makes.

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

SPECIAL CONDITIONS FOR ROYALTY

राजस्थान सरकार
खान एवं पेट्रोलियम (ग्रुप-2) विभाग

क्रमांक: प.9(3)खान/ग्रुप-1/2019

जयपुर, दिनांक

22 DEC 2021

—: परिपत्र :-

राजकीय निर्माण कार्य में प्रयुक्त होने वाले खनिजों हेतु एस.टी.पी. प्राप्त करने एवं रॉयल्टी जमा कराने के संबंध में राजस्थान अप्रधान खनिज रियायत नियमावली 2017 के नियम-51 है जो संक्षिप्त में निम्नानुसार है:-

1. निर्माण ठेकेदार द्वारा संबंधित खनि अभियन्ता/सहायक खनि अभियन्ता को कार्यदेश एवं जी शिड्यूल की प्रति सहित एस.टी.पी. हेतु आवेदन किया जायेगा एवं नियम-51 (9) में दिये गये चार विकल्प में से किसी एक विकल्प का चयन कर एस.टी.पी. चाही जायेगी। यह विकल्प निम्नानुसार है:-

- i. रॉयल्टी इत्यादि की कटौती रनिंग बिलों से करवाई जावेगी तथा कार्य समाप्ति पर निर्माण विभाग से खनिज उपयोग मात्रा का प्रमाण पत्र सम्बन्धित खनि अभियन्ता/सहायक खनि अभियन्ता की प्रस्तुत कर अधिशुल्क निर्धारण करवाया जावेगा एवं नोड्यूल प्राप्त करेगा।
- ii. रॉयल्टी इत्यादि की राशि सम्बन्धित खनि अभियन्ता/सहायक खनि अभियन्ता को अग्रिम जमा कराई जायेगी एवं कार्य समाप्ति पर निर्माण विभाग से खनिज उपयोग मात्रा का प्रमाण पत्र सम्बन्धित खनि अभियन्ता/सहायक खनि अभियन्ता को प्रस्तुत कर अधिशुल्क निर्धारण करवाया जावेगा एवं नोड्यूल प्राप्त करेगा। नेशनल/मेगा साईवे, चार/छः लेन सडके व रेल्वे के निर्माण एवं मरम्मत कार्य हेतु यह विकल्प ही लागू है।
- iii. रॉयल्टी पेड खनिज कय कर काम में लिया जायेगा एवं कार्य समाप्ति पर निर्माण विभाग से खनिज उपयोग मात्रा का प्रमाण पत्र सम्बन्धित खनि अभियन्ता/सहायक खनि अभियन्ता को प्रस्तुत कर अधिशुल्क निर्धारण करवाया जायेगा एवं नोड्यूल प्राप्त करेगा।
- iv. रॉयल्टी पेड खनिज प्राप्त किया जायेगा जिसका एसेसमेन्ट नहीं करवाना चाहता है एवं रनिंग बिलों से निर्धारित प्रतिशत राशि की कटौती करवायेगा।

2. निर्माण विभागों का दायित्व है कि रनिंग बिलों के समय खनिज का उपयोग रॉयल्टी भुगतान कर काम में लिया जाने बाबत सुनिश्चित करें अन्यथा खनिज का उपयोग ना होने दें। खान विभाग के परिपत्र क्रमांक प.13(6)खान/ग्रुप-2/80 पार्ट दिनांक 15-11-2011 के अनुसार निर्माण विभाग द्वारा प्रक्रिया का पालन नहीं करने या अवैध रूप से खनिज का उपयोग होने पर खनिज की 10 गुणा रॉयल्टी जमा कराने की जिम्मेदारी सम्बन्धित निर्माण विभाग की होगी, जो एल. आर. एक्ट के तहत वसूल की जा सकेगी।

C	NIL
I	NIL
O	NIL

उपरोक्त विभागीय प्रावधानों के अनुसार केवल राजस्थान अप्रधान खनिज रियायत नियमावली, 2017 के नियम 51(9)(iv) में जारी होने वाले एस.टी.पी. में ही निर्माण विभाग को अंतिम बिल पारित करने के लिये सम्बन्धित खनि अभियन्ता/सहायक खनि अभियन्ता के नो-ड्यूज की आवश्यकता नहीं है, बाकी सभी विकल्पों में नो-ड्यूज प्राप्त किये बगैर अंतिम बिल पारित नहीं किया जा सकता।

विगत वर्षों में महालेखाकार अंकेक्षण दल द्वारा एस.टी.पी. के प्रकरणों में काफी आक्षेप गठित किये गये हैं तथा विभाग को भी एस.टी.पी. के प्रकरणों को निपटाने में कई परेशानियों का सामना करना पड़ता है, जिनमें से मुख्यतः यह है कि:-

1- सम्बन्धित खनि अभियन्ता/सहायक खनि अभियन्ता को निर्माण विभाग द्वारा जारी कार्यदेश की प्रति प्राप्त नहीं होती है, जिसके कारण ठेकेदार को एस.टी.पी. हेतु लिखा नहीं जा सकता, जबकि महालेखाकार द्वारा निर्माण विभाग के कार्यदेशों के आधार पर बिना एस.टी.पी. खनिज उपयोग के दोष पर 10 गुणा रॉयल्टी हानि का आक्षेप खान विभाग में गठित किये जाते हैं।

2- निर्माण ठेकेदार द्वारा कई बार राजस्थान अप्रधान खनिज रियायत नियमावली, 2017 के नियम 51(9)(ii) के तहत एस.टी.पी. आंशिक खनिज मात्रा का प्राप्त किया जाता है, जबकि शेष कार्य बिना एस.टी.पी. प्राप्त किये, करने पर महालेखाकार द्वारा बिना एस.टी.पी. खनिज उपयोग के दोष पर 10 गुणा रॉयल्टी हानि का आक्षेप खान विभाग में गठित किये जाते हैं।

3- निर्माण विभाग द्वारा कार्य समाप्ति पर सम्बन्धित खनि अभियन्ता/सहायक खनि-अभियन्ता को खनिज उपयोग मात्रा का प्रमाण पत्र नहीं भेजा जाता है, जिसके कारण खान विभाग द्वारा अधिशुल्क निर्धारण नहीं किया जा पाता है एवं महालेखाकार द्वारा एस.टी.पी. के अधिशुल्क निर्धारण नहीं करने के कारण राजस्व हानि के आक्षेप गठित किये जाते हैं।

4- कई ठेकेदारों द्वारा कार्य का अंतिम बिल बहुत ही कम राशि का बाकी छोड़ देते हुए अधिकतम भुगतान रनिंग बिलों के माध्यम से प्राप्त कर लिये जाते हैं एवं अंतिम बिल भुगतान न होने को आधार बनाकर निर्माण विभाग द्वारा खनिज उपयोग मात्रा का प्रमाण पत्र नहीं भेजा जाता है, जिसके कारण अधिशुल्क निर्धारण नहीं किया जा पाता है एवं महालेखाकार द्वारा एस.टी.पी. के अधिशुल्क निर्धारण नहीं करने के कारण राजस्व हानि के आक्षेप गठित किये जाते हैं।

5- निर्माण विभाग द्वारा सम्बन्धित खनि अभियन्ता/सहायक खनि अभियन्ता के नो-ड्यूज प्रमाण पत्र प्राप्त किये बिना ठेकेदार को अंतिम बिल का भुगतान कर दिया जाता है।

6- अधिकांश निर्माण विभागों द्वारा निर्माण कार्य में उपयोगित साधारण मिट्टी का विवरण प्रेषित नहीं किया जाता है, जिसके अभाव में महालेखाकार द्वारा जी-शिड्यूल के आधार पर रॉयल्टी हानि का आक्षेप खान विभाग में गठित किये जाते हैं।

अतः महालेखाकार अंकेक्षण दल द्वारा बनाये गये पैराओं को ध्यान में रखते हुये तथा उनकी पुनरावृत्ति तथा राजस्व अपवंचना को रोकने हेतु निम्नानुसार प्रक्रिया अपनाये जाने हेतु निर्देशित किया जाता है:-

C	NIL
I	NIL
O	NIL

1-समस्त निर्माण विभाग की वेबसाईट को खान विभाग की वेबसाईट से लिंक किया जाये, ताकि निर्माण विभाग द्वारा कोई भी कार्यादेश जारी करते ही खान विभाग को उसकी सूचना मिल सके।

2- निर्माण विभाग द्वारा प्रथम रनिंग बिल का भुगतान किसी भी परिस्थिति में खान विभाग द्वारा जारी एस.टी.पी. की प्रति संवेदक से प्राप्त किये बिना नहीं किया जावे।

3-निर्माण विभाग द्वारा रनिंग बिलों को परित करते समय रनिंग बिल में अंकित उपयोग में लिये गये विभिन्न खनिजों की तथा मात्रा की एस.टी.पी. खान विभाग से जारी होना सुनिश्चित किया जायें।

4- निर्माण विभागों द्वारा निर्माण कार्य में उपयोगित साधारण मिट्टी का विवरण आवश्यक रूप से खान विभाग को प्रेषित किया जावे।

5- ऐसे निर्माण कार्य जिसमें विभाग द्वारा राजस्थान अधिग्रहण खनिज रियायत नियम, 2017 के नियम 51(9)(i)(ii) व (iii) के अन्तर्गत एस.टी.पी. जारी की जाती है, उन प्रकरणों में अंतिम रनिंग बिल कम से कम 20 प्रतिशत राशि का निर्धारित किया जायें। अंतिम बिल का भुगतान एवं सिक्यूरिटी की राशि का फिण्ड वेब पोर्टल सम्बन्धित निर्माण विभाग की वेबसाईट पर खान विभाग के नो-ड्यूज प्रमाण पत्र का लिंक उपलब्ध कराया जाये, ताकि सम्बन्धित खनिज अभियन्ता/सहायक खनिज अभियन्ता विभाग पर नो-ड्यूज प्रमाण पत्र अपलोड कर सकें। नो-ड्यूज प्रमाण पत्र अपलोड होने के तत्पश्चात ही अंतिम रनिंग बिल का भुगतान किया जाये।

6- कार्य समाप्ति के 15 दिवस या अधिकतम एक माह में निर्माण विभाग द्वारा खनिज उपयोग मात्रा का प्रमाण पत्र सम्बन्धित खनिज अभियन्ता/सहायक खनिज अभियन्ता को प्रेषित किया जायें। तत्पश्चात एक माह की अवधि में सम्बन्धित खनिज अभियन्ता/सहायक खनिज अभियन्ता द्वारा नो-ड्यूज प्रमाण पत्र जारी किया जायगा।

7- पुराने कार्य जो समाप्त हो चुके हैं, जिनका खनिज उपयोगिता प्रमाण पत्र नहीं भिजवाये गये हैं, उनमें अभियान चलाकर एक माह के अन्दर उपयोगिता प्रमाण पत्र में भिजवाये जायें।

(नील बरूपाल)
शासन उप सचिव

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

परिपत्र

विषय: राजकीय विभागों, स्वायत्तशासी संस्थाओं, राजकीय उपक्रमों में कार्यरत निर्माण ठेकेदारों से निर्माण कार्य में काम आने वाले खनिजों मेसेनरी स्टोन, मिट्टी, बोल्ट्स, बजरी, कंकर, मोरम, साधारण मिट्टी (ईट मिट्टी को छोड़कर) की रायल्टी वसूली के संबंध में।

उपरोक्त विषयान्तर्गत पूर्व में जारी किये गये परिपत्र दिनांक 06.10.2008/08.10.2008 को मा. उच्च न्यायालय, जोधपुर द्वारा एस.बी.सिविल रिट सं. 1309/09 में पारित आदेश दिनांक 17.01.2011 से पिटीशनकर्ता द्वारा रायल्टी पेड खनिज प्राप्त कर काम में लिये जाने के बावजूद उक्त परिपत्र अल्पावधि अनुमति पत्र लेने हेतु बाध्य करता है, इस कारण निरस्त किया है तथा परिपत्र को संशोधित कर जारी करने की छूट प्रदान की गई। उक्त निर्णय के प्रकाश में परिपत्र दिनांक 06.10.2008/08.10.2008 के अतिक्रमण में राजकीय विभागों, स्वायत्तशासी संस्थाओं, राजकीय उपक्रमों में कार्यरत निर्माण ठेकेदारों से निर्माण कार्य में काम आने वाले खनिजों पर देय रायल्टी के भुगतान बाबत निम्न प्रक्रिया तय की जाती है। यह प्रक्रिया तुरंत प्रभाव से लागू होगी।

1. संबंधित निर्माण विभाग को कार्यादेश की प्रति मय जी-शिड्युल, जिसमें निर्माण में काम आने वाले खनिजों की मात्रा का विवरण हो (घनमीटर अथवा टनों में), संबंधित खनि अभियंता/ सहायक खनि अभियंता कार्यालय में प्रस्तुत करनी होगी।
2. ठेकेदार को निर्माण कार्य शुरू करने से पूर्व निम्न में से कोई एक विकल्प संबंधित खनि अभियंता/ सहायक खनि अभियंता कार्यालय में शपथ पत्र के साथ प्रस्तुत करना होगा।

विकल्प-ए - यदि ठेकेदार अपने स्तर पर खनिजों का खनन करने हेतु अल्पावधि अनुमति पत्र प्राप्त करना चाहता है जिसका कार्य समाप्ति पर अधिशुल्क निर्धारण कराना चाहता है एवं रायल्टी की राशि रनिंग बिलों से कटवाना चाहता है।

विकल्प-बी - यदि ठेकेदार अल्पावधि अनुमति पत्र प्राप्त करना चाहता है, परन्तु रायल्टी की राशि रनिंग बिलों से कटाने के बजाय खान विभाग में अल्पावधि अनुमति पत्र प्राप्त करते समय अग्रिम रूप से जमा कराना चाहता है।

विकल्प-सी - यदि ठेकेदार सम्पूर्ण खनिज रायल्टी पेड खरीदना चाहता है तथा रनिंग बिल की स्टेज पर निर्धारण के लिए रायल्टी भुगतान का समुचित रिकार्ड प्रस्तुत करेगा।

विकल्प-डी - यदि ठेकेदार विकल्प बी व सी को सम्मिलित रूप से काम में लेना चाहता है।

3. ठेकेदार द्वारा उपरोक्त बिन्दु संख्या 2 के अनुसार विकल्प प्रस्तुत कर दिये जाने पर संबंधित खनि अभियंता/ सहायक खनि अभियंता द्वारा इसकी सूचना निर्माण विभाग को दी जायेगी एवं निर्माण विभाग विकल्पों के अनुसार, नीचे दी गई व्यवस्था के अनुरूप, रायल्टी वसूली बाबत कार्यवाही करेगा।

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विकल्प-ए के ठेकेदारों के प्रथम बिल पारित करने के पूर्व निर्माण-विभाग रवनि अभियंता / सहायक खनि अभियंता द्वारा जारी अल्पावधि अनुमति पत्र की प्रति प्राप्त करेगा, अन्यथा बिल का भुगतान नहीं किया जायेगा। ऐसे ठेकेदारों के रनिंग बिलों से रायल्टी की कटौती निम्नानुसार निर्धारित दर से की जाकर चेक अथवा महालेखाकार के यहाँ समायोजन के माध्यम से भय कटौती विवरण के जमा करानी होगी :-

1. सड़क निर्माण (वाइडनिंग सहित)	3%
2. भवन निर्माण	2%
3. सड़क नवीनीकरण	1.5%
4. अन्य कार्य जिनमें खनिज का उपयोग होता हो	1%

उक्त विकल्प के ठेकेदार यदि अतिरिक्त राशि जमा हो जाने के कारण रिफण्ड चाहते हो तो उन्हें निर्माण कार्य समाप्ति के 30 दिवस की अवधि में अपना रिकार्ड यथा काम में लिये गये खनिज का ब्यौरा (निर्माण विभाग से प्रमाणितशुदा) खनिज प्राप्त किये जाने का स्रोत, उसके बिल/रवन्ना/अधिकृत ठेकेदार की रायल्टी पर्ची जिनमें निर्माण विभाग के ठेकेदार का नाम अंकित हो, अधिशुल्क निर्धारण हेतु खनि अभियंता / सहायक खनि अभियंता कार्यालय में प्रस्तुत करने होंगे। उक्त 30 दिवस की अवधि में रिकार्ड प्रस्तुत नहीं करने पर निर्माण विभाग द्वारा रनिंग बिलों से काटी गई राशि को अंतिम माना जायेगा।

5. विकल्प-बी के ठेकेदारों को अल्पावधि अनुमति पत्र प्राप्त करते समय खनिज की रायल्टी संबंधित खनि अभियंता / सहायक खनि अभियंता कार्यालय में जमा करानी होगी। निर्माण विभाग द्वारा ऐसे ठेकेदारों के रनिंग बिल कटौती किये जाएंगे, परन्तु अंतिम रनिंग बिल खनि अभियंता / सहायक खनि अभियंता से अनापत्ति प्राप्त किये बिना पारित नहीं किया जायेगा।

6. विकल्प-सी के ठेकेदारों द्वारा संबंधित रनिंग बिल तक काम में लिये गये खनिज का ब्यौरा (निर्माण विभाग से प्रमाणितशुदा) खनिज प्राप्त किये जाने का स्रोत उनके बिल/रवन्ना/अधिकृत ठेकेदार की रायल्टी पर्ची जिनमें निर्माण विभाग के ठेकेदार का नाम अंकित हो, अधिशुल्क निर्धारण हेतु खनि अभियंता / सहायक खनि अभियंता कार्यालय में प्रस्तुत करने होंगे। खनि अभियंता / सहायक खनि अभियंता द्वारा अधिशुल्क निर्धारण आदेश जारी कर दिये जाने पर निर्माण विभाग द्वारा संबंधित रनिंग बिल पारित किया जा सकेगा, परन्तु अंतिम रनिंग बिल खनि अभियंता / सहायक खनि अभियंता द्वारा अनापत्ति प्राप्त किये बिना पारित नहीं किया जायेगा।

7. विकल्प-डी के ठेकेदारों को अल्पावधि अनुमति पत्र प्राप्त करते समय खनिज की रायल्टी संबंधित खनि अभियंता / सहायक खनि अभियंता कार्यालय में जमा करानी होगी। रायल्टी पेड प्राप्त किये गये खनिज का ब्यौरा (निर्माण विभाग से प्रमाणितशुदा) खनिज प्राप्त किये जाने का स्रोत उनके बिल/रवन्ना/अधिकृत ठेकेदार की रायल्टी पर्ची जिनमें निर्माण विभाग के ठेकेदार का नाम अंकित हो, अधिशुल्क निर्धारण हेतु खनि अभियंता / सहायक खनि अभियंता कार्यालय में प्रस्तुत करने होंगे। खनि अभियंता / सहायक खनि अभियंता द्वारा अधिशुल्क निर्धारण आदेश जारी कर दिये जाने पर निर्माण विभाग द्वारा संबंधित रनिंग बिल पारित किया जा सकेगा, परन्तु अंतिम रनिंग बिल खनि अभियंता / सहायक खनि अभियंता द्वारा अनापत्ति प्राप्त किये बिना पारित नहीं किया जायेगा।

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जा सकेगा, परन्तु अंतिम रनिंग बिल खनि अभियंता / सहायक खनि अभियंता द्वारा अनापत्ति प्राप्त किये बिना पारित नहीं किया जायेगा।

8. BOT/BOOT के तहत होने वाले निर्माण कार्यों अथवा जिन निर्माण कार्यों के बिलों का गुणान किसी भी विभाग द्वारा नहीं किया जाता है, उसमें विकल्प-ए, सी एवं डी लागू नहीं होगा, इनकी बजाय विकल्प-बी लागू होगा।
9. कार्य समाप्त होने पर निर्माण विभाग द्वारा ठेकेदार द्वारा उपयोग की गई खनिज की वास्तविक मात्रा का विवरण तथा काटी गई रायल्टी राशि का ब्यौरा संबंधित खनि अभियंता / सहायक खनि अभियंता को देना होगा।
10. यदि निर्माण विभाग द्वारा उक्तानुसार प्रक्रिया का पालन नहीं किया गया अथवा ठेकेदार द्वारा अवैध रूप से खनिज का उपयोग किया गया है तो खनिज की दस गुणा रायल्टी वसूली योग्य होगी, जिसको जमा कराने की जिम्मेदारी संबंधित निर्माण विभाग की होगी। संबंधित खनि अभियंता / सहायक खनि अभियंता एमएमसीआर, 1986 के नियम 66 तथा भू-राजस्व अधिनियम के प्रावधानों के अनुसार उक्त राशि वसूल कर सकेगा।
11. ठेकेदार द्वारा प्रतिबंधित क्षेत्रों जैसे चारागाह भूमि, केचमेंट एरिया, वन / अभ्यारण्य / राष्ट्रीय उद्यान क्षेत्र तथा उनके सेफ्टी जोन क्षेत्र, विभिन्न न्यायालयों द्वारा प्रतिबंधित क्षेत्रों में खनन कार्य नहीं किया जायेगा एवं स्वीकृत खनन पट्टा / लाइसेंस क्षेत्र में या किसी खातेदारी भूमि में बगैर पट्टाधारी / लाइसेंसधारी या संबंधित खातेदार की लिखित सहमति के बिना खनन कार्य नहीं किया जायेगा। इस बाबत अत्यावधि अनुज्ञापत्र का आवेदन पत्र पेश करते समय ही शपथ पत्र देना होगा।

यह परिपत्र वित्त (राजस्व डिवीजन) विभाग की आई डी संख्या 101103210 दिनांक 13.10.2011 की सहमति से जारी किया जाता है तथा इस विषय में राज्य सरकार द्वारा माननीय सर्वोच्च न्यायालय में दायर की गई एसएलपी पर होने वाले निर्णय के अधधीन रहेगा।

शासन उप सचिव

प्रतिलिपि निम्न को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है :-

1. निजी सचिव, खान राज्यमंत्री, राजस्थान, जयपुर
2. निजी सचिव, प्रमुख शासन सचिव, खान एवं पेट्रोलियम विभाग, राजस्थान, जयपुर
3. शासन उप सचिव-1/II, खान विभाग, शासन सचिवालय, जयपुर
4. विशेषाधिकारी (तकनीकी)/उप विधि परामर्शी/शासन सहायक सचिव, शासन सचिवालय, जयपुर
5. निदेशक, खान एवं भू-विज्ञान विभाग, राजस्थान, उदयपुर
6. रासत अति निदेशक (खान)/(भू-विज्ञान), अधीक्षण खनि अभियंता, खनि अभियंता, सहायक खनि अभियंता, द्वारा निदेशक, खान एवं भू-विज्ञान विभाग, राजस्थान, उदयपुर
7. रक्षित पत्रावली।

शासन सहायक सचिव

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EE Jaisalmer

Form 'A'

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).

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O	NIL

AE (P)

EE Jaisalmer

PROFORMA FOR 'RECEIPT OF DEPOSITION OF ORIGINAL EMD'
(Receipt No...../date.....)

Name of Work	C/o Tin shade PM Shri Kendriya Vidyalay at BSF campus Dabla Jaisalmer, Distt. Jaisalmer.
NIT NO	10/EE/Jaisalmer/2026-27
Estimated Cost	Rs. 60,97,682/-
Amount of Earnest Money Deposit	Rs. 1,21,954/-
Last Date of Submission of Bid	18/08/2026 upto 03:00 PM
Below Details to be filled by EMD Receiving EE/AAO	
Name of Contractor	
Form of EMD	
Amount of Earnest Money Deposit	
(i). EMD in the form of Treasury Challan or demand draft or pay order or Banker's cheque or Deposit at call Receipt or Fixed deposit Receipt.	
(ii). EMD In the form of Bank Guarantee	
Date of submission of EMD	

Signature, Name & Designation
of EMD receiving officer (EE/AAO)
along with office stamp

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O	NIL

AE (P)

EE Jaisalmer

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**

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

OR**

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

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

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

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

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

5. We, (indicate the name of the Bank), further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the BANK GUARANTEE 102 166 160 Years of Engineering Excellence Years of Engineering Excellence said Contractor or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said Contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. We, (indicate the name of the Bank), further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.

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

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

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

Date

Witnesses:

1. Signature.....
Name and address

Authorized signatory

Name

Designation

Staff code no.

Bank seal

2. Signature
Name and address

*Date to be worked out on the basis of validity period of 90 days where only financial bids are invited and 180 days for two/three bid system from the date of submission of tender.

**In paragraph 1, strike out the portion not applicable. Bank Guarantee will be made either for earnest money or for performance guarantee/security deposit/mobilization advance, as the case may be. (Added vide OM No. DG/CON/ 311 dated 20.10.2020)

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

GUARANTEE BONDS/AFFIDAVIT FOR WORK

Annexure –III

GUARANTEE TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER SUPPLY AND SANITARY INSTALLATIONS, UPVC WINDOWS, ROCK WOOL INSULATION AND POLYURETHENE FOAM, METAL FALSE CEILING SYSTEM

The agreement made this _____ day of _____ two thousand and _____ between _____ S/o _____ (hereinafter called the GUARANTOR of the one part) and the PRESIDENT OF INDIA (hereinafter called the Government of the other part).

WHEREAS THIS agreement is supplementary to a contract. (Herein after 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, under look to render the work in the said contract recited structurally stable workmanship and use of sound materials.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said work will remain structurally stable and guarantee 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 the expiry of Construction period prescribed in the contract for the minimum life of ten years, to be reckoned from the date after the expiry of Construction period prescribed in the contract.

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

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

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

IN WITNES WHEREOF those 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 presence of :.

SIGNED FOR AND ON BEHALF OF THE PRESIDENT OF INDIA BY _____ in the presence of :

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

**GUARANTEE BOND TO BE EXECUTED BY THE CONTRACTOR FOR WATER PROOFING TREATMENT
FOR BASEMENT / TERRACE / TOILETS.**

The agreement made this _____ day of _____ two thousand and _____ between _____ S/o _____ (hereinafter called the GUARANTOR of the one part) and the PRESIDENT OF INDIA (hereinafter called the Government of the other part).

WHEREAS THIS agreement is supplementary to a contract. (Herein after called the Contract) dated _____ and made between the GUARANTOR OF THE ONE PART AND the Government of the other part, whereby the contractor interalia, undertook to render the structures in the said contract the work in the said contract recited completely water and leak proof.

THE GUARANTOR hereby guarantee that the 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 expiry of Construction period prescribed in the contract.

~~Provided that the guarantor will not be responsible for leakage caused by earthquake or structural defect.~~

The decision of the Engineer in charge with regard to cause of leakage shall be final.

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

That if the guarantor fails to execute the water proofing, or commits breach thereunder then the guarantor will indemnify the Principal and his successor against all loss, damage, cost of expenses or otherwise which may be incurred by him by reason of any 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 cost incurred by the Government on the decision of the Engineer in charge will be final and binding on the parties.

IN WITNESS WHEREOF those 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 presence of:

SIGNED FOR AND ON BEHALF OF THE PRESIDENT OF INDIA BY _____ in the presence of:

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

QUALITY ASSURANCE PROGRAMME

The following test has to be done by contractor or his authorized representative and engineer-in-charge. The reports shall be signed by contractor and engineer-in-charge. The copies of such reports at various stages shall be appended with each running account bill and final bill failing which no payment shall be released to contractor.

The SE, Jodhpur, CPWD shall also check and sign these reports at suitable intervals.

The contractor to submit a 'Method statement' for the approval of the department soon after the award of work to him. The 'Method statement' is a statement by which the construction procedures for important activities of construction are stated, checked, and approved. The 'Method statement' should have a description of the item with elaborate procedures in steps to implement the same, the specifications of the materials involved, their testing and acceptance criteria, equipments to be used, precautions to be taken, mode of measurement etc.

S. No.	Items & Test	Field / Lab	Quantity as per Estimate	Frequency as per specification	No. of test reqd.**	Remarks
1.	Sand		**			
(a)	Organic impurities	F		every 40 cum		
(b)	Silt content	F		every 40 cum		
(c)	Particle size distribution	F/L		every 40 cum		
(d)	Bulking of sand	F		every 40 cum		
2.	Stone Aggt. 40 mm					
(a)	Particle size distribution	F/L		every 40 cum		
(b)	Surface moisture	F/L				
(c)	Ten percent fine value	F/L		every 40 cum		
(d)	Specified gravity	F/L				
(e)	Bulk density	F/L				
(f)	Aggregate crushing strength	F/L				
(g)	Aggregate impact value	F/L				
3.	Stone Aggt. 20 mm					
(a)	Particle size distribution	F/L		every 40 cum		
(b)	Surface moisture	F/L				
(c)	Ten percent fine value	F/L				
(d)	Specified gravity	F/L				
(e)	Bulk density	F/L				
(f)	Aggregate crushing strength	F/L				
(g)	Aggregate impact value	F/L				

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

4.	Stone Aggt. 10/12.5 mm					
(a)	Particle size distribution	F/L		every 40 cum		
(b)	Surface moisture	F/L				
(c)	Ten percent fine value	F/L				
(d)	Specified gravity	F/L				
(e)	Bulk density	F/L				
(f)	Aggregate crushing strength	F/L				
(g)	Aggregate impact value	F/L				
5.	Concrete			15 cum		
(a)	Slump	F				
6.	RCC			20 cum		
(a)	Cube test	L				
(b)	Slump test	F/L		once in a day		
7.	Bricks / brick tiles	L		50000 Nos.		
(a)	Dimensions,					
(b)	Compressive strength					
(c)	Water absorption					
(d)	Efflorescence					
8.	Steel for RCC	L		As per CPWD specification 2019.		
	(Chemical & Mech test)					
9.	Cement	L		As per CPWD specification 2019		
	(Chemical & Phy. test)					
10.	Water	L		every 3 months		
(a)	Chemical			(water from each source)		
(b)	Physical property					
11.	Flush door	L		26 Nos.		
(a)	End immersion test					
(b)	Knife test					
(c)	Adhesion test					

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

12.	Terrazo tiles	L		5000 Nos.		(0.23×0.23)
(a)	Transverse strength					
(b)	Water absorption					
(c)	Abrasion test					
13.	Ceramic glazed tiles (for floor & walls)	L		3000 Nos.		(300×300 mm)
(a)	Water absorption					
(b)	Crazing test					
(c)	Impact strength test					
(d)	Chemical resistant test					
14.	Marble	L		500 Sqm.		
(a)	Moisture absorption					
(b)	Mhos scale hardness test					
15.	uPVC Window	L		100 Sqm.		
16.	Stone	L		As per CPWD specification 2019		
17.	Ultrasonic Pulse Velocity Test	F		As per technical circular no. 18 of CE (CSQ) issued vide no. G-2/SE(QA)/CSQ /69 dt. 12.02.13		

The Ultrasonic Pulse Velocity Test shall be carried out on RCC members as per CE(CSQ), CPWD, technical circular no. 18 of CE (CSQ) issued vide no. G-2/SE(QA)/CSQ /69 dt. 12.02.13 and all the expenditure involved for carrying out the tests shall be borne by the contractor.

Note: In above mandatory test list further required test as per relevant code's provision, wherever necessary as per direction of Engineer-in-charge.

**** to be filled by EE (Jaisalmer), the item (s) whichever is not applicable may be struck off.**

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer



भारत सरकार
केंद्रीय लोक निर्माण विभाग
सकनीकी अनुप्रयोग एवं मानक एकाई
कमरा सं० 418 ए-विंग, निर्माण भवन, नई दिल्ली।
टैलीफैक्स-011-23062339 ईमेल-delsetascsq.cpwd@nic.in

Issued by e file No. :9158977

Office Memorandum

Subject: Methodology of Analysis of rates of item of DAR. 2023

The Principal Director of Audit (Infrastructure) in the audit observed that the applicability of GST in preparing analysis of rate is not in consonance with the Section 15 of the GST Act as well as Manual for procurement of works. Considering the Audit observation and after consultations with Tax Research unit of the Ministry of Finance and advice tendered by Department of Legal Affairs (DoLA), it is hereby decided to adopt the following Modified Analysis of Rate of items with immediate effect:

A. Analysis of Rate of items

Existing Analysis of rate in DAR-2023			Modified Analysis of rate in DAR-2023	
1	Bare rate (without GST) of Material, Labour, Sundries POL and T&P etc.	"W"	Bare rate (without GST) of Material, Labour, Sundries POL and T&P etc.	"W"
2	Add 1% water charges	"A"	Add 1% water charges	"A"
3	Sum after adding water charges @ 1% on "W"	"WC"=(W+A)	Sum after adding water charges @ 1%	"WC"=(W+A)
4	Add 18% GST applicable on work contract, by reversible calculation method (multiplying factor 0.2127) on "A"	"B" = (0.2127*WC)	Add 15% CP & OH on "WC"	"P"=(0.15*WC)"
5	Sum after adding	"X"	Sum after adding 15% CP&OH	"Q" = (WC+P)
6	Add 15% CP & OH on "X"	C=(WC+B)	Add labour cess @ 1% on "Q"	"R"=0.01xQ
7	Sum after adding 15% CP&OH on "X"	"Y"	Sum after adding 1% labour cess	"S" = (Q+R)
8	Add labour cess @ 1% on "Y"	"D"	Add GST @ 18% on "S"	"T"=0.18xS
9	Gross total after adding 1% labour cess "Z"	Z=Y+D	Gross Total after adding GST	"U" = (S+T)

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

The rate of items in DSR 2023 / DAR 2023 / ERP module shall be modified in due course of time as per modified provisions as illustrated above. By the time, the Modified rates of DSR items can be calculated by multiplying correction factor of 0.973 to the existing rate. The illustration-I & II are attached for applying the correction factor in analysis of rates and estimates.

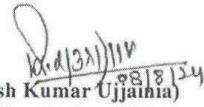
B. Deduction of TDS for GST & Labour Welfare Cess:

The tendered value of work quoted by the agencies includes GST on account of work contract and labour welfare cess (LWC). The procedure for deduction of TDS on work contract for GST & deduction of Labour welfare Cess may be followed as follows:

1	The total value of gross work done (including GST & LWC)	'U'	₹ 100.00
2	TDS to be deducted on Amount (S)	U/1.18 =S	₹ 84.75
3	Labour welfare cess to be deducted (Q)	S/1.01=Q	₹ 83.91

This OM will supersede the OM No. DG/SE/GST/16 issued vide No. 158/GST/SE (TAS)/CPWD/2018/88 dated 28.05.2018. The

This issues with the approval of DG, CPWD.


 (Dinesh Kumar Ujjainia)
 Superintending Engineer (TAS)

File No. 158/SE (TAS)/GST/2024/ 02-E

Date: 08/08/2024

To (Through CPWD Website)

All officers of CPWD and PWD Delhi

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

Schedule of Quantity (Civil Work)

Name of Work : C/o Tin shade PM Shri Kendriya Vidyalay at BSF campus Dabla Jaisalmer, Distt. Jaisalmer.

It.No	Description	Qty	Unit	Rate	Amount
1	EARTH WORK				
1.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
1.1.1	All kinds of soil.	183	cum	260.30	47634.90
1.2	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.				
1.2.1	Ordinary rock	156	cum	632.95	98740.20
1.3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lif.	183	cum	196.00	35868.00
2	CEMENT CONCRETE (CAST IN SITU)				
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
2.1.1	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	20	cum	6518.60	130372.00
2.2	Centering and shuttering including strutting, propping etc. and removal of form work for :				
2.2.1	Foundations, footings, bases for columns	41	sqm	392.15	16078.15
3	REINFORCED CEMENT CONCRETE				
3.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

3.1.1	1:1.5:3(1 cement: 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	54	cum	9045.75	488470.50
3.2	Centering and shuttering including strutting, propping etc. and removal of form for				
3.2.1	Foundations, footings, bases of columns, etc. for mass concrete	58	sqm	392.15	22744.70
3.2.2	Lintels, beams, plinth beams, girders, bressumers and cantilevers	89	sqm	736.40	65539.60
3.2.3	Columns, Pillars, Piers, Abutments, Posts and Struts	66	sqm	961.30	63445.80
3.3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
3.3.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	6008	kg	107.85	647962.80
4	STEEL WORK				
4.1	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	3372	kg	133.70	450836.40
4.2	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
4.2.1	Hot finished welded type tubes	16884	kg	194.40	3282249.60
5	ROOFING				

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

5.1	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-Charge) of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05mm) with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	674	sqm	738.65	497850.10
5.2	Providing and fixing precoated galvanised steel sheet roofing accessories of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) with Zinc coating 120 gram per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :				
5.2.1	Ridges plain (500 - 600mm)	33	metre	532.35	17567.55
6	FINISHING				
6.1	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
6.1.1	Two or more coats on new work	600	sqm	155.90	93540.00
7.0	ROAD WORK				
7.1	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	576	sqm	131.75	75888.00
7.2	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost).	576	sqm	402.95	232099.20
	Total				6266887.50
	Modified Estimated Cost after using correction factor on DSR 2023 on account of GST @ 0.973				6097682.00

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer

Price – Bid

Central Public Works Department

NIT No. : 10/EE/Jaisalmer/2026-27

NAME OF WORK : C/o Tin shade PM Shri Kendriya Vidyalay at BSF campus Dabla
Jaisalmer, Distt. Jaisalmer.

SCHEDULE OF QUANTITY

Name of the Contractor :

S.No	Name of Component	Estimated Cost	Percentage above or below the estimate cost.	% in Figures	Total Cost
1.	Civil Component	6097682.00			
	Total	6097682.00			

C	NIL
I	NIL
O	NIL

AE (P)

EE Jaisalmer