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**NAME OF WORK: - Carryout Interior Furnishing work at CIPET, Korba (C.G)
(Recall)**

NIT No. 01/SE/BSP/CPWD/2026-27

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This NIT contains 171 pages and is hereby approved for **Rs. 2,19,22,196/- (Rs. Two Crore Nineteen lakh twenty-two thousand one hundred ninety-six only).**

**Superintending Engineer
Bilaspur Circle, CPWD, Bilaspur**



WEB NOTICE

**CENTRAL PUBLIC WORKS DEPARTMENT
NOTICE INVITING TENDER**

The Executive Engineer, Bilaspur Project, Central Public Works Department, Bilaspur on behalf of President of India invites online percentage rate bids from approved and eligible contractors of CPWD enlisted in appropriate class in Building and Roads category for the following work(s): -

**NAME OF WORK: - Carryout Interior Furnishing work at CIPET, Korba (C.G)
(Recall)**

NIT No. 01/SE/BSP/CPWD/2026-27

Estimated Cost - Rs. 2,19,22,196/-

(Civil Rs. 1,67,47,768/- + Elect. Rs. 51,74,428/-)

Earnest Money: Rs. 4,38,444/-

Period of completion: -04 (Four)Months.

**Last time and date of submission of bid at 3.00 PM on 21.08.2026 and opening
of bid 3.30 PM on 21.08.2026**

The bid forms and other details can be obtained from the Website www.cpwd.gov.in

**Executive Engineer
Bilaspur Project
CPWD, Bilaspur**



PART – A: GENERAL INFORMATION



**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-
TENDERING**

The **Executive Engineer, Bilaspur Project, Central Public Works Department, Bilaspur** on behalf of President of India invites online **Percentage rate** bids from approved and eligible contractors of CPWD enlisted in appropriate class in Building and Roads category for the following work(s):

Sl. No.	NIT No.	Name of Work & location	Estimated cost put to bid	Earnest Money	Stipulated Period of Completion of work (in months)	Last date & time of online submission of bid i/copy of original EMD, copy of receipt of deposition of original EMD and other Documents as specified in the bid document	Time & date of opening of bid
1	01/SE/BSP/CPWD/2026-27	Carryout Interior Furnishing work at CIPET, Korba (C.G) (Recall)	Rs. 2,19,22,196/- (Civil Rs. 1,67,47,768/- + Elect. Rs. 51,74,428/-)	Rs.4,38,444/-	04 (Four) Months	21.08.2026 at 3.00 P.M.	21.08.2026 at 3.30 P.M.

____ ** ____ Blanks to be filled by EE

AE (P)

Correction/Addition/ Omission/ Deletion Nil



1. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
2. Information and Instructions for bidders posted on website shall form part of bid document.
3. The bid document consisting of plans, specifications, the schedule of quantities of various types of work to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website **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 Receipt or/and Bank guarantee (for balance amount as prescribed) from any of the commercial bank towards EMD in favor 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 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 competition bid sheets.
8. Contractors 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 color and the moment rate is entered; it turns sky blue.

In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "o". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "o" (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. Time is the essence of the contract.

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

- I. Insurance surety bond, Demand Draft/Account Payee Bankers Cheque/FDR/Bank Guarantee of any commercial bank against EMD.
- II. Enlistment Order of the Contractor.
- 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 other bid documents. *“If work is awarded to me, I/We shall obtain GST registration Certificate as applicable, within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, falling which, I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by CPWD or GST department in this regard.”*
- IV. Copy of receipt for deposition of original EMD to Division office of any Executive Engineer (including NIT issuing EE/AE) of CPWD.
- V. PAN card issued by Income Tax Department.
- VI. Format for Undertaking for site inspection **(As per NIT page no. 07)**

If the above-mentioned documents are not scanned and uploaded or are wrongly uploaded within the period of bid submission the bid shall be treated as invalid and shall be cancelled.

Document to be submitted after acceptance:

- I. Licenses / Registrations or proof of applying for Labour licenses, registration with EPFO, ESIC & BOCW welfare Board.
- II. Willingness certificate from concerned competent electrical contractor if required.



FORMAT FOR UNDERTAKING FOR SITE INSPECTION

To,

The Executive Engineer
Bilaspur Project
CPWD, Bilaspur (C.G.)

I/we hereby give an undertaking for the given work as follows: –

NIT No. 01/SE/BSP/CPWD/2026-27

**Name of Work: - Carryout Interior Furnishing work at CIPET, Korba (C.G)
(Recall)**

I/we have inspected and examined the site and its surroundings and are satisfied before submitting our bid as to the nature of the interior furnishing work, the form and nature of the site, the means of access to the site, the accommodation I/we may require and in general shall myself / ourselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect our bid. I/we shall be deemed to have full knowledge of the site whether I/we inspect it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. I/we shall be responsible for arranging and maintaining at our 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 I/we imply(s) that I/we have read this notice and all other contract documents and has made myself / ourself 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 us by the Government and local conditions and other factors having a bearing on the execution of the work.

Place:

Date:

Yours faithfully

[Signature of
Bidder(s)]

To be duly certified by **CIPET authority Korba and Assistant Engineer, CPWD.**

If the above-mentioned documents are not scanned and uploaded or are wrongly uploaded within the period of bid submission, the bid shall be treated as invalid and shall be cancelled.

AE (P)

Correction/Addition/ Omission/ Deletion Nil



CPWD – 6

Online Percentage rate composite bids are invited by Executive Engineer, Bilaspur Project, CPWD, Bilaspur on behalf of President of India from approved and eligible contractors of CPWD enlisted in appropriate class in Building & Roads category for the work of “**Carryout Interior Furnishing work at CIPET, Korba (C.G)**” (Recall) The enlistment of the contractors should be valid on the last date of submission of bids. In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.

- 1.1. The work is estimated to cost **Rs. 2,19,22,196/- (Civil Rs. 1,67,47,768/- + Elect. Rs. 51,74,428/-)** This estimate, however, is given merely as a rough guide.

- 1.1.1. The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids. For composite bid, besides indicating the combined estimated cost put to bid, should clearly indicate the estimated cost of each component separately. The bidders will correspond to the combined estimated cost of different components put to bid.

2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 7 which is available as a Govt. of India Publication and also available on website **www.cpwd.gov.in**. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **04 (Four) Months** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. (i) The site for the work is available.
(ii) The architectural ~~and structural~~ drawing for the work is available.

OR

The architectural ~~and structural~~ drawings shall be made available as per schedule (A to F) in phased manner, as per requirement of the same as per approved programmed of completion submitted by the contractor after award of work.

5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the



- contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website www.cpwd.gov.in free of cost.
6. After submission of the bid the contractor can re-submit/revise the bid any number of times but before last time and date of submission of bid as notified.
 7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
 8. Earnest Money in the form of Insurance Surety Bonds/ Account Payee Demand Draft or Bankers Cheque or Fixed Deposit Receipt or/and Bank guarantee (for balance amount as prescribed) from any of the commercial bank towards EMD in favor of **Executive Engineer, Bilaspur Central Division, CPWD, Bilaspur** shall be scanned and uploaded to the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format uploaded by tender inviting EE in the NIT. This receipt shall also be uploaded to the e-tendering website by the intending bidder up to the specified bid submission date and time.

A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 lakhs, 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 tenderers except the lowest tenderer shall be refunded immediately after the expiry of stipulated bid validity period or immediately after acceptance of 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 specified in notice inviting e - tender shall be scanned and uploaded to the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder within a week physically in the office of tender opening



authority. Online bid documents submitted by intending bidders shall be opened only to 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 3.30 PM on 21.08.2026**

9. The bid submitted shall become invalid and e-Tender processing fee (if applicable) shall not be refunded if:
 - 9.1. The bidder is found ineligible.
 - 9.2. Bidder does not upload scanned copies of all documents stipulated in the bid document.
 - 9.3. 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.
 - 9.4. If a tenderer quotes nil rates against each time in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section/sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
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. This guarantee shall be in the form of Insurance Surety Bond, Account payee demand draft, Fixed Deposit Receipt or Bank Guarantee from any of the commercial banks in **accordance with the prescribed form**. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. if applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work and program chart (Time and Progress) within the period specified in Schedule F.



The description of the work is as follows: - Carryout Interior Furnishing work at CIPET, Korba (C.G) (Recall)

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

11. 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 conditions are not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
12. 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.
13. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
14. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Gazetted Officer in the Central Public Works Department or in



the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

15. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
16. The bid for the works shall remain open for acceptance for a period of Thirty (30) days from the date of opening of bid. Further,
 - 16.1. 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.
 - 16.2. If any tenderer withdraws his tender or makes any modification in the terms and condition 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.
 - 16.3. In case of forfeiture of earnest money as prescribed in para 17.1 and 17.2 above, the bidders shall not be allowed to participate in the rebidding process of the same work.
17. This notice inviting Bid shall form a part of the contract document. The successful bidders/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of: -
 - 17.1. 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.
 - 17.2. Standard C.P.W.D. Form 7 or other Standard C.P.W.D. Form as applicable.



18. For Composite Bids: -

- 18.1. 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.
- 18.2. The bid document will include following three components:
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 2020 (Construction) as amended/modified up to last date of submission of bid.
Part B : -General / specific conditions, specifications and schedule of quantities applicable to major components of the work.
Part C : -Schedule A to F for minor component of the work. (SE/EE in charge of major components shall also be competent authority under clause 2 and clause 5 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.
- 18.3. The bidders must associate himself, with agencies as per NIT conditions.
- 18.4. The eligible bidders shall quote rates for all items of major component as well as for all items of minor components of work.
- 18.5. 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 in charge of major component and has also to sign two or more copies of agreement depending upon number of EE's/DDH in charge of minor components. One such signed set of agreement shall be handed over to EE/DDH in charge of minor component(s). EE of major component will operate Part A and Part B of the agreement. EE/DDH in charge of minor component(s) shall operate Part C along with Part A of the agreement.
- 18.6. Entire work under the scope of composite bid including major and all minor components shall be executed under one agreement.
- 18.7. Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.
- 18.8. The main contractor has to associate agency(s) for specialized component(s) conforming to eligibility criteria as defined in the bid document and must 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).



- 18.9. 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.
- 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 change the agency executing such items of work and this shall be binding on the contractor.
- 18.10. 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 has to enter into MoU/agreement with the new contractor associated with him.
- 18.11. 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 components directly to the main contractor. The CMB shall be maintained independently by Engineer-in-charge of major and minor components.
- 18.12. (A) 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.
- (B) 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.
19. The intending bidders are required to update their profile in CPWD e-tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile/uploading tender can be resolved through concerned Executive Engineer/Assistant Engineer (Phone no. 07753-252552, Email id- [ee-cpwwbsp.cg@gov.in] or ERP helpline no 18001803286 or email id cpwd.support@techmahindra.com). The e-tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest.

**Executive Engineer
Bilaspur Project
CPWD, Bilaspur**



FORM OF BANK GUARANTEE FOR EMD/PG/SD/MOBILIZATION
ADVANCE

On non-judicial stamp paper of minimum Rs.100
(Guarantee offered by Bank to CPWD in connection with the execution of contracts)

Whereas the Executive Engineer, Bilaspur Project, CPWD, Bilaspur on behalf of the President of India (hereinafter called "The Government") has invited bids under **NIT No. 01/SE/BSP/CPWD/2026-27** for **"Carryout Interior Furnishing work at CIPET, Korba (C.G) (Recall)**

The Government has further agreed to accept irrevocable Bank Guarantee for Rs..... (Rupees..... Only) valid up to..... (date)* As Earnest Money Deposit from..... (Name and address of contractor) (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, Bilaspur Project, CPWD, Bilaspur on behalf of the President of India (hereinafter called "The Government") has invited bids under **NIT No. 01/SE/BSP/CPWD/2026-27** for **Carryout Interior Furnishing work at CIPET, Korba (C.G) (Recall)**

The Government has further agreed to accept irrevocable Bank Guarantee for Rs..... (Rupees..... Only) valid up to.... (Date)* as Performance Guarantee/security Deposit/Mobilization Advance from..... (Name and address of contractor) (hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

1. We..... (Hereinafter referred to as "the Bank") hereby undertake to pay to the Government an amount not exceeding Rs..... (Rupees..... only) on demand by the Government within 10 days of the demand.
2. We, (indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from the Government stating that the amount claimed as required to meet the recoveries due or likely to be due from the said contractor(s).



Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (Rupees only)

3. We, (indicate the name of the bank), further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.
4. We, (indicate the name of the Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in- Charge on behalf of the Government certified that the terms and conditions of the said agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.
5. We, (indicate the name of the Bank)....., further agree with the Government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).
7. We, (indicate the name of the Bank) undertake not to revoke this guarantee except with the consent of the Government in writing.



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

9.

Date

Authorized Signatory

Name

Designation

Staff code no.

Bank Seal

Witnesses:

1. Signature

Name and address

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.



RECEIPT OF DEPOSITION OF ORIGINAL EMD

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

**NAME OF WORK: - Carryout Interior Furnishing work at CIPET, Korba (C.G)
(Recall)**

NIT No. 01/SE/BSP/CPWD/2026-27

1. Estimated Cost: - **Rs. 2,19,22,196/-**
(Civil Rs. 1,67,47,768/- + Elect. Rs. 51,74,428/-)
2. Amount of Earnest Money Deposit: - **Rs. 4,38,444/-**
3. Last date of submission of bid: - **21.08.2026 at 3.00 P.M.**
4. Name of contractor: -#
5. Form of EMD: -#
6. Amount of Earnest money deposit#
7. Date of submission of EMD#

(#to be filled by EMD receiving EE)

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



CPWD – 7

PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

Tender for the work of **Carryout Interior Furnishing work at CIPET, Korba (C.G)**

NIT No. 01/SE/BSP/CPWD/2026-27

To be submitted/ uploaded by **3.00PM on 21.08.2026** to the Executive Engineer, Bilaspur Project, CPWD, Bilaspur uploaded at **www.cpwd.gov.in**

- (1) To be opened in presence of tenderers who may be present at **3.30 PM on 21.08.2026** in the office of the Executive Engineer, Bilaspur Project, CPWD, Bilaspur.

TENDER

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

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

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

A sum of **Rs. 4,38,444/-** is hereby forwarded in treasury challan/deposit at call receipt of a scheduled bank/fixed deposit receipt of scheduled bank/demand draft of a scheduled bank/bank guarantee issued by a scheduled bank as earnest money. A copy of earnest money issued by a scheduled bank is scanned and uploaded. If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said

AE (P)

Correction/Addition/ Omission/ Deletion Nil



President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that President of India

or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely.

The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

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

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

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

Dated :

Witness :

(Signature of Contractor)

(Postal Address)

Address :

Occupation :

____ ** ____ Blanks to be filled by EE

AE (P)

Correction/Addition/ Omission/ Deletion Nil



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 _____ (Rupees _____ [in words])

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

(a)

_____ ** _____
_____ .

(b)

_____ ** _____
_____ .

(c)

_____ ** _____
_____ .

For & on behalf of the President of India

Signatures : _____ ** _____

Dated : _____ ** _____ / _____ ** _____ / 20 _____ ** _____

Designation : _____ ** _____

_____ ** _____ Blanks to be filled by EE



PROFORMA OF SCHEDULES (A to F)

(Separate Performa for Civil, Elect. & Hort. Works in case of Composite Tenders)

SCHEDULE 'A':

Schedule of quantities (as per PWD-3) : For Civil work: **-Page no. 81 to 93**

SCHEDULE 'D' :

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

SCHEDULE 'E' :

Reference to General : GCC Maintenance Works – 2023, & correction upto
Conditions of contract. DG/CON/Maintenance 2023/19 dated 25-03-2026.

NAME OF WORK : **Carryout Interior Furnishing work at CIPET,
Korba (C.G) (Recall)**

Estimated cost of work : **Rs. 2,19,22,196/-
(Civil Rs. 1,67,47,768/- + Elect. Rs. 51,74,428/-)**

Earnest money : **Rs. 4,38,444/-**

Performance Guarantee : Refer Page 150-151 O.M. no. DG/CON/Maintenance
2023/18 dated 27.02.2026

Security Deposit : 2.5 % of tendered value

SCHEDULE 'F' :

GENERAL RULES & DIRECTIONS :

1. Officer inviting tender : **Executive Engineer, Bilaspur
Project, CPWD, Bilaspur**
2. Maximum percentage for quantity of : See below
items of work to be executed beyond
which rates are to be determined in
accordance with Clauses 12.2 & 12.3



3. Definitions :

- 2(vi) Engineer-in-Charge : **Executive Engineer, Bilaspur Project, CPWD, Bilaspur or successor thereof**
- 2 (viii) Accepting Authority : **Superintending Engineer, CPWD, Bilaspur or successor thereof**
- 2 (x) Percentage on cost of materials and labour to cover all overheads and profits : 15%
- 2 (x)(a) Standard Schedule of Rates : DSR 2023 rates updated with enhanced Cost Index and Market Rates.
- 2 (xi) Department : Central Public Works Department
- 9 (ii) Standard CPWD contract : GCC Maintenance Works – 2023, & Form GCC 2020, CPWD correction upto DG/CON/Maintenance Form 7/ 8 as modified & 2023/19 dated 25-03-2026. corrected upto

Clause 1 :

- (i) Time allowed for submission of Performance Guarantee, : 7 Days
Programme Chart (Time and Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board or Proof of applying thereof from the date of issue of letter of acceptance.
- (ii) Maximum allowable extension with late fee @ 0.1% per day of : 3 Days
Performance Guarantee amount beyond the period provided in (i) above

Clause 2 :

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

**Clause 2A :**

Applicable clause 2/ Clause : Clause 2

2A

Clause 5

Number of days from the date of issue of letter of : 10 Days

acceptance for reckoning date of start

Schedule of handing over of site

Part	Portion of site	Description	Time period for handing over reckoned from date of issue of letter of intent.
Part A	Portion without any hindrance	Full site is available	7 Days

Table of Mile stone(s)

Sl. No	Description of Mile stone (Financial)	Time allowed from date of start (Month)	Amount to be withheld in case of non-achievement of milestone
1.	25% of tendered value	1 month	0.75% of accepted tendered amount
1	50% of tendered value	2 months	1.25% of accepted tendered amount
2	75% of tendered value	3 months	1.5% of accepted tendered amount
3	100% of tendered value	4 months	1.5% of accepted tendered amount

Time allowed for execution of work: **04 (Four) Months**

(i)	Authority to convey the decision of shifting of milestone and extension of time.	Executive Engineer, Bilaspur Project, CPWD, Bilaspur or successor thereof.
-----	--	--



(ii)	Authority to decide rescheduling of mile stones and extension of time.	Superintending Engineer, Bilaspur, CPWD, Bilaspur or successor thereof.
(iii)	Authority to decide shifting of date of start in case of delay in handing over of site	Superintending Engineer, Bilaspur, CPWD, Bilaspur or successor thereof.

Clause 6

(i) Mode of Measurement : Electronics Measurement Book (EMB)/CMB

Clause 7

Gross work to be done together with net : Rs. 42.00 lakhs
payment/adjustment of advances for material collected,
if any, since the last such payment for being eligible to
interim payment

Clause 7A

Whether Clause 7A shall be : Yes
applicable

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

Clause 8A

Authority to decide compensation on account if : Superintending Engineer or
contractor fails to submit completion plans his successor thereof.

Clause 10A

List of testing equipment to be provided : **As per NIT page- 63 to**
by the contractor at site lab **76**

Clause 10B (ii)

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

Clause 10C (Applicable in only those contracts where clause 10CC is not applicable of labour)



Component of labour expressed as : Not applicable
percent of value of work:

Clause 10CC : Not applicable

Clause 11

Specifications to be followed : Civil work: CPWD Specifications 2019 Volume –
for execution of work I & II with corrections slips up to last date of
submission of bid and relevant IS code for
furniture and its component.

Clause 12

Authority to decide deviation upto 1.5 : Superintending Engineer
time of tendered amount

12.2 (c)	Deviation limit beyond which clauses 12.2 (c) shall apply for building work	No Limit
	(i) Deviation limit beyond which clauses 12.2(c) shall apply for foundation work (except items mentioned in earth work subhead in DSR related items)	
	(ii) Deviation limit for items mentioned in earth work subhead of DSR and related items	

Clause 16

Competent Authority for deciding : Superintending Engineer, Bilaspur,
reduced rates CPWD, Bilaspur or successor thereof.

Clause 18:

List of mandatory machinery, tools & : **As per NIT Page No. 51**
plants to be deployed by the
contractor at site:

Clause 19C: Superintending Engineer, Bilaspur to decide penalty for each default.



Clause 19D: Superintending Engineer, Bilaspur to decide penalty for each default.

Clause 19G: Superintending Engineer, Bilaspur to decide penalty for each default.

Clause 19K: Not applicable.

Clause 25

As per O.M. No. DG/CON/317 dated 28.06.2021

Conciliator : Additional Director General (RBH)

Arbitrator Appointing Authority : SE, CPWD, Bilaspur

Place of Arbitration : Bilaspur

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

Sl. No.	Requirement of Technical Staff		Minimum Experience (Year)	Designation Technical Staff	Rate at which recovery shall be made from the contractor in the event of not fulfilling
	Qualification	Number (of Major + Minor Component)			
1.	Graduate Engineer or Diploma Engineer	1+1	2 or 5 years Respectively	Project Manager cum Planning/quality/ Site Billing Engineer	Rs.15,000/- per Month per Person

Clause 38

(i)	(a)	Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2023 printed by CPWD.	
(ii)	Variations permissible on theoretical quantities:		
	(a)	Cement	
		For works with estimated cost put to tender not more than Rs.25 lakh.	Not Applicable
		Works with estimated cost put to tender more than Rs.25 lakh.	2% plus/minus



	(b)	Bitumen All Works	2.5% plus & only & nil on minus side.
	(c)	Steel Reinforcement and structural steel sections for each diameter, section and category	2% plus/minus
	(d)	All other materials	Nil



**PROFORMA FOR ENCASHMENT OF BG TO BE ISSUED 14 DAYS
BEFORE ITS EXPIRY**

To

The Manager

.... (Name and address of bank)

.....

.....

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

Name of contractor:

Dear Sir,

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

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



Enclosure: Bank Guarantee

Yours faithfully,

Name of Executive Engineer

.....Division, CPWD

..... Landline number

.....Mobile number

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

Executive Engineer



PROFORMA FOR EXTENSION OF BG TO BE ISSUED 30 DAYS
BEFORE ITS EXPIRY

To

.... (Name and address of contractor)

.....

.....

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

Name of Work

.....

Agreement Number

Dear Sir,

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

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

AE (P)

Correction/Addition/ Omission/ Deletion Nil



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

Yours faithfully,

Executive Engineer
Bilaspur Project,
CPWD Bilaspur

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



PART –B :CIVIL WORKS



SPECIAL CONDITIONS

1. The Contractor shall, if required by him, before submission of the tender, inspect the drawings in the Office of the Engineer-in-Charge. The Department shall not bear any responsibility for the lack of knowledge and the consequences, thereof to the Contractor. The information and data shown in the drawings and mentioned in the tender documents have been furnished, in good faith, for general information and guidance only. The Engineer-in-Charge, in no case, shall be held responsible for the accuracy thereof and / or interpretations or conclusions drawn there from by the Contractor and all consequences shall be borne by the Contractor. No claim, whatsoever, shall be entertained from the Contractor, if the data or information furnished in tender document is different or in-correct otherwise or actual working drawings are at variance with the drawings available for inspection or attached to the tender documents. It is presumed that the Contractor shall satisfy himself for all possible contingencies, incidental charges, wastages, bottlenecks etc. likely during execution of work and acts of coordination, which may be required between different agencies. Nothing extra shall be payable on this account.
2. Unless otherwise specified in the schedule of quantities, the rates of all items of work shall be considered as inclusive of executing all work, wherever required, in or under water and / or liquid mud, including bailing out water encountered from any source such as rain, floods, tides ingress of water through pressure relieving sleeves left during PCC at base, sub- soil water table being high and / or any other source whatever. During entire execution of work, the contractor shall carry out dewatering (at his own cost), as and when required or specified herein. Nothing extra shall be payable on this account.
3. The nomenclature of the item given in the schedule of quantities gives in general the work content but is not exhaustive, i.e. does not mention all the incidental works required to be carried out for complete execution of the item of work. The work shall be carried out, all in accordance with true intent and meaning of the specifications and the drawings taken together, regardless of whether the same may or may not be particularly shown on the drawings and / or described in the specifications, provided that the same can be reasonably inferred there from. There may be several incidental works, which are not mentioned in the nomenclature of each item but will be necessary to complete the item in all respects. All these incidental works / costs which are not mentioned in item



nomenclature but are necessary to complete the item shall be deemed to have been included in the rates quoted by the contractor for various items in the schedule of quantities. No adjustment of rates shall be made for any variation in quantum of incidental works due to variation / change in actual working drawings.

Also, no adjustment of rates shall be made due to any change in incidental works or any other deviation in such element of work (which are incidental to the items of work and are necessary to complete such items in all respects) on account of the directions of Engineer-in-Charge. Nothing extra shall be payable on this account.

4. Unless otherwise provided in the Schedule of Quantities, the rates quoted by the Contractor shall be inclusive of carrying out the works at and / or upto all heights, lifts, leads and depths. The contractor shall make all arrangements for the same. Nothing extra shall be payable on this account.

5. Accommodation for labour huts, site offices, stores, installation of batching plant etc. will be given at site as per availability only. In case space is not available at the site of work contractor shall make his own arrangements to provide such accommodation as per the rules of the local bodies. He shall make his own arrangements for stores, field office etc. Before tendering, he shall visit the site and assess the manner in which he is able to arrange the above facilities. The Engineer-in-Charge shall in no way be responsible for any delay on this account and no claim whatsoever, on this account shall be entertained. Nothing extra shall be payable on this account.

6. SUBMISSIONS IMMEDIATELY AFTER AWARD OF WORK:

The Contractor shall submit the following details immediately after award of work.

- i. List of Equipment's proposed to be deployed for this work.
- ii. Site organization chart with Biodata of Project Manager and Key Personnel proposed to be deployed at site.
- iii. A certified copy of Power of Attorney in the name of person who has signed the tender document.
- iv. The details of shuttering and scaffolding material proposed to be used to complete the entire R.C.C structural work commensurate with overall stipulated period for completion of work.

- (a) The contractor shall prepare and submit a tentative integrated Bar Chart (for Civil and E & M services) clearly indicating the various activities, in a manner to complete the entire work covered under this tender within the stipulated period.



7. The Contractor shall keep himself fully informed of all acts and laws of the Central & State Governments, all 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. The contractor shall adhere to, all the rules & regulations and byelaws laid down by local Bodies and any other statutory bodies, during the execution of work. The Contractor shall also adhere to all traffic restrictions notified by the local authorities. All statutory taxes, levies, charges (including water and sewerage charges, charges for temporary service connections and / or any other charges) payable to such authorities for carrying out the work, shall be borne by the Contractor. The Contractor shall arrange to give all notices as required by any statutory / regulatory authority and shall pay to such authority all the fees that is required to be paid for the execution of work. He shall protect and indemnify the Department and its officials & employees against any claim and /or liability arising out of violations of any such laws, ordinances, orders, decrees, by himself or by his employees or his authorized representatives. Nothing extra shall be payable on these accounts. The fee payable to statutory authorities for obtaining the various permanent service connections and Occupancy Certificate for the building shall be borne by the Department.
8. Royalty at the prevalent rates shall be paid by the Contractor or the RMC supplier as per the terms of supply between them on all materials such as boulders, metals, sand and bajri etc. collected by him for the execution of the work, directly to the revenue authority of the state government concerned. Nothing extra shall be payable on this account.
9. No foreign exchange shall be made available by the Department for importing (purchase) 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.
10. The Contractor shall assume all liability, financial or otherwise in connection with this contract and shall protect and indemnify the Department from any and all damages and claims that may arise on any account. The Contractor shall indemnify the Department against all claims in respect of patent rights, royalties, design, trademarks of name or other protected rights, damages to adjacent buildings, roads or members of public, in course of execution of work or any other reasons whatsoever, and shall himself defend all actions arising from such claims



and shall indemnify the Department in all respect from such actions, costs and expenses. Nothing extra shall be payable on this account.

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

12. **INTEGRATED SERVICE DRAWINGS:** The contractor shall prepare following drawings for various civil and electrical services showing details of lay out plan including sectional elevations and submit the same for the approval of Engineer-in-Charge.

- i. As built drawing indicating partition wall, furniture layout.
- ii. Layout of conduits, switchboard, Distribution boxes etc.

Subsequently Integrated drawings shall be prepared and submitted by the Contractor as per local Byelaws and as per the site conditions to facilitate convenient installation as well as maintenance. Nothing extra shall be payable on this account.

13. **PROTECTIVE / SAFETY MEASURES:**

- i. Necessary protective and safety equipments shall be provided to the Site Engineer, workers & Supervisory staff by the Contractor at his own cost and used at site.
- ii. The Contractor shall do proper sequencing of the various activities by suitably staggering the activities within various pockets in the plot so as to achieve early completion. The agency may deploy adequate equipments, machinery and labour as required for the completion of the entire work within the stipulated period specified. Also, ancillary facilities shall be provided commensurate with requirements to complete the entire work within the stipulated period. Nothing extra shall be payable on this account. Adequate number/set of equipments in working condition, along with adequate stand-by arrangements, shall be deployed during entire construction period. It shall be ensured by the Contractor that all the equipments, Tools & Plants, machineries etc. provided by him are maintained in proper working conditions at all times during the progress



of the work and till the completion of the work. Further, all the constructional tools, plants, equipments and machinery provided by the Contractor, on site of work or his work shop for this work, shall be exclusively intended for use in the construction of this work and they shall not be shifted / removed from site without the permission of the Engineer-in-Charge.

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

15. **REMOVAL OF 'MULBA' ETC. FROM SITE:** The Contractor shall not stack building material / malba / muck on any other land outside site barricading. 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 the Contractor shall obtain regulations of the concerned authorities and all necessary permissions in this

regard from the local bodies. Nothing extra shall be payable on this account. The contractor shall be liable to pay any charges/penalties as may be levied by local bodies. 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.

16. **TOOLS AND PLANTS:** The Department shall supply no tools and plants including any special T&P etc. and the Contractor shall have to make his own arrangements at his own cost. No claim of hindrance (or any other claim) shall be entertained on this account.

17. **COORDINATION WITH OTHER AGENCIES:** The Contractor shall conduct his work so as not to interfere with or hinder the progress of the work being performed by other Contractors or by the Engineer-in-Charge. As far as possible, he shall arrange his work and place, so as not to interfere with the operations of other Contractors or shall arrange his work with that of the others, in an acceptable and coordinated manner and shall perform it in proper sequence.

18. **FACILITIES BY THE CONTRACTOR TO THE OTHER CONTRACTORS / AGENCIES:** The Contractor shall cooperate with and provide the facilities to



the sub-Contractors and other agencies working at site for smooth execution of the work. The Contractor shall –

- i. Allow use of scaffolding, toilets, sheds etc.
 - ii. Properly co-ordinate their work with the work of other Contractors.
 - iii. Provide control lines and benchmarks to his Sub-Contractors and the other Contractors.
 - iv. Provide electricity and water at mutually agreed rates.
 - v. Provide hoist and crane facilities for lifting material.
 - vi. Co-ordinate with other Contractors for leaving inserts, making chases, alignment of services etc. at site.
 - vii. Adjust work schedule and site activities in consultation with the Engineer-in-Charge and other Contractors to suit the overall schedule completion.
 - viii. Resolve the disputes with other Contractor amicably and the Engineer-in-Charge shall not be made intermediary or arbitrator. The contractor shall indemnify the Department against any claim(s) arising out of such disputes.
19. 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 wastewater, 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.
20. **PREVENTION OF NUISANCE AND POLLUTION:** The Contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupants of the adjacent properties and to the public in general. The Contractor shall take all care, as not to damage any other adjacent property or other services running adjacent to the plot. If any damage is done, the same shall be made good by the Contractor at his own cost and to the entire satisfaction of the Engineer-in-Charge. The Contractor shall use such methodology and equipments for execution of the work, so as to cause minimum environmental pollution of any kind during construction, to have minimum construction time and minimum inconvenience to road users and to the occupants



of the buildings on the adjacent plot and public in general, etc. He shall make good at his own cost and to the entire satisfaction of the Engineer in Charge any damage to roads, paths, cross drainage works or public or private property whatsoever caused, due to the execution of the work or by traffic brought thereon, by the Contractor. Further, the Contractor shall take all precautions to prevent any pollution of streams and waterways. All waste or superfluous materials shall be carted away by the Contractor, entirely to the satisfaction of the Engineer-in-Charge. Utmost care shall be taken to keep the noise level to the barest minimum so that no disturbance as far as possible is caused to the occupants / users of adjoining buildings. No claim whatsoever on account of site constraints mentioned above or any other site constraints not specifically stated here, shall be entertained from the Contractor. Therefore, the Contractors are advised to visit site and get first-hand information of site constraints. Accordingly, they should quote their tenders. Nothing extra shall be payable on this account.

21. **SCAFFOLDING:** 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.
22. The Contractor shall maintain all the work in good condition till the completion of entire work. The Contractor shall be responsible for and shall make good, all damages and repairs, rendered necessary due to fire, rain, traffic, floods or any other causes. The Engineer-in-Charge shall not be responsible for any claims for injuries to person/workmen or for structural damage to property happening from any neglect, default, want of proper care or misconduct on the part of the Contractor or of any other of his representatives, in his employment during the execution of the work. The compensation, if any, shall be paid directly to the Department / authority / persons concerned, by the Contractor at his own cost.
23. 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.
24. In case of flooding of site on account of rain or any other cause and any consequent damage, whatsoever, no claim financially or otherwise shall be entertained not to withstand any other provisions elsewhere in the contract agreement. Also, the Contractor shall make good, at his own cost, the damages caused, if any.
25. The Contractor shall render all help and assistance in documenting the total sequences of this project by way of photography, slides, audio / video recording etc. Nothing extra shall be payable to Contractor on this account. However, cost of photographs, slides, audio / videography etc. shall be borne by the Department. The original films shall be the property of the Department. No copy shall be prepared without the prior approval of the Engineer- in – Charge.
26. The Contractor shall make all necessary arrangements for protecting from rains, 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.
27. **INCIDENTAL CHARGES:** For all items of work, the entire incidental charges of any kind including cartage, storage, wastage and safe custody of material etc. shall be borne by the Contractor and no claim of any kind, whatsoever, shall be entertained on this account.
28. **STORAGE OF MATERIAL 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 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.
29. **NO WAIVING OF LEGAL RIGHTS AND POWERS :** The Engineer-in-Charge shall not be precluded or stopped from taking any measurements, and framing of estimates or detaining any certificates made either before or after the completion and acceptance of the work and payment, from showing the true amount and character of the works performed and materials furnished by the Contractor and from showing that any such measurements, estimates or certificates untrue or incorrectly made and that Engineer-in-Charge shall not be



precluded or stopped from recovering from the Contractor such damages as it may be sustained by reasons of his failure to comply with the terms and conditions of the contract.

- 30. FINAL TESTING OF THE INSTALLATION:** The Contractor shall demonstrate trouble free functioning of all the Civil and E & M installations and services. The Engineer-in-Charge or his authorized representatives shall carry out final inspection of the various Civil and E & M services and installations. Any defect(s) noticed during demonstration shall be rectified by the Contractor at his own cost to the entire satisfaction of the Engineer-in-Charge. Nothing extra shall be payable on this account.
31. The contractor shall make his own arrangements for water and for obtaining electric connections if required and make necessary payments directly to the department concerned.
32. Other agencies doing work related with this project will also simultaneously execute the works and the contractor shall afford necessary facilities for the same. The contractor shall leave such necessary holes, openings etc. for laying, burying in the work pipes, cables, conduits, clamps, boxes and hooks for fan clamps, etc. as may be required for other agencies conduits for Electrical wiring/cables will be laid in a way that they leave enough space for concreting and do not adversely affect the structural members. Nothing extra over the agreement rates shall be paid for the same.
33. Some restrictions may be imposed by the security staff etc. on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restrictions/instructions and nothing extra shall be payable on this account.
34. (a) The building for components will be carried out in the manner complying in all respect with the requirements of relevant by laws of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-Charge and nothing extra will be paid on this account.
- (b) The contractor shall comply with proper and legal orders and directions of the Local or Public authority or Municipality and abide by their rules and regulations and pay all fees and charges, which he may be liable.
35. The contractor shall give a performance test of the entire installation(s) as per standing specifications before the work is finally accepted and nothing extra whatsoever shall be payable to the contractor for the test.



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

37. Testing of materials:

- (a) Samples of various materials required for testing shall be provided free of charge by the contractor.
- (b) All expenditure to be incurred for testing of samples e.g. packaging, sealing, transportation, loading, unloading etc. including testing charges shall be borne by the contractor (DG/MAN/410 dated -22.10.2021 Para 4.10.2)
- (c) Testing of materials shall be got conducted from any Government testing labs as per direction and decision of the engineer-in-charge. However, in case of exigencies of works, testing is also permitted from approved private labs other than government labs solely at the discretion and direction of the engineer-in-charge.

38. The ~~Structural and~~ Architectural drawings shall be all times be properly co-related before executing any work. However, in case of any discrepancy in the item given in the schedule of quantities appendant with the tender and Architectural drawings relating to the relevant item, the former shall prevail unless and otherwise given in writing by the Engineer-in-Charge.

39. For the purpose for recording measurements and preparing running account bills, the abbreviated nomenclatures indicated in the publications “Abbreviated nomenclature of item of DSR’2019” with up-to-date correction slips shall be accepted. The abbreviated nomenclature shall be taken to cover all the materials and operations as per the complete nomenclature of the relevant items in the agreement and other relevant specifications. In the case of items for 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 the items shall be reproduced in the measurement books and bill forms for running account bill. The full nomenclature of the items shall be adopted in preparing abstract of final bill form in the measurements book and also in the bill form for final bill.



40. STAINLESS STEEL CRAMPS:

The size & shape of the cramps shall be as per drawing and as per directions of Engineer-in-charge. The samples of steel cramps should be got approved in advance before starting the stone cladding work.

41. FLOORING:

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

42. STEEL WORK:

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

43. Defects Liability Period (DLP)

- i. Defect liability period shall be **12 Months** and shall be released after 01 year from the date of completion, if no defects are observed in the guarantee period and defects have been rectified in pursuant in the agreement to the entire satisfaction of the Engineer-In-Charge.
- ii. All other defects notified to the contractor during the DLP shall be rectified to the entire satisfaction of Engineer-in-Charge or item replaced as soon as possible but not beyond one month failing which Engineer-in-Charge shall get it done at his risk and cost after final notice of 10 days. The decision of Engineer-in-Charge regarding a defect being of serious nature or otherwise shall be final and binding.

1. Other Conditions

- 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.



PARTICULAR SPECIFICATIONS

1. The work shall be executed and measured as per metric dimensions given in the Schedule of quantities, drawings etc. (F.P.S. units wherever indicated are for guidance only).
2. The following modifications to the above specifications and some additional specifications shall however apply:
 - 2.1. All stone aggregates shall be of hard stone variety to be obtained from approved quarries or from any other quarries where the material meeting to required quality and specification is available after approval from the Engineer-in-charge.
 - 2.2. Sand to be used for cement concrete work, mortar for masonry and plaster work shall be of standard quality. Sand shall be obtained from approved location or from any other place where the material meeting to required quality and specification is available after approval from the Engineer-in-charge.
 - 2.3. Fly Ash bricks conforming to quality standard of IS:12894 having minimum average compressive strength of 7.50 N/sq.mm of size 23x 12.5x 7.5 cm to be used and pre-cast cement concrete solid blocks of size 400x200x200 mm having minimum compressive strength not less than 100 kg/cm² as per IS:2185, Part-I 2005.
3. Wherever any reference to any Indian Standard Specification occurs in the documents relating to this contract the same shall be inclusive of all amendments issued thereto or revisions thereof, if any, up to the last date of submission of bid.
4. Unless otherwise specified in the schedule of quantities the rates for all items of the work shall be considered as inclusive of pumping out or bailing out water if required for which no extra payment will be made. This will include water encountered from any source, such as rains, floods, and sub-soil water table being high due to any other cause whatsoever.
5. ~~**RCC WORK & DESIGN MIX CEMENT CONCRETE:**~~ The contractor shall be required to submit two separate design mix of concrete with and without using plasticizers, separately. The decision of the engineer in charge to specify the design mix of concrete based on above shall be final.
 - 5.1. ~~Coarse aggregate:~~ As per CPWD Specifications
 - 5.2. ~~Fine Aggregate:~~ As per CPWD Specifications.
 - 5.3. ~~Water:~~ It shall conform to requirements laid down in IS:456: 2000 and CPWD specifications.



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

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

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

5.7. Grade of Concrete: The compressive strength of various grades of concrete shall to be given as below:

Sl. No.	Grade Designation	Compressive strength on 15 cm cubes min. 7 days (N/mm ²)	Specified characteristic compressive strength at 28 days (N/mm ²)	Minimum cement quantity (Kg. Per cum. M.)	Maximum water/cement ratio
(i)	M-25	As per design	25	As per CPWD specification/BIS Code	0.50
(ii)	M-30		30		0.45
(iii)	M-35		35		0.45
(iv)	M-40		40		0.40

Note:—

- (i) In the designation of a concrete mix letter M refers to the mix and number to the specified characteristic compressive strength of 15 cm x 15 cm x 15 cm — cube 28 days expressed in N/mm²
 - (ii) The minimum/maximum cement content for design mix concrete shall be maintained as per the quantity mentioned above. In case where the quantity of cement required is higher than the minimum specified above to achieve desired strength based on an approved mix design extra shall become payable to the contractor.
 - (iii) 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
- Correction/Addition/ Omission/ Deletion Nil



~~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. Recovery @ Rs. 440/- per Quintal for PPC Cement for less use of cement in design mix than specified in the item shall be made.~~

- ~~(iv) Design slump has to be constantly monitored and maintained during placing of concrete through slump tests carried out as per CPWD specification 2019 Vol. 1 for Mortar, Concrete and RCC works, and records maintained accordingly.~~

~~5.8. The concrete mix design/laboratory tests with and without admixture shall be done by contractor at his own cost and will be carried out by the contractor through one of the following laboratory/Test houses:~~

- ~~(a) NIT Raipur,~~
- ~~(b) Government Engineer College, Bilaspur~~
- ~~(c) Government Engineer College, Raipur~~

~~Or Approved Lab/Govt. Engineering Institutions as directed by the Engineer in charge. The various ingredients for mix design / laboratory tests shall be sent to the test houses through the Engineer-in-Charge, and the samples of such aggregate & cement shall be preserved at site by the department.~~

~~5.9. The contractor shall submit the mix design report from any of above approved laboratory for approval of Engineer in Charge within 30 days from the date of issue of letter of acceptance of the tender. No concreting shall be done until the mix design is approved by the Engineer-in-charge. In case of white Portland cement and the likely use of admixtures in concrete with PPC/white Portland cement the contractor shall design and test the concrete mix by using trial mixes with white cement and/or admixtures also for which nothing extra shall be payable.~~

~~5.10. In case of change of source or characteristic properties of the ingredients used in the concrete mix during the work, a revised laboratory mix design report conducted at laboratory established at site shall be submitted by the contractor as per the direction of the Engineer in Charge.~~



(Note1: ~~Cement content considered 330 kg/cum of concrete for M-25 Grade or 340 kg/cum of concrete for M-30 Grade~~

(Note 2: ~~———— In case of not using admixture in the design mix, recovery shall be affected @ ` 50/- (Rupees Fifty Only) per kg for the quantity of admixture not used. The quantity of admixture for recovery shall be calculated @ 0.5% of cement used in kg in the design mix)~~

~~However, if admixture is not used in approved design mix, necessary recovery shall be affected as per agreement item.~~

~~5.11. The contractor shall be free to use Ready Mix Concrete (RMC) in place of Batch mix concrete at his own cost. The contractor shall ensure that transit mixtures shall transport the concrete to site. All the precautions shall be taken during transportation and handling of concrete to achieve the desired strength, durability, etc. as envisaged in the Mix Design. Contractor has to get the approval from Engineer In-Charge regarding source of RMC by giving the details of such plants indicating name of owner / company, its location, technical establishment, past experience and text of Memorandum of Understanding (proposed to be entered between purchaser and supplier). The Engineer in Charge, after satisfying himself about quality / capability of the company shall give approval in writing (subject to drawing of MOU). The MOU shall be drawn with RMC plant owner / company and submitted to Engineer in Charge within a week of such approval. The contractor will not be allowed to purchase RMC without completion of above formalities for use in the 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, production, transportation and placement etc. The Engineer in Charge will reserve the right to deploy his supervisor at plant site to inspect at any such stage and reject the material / concrete etc. if he is not satisfied with the quality of material / product.~~

6. APPROVAL OF DESIGN MIX

The mix design for a specified grade of concrete shall be done for a target mean compressive strength $T_{ek} = F_{ek} + 1.65 s$. Where F_{ek} = Characteristic compressive strength of 28 days = Standard deviation which depends on degree of quality control. The degree of quality control for this work is "good" for which the standard deviation (s) obtained for different grades of concrete shall be as below:



Sl. No.	Grade of Concrete	For "Good" quality of control
(i)	M-25	4.00
(ii)	M-30	5.00
(iii)	M-35	5.00
(iv)	M-40	5.00

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

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

6.2. The batching plant shall conform to IS:4925. It shall have the facilities of presetting the quantity to be weighed with automatic cutoff when the same is achieved. Concreting at

places may have to be resorted to through concrete pump for which nothing extra shall be paid.

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

7. ~~WORK STRENGTH TEST~~

7.1. ~~TEST SPECIMEN~~

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

7.2. ~~TEST RESULTS OF SAMPLE~~

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

7.3. ~~LOT SIZE~~

The minimum frequency of sampling of concrete of each grade shall be according to the following:-

Sl. No.	Quantity of concrete in the work cubic meter per day	Number of samples.
(i)	1-5	1



(ii)	6-15	2
(iii)	16-30	3
(iv)	31-50	4
(v)	51 & above	4 + one additional sample for additional 50 cubic meter or part thereof.

Note: At least one sample shall be taken from each shift.

~~7.4. STANDARDS OF ACCEPTANCE – As per CPWD specifications/IS 456 Code~~

~~7.5. In case of rejection of concrete on account of unacceptable compressive strength governed by para “Standard of Acceptance” as above the work for which samples have failed shall be redone at the cost of contractors. However, the Engineer in-Charge may order for additional test (like cutting cores, ultrasonic pulse velocity test, load tests on structure or part of structure etc.) to be carried out at the cost of contractor to ascertain if the portion of structure wherein concrete represented by the sample has been used, can be retained on the basis of results of individual or combination of these tests. The contractor shall take remedial measures necessary to retain the structure as approved by the Engineer in-Charge without any extra cost. However, for payment the basis of rate payable to contractor shall be governed by the 28 days cube test results.~~

~~7.6. Necessary arrangements shall be made for field tests and all required equipment's shall be arrange by establishing field lab by the Agency for mandatory tests of the materials as specified in CPWD specifications or as per direction of Engineer in Charge. No extra payment shall be paid on this account.~~

8. FORM WORK

8.1. The work shall be done in general as per CPWD Specifications.

8.2. Only M.S. centering / shuttering and scaffolding material unless & otherwise specified shall be used for all R.C.C. work to give an even finish of concrete surface. However, shutter-ply shuttering in exceptional cases as per site requirement may be used on specific request from contractor to be approved by the Engineer-in-Charge. Steel shuttering as approved by the Engineer-in-Charge shall be used by the contractor. Minimum size of shuttering plates shall be 600mm x 900mm except for the case when closing pieces required to complete the shuttering panels. Dented, broken, cracked, twisted or rusted shuttering plates shall not be allowed to be used on the work. The shuttering plates shall be



cleaned properly with electrically driven sanders to remove any cement slurry or cement mortar or rust. Proper shuttering oil or de-bonding compound shall be applied on the surface of the shuttering plates in the requisite quantity before assembly of steel reinforcement.

- 8.3. For the execution of centering and shuttering, the contractor shall use propriety “Reebol” chemical mould release agent of FOSROC or equivalent as shuttering oil as approved by Engineer-in-charge and nothing extra shall be paid on this account.
- 8.4. Double steel scaffolding having two sets of vertical supports shall be provided for external wall finish, cladding etc. The supports shall be sound and strong, tied together with horizontal pieces over which scaffolding platform shall be fixed. Scaffolding shall have steel staircase for inspection of works at upper levels.
- 8.5. Nothing extra shall be paid for the centering and shuttering, circular in shape whenever the form work is having a mean radius exceeding 6m in plan.
- 8.6. In order to keep the floor finish as per architectural drawings and to provide required thickness of the flooring as per specifications, the level of top surface of R.C.C. shall be accordingly adjusted at the time of its centering, shuttering and casting for which nothing extra shall be paid to the Contractor.
- 8.7. As per general engineering practice, level of floors in toilet / bath, balconies, shall be kept 22 to 20mm lower than general floors as required. Shuttering should be adjusted accordingly. Nothing extra is payable on this account.
- 8.8. Concreting of upper floor shall not be done until concrete of lower floor has set at least for 14 days but form work and reinforcement can be taken up after the concrete has set at least for three days.

9. WOOD WORK :

The samples of species of timber/PVC to be used shall be deposited by the contractor with the Executive Engineer before commencement of the work. The contractor shall produce cash vouchers and certificates from standard kiln seasoning plant operator about the timber section to be used on the work having been kiln seasoned by them, failing which it would not be so accepted as kiln seasoned.

- 9.1. Factory made shutters, as specified shall be obtained from factories to be approved by the Engineer-in-charge and shall conform to IS: 2202 (Part-I)1991. The contractor shall inform well in advance to the Engineer-in-charge the names and address of the factory where from the contractor intends to get the shutters manufactured. The contractor will place order for manufacture of shutters only



after written approval of the Engineer-in-charge in this regard is given. The contractor is bound to abide by the decision of the Engineer-in-charge and recommend a name of another factory from the approved list in case the factory already proposed by the contractor is not found competent to manufacture quality shutters. Shutters will, however, be accepted only if this meets the specified tests. The contractor will also arrange stage-wise inspection of the shutters at factory of the Engineer-in-charge or his authorized representative. Contractor will have no claim if the shutters brought at site are rejected by Engineer-in-charge in part or full lot due to bad workmanship/quality. Such shutters will not be measured and paid and the contractor shall remove the same from the site of work within 7 days after the written instructions in this regard are issued by Engineer-in-charge or his authorized representative.

10. VARIATION IN CONSUMPTION OF MATERIALS:

The variation in consumption of material shall be governed as per CPWD specifications and clauses of the contract to the extent applicable.

11. The contractor will have to work according to the programme work, decided by the Engineer-in-Charge. The contractor shall also construct a sample unit complete in all respects within time specified by the Engineer-in-Charge and this sample unit shall be got approved from the Engineer-in-Charge before mass construction is taken up. No extra claim whatsoever beyond the payments due at agreement rates will be entertained from the contractor on this account. The contractor shall take instructions from the Engineer-in-Charge for stacking of materials in any place.
12. No excavated earth or building materials shall be stacked on areas where other buildings, roads, services of compound wall are to be constructed.
13. If as per Municipal rules the huts for labour are not to be erected at the site of work by the contractors, the contractors are required to provide such accommodation as is acceptable to local bodies and nothing extra shall be paid on this account.
14. Grey cement bags shall be stacked/stored in separate godown to be constructed by contractor at his own cost as per (which is only indicative and actual size will depend on the site requirements) at page 23 of CPWD specification 2019 Vol. I with weather leak proof roofs and walls. Each godown shall be provided with single door with two locks. The keys of one lock shall remain with CPWD Engineer-in-Charge of work and that of the other lock with the authorized agent of the contractor at the site of work so that the cement is removed from the godown according to the daily requirement with the knowledge of both the parties and proper account maintained in standard proforma.



15. The contractor is responsible for the safe custody of the materials issued to him even if the materials are under double lock system.
16. The contractor shall construct suitable godown, yard at the site of work for storing all other materials so as to be safe against damage by sun, rain, damages, fire, theft etc. at his own cost and also employ necessary watch and ward establishment for the purpose at his cost.
17. ~~The standard sectional weights referred to as standard tables in Para 5.3.4 in specifications for works, 2019 Vol. I & II vide page 135 of Table 5.4 to be considered for conversion of length of various size of M.S. bars/cold twisted bars and Thermo-Mechanically Treated Bars into weight are as under: [Note: These areas per clause 6.2 of IS:1786]~~

Sl. No.	Nominal Size	Weight KG/M	Size (Diameter MM)	Weight KG/M
(i)	6	0.222	25	3.858
(ii)	8	0.395	28	4.839
(iii)	10	0.617	32	6.320
(iv)	12	0.888	36	7.99
(v)	16	1.580	40	9.86
(vi)	20	2.469	—	—

18. All materials obtained from contractor shall be got checked by the Junior Engineer-in-Charge of the works on receipt of the same at site before use.
19. ~~For all kind of R.C.C. work PPC (Portland Pozzolana Cement) shall be allowed to be used.~~

20. Maintenance of Register of Tests –

20.1. All the registers of tests carried out at Construction Site or in outside laboratories shall be maintained by the contractor which shall be issued to the contractor by Engineer-in-charge in the same manner as being issued to CPWD field staff.

20.2. All Samples of materials including Cement Concrete Cubes shall be taken jointly with Contractor by JE and out of this at least 50% samples shall be taken in presence of AE in charge. If there is no JE, all Samples of materials including Cement Concrete Cubes shall be taken by AE jointly with Contractor. All the necessary assistance shall be provided by the contractor. Cost of sample materials

AE (P)

Correction/Addition/ Omission/ Deletion Nil



is to be borne by the contractor and he shall be responsible for safe custody of samples to be tested at site.

20.3. All the test in field lab setup at Construction Site shall be carried out by the Engineering Staff deployed by the contractor which shall be 100% 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. For outstations the percentage of tests to be witnessed by JE, AE & EE are to be decided by NIT Approving Authority and should form part of QA Plan.

20.4. All the entries in the registers will be made by the designated Engineering Staff of the contractor and same should be regularly reviewed by JE/AE/EE.

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

21. Maintenance of Material at Site (MAS) Register –

21.1. All the MAS Registers including Cement and Steel Registers shall be maintained by Contractor which shall be issued to the contractor by Engineer-in-charge in the same manner as being issued to CPWD field staff.

21.2. Each of the entry of receipt of material at site shall be 100% test checked by JE or by AE if there is no JE.

21.3. Each MAS Register shall be checked by JE at least twice a week and at least once a week by AE. If there is no JE then MAS registers will be checked by AE at least twice a week.

21.4. Cement Register shall be reviewed by EE at least one in a month. For outstations the frequency of checking the Registers by JE, AE & EE is to be decided by NIT Approving Authority and should form part of QA Plan.

22. EQUIPMENTS AND PLANTS (Refer Clause 18 of Schedule 'F')

The contractor has to deploy necessary tools & plants in required numbers to ensure smooth & timely execution of work, at his own cost & risk as per the requirement of work at different stages. The decision of Engineer-in-Charge shall be final regarding use of particular T&P(s) at a particular time(s) & the contractor has to adhere to the same strictly. The following description & quantum of T&P is given for general guidance which is not mandatory. However, the successful contractor shall give a list of tools and plants which he proposes to deploy to ensure smooth and timely execution as per different milestone fixed and timely completion of work while submitting the programme and progress chart.



I.	Fully Automatic Batching Plant (15.00 cum)	1 No.
II.	Steel Centering and shuttering	300 sqm
III.	Excavator Cum Loader.	1 No.
IV.	Concrete mixer with hopper.	1 Nos.
V.	Plate Vibrator.	1 No.
VI.	Needle Vibrator.	2 Nos.
VII.	Bar Bending Machine.	1 No.
VIII.	Bar Cutting Machine.	1 No.
IX.	Compressor 5 cmm.	1 No
X.	Earth compactor 2 T	1 No
XI.	Floor grinding machine	1 No
XII.	Welding machine	1 No
XIII.	DG Set(63 KVA)	1 No
XIV.	Grinder, Drilling machine etc.	1 No
XV.	Water Pump	1 No
XVI.	Chase cutter	1 No
XVII.	Concrete Pump	1 No.

23. LIST OF EQUIPMENT FOR SITE LABORATORY TO BE MADE AVAILABLE BY THE CONTRACTOR AT HIS OWN COST (Refer Clause 10 A of Schedule 'F')

23.1. LABORATORY TESTING INSTRUMENTS

23.1.1. Balances

23.1.1.1. 7 Kg. to 10 Kg. capacity, semi-self-indicating type – accuracy 10 gm.-1 No.

23.1.1.2. 500 gm. Capacity, semi-self-indicating type – accuracy 1 gm.- 1 No.

23.1.1.3. Pan balance – 5 Kg. capacity – accuracy 10 gms.-1 No.

~~23.1.2. Ovens electrically operated, thermostatically controlled upto 1100 C sensitivity 10 C. – 1 No.~~

23.1.3. Sieves : as per IS 460 – 1962.

23.1.3.1. I.S. sieves – 450 mm internal dia., of sizes 100mm, 80 mm, 63 mm, 50mm, 40 mm, 25mm, 20 mm, 12.5 mm, 10 mm, 6.3mm, 4.75 mm, 2.36mm complete with lid and pan. – 1 Set

23.1.3.2. I.S. 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. – 1 Set

23.1.4. Sieve shaker capable of 200 mm and 300 mm dia. sieves, manually operated with timing switch assembly - 1 No.



~~23.1.5. Equipment for slump test – slump cone, steel plate, tamping rod, steel scale, scoop – 2 sets~~

~~23.1.6. Dial gauges, 25 mm travel – 0.01 mm / division least count – 2 Nos.~~

~~23.1.7. 100 tones compression testing machine, electrical cum manually operated. – 1 No.~~

23.1.8. Graduated measuring cylinders 200 ml capacity – 6 Nos.

23.1.9. Enamel trays (for efflorescence test for bricks).

23.1.9.1. 300 mm X 250 mm X 40 mm – 2 Nos. 10 Set

23.1.9.2. Circular plates of 2850 mm dia. – 4 Nos.

23.2. FIELD TESTING INSTRUMENTS

Following instruments in sufficient quantity as directed by the Engineer- in- Charge shall be made available by the contractor. It shall be ensured that the instruments always remain in serviceable condition else the same will be replaced.

23.2.1. Steel tapes – 5 m.

23.2.2. Vernier Calipers.

23.2.3. Micrometer screw 25 mm gauge.

23.2.4. A good quality plumb bob.

23.2.5. Spirit level, minimum 30 cms long with 3 bubbles for horizontal vertical.

23.2.6. Wire gauge (circular type) disc.

23.2.7. Foot rule.

23.2.8. Long nylon thread.

~~23.2.9. Rebound hammer for testing concrete~~

23.2.10. Dynamic penetrometer.

23.2.11. Magnifying glass

23.2.12. Screw driver 30 cms long

~~23.2.13. Ball pin hammer, 100 gms.~~

23.2.14. Plastic bags for taking samples

23.2.15. Moisture meter for timber

~~23.2.16. Earth resistance tests (for Electrical Divisions)~~

23.2.17. Meggar (for Electrical Divisions)

~~23.2.18. Total station~~



SPECIAL CONDITIONS FOR CEMENT & STEEL

1. The contractor shall, at his own expense procure and provide all materials including cement and steel required for the work.
2. 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.
3. 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.
4. The contractor shall also employ necessary watch and ward establishment for the safe custody of materials at his own cost.
5. Contractor has to produce manufacturers test certificate for each lot of cement & steel procured at site.

6. CONDITIONS FOR CEMENT: -

- i) The contractor shall procure Portland Pozzolana Cement (PPC) [conforming to IS:1489 (Part-I)], as required in the work, from reputed manufacturers of grey cement such as ACC, Ultratech, Ambuja, Jaypee Cement & J.K. Cement or from any other reputed cement Manufacturer having a production capacity not less than one million tons per annum as approved by the competent authority of CPWD. Supply of cement shall be taken in 50 Kg. bags bearing manufacturer's name and ISI marking. Samples of cement arranged by the contractor shall be taken by the Engineer-in-charge and got tested in accordance with provisions of relevant BIS codes. In case test results indicate that the cement arranged by the contractor does not conform to the relevant BIS codes, the same shall stand rejected and 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.
- ii) Use of PPC (Portland Pozzolana Cement) shall be used in RCC structures in accordance with the circular issued by the Directorate General of Works vide No. CDO/SE(RR)/Fly Ash (Main)/102 dt.09.04.2009. The use of PPC shall be regulated as per the following conditions stipulated in the circular dt.09.04.2009: -



a) IS:456-2000 Code of Practice for Plain and Reinforced Concrete (as amended upto date) shall be followed in regard to Concrete Mix Portion and its production as under:

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

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

b) Minimum M25 grade of concrete shall be used in all structural elements made with RCC both in load bearing and framed structure.

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

d) 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.

e) In environment subjected to aggressive chloride or sulphate attack in particular, use of flyash admixed or PPC based concrete is recommended. In case, 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.

f) Wet curing period shall be enhanced to a minimum of 10 days or its equivalent. In hot & arid regions, the minimum curing period shall be 14 days or its equivalent.



- g) 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.
- h) 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.
- i) While using PPC for structural concrete work, no further admixing of flyash shall be permitted.
- ii) The cement shall be brought at site in bulk supply of approximately 50 tons or as decided by the Engineer-in-charge.
- iii) The cement godown of the capacity to store a minimum of 2000 bags of cement shall be constructed by the contractor at the site of work for which no extra payment shall be made. Double lock provision shall be made to the door of the cement godown. The keys of one lock shall remain with the Engineer-in-charge or his authorized representative and the keys of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement godown. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-charge at any time.
- vi) The cement shall be got tested by Engineer-in-charge and shall be used on work only after test results have been received. The contractor shall supply free of charge the cement required for testing. The cost of tests shall be borne by the contractor/Department in the manner indicated below:
- a) By the contractor, if the results show that the cement does not conform to relevant BIS Codes.
- b) By the Department, if the results show that the cement conforms to relevant BIS Codes.
- v) The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in clause 38 of the contract and shall be governed by conditions therein.



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

vii) Damaged cement shall be removed from site immediately by the contractor on receipt of notice in writing from the Engineer-in-charge. If he does not do so within three days of receipt of such notice, the Engineer-in-charge shall get it removed at the cost of the contractor.

7. SPECIAL CONDITIONS FOR STEEL: -

7.1 ~~The contractor shall procure TMT bars of Fe500D Grade steel (the grade to procure is to be specified) from primary Steel manufacturers such as SAIL, TATA steel Ltd., RINL, Jindal Steel & Power Ltd., and JSW steel Ltd. or their authorized dealers having valid BIS license for IS:1786:2008 (Amendment - 1 November 2012)~~

7.2 a) ~~— The Steel manufacturers or their authorized dealers (as per following selection criteria) having valid BIS license for IS:1786:2008 (Amendment - 1 November 2012)~~

~~The procured steel should have following qualities:—~~

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

b) ~~— Selection Criteria of steel manufacturers~~

~~(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 hereunder:—~~

~~i. — DRI-EAF = Direct Reduced iron — Electric arc furnace.~~

AE (P) Correction/Addition/ Omission/ Deletion Nil



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/IEC17011 and accredits labs as per ISO/IEC 17025 conforming to IS: 1786:2008(Amendement 1 November 2012).~~

~~The check list for incorporation of any quality steel producer is enclosed for technical assessment is given in Annexure-1.~~

~~7.3 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.~~

~~7.4 Samples shall also be taken and got tested by the Engineer in Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time or written orders from the Engineer in Charge to do so.~~

~~7.5 The steel reinforcement bars shall be brought to the site in bulk supply of ten tons or more as decided by the Engineer in-charge.~~

~~7.6 The steel reinforcement shall be stored by the contractor at site of work in such a way as to prevent distortion and corrosion and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.~~

~~7.7 For checking nominal mass, tensile strength, bend test, re-bend test etc. specimen of sufficient length shall be cut from each size of the bar at random at frequency not less than that specified below:~~

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

~~7.8 The contractor shall supply free of charge the steel required for testing including transportation to testing laboratories approved by Engineer in charge. The cost of tests shall be borne by the contractor.~~

~~7.9 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 procedure prescribed in clause 38 of the contract and shall be governed by conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations recovery at the rate so prescribed shall be made. In case of excess consumption, no adjustment needs to be made.~~

~~7.10 Steel brought to site and steel remaining unused shall not be removed from site without the written permission of the Engineer in charge.~~

7.11 (A) The following procedure should be followed in case of removal of rejected/sub-standard materials from the site of work.

i) Whenever any material brought by the contractor to the site of work is rejected, entry thereof should invariably be made in the site order book under the signature of the AE/AEE giving approximate quantity of such materials.

ii) As soon as the material is removed, a certificate to that effect may be recorded by the AE/AEE against the original entry, giving the date of removal a mode of removal i.e. whether by truck, carts or by manual labour. If removal is by truck, the registration number of the truck should be recorded.

iii) When it is not possible for the AE/AEE to be present at the site of work at the time of actual removal of the rejected/sub-standard materials from the site the required certificate should be recorded by the Junior Engineer and the AE/AEE should countersign the certificate recorded by the Junior Engineer.



(B) Cement should be kept in godown under double locks and keys and its consumption account invariably maintained, whether the cement is supplied departmentally or arranged by the contractor. A register should be maintained at the site of each work costing above Rs.20,000/-. This register should contain the columns as shown in Appendix-28. (CPWD Works Manual 2022).

The pages of the register should be machine numbered and each page initialed by the EE. The cement godown and the register are required to be checked by the AE/EE in-charge of the work as per following schedule.

- i) At least weekly or fortnightly, respectively in case of works at the Headquarters of AE/EE.
- ii) Whenever they visit the site of work in case of works located outside the Sub-Divisional/Divisional Head Quarters.

(C) Factory made glazed steel doors, windows & ventilators shall be manufactured in a workshop approved by the Chief Engineer.



FORM OF GUARANTEE BOND FOR WATER PROOFING WORKS

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

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

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

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

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

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

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

~~During this period of guarantee the Guarantor shall make good all defects and in case of any defect being found render the building waterproof to the satisfaction of the Engineer-in-Charge at his cost, and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer in Charge calling upon him to~~

AE (P)

Correction/Addition/ Omission/ Deletion Nil



~~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 GUARANTOR fails to execute the waterproofing or commits breach there under then the GUARANTOR will indemnify the principal and his successors against all loss, damage, cost, expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Government the decision of the Engineer in charge will be final and binding on the parties.~~

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

~~Signed, sealed and delivered by OBLIGOR in the presence of—~~

~~1:-~~

~~2:-~~

~~Signed for and on behalf of THE PRESIDENT OF INDIA by in the presence of—~~

~~1:-~~

**PREFERRED MAKES FOR CIVIL WORK****Note :-**

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

S.No.	Material			Approved brand
1	Cement (OPC/PPC) As per IS: 8112 for OPC & IS: 1489 for PPC			A.C.C., Jaypee Cement, Ultratech, Gujrat Ambuja Cement and Cement Corporation of India, Emami / Birla Gold Cement, Nuvoco / Infracem by NU Vista Ltd / JK Lakshmi / Shree Cement.
2	Cement (PSC) confirming to IS 455-2015			Birla Gold Cement/NU Vista/JK cement
3	Admixtures & Epoxy As per IS: 9103			FOSROC/ Aquomix/ BAL-ENDURA/ ROFF/ /CICO/ SIKA/BASF /Kryton.
4	Reinforcement steel			Tata/Sail/RINL/Jindal steel & power ltd/JSW
5	Super plasticizer as per IS: 9103			MC Baucheme / Sika / Fosroc / Snowcem/ STP Ltd
6	Post tension slab as per IS: 1343			Ultracon technology limited / Tech-9 / CRUX
7	AAC Block adhesive as per IS: 2185-P-III			Ecorex / Ultratech / Ardex Endura / Ferrous Berger /Asian / Pidilite industries
8	Aluminium Composite Panel as per IS: 17682.			Alpolic / Aluco Bond/ Reynobond / Euro bond / Al-strong / Aludewr / Viva / Alstone / VIRGO
9	Annealed Float Glass As per IS: 14900			Saint Gobain/ Modi Guard/TATA
10	Float as Per IS: 14900/Clear/Frosted/Toughened as per IS 2553-1(1990) /Refractive Glass			Modi Float/ Saint Gobain / Asahi / AIS / Modiguard /Mr. Glass / GOLD PLUS.
11	Curtain Carrier			Vista levlor / Carlos / Home Deco
12	Dash fastener/ Cladding Clamp	Expansion	Bolt/Stone	HILTI / Fischer / Bosch / Wurth / Trixel.



13	Door closer as per IS: 3564/ floor springs as per IS: 6315/Door stopper	Dorma/ Haffle/ Falcon/Godrej/Dorset/Kich/ Hardwyn/ Becker FS/Saint Gobain
14	Adhesive/epoxy	Pidilite/3m/huntsman/Jowat
15	Flush Doors / Shutters as per IS: 2202	Anchor/ Century / JAYNA / Greenply / Selected Products Company / Duro / MERINO / Swastik Panels / A1
16	FRP Shutters/frame As per IS : 14856	Fibre Glass Engineers Raipur/ Aashoo Model or equivalent / JAYNA / Selected Products Company/ Jain Doors pvt. Ltd. (Woodify).
17	Laminate/High Pressure Laminates	Marino / Greenlam / Century / Formica / Action TESA / VIRGO
18	Marine Plywood / BWP Ply As per IS: 710 & IS: 12406 / BWR Ply as per IS: 303	Kitply / Duro / Century / Greenlam
19	Plywood (Decorative/Non-Decorative) As per IS: 303, IS 1328, IS 10701.	Archid / Kitply / Greenply / Century / Merino / Duro / Durian.
20	Shuttering ply wood As per IS: 4990	Century/ Merino
21	HDF Moulded Panel Door	Century/ Merino
22	Pre-laminated Particle Board IS :12823: 2024 (Gr-I/ Type-II)	Tesa / Archid / Eco brand / Century / Bhutan board / Action Tesa / Greenlam / Merino
23	PVC Door Shutter and frames	Rajshri / Sintex / Polyline / Duroplast /Jain wood Industries
24	Veneer	Archid/ Durian/ Ventura/ Merino/Duro
25	Teak wood/hard wood wire mesh & panel doors	A-1 Teak product Indore/Jayna/ Jain Doors pvt.Ltd.(Woodify).
26	Block Boards as per IS: 1659.	JAYNA / Century / Greenply / Archid / Kitply
27	Wooden Shutter with frame	Jayna/Jain wood industry/A-1 teak
28	uPVC Windows/Doors As per IS:17953.	Duroplast / Fenesta / Komerling / Saint Gobain / Wintech /Aluplast / NCL-VEKA fabricated by Classic Engineers & Fabricators, Raipur/ Allure windoors/ Okotech/ Venster fabricated by Dolphin uPVC system / IKONISH / Astrapia / Simta Astrix / MARG



29	G.I. /Stainless steel/Wire-mesh/Netting	Selected Products Company/Jayna/ Oswal
30	Fabrication of aluminium & UPVC doors, windows, Facades including ACP and glazing work	KANHA ALU AND FAB PVT. LTD., Raipur/ Evergreen / Skyler World / Dolphin uPVC System.
31	Processing and fabrication of glass (toughened, DGU and lamination	Wadhwa Glass Works (P) Ltd., Raipur / Shivshakti / SK tuff
32	Fire rated doors as per IS 3614:2021, IS: 35476 (Part 20622)	Signum fire protection / Shakti Metdoor / NAVAIR / Sukri / Promat International / Supreme fire Door /ASES (Agni Suraksha)/Bhawani fire protection
33	Fire door hardware	Becker Fire solutions / Tata Pravesh / Navair
34	Stainless steel door & windows fittings as per IS: 204 P-II, IS: 208.	Jindal / Dorma / Kich / Dorset / Godrej / Ozone / Classic Steel windows / Becker FS
35	Extruded Polystyrene Insulation Board and Insulation System	Dow Corning/ Supreme/ Taxes/ Analco/STP Ltd./ Berger ETICS
36	UPVC Doors and window hardware	Rotto/Dorset/Kinlong
37	WPC door frames, Shutters, Panel & Sheets	Rajshri / VEKA / Yashpoly.
38	Stainless Steel butt hinges as per IS: 12817	Prayag / Beeta / Sarthi
39	Heat Strengthened glass	Mr. Glass/Swastik/Zenith/Saint Gobain
40	Structural Steel Sections	SAIL, TATA, RINL, JINDAL STEEL & POWER LTD. APL APOLLO, JSW STEEL LTD.
41	Insulated glass	Mr. Glass / Swastik / Zenith / Saint Gobain
42	Laminated and safety glass	Mr. Glass / Swastik / Zenith / Saint Gobain
43	RCC doors Frames	Bothra Duro Frame/Purshottam Industries / Mahalakshmi
44	Decorative thermosetting synthetic resin bonded laminated sheet as per IS 2046:1995 (High pressure compact laminates)	MERINO /VIRGO /Infotech
45	Galvanized/Stainless Steel Anchor Fasteners	Shakti / Arrow / Hilti / Fischer



46	Modular SS Railing System	Metallica India / Stark steel Fabricator / D-line International Denmark / Mobel Hardware.
47	M.S .Pipe (Railing)	Jindal / Prakash Surya / Tata / RINL / Apollo / HIRA Fabrication / Shivam Overseas (ISKCO)/ Sambhav Steel
48	Stainless Steel	Jindal Stainless Steel/ Salem Steel/TATA
49	Stainless Steel Screws	Kundan /Arrow / Navair.
50	Nuts/Bolts & Screws	Atul Fasteners Ltd. ITW BUILDEX and BUSTED, Corroshield, Pandey's Fasteners.
51	Structural steel as per IS: 1239: Part-I, IS: 1161, IS:4923	TATA / SAIL / RINL/ TISCO / JSW Steel ltd./ Jindal steel & Power ltd./APL APOLLO
52	Pre-Painted / powder coated CRC windows	M/s classic engineers and fabricators / M/s JK Enterprises Jaipur/ NCL alltek & seccolor ltd. Hyderabad / ultimate safety metals / Elixir
53	Stainless steel railing Accessories	Jindal / Dorma / Kich / GEZE / Godrej / Hardwyn
54	Tubular profile steel door/windows	Classic steel windows / Sehgal door / Tata Pravesh
55	Pressed steel door frames as per IS:4351.	Classic steel windows /Jai Ambey / Super Industries.
56	SS doors handle, locks/Mortice Latch and other relevant door hardware.	Godrej, Harrison, Dorset, Plaza, Yale, Dorma, Ozone, Geze, JPM / Hettich.
57	Sliding Channel	HAFELE/Hettich/Dorset/Dorma/Godrej
58	Ceramic Tiles (Germ Free)	CARE & CRAFT by Johnson.
59	Cement Concrete Chequered / designer tiles	Raj-Tiles / Concreto+ by Sai Sales / Advance / Ultra /Asian
60	Glass Mosaic Tile	Bissazza / Saon / Kajaria
61	Hardener	Hard crete of Snowcem India / MC Deritop F.H./Berger
62	Terrazzo tiles /Mosaic Tiles	Raj-Tiles / Bharat / Rigid Tiles / NIC / A-1 / GTC



63	Vitrified /Porcelain Tile As per IS: 15622	Marbograni / Euro / Somany / Granamite of Bell / OASIS / ceramic / Granito / Kajaria / M/s Restile / Rak / Porselano by Johnson / AGL / Marbito / Cengres / Sunhearrt / Orient Bell / Varmora / NITCO.
64	Vitrified Double Charged Tiles	Marbonite by Johnson / Kajaria / Somany / Orient Bell
65	Full Body, Matt Finish Vitrified Tiles	Endura Sandex by Johnson / Kajaria / Somany / Orient Bell
66	Vitrified Industrial Tiles	Endura by Johnson/Kajaria/Somany/ Orient Bell
67	Vitrified Step Tiles	Stepping Stone of Endura by Johnson or equivalent.
68	TAC Tiles	Endura by Johnson/Rac/Raj Tile
69	Vitrified Tiles (Germ Free)	Porselano by Johnson / Rac/Kajaria
70	Pavement Tiles	Endura by Johnson/Kajaria/Somany/ Orient Bell/Goyal Concrete pipe
71	Antistatic Tiles	Endura by Johnson/ Rac/Raj Tile
72	White Cement	JK White/ Birla White/Ambuja Cement
73	Tile Adhesive IS: 15477	Ferrous Crete / Ardex / Endure (Gold Star)/ Pidilite industries / Weber (Saint Gobain) /Asian Paints / STP Ltd. / Berger / Kryton / Nuvoco (MBM)/ Polyglaze.
74	Heat Resistant Tiles	Swastik / Thermatek / Somany /Johnson
75	Floor Hardener	Ironite / Ferrok / Hardonate / Shalifloor NM of STP Ltd. / Berger /Asian
76	Epoxy flooring & coating	Shalifloor SL TC 4E of STP Ltd. / Berger / Dr. Fixit / Asian
77	Polyurethane flooring& coating	Shalifloor PU, of STP Ltd. / Dr. Fixit /Asian
78	Antistatic Vinyl flooring	Shalifloor SL AS PU & Shalifloor SL AS 3E of STP Ltd. / Asian / Tarkett (IQ Optima) / Gerflor / Forbo
79	False Ceiling system	Boral Gypsum / India Gypsum / Laffarge / St. Gobain (Gyproc) / Armstrong / Hunter Douglas / Aerolite / Gridsquare / Interarch / Credence Industries / Hi-Steel / Anakon / Bollard.



80	Metal False Ceiling	Armstrong / Durlum / Luxalon by Hunter douglas / Aerolite / Credence Industries / Anakon / Hi-steel / Bollard.
81	Mineral Fiber/Calcium silicate Ceiling	Armstrong / Daiken / Hunter Douglas / Aerolite / Credence Industries / Anakon / Bollard.
82	Glass reinforced Gypsum (GRG) false ceiling	'Diamond' manufactured by Diamond International Inex pvt. Ltd / Gyproc by Saint Gobain / Knauf AMF
83	Glass fiber acoustic ceiling & wall panels.	Credence Industries / Armstrong / Anakon
84	Wood wool acoustic wall panel and ceiling tiles	Credence Industries / Armstrong / Anakon
85	Acoustical Wall panelling	Hush/ Credence Industries/Armstrong/Bollard.
86	Panels	ARIO- XTERIOR BY AIROLAM/Century/Marino
87	Corrugated GI Sheets	Tata, Essar , Sail JSW, Bhusan
88	PET Acoustical Panels	Tranquil or equivalent
89	Non asbestos high impact polypropylene reinforced Cement sheet	Everest / Bison (NCL) / HIL (Birla Aerocon).
90	Polycarbonate sheet	GE Plastic /Lexan / MG Polyplast
91	Float Glass Profile Sheet TATA (transparent)	Tata, Modiguard, Saint Gobain
92	Clear Float Glass	Saint Gobain, Ashahi India, Modi Float
93	FRP Chhajjas	Selected Products Company / Jayna / Creative Engineering
94	FRP Porta cabin	Selected Products Company/Jayna/ Creative Engineering.
95	Modular Expansion Joint	Herculus / Sanfield India Ltd./ Vexcolt
96	Glass Wool	Dow Corning/ U.P. Twinga / Isover



97	SWR PVC Rain Water Pipe & Fitting	Vectus / Prayag / Finolex / Classic of Kisan / Kasta / Supreme / AKG / DRAIN MASTER by ASTRAL/ULTRAFIT, Prince Pipes.
98	Gypsum Moisture resistant board	Armstrong / Daiken / Hunter Douglas / Aerolite / Credence Industries / Anakon / Bollard.
99	Gypsum board false ceiling	Saint Gobain, Lafarge, Boral Board, Armstrong, Anutone
100	Premium Acrylic Emulsion Paint: Interior	Asian (Royale)/ ICI (Velvet)/ Berger (Luxol Silk)/ Nerolac Impression / Snowcem paints
101	Plastic emulsion paint	Asian paint: (Apolite Heavy Duty Premium Emulsion paint) / Nerolac: Impressio / Berger: Easy clean / ICI-Dulux: Velvet touch / Snowcem / Berger
102	Epoxy Primer & Paints	Berger / Pidilite / CICO / BASF / SIKA / Asian / Nerolac / ICI Kansai Akzo Nobel/STP Ltd.
103	Melamine Polish	Melamine Gold of Asian Paint / Wudfin of pidilite / Timbertone of ICI Dulux / Beegel / Berger.
104	Oil Bound Distemper/Dry Distemper	Asian (Professional Acrylic Distemper)/Maxilite of ICI / Bisan of Berger / Nerolac (Beauty Acrylic Distemper) / Snowcem Paints.
105	Acrylic Distemper 1 st quality (washable/ Readymix / Low VOC)	Asian Paints (Tractor Aqua Lock Paint)/ Berger: commando or equivalent paints of Nerolac or ICI-Dulux / Snowcem
106	Polyester Powder Coating	Nerolac / Berger / J&N
107	Primer (Cement Primer) /Interior /Exterior /Metal /Wood	Decoprime WT of Asian / white primer of ICI/BP white of Berger / Nerolac / Snowcem
108	Synthetic Enamel Paints	Gloss Synthetic Enamel of ICI(Dulux) / Asian (Apolite Premium gloss) / Berger (Luxol Hi Gloss)/ Synthetic Hi Gloss of Nerolac / Snowcem Paints / Berger
109	Textured Exterior wall paint	Spectrum / Ultratech / Asian paint/Berger / Nerolac / Luxture / Snowcem
110	Steel / Wood primer / paint	ICI deluxe, nerolac, berger, Asian, Snowcem
111	Wall Putty (White Cement based) As per IS:17545.	Birla wall care / JK white / Berger / Asian paints / ferrous Crete / Snowcem Paints, Nerolac / Berger / Nuvoco (MBM)



112	Gypsum plaster	Ferrous crete / Gyproc (Elite-90) / Ultratech / Asian
113	Acrylic Smooth Exterior Paint	Asian Paint: (Apex / Professional Premium Exterior Emulsion / Nerolac: XL/Berger: Weather coat/ICI-Dulux: Weather Shield/ Snowcem
114	Premium Acrylic Smooth Exterior Paint with Silicon Additive	Asian paint: Apex Ultima / Nerolac: XL Total / Berger: Weather coat all guard / ICI dulux: Weather Shield max/ Snowcem Snowcryn.
115	Fire Retardant Paint	Akzo Nobel Coatings India Ltd. / PROMAT / Jotun / Berger
116	Ready Mix Plaster	Ultratech / Ferrous Crete / Saint Gobain
117	Water proof exterior paint	Shalicyrl 215 of STP Ltd./Berger/Asian
118	Synthetic Plaster Texture Paint	Snowcem Paints / Asian Paint / Berger / Dulux
119	Cement Concrete Paver Block &Kerb stone as per IS: 15658.	Rigid Tiles / Raj-Tiles / Concreto+ by Sai Sales. / Goyal Concrete pipe
120	Bitumen 85/25	HPCI, IOCL, BPCL
121	Bitumen VG-30, VG-10 etc.	As per particular specification of item from IOCL, BPCL, HPCL.
122	AAC block	Ecorex, E-Nova (ISI marked) / Dinesh AAC (ISI Mark) Aerocon Buildwell
123	Road safety Products	Shakti / Vectus /Aquatech
124	Coal tar sealer for roads	Shaliseal RSTC of STP Ltd./Shalimar/ Jemkon Pvt. Ltd.
125	P.T.M.T. Taps/Valves and Accessories as per IS:9763	Prayag / PRAKASH / SURYA / Supreme/ KINGSTON / Shakti / Varmora
126	Plastic Bib cock and other fittings IS: 9763	Prayag/Swastik/Polo/ Varmora.
127	Centrifugally As per IS: 3989 / Hubless Cast Iron Pipe & Fittings as per IS: 15905	Neco/ RIF/ Kapilansh / BIC / SKF / Electrosteel / RPFM
128	CP Bottle Trap	Parryware / Hindware/ Jaquar



129	CP Brass Bibcock / Pillarcock / Stopcock / Angle Valve / Concealed Stop Cock & CP fittings (Normal Range) As per IS: 8931:1993	Marc (oriental series)/ Parko/ Jaquar (Continental series)/SPRING COLLECTION OF PRIMA /GEM/ ESS / Plumber / L&K Metro / Vardhman / 'Coral' series of parryware / 'JOY' & 'VINTAGE' series of KEROVIT by Kajaria / Player/ KINGSTON / Varmora / Asian (bathsense / ESS ESS).
130	CP Waste Coupling	Mark/ Parko/Plato Brand
131	PVC Flushing cistern (single/Dual Flush) as per IS: 7231	Sleek Dual flush PVC cistern of Hindware / 'Slimline' of Parryware / Shakti / Prayag / Bathsense by Asian Paints
132	PVC Concealed Cistern & Push Plates	Parryware / Hindware / Jaquar / TECE by Asian Paints
133	Fiber Glass Shelf	Kamal/ Bath King/Prayag
134	Flush Valve	Marc/ Parryware / Jaquar.
135	Jet Assembly for EWC	Parryware / Jaquar / Grohe / Kohler
136	Low Level PVC Cistern Single flush	Sleek model Cistern of PVC of Hindware / Slimline model of Parryware / JINDAL / Shakti
137	Plastic Connection Pipe	Parryware / Kamal / Delux /Prayag
138	Solid Plastic Seat Cover for EWC As per IS: 2548-2	EWC standard seat covers white of Parryware / Hindware / 'KEROVIT' by Kajaria / Prayag
139	Vitreous China Floor Mounted European W.C. without cistern as per IS: 2556: Part-II.	Parryware / Hindware / 'KEROVIT' by Kajaria / CERA / Jaquar / Somany / Bathsense by Asian
140	Water closet (Orissa Pan/Indian type) & fittings, accessories as per IS: 2556 Part-3	Parryware / Hindware / 'KEROVIT' by Kajaria / Jaquar/ Somany/ Varmora/ Asian (bathsense/ESS ESS).
141	Vitreous China Wash Basin Oval As per IS: 2556: Part-IV.	Hindware / Parryware / 'KEROVIT' by Kajaria / CERA /Jaquar / Somany / Bathsense by Asian.
142	Vitreous China Floor Moulded European W.C. with Cistern Complete As per IS: 2556: Part-II.	Parryware / Hindware / 'KEROVIT' by Kajaria / CERA/ Jaquar / Somany / Bathsense by Asian



143	Vitreous China Half Stall Urinal and Partition Plates As per IS: 2556: Part-VI.	Model No. 6002 Urinal flat back large of Hindware or magnum of Parryware / Jaquar/Somany
144	Stainless steel Sink with or without Draining board. As per IS:13983.	Nirali / Hindware / Frankee / Cobra / AMC / Selected Products Company / Parryware / Neelkanth / KINGSTON / Varmora
145	Vitreous China laboratory Sink	Hindware / Parryware / KEROVIT' by Kajaria / CERA / Jaquar / Somany
146	Vitreous China Low Level Cistern for European W.C.	Hindware / Parryware / KEROVIT' by Kajaria / CERA / Jaquar / Somany
147	Vitreous China Pedestal for Wash Basin	Pedstal of Parryware / Hindware or equivalent/ CERA
148	Vitreous China Wall Mounted W.C. with vitreous Cistern	Parryware / Hindware /KEROVIT' by Kajaria / CERA / Jaquar / Somany
149	Vitreous China Wall Mounted W.C. without Cistern.	Parryware / Hindware /KEROVIT' by Kajaria / CERA / Jaquar / Somany
150	Vitreous China Wash Basin Rectangular without Pedestal	Hindware / Parryware /KEROVIT' by Kajaria / CERA / Jaquar / Somany
151	Waste Pipe	Kamal with brass checknut / Viking / Prince
152	CPVC Pipes as per IS:15778 and fittings IS: 15576.	AKG /Ashirvad / PRIME FLOW OF KRISHI POLYMERS / Supreme / KSR by Kisan rrigation / Flowguard plus by finolex / Prince / Prayag / Vectus / CPVC PRO by Astral / SFMC / Flow Guard Plus by Prince Pipes / TEXMO / PARAS by Bothra Agro / Kothari.
153	CPVC pipes for fire protection system as per IS: 16088 Automatic sprinkler fire extinguishing system	Blazemaster of Ashirvad / Supreme /Astral
154	uPVC Pipes as per IS: 4985 and fittings IS: 7834, IS: 10124.	KRISHNA plast pipes / AKG / KSR by Kisan irrigation / Supreme / Astral / Prince / Ashirvad / Prayag / SFMC / ULTRAFIT / TEXMO / PARAS / Fusion / Kothari.



155	PVC fittings as per IS: 10124 and IS: 7834	KSR brand / Astral / Ashirvad / Prince
156	Brass bib cocks/stop cock	Marc / Parko / Jaquar / SPRING COLLECTION OF PRIMA as per IS: 781
157	Brass ball cocks (Float valve) as per IS:1703	Marc / Parko / Jaquar / SPRING COLLECTION OF PRIMA Prayag / Plato Brand
158	C.P. Brass fittings (Superior Range)	Jaquar/Grohe/Roca
159	C.P. Brass Faucets, Showers, Accessories & Essential	Kohler / Hindware / Roca / Jaquar
160	Sanitary ware fittings & Accessories (Superior range)	Kohler /Roca / Hindware / Parryware
161	Towel Ring/Towel Rod/Towel Rack	Kamal / Marc / Parryware / Jaquar / Kohl
162	Mirror glass	Atul / Modi Guard / Golden Fish / GOLD PLUS
163	CI Nahani Traps/Floor Tap/Bend/ Foot Steps (KFAI)	Kwality Foundry Industries, Raipur / Kapilansh / Nico
164	GI fitting	Tata / Jindal / Zenith
165	GI Pipe	Tata / Zenith / Jindal (HISAR) / SAIL / HIRA / Sambhav Steel
166	Gun Metal Gate Valve	Zoloto / Leader / SAINT
167	PE-AL-PE Composite pipes for hot & cold water	Jindal / KiTEC / Vectus.
168	Water meter	SPRING COLLECTION OF PRIMA as per IS: 779/Kranti/Zoloto
169	HDPE Pipes as per IS:4984 and fittings	KRISHNA plast pipes/KSR by Kisan irrigation / Supreme /Reliance / Jain / Vectus / Astral / CG Plast / Ashirvad / TEXMO / Kothari.
170	Polyethylene water storage tanks as per IS: 12701	Sintex, water well, Siltank, Polywell / Plasto / 'SILTANK' by Supreme / Vectus / CG Plast / STOREFIT by Prince Pipes



171	UPVC Agriculture / Pressure pipes as per IS: 4985 and fittings	AKG Extrusion Pvt Ltd. / Astral / Ashirvad / Kothari.
172	UPVC underground drainage & sewerage pipes SN 4/ SN 8/Structured wall type as per IS: 16098	KSR by Kisan irrigation / Finolex / AKG / Supreme / Foam Core by Astral / Ashirvad / Prince Pipes / TEXMO / Kothari.
173	PPR-C pipes as per IS: 15801	KSR brand / Supreme / Vectus / SFMC / KPT / Prince Pipes
174	CPVC pipe for firefighting Sprinkler system	FIREPRO by ASTRAL/Supreme/Ashirvad.
175	PVC septic tanks	'Safegard' by Supreme/Sintex/Plasto
176	PVC underground water tanks	'Amrutam' by Supreme/Sintex/Plasto
177	PVC readymade toilet blocks	'Cleanage' by Supreme/Sintex/Plasto
178	PVC/FRP chambers, Manholes & Covers	Supreme/ Drain Hulk by Astral/Prince
179	D.I. Pipes & fittings	Electrosteel / Jindal / Tata Ductura / Kapilansh / Kesorom
180	C.I. manhole covers, frames & CI Gratings	Neco / Raj iron Foundary Agra / BIC / SKF / Kapilansh /RPMF / Kwaliti Foundry Industries / Plato Brand
181	SFRC/ RCC manhole cover & Grating As per IS: 2592:2003	K.K./ Concreto+ by Sai Sales / Goyal Concrete pipe
182	Double wall corrugated polyethylene (DWC PE) Pipes IS: 16098 part II.	Nobale by Noble Polytec / REX by Astral / CORFIT by Prince Pipes.
183	M.S./Steel Tubes, ERW Pipes, Hollow steel sections (Black, Galvanized, square, rectangular, hollow) for water and sewage. As per IS: 3589	Goel Pipes / APL Apollo / HIRA / Shivam Overseas (ISKCO) / Sambhav Steel
184	EPDM Gasket	Anand Lescuyer/Hanu/Raven
185	Silicon Sealant	G.E./ DOW Corning/Waker/BASF/Pidilite/ROFF
186	Aluminium doors & window fittings (Heavy duty)	Jyoti, Argent, Everest / Kilong / Alualpha / classic / Ebco
187	Aluminium fittings	Nulite, Ebco, Sargent, Everite, Godrej, Hardima, Classic, Alaka, Jindal, Pulse.



188	Rigid Phenolic foam for cold and hot insulation as per IS: 13204	Phenotherm manufactured by Bakelite Hylam ltd/Polybond/Supreme
189	Poly Sulphide Sealant	PIDISEALbyM/s Pidilite Industry/RDL941-TECHSEAL ChokseyChemicals/BASF/SIKA/Fosroc/STP Ltd./Asian Paints/Berger/ MYK Arment.
190	Polymer Modified Cementitious grout	Bal Endura/ PidiliteKero Koal/ Ultratech/ Ardex/Ferrous Crete/Asian Paints/ STP Ltd./Berger/Kryton/ MYK Arment.
191	Aluminum Sections	Bhagwati Sai, Halco, Hindalco, Jindal, Indal, Bharuka, Indian Aluminium Co.
192	Water Proofing Compound (Liquid)	Pidiproof Ltd./CICO/ Super plast by M/s Structural water proofing/ Impermo/FOSROC/Dr. Fixit (Pidilite Industries) /BASF / ROFF / SIKA / Ardex Endura (Bal Endura)/Asian Paints/STP Ltd./Berger/NEO SEAL Adhesive Pvt. Ltd./ MYK Arment / Penetron / Xypex.
193	White cement based polymer modified self curringmortor	Ultratech/Dr. Fixit/Sika/Fosroc/Berger/Kryton/Asian
194	Integral water proofing compound with cement (for mortar & concrete) as per IS: 2645	FOSROC / Conplast 421 / Dr. fixit: LW+ / Sika : sikacim / Asian Paints: Smart care vitalia & equivalent product of BASF / CICO / Ardex Endura / STP Ltd / Snowcem / Berger / Kryton / NEO SEAL Adhesive Pvt. Ltd. / MYK Arment.
195	Water proofing for bathroom / toilet / balcony & other wet areas.	Fosroc: Brush Bond / CICO: Tapecrete /Dr. fixit: Pidilite 2k / Sika: Nito Bond / Asian Paints: Damp Block 2k & Equivalent Product of BASF / Ardex endure / Snowcem / STP Ltd. /Berger/Kryton/ NEO SEAL Adhesive Pvt. Ltd./ MYK Arment.
196	Crystalline water proofing compound.	Fosroc / Dr. Fixit / Sika Crystalline Quart & Equivalent Product of BASF / CICO / Ardex Endura / Kryton / MYK Arment Penetron / Xypex
197	Water proofing membrane (APP, SBS, PVC, HDPE, EPDM, PU based)	Asian Paints/ Dr. Fixit/STP Ltd./Berger/ MYK Arment.
198	Water proofing Universal/multipurpose polymers	Asian Paints / STP Ltd. / Dr. Fixit. / Berger / Kryton Buildmat / MYK Arment.



199	Water proofing sealants	Asian Paints/STP Ltd./Dr. Fixit. /Berger/Kryton Buildmat/ MYK Arment.
200	Water proofing micro concrete / repair mortor	Asian Paints/ STP Ltd./Kryton Buildmat
201	Waterproofing Polyurathene Coating / LEC System / Polyurathene Foam	Dr. Fixit / STP Ltd. / Kryton Buildmat / MYK Arment.
202	Swellable type water stops tape/bar	Kryton Buildmat / Supreme / KINGSTON / Penetron
203	uPVC Screen and casing pipes for bore well/tube well as per IS: 12818 and column pipes for submersible pumps	KRISHNA plast pipes / KSR by Kisan irrigation / Supreme / Astral / Ashirvad / SAFEFIT by Prince Pipes.
204	Aluminium Extrusions/ Sections/Profiles	Hindalco / Indalco / Jindal / Indian Aluminium Co./ Ultra / Divya Shree
205	Structural Silicon Sealant	Dow Corning / Wacker / GE / Du-pont
206	Protective coating, Adhesive & Insulation	Shali Urethane PC of STP Ltd. / Berger / Kryton Buildmat / Asian
207	Anti corrosive & Anti carbonation coating	STP Ltd./Asian/Trident
208	MDF (Medium density fiber) Board	DURATUFF / VIR / Century / Shirdi / Green Panel / Action TESA
209	Cover blocks/spacers	Bothra Duro Frame/Concreto+ by Sai Sales/Astron
210	Rest Room cubicle made with compact laminates	MERINO/VIRGO/Infotech
211	Vault room accessories - safes, lockers, tang bars, security door, emergency door, vault ventilator, exhaust Fan, mobile compactors, filing cabinets, strong room doors as per BIS.	Godrej & Boycee / Gunnebo-Steelage / Guardwel
212	Motorised Rolling Shutter (Automated)	Avians Innovations/Gandhi Automations/Toshi



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

**SCHEDULE OF QUANTITY – CIVIL**

**NAME OF WORK: - Carryout Interior Furnishing work at CIPET, Korba (C.G)
(Recall)**

NIT No. 01/SE/BSP/CPWD/2026-27

Sl. No.	Description	Qty	Unit	Rate (Updated with enhanced CI @98% and MF on DSR@.973)	Amount
1	CEMENT CONCRETE (CAST IN SITU)				
1.1	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
1.1.1	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).	8.00	cum	8123.40	64,987.00
1.2	Centering and shuttering including strutting, propping etc. and removal of form work for:				
1.2.1	Foundations, footings, bases for columns	6.00	sqm	373.95	2,244.00
2	MASONRY WORK				
2.1	Brick work with common burnt clay F.P.S. (non-modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in:				
2.1.1	Cement mortar 1:6(1 cement: 6 coarse sand)	5.00	cum	8682.90	43,415.00
3	CLADDING WORK				
3.1	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
3.1.1	Granite work	27.00	metre	487.20	13,154.00



3.2	Providing and fixing 4 mm thick coir veneer board, ISI marked IS: 14842, plain lining with necessary screws, priming coat on unexposed surface etc., complete.	560.00	sqm	1740.25	9,74,540.00
4	WOOD AND P. V. C. WORK				
4.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia. & length (hold fast lugs or dash fastener shall be paid for separately).				
4.1.1	Second class teak wood	0.24	cum	136308.25	32,518.00
4.2	Extra for providing frosted glass panes 5 mm thick (weight not less than 12.5 kg per sqm) instead of ordinary float glass panes 5 mm thick (weight not less than 12.5 kg per sqm) in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured.)	182.00	sqm	168.20	30,612.00
4.3	Providing and fixing flat pressed three layer particle or graded plain wood board medium density exterior grade (Grade I) FPT-I, conforming and marked to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately)				
4.3.1	12 mm thick	560.00	sqm	765.65	4,28,764.00
4.4	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
4.4.4	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	19.00	sqm	3312.45	62,937.00
4.5	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	31.00	each	937.45	29,061.00



4.6	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
4.6.1	300x10 mm	31.00	each	124.05	3,846.00
4.7	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				
4.7.1	Twin rubber stopper	31.00	each	69.00	2,139.00
4.8	Providing and fixing frame work for partitions/ wall lining etc. made of 50x50x1.6 mm hollow MS tube, placed along the walls, ceiling and floor in a grid pattern with spacing @ 60 cm centre to centre both ways (vertically & horizontally) or at required spacing near opening, with necessary welding at junctions and fixing the frame to wall/ ceiling/ floors with steel dash fasteners of 8 mm dia., 75 mm long bolt, including making provision for opening for doors, windows, electrical conduits, switch boards etc., including providing with two coats of approved steel primer etc. complete, all as per direction of Engineer-in-charge.	4090.00	kg	159.05	6,50,515.00
4.9	Providing and fixing in wall lining medium density fibre board IS: 14587:1998 marked, Pre-laminated one side decorative lamination and other side balancing lamination, with necessary fixing arrangement and screws etc. complete.				
4.9.1	25 mm thick.	11.00	sqm	1823.40	20,057.00
5	FLOORING				
5.1	25 mm wooden planking, tongued and grooved in flooring, including fixing with iron screws complete with:				
5.1.1	Second class teak wood	308.00	sqm	4299.45	13,24,231.00



5.2	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.				
5.2.1	Polished Granite stone slab of colour Black, Cherry/Ruby Red or equivalent	25.00	sqm	4273.10	1,06,828.00
6	ROOFING				
6.1	Providing and fixing false ceiling at all heights including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia. x 50 mm long with 6 mm dia. bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia. x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25 mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and				



	square edges of the board with recommended jointing				
	compound, jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cut-outs made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :				
6.1.1	12.5 mm thick tapered edge gypsum moisture resistant board	429.00	sqm	1458.05	6,25,503.00
7	FINISHING				
7.1	12 mm cement plaster of mix:				
7.1.1	1:6 (1 cement: 6 coarse sand)	22.00	sqm	327.70	7,209.00
7.2	15 mm cement plaster on rough side of single or half brick wall of mix:				
7.2.1	1:6(1 cement: 6 coarse sand)	22.00	sqm	377.00	8,294.00
7.3	Providing and applying white cement-based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	30.00	sqm	148.80	4,464.00
7.4	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.				
7.4.1	Two coats	473.00	sqm	136.15	64,399.00
7.5	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
7.5.1	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	44.00	sqm	70.50	3,102.00
7.6	Melamine polishing on wood work (one or more coat).	764.00	sqm	131.70	1,00,619.00



8	Dismantling and Demolishing				
8.1	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead:				
8.1.1	Of area 3 sq. metres and below	8.00	each	350.15	2,801.00
9	SANITARY INSTALLATIONS				
9.1	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required:				
9.1.1	Kitchen sink without drain board				
9.1.1.1	610x510 mm bowl depth 200 mm	2.00	each	4711.25	9,423.00
10	ALUMINIUM WORK				
10.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia. and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately):				
10.1.1	For fixed portion				
10.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	2818.00	kg	472.05	13,30,237.00
10.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				



10.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	370.00	kg	570.80	2,11,196.00
10.2	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade-I, Type-II, in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.				
10.2.1	Pre-laminated particle board with decorative lamination on both sides	354.00	sqm	1063.60	3,76,514.00
10.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item):				
10.3.1	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	182.00	sqm	1435.30	2,61,225.00
10.5	Providing and fixing Brass 100 mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	17.00	each	504.30	8,573.00
10.6	Providing and fixing aluminium round shape handle of outer dia. 100 mm with SS screws etc. complete as per direction of Engineer-in-charge				
10.6.1	Polyester powder coated minimum thickness 50micron aluminium	62.00	each	106.95	6,631.00
10.7	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double acting hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc.to be paid separately).	9.00	Sqm	5078.45	45,706.00
11	NEW TECHNOLOGIES AND MATERIALS				



11.1	Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non-combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991, in true horizontal level suspended on inter-locking metal powder coated T-Grid of hot dipped galvanised iron section of 0.40 mm thick on Silhouette profile, rotary stitched double webbed white with 6 mm reveal profile (white/ black), comprising of main-T runners of size 15x42 mm of length 3000 mm, cross - T of size 15x42 mm of length 1200 mm and secondary intermediate cross-T of size 15x42 mm of length 600 mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia. fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x2 mm. Galvanised iron perimeter wall angle of size 22x19x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm centre to centre and 40 mm long dry wall S.S screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge.				
11.1.1	With 15 mm thick integral densified micro edge light weight calcium silicate false ceiling tiles	965.00	sqm	2508.20	24,20,413.00
12	Wooden Partition work				



12.1	Providing and fixing 85 mm thick wall partitions finished with top layer of 4mm thick veneer of approved shade/ pattern on both side under layer of 12mm thick ply of BWR grade. The frame work shall consist of 50mm x 50mm x 1.6 mm hollow MS tube placed along the wall/ceiling and floor/intermediate partition in a grid pattern with spacing at 60 cm centre to centre both ways and finished with melamine polish as per design all compete as per drawing, specification and direction of the E-in-C. Payment will be made based on finish veneer surface of one side. (Hollow MS tube and melamine polish will be measured in respective item.)	70.00	sqm	5058.45	3,54,092.00
12.2	Providing and fixing 85 mm thick wall partitions finished with top layer of 1mm thick laminate of approved shade/ pattern on both side of partition with under layer of 12mm thick ply of BWR grade. The frame work shall consist of 50mm x 50mm x 1.6 mm hollow MS tube placed along the wall/ceiling and floor/intermediate partition in a grid pattern with spacing at 60 cm centre to centre both ways and finished with melamine polish as per design all compete as per drawing, specification and direction of the E-in-C. Payment will be made based on finish laminate surface of one side. (Hollow MS tube will be measured in respective item.)	214.00	sqm	4114.40	8,80,482.00



12.3	12 mm thick PET acoustical panels shall be supplied and installed for wall/ceiling applications as specified in drawings. Panels shall be manufactured from recycled Polyethylene Terephthalate (PET) fibres, non-toxic, low VOC, and safe for indoor use, with a density of 180–230 kg/m ³ and standard size of 2440 mm × 1220 mm or as required. The panels shall provide a minimum Noise Reduction Coefficient (NRC) of 0.40, be moisture and mould resistant, dimensionally stable, and have a minimum Class B/Class 1 fire rating. Finish shall be factory-coloured with uniform texture and clean square or bevelled edges as approved by the consultant. Installation shall include all necessary adhesives, fasteners, supports, framework, cutting, and finishing complete as per site conditions. The rate shall include supply, transport, labour, and all accessories, and the product shall carry required acoustic and fire test certifications along with a minimum 5-year warranty against manufacturing defects all compete as per drawing, specification and direction of the E-in-C.	300.00	sqm	2982.55	8,94,765.00
13	Furniture work				
13.1	Providing and fixing in position, Storage cum filling unit made of 18mm ply as per design top shall be finished with approved laminate (1 mm thick matt laminate sheet) and front to be provided in 25mm board shutter finished with 1mm thick laminate . Inside to be provided one shelve with 25mm block board with 750 mm height of the cabinet. Inside to be painted with approved colour and skirting to be painted with approved synthetic enamel paint / polishing complete with all hardware, as per the drawing supplied by the architect. (Only front area to be measured for payment)	79.00	sqm	9336.45	7,37,580.00



13.2	Providing, fixing and placing at site mini conference tables made of 18 mm thick ply as per design, top, sides and front to be finished with 4mm thick veneer sheet of approved shade to be pasted over 18 mm thick ply including foot rest and front side of the credenza to be provided and entire top of the table to be finished with 4mm thick veneer sheet of approved shade as per design. All veneer to be polished in melamine finish as required including 1st class teak wood beading all compete as per drawing, specification and direction of the E-in-C.(Only table top to be measured for payment)	11.00	sqm	9769.05	1,07,460.00
13.3	Providing, fixing and placing at site Main Conference tables made of 18 mm thick ply as per design, top, sides and front to be finished with 4mm thick veneer sheet of approved shade to be pasted over 18 mm thick ply including foot rest and front side of the credenza to be provided and entire top of the table to be finished with 4mm thick veneer sheet of approved shade as per design. All veneer to be polished in melamine finish as required including 1st class teak wood beading all compete as per drawing, specification and direction of the E-in-C. (Only table top to be measured for payment)	22.00	sqm	11950.15	2,62,903.00
13.4	Providing, fixing and placing in position storage cum working platform made of 18 mm thick ply as per design, top shall be finished in 18 mm thick Black Granite with moulding as per drawings and front to be provided in 25 mm thick block board shutter finished with 1mm thick laminate. Inside to be provided one shelve with 25 mm thick block board, height of the cabinet 840 mm, SS sink /wash basin as per design including 1st class teak wood bidding complete with all hardware, as per the drawing supplied by the architect. Only top area to be measured for payment. (Granite, and SS sink /wash basin will be measured in respective item)	16.00	sqm	15633.40	2,50,134.00



13.5	Providing fixing and placing at site Director's tables, made of 18 mm thick ply top, sides, front & inside of credenza to be finished with 4mm thick veneer sheet of approved shade to be pasted and finished with melamine polish, including foot rest. The drawer, inside shelve and openable shutters shall comprise of 12 mm thick commercial ply including sliding channel of SS 304 grade i/c locking arrangement, handle etc. of approved make complete as per design and drawing and as approved by E-in- C . (Only top area to be measured for payment.) (Melamine polish will be measured in respective item)	2.00	sqm	11162.15	22,324.00
13.6	Providing, fixing and placing at site workstations and computer tables, made of 18mm ply as per design, top, sides & front to be finished with approved colour matt finish of 1mm thick laminate sheet. Back side of the table to be provided with drawers and shelves etc. with locking arrangement and foot rest. Front side of the credenza to be provided with 12mm thick commercial ply openable shutters finished with 1mm thick laminate sheet on telescopic channel with inside shelves for storage and entire top of the table to be provided with laminate and edges to be finished with 1st class teak wood beading, including all hardware complete as per the drawings and as approved by E-in-C (Only table top to be measured.)	78.00	sqm	12663.25	9,87,734.00
13.7	Providing, fixing and placing in position, storage cum filling unit made of 18 mm thick ply as per design. Top shall be finished with approved laminate (1 mm thick matt laminate sheet) and front to be provided with 25mm thick block board shutter, finished with 1mm thick laminate and inside shelves to be provided with 25 mm thick block board. The size of the cabinet is 2.10 m x 1.2 m (height x width), inside and skirting finished with synthetic enamel paint with all hardware, accessories like auto closing hinges, handles and locking arrangement etc. and 1st class teak wood beading in shutter all compete as per drawing, specification and direction of the E-in-C. (Only front area to be measured for payment) (Synthetic enamel paint will be measured in respective item)	129.00	sqm	8794.75	11,34,523.00



13.8	Providing, fixing and placing in position showcase (for display of achievements) of 18 mm thick ply as per design, top shall be finished with approved 4mm thick veneer and front and side to be provided with 12 mm clear toughened glass, with S.S. self-closing hinges, handles and locking arrangement for laminated shutters. Inside to be provided with one shelf with 8 mm glass, height of the cabinet is 2.45 m. Inside/ visible area to be finished with veneer and laminate complete as per drawing, specification and direction of the E-in-C. Front portion to be measured for payment. (Toughened glass, melamine polish, synthetic enamel paint will be measured in respective item)	10.00	sqm	7721.70	77,217.00
13.9	Providing, fixing and placing at site, computer tables of size 900x750mm, made with 18mm thick ply as per design, top, sides, back & front to be finished with matt finish 1mm thick laminate sheet. Shelve 18mm thick of size 200x 600 mm to be provided in the base for the PC. including all hardware, accessories and 1st class teak wood beading as per drawing, specification and direction of the E-in-C. (Only table top to be measured for payment)	103.00	sqm	17110.65	17,62,397.00
			Total		1,67,47,768.00

**Executive Engineer
Bilaspur Project
CPWD, Bilaspur**



PART - C

Minor Component

(Electrical and Mechanical Services)



CPWD-7

PROFORMA OF SCHEDULES FOR E&M

SCHEDULE 'A'

Schedule of quantities (as per PWD-3) as per schedule of work attached from **page no. 116 to 135**.

SCHEDULE 'D'

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

SCHEDULE 'E'

Reference to General Conditions of contract	: As per Part 'A' of NIT
Name of Work	: As per Part 'A' of NIT
Estimated cost of work	: Rs 51,74,428/- (Electrical & Mechanical Work)
(i) Earnest Money	: As per Part 'A' of NIT
(ii) Performance Guarantee	: As per Part 'A' of NIT
iii) Security deposit	: As per Part 'A' of NIT

SCHEDULE 'F'

GENERAL RULES & DIRECTIONS	:	
Officer inviting tender	:	As per Part-A of NIT
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3.	:	See below
Definitions	:	
2(vi) Engineer -in- Charge	:	The Executive Engineer (E), CPWD, Bilaspur or his successor. (Electrical & Mechanical Work)
2(viii) Accepting Authority	:	As per Part-A of NIT
2(x) Percentage on cost of materials and Labour to cover all overheads and profits	:	15%
2(x)(a) Standard Schedule of Rates	:	DSR (E&M) 2025 and Market Rate.
2(xi) Department	:	CPWD
9(ii) Standard CPWD Contract Form GCC CPWD Form 7/8 as modified & corrected upto	:	As per Part 'A' of NIT

AE (P)

Correction/Addition/ Omission/ Deletion Nil



Clause 1		
(i) Time allowed for submission of Performance Guarantee, programme chart (Time and progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW welfare board or proof of applying thereof from the date of issue of letter of acceptance	:	As per Part 'A' of NIT
(ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above	:	As per Part 'A' of NIT
Clause 2		
Authority for fixing compensation under clause 2	:	As per Part 'A' of NIT
Clause 2A		
Whether Clause 2A shall be applicable	:	As per Part 'A' of NIT
Clause 5		
Number of days from the date of issue of letter of acceptance for reckoning date of start	:	As per Part 'A' of NIT
Clause 6		
Computerized Measurement Book (CMB) / Electronic Measurement Book (EMB) (i) Mode of measurement: CMB / EMB	:	Electronic Measurement Book (EMB)/CMB
Clause 7		
Gross work to be done together with net payment /adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment	:	13 Lakhs
Clause 7A		
Whether be clause 7A shall applicable	:	As per Part 'A' of NIT
Clause 8A		



Authority to decide compensation on account if contractor fails to submit completion plans	As per Part 'A ' of NIT
Clause 10A	
List of testing equipment to be provided by the contractor at site lab.	: LT/HT Megger 2. Earth Tester 3. Tongue Tester 4. Lux meter 5. Multi meter
Clause 10B (ii)	
Whether Clause 10 B (ii) shall be applicable	: Not applicable
Clause 10C	15%
Component of labour expressed as percent of value of work	: (Applicable in only those contracts where clause 10 CC is not applicable.)
Clause 10 CC	: Not Applicable
Clause 11	
Specifications to be followed for execution of work	: General Specification for Electrical works Part-1 for Internal Electrical Works 2023 as amended up to date. General Specification for Electrical works Part-2 for External Electrical Works 2023 as amended up to date. Heating, Ventilation & Air-Conditioning (HVAC) 2024 as amended up to date.
Clause 12	
Authority to decide deviation upto 1.5 time of tendered amount	As per Part 'A ' of NIT
12.2. & 12.3 Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for building work	: As per Part 'A ' of NIT
Clause 16	
Competent Authority for deciding reduced rates	: As per Part 'A ' of NIT
Clause 18	
List of mandatory machinery, tools & plants to be deployed by the contractor at site	: 1. Screw Gauge 2. Vernier Caliper 3. Chase cutting machine 4. Conduit bending machine & crimping tool. 5. Assorted sizes of Ladder
Clause 19C	As per Part 'A ' of NIT
Clause 19D	As per Part 'A ' of NIT



Clause 19 G			As per Part 'A ' of NIT			
Clause 19K			As per Part 'A ' of NIT			
Authority to decide penalty for each default		:	As per Part 'A ' of NIT			
Clause 25						
Constitution of Dispute Redressal Committee (DRC)		:	As per Part 'A ' of NIT			
Clause 32 (i)						
Requirement of Technical Representative and recovery Rate:						
S. No	Minimum Qualification of Technical Representative	Number	Minimum experience (years)	Design ation	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36 (i)	
1.	Graduate Engineer or Diploma Engineer	As per Part 'A ' of NIT				

Assistant Engineers retired from Government service holding Diploma will be treated at par with Graduate Engineers. Diploma holders 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.

Clause 38: - Not Applicable for E&M work



PART-C

ELIGIBILITY CRITERIA FOR MINOR COMPONENTS (E&M)- PART-‘C’

1. The successful bidder should either himself meet the eligibility conditions for the respective E&M components or otherwise he will have to associate with agencies, fulfilling the eligibility requirements and hence consent letter from at least one eligible Associate Agency of the respective components of E&M work shall also be submitted as per attached Proforma. The successful bidder shall thoroughly check whether the agency with whom association is proposed meet the eligibility or not before submitting the consent letter.
2. In case the main contractor is himself eligible (as per eligibility criteria) for executing any specific minor component and intends doing the job himself, he may not be required to associate with another agency for that minor component of work. In such cases the main contractor also has to submit the documents as per eligibility criteria mentioned for associated agency of individual E&M component.
3. Main agency shall have to submit credentials of the proposed associated agencies for verification and approval of the department in pro-forma at ‘Form-H’ and Consent letter as per ‘Form-G’. After approval of agency by the Engineer-in-charge of minor component, the main contractor has submit MOU with each of the associated agency in pro-forma at ‘Form-I’ within 30 days from the date of issue of award letter.
4. The main contractor have to submit the following documents for association of electrical contractor within one month of award of work or 15 days before start of electrical related work whichever is earlier.
 - (i) In support of the eligibility conditions of the proposed associated electrical contractor, copy of their registration documents, Electrical Contractor’s License, PAN Card, GST Registration duly attested by the applicants (Main Contractor) shall be submitted to the EE(C) who will submit these documents to the Executive Engineer (Electrical), CPWD, Bilaspur, for deciding the eligibility within seven days of receipt of the same. Each such electrical contractor will certify that they are not debarred as on the day of association with the main contractor. Proposal for associating agency for minor components of work shall be submitted in Form- “H” of this tender document from each associate independently for all electrical and mechanical components.
 - (ii) After approval of the associate contractor, the main contractor will submit separate MOU signed with each of associate contractor associated with the main contractor. The MOU in the enclosed form shall be signed by both the parties’ i.e. main contractor as 1st party and associated electrical contractor as 2nd party, independently for all electrical and mechanical components.



5. In the event of the concerned associated contractor not performing satisfactorily or failure of associate contractor to complete the E&M work, the main contractor, on written directions of the department, shall remove the Associate contractor deployed on the work and shall submit name of new associate who fulfil the conditions mentioned in NIT to execute the left-over work without any loss of time or variation in cost to the department. Such associates shall also give an undertaking along with the main tenderer that both of them shall stand guarantee for which payment has been released by the Department in part for any equipment supplied for the work, during the currency of the earlier Associate contractor and paid partly by the Department. Also, if any such material becomes redundant/ not in a position to be installed and commissioned and put to beneficial use due to change in agency for execution of E&M work, the main contractor shall be liable for replacement of the equipment(s) at no cost to Department. No change of Electrical Contractor will be allowed without prior approval of the Engineer-in-charge of the work.
6. All technical discussions shall be attended by the associate agencies and the main agency. Commercial/Technical submissions for the electrical works shall be signed and submitted by the associate agencies along with the main agency.
7. The main contractor shall be entirely responsible and answerable for all the works done by his associated electrical agencies regarding their quality, adherence to the laid down specification, terms and conditions, warranty/guarantee etc and he shall be liable to bear any compensation that may be levied by the department under any of the clauses of the agreement.

In respect of all Sub-Works of E&M works i.e. Carryout interior Furnishing Work at CIPET Korba (C.G.) (SH: E&M Work).

the materials and equipment shall be procured only from the original equipment manufacturers/ authorized dealers of OEM. The contractor shall submit all documentary details in fulfilment of these conditions regarding procurement of materials including relevant test certificates.

8. Executive Engineer (E) shall be the Engineer-in-charge as far as electrical and mechanical works are concerned. Separate tender schedule abbreviated CPWD-7 and Special Conditions



- for Electrical Work are appended with this tender. It will be obligatory on the part of the contractor/ tenderer to sign the tender documents for all the component parts.
9. The main contractor shall be responsible and liable for proper and complete execution of the Electrical and mechanical work and ensure coordination and completion of both civil and electrical work.
 10. The main contractor, who is not having desired experience as per eligibility criteria has to enter into agreement with eligible contractors associated by him for executing of minor components. Copy of such agreement shall be submitted to Executive Engineer (E) in charge of minor component as well as Engineer-in-charge of major component.
 11. The associate contractor shall attend the inspection of the work by the Engineer –in-charge of E&M works as and when required.
 12. No change of Electrical Contractor will be allowed without prior approval. For components of specialized works, the eligibility criteria to associate a firm/agency shall be as detailed below.



13. For components of specialized works, the eligibility criteria to associate a firm/agency shall be as detailed below.

Sr. No.	Component E&M works	Estimated Cost in Rs.	Eligibility for associate Contractor
1	Sub Head- I, II, III (IEI)	Rs 17,27,424/-	Contractor enlisted in CPWD in Building and roads category and appropriate class having valid electrical license.
2	Sub Head-IV (Air Conditioning)	Rs 7,59,541/-	Similar work shall mean "SITC of Air Conditioning i) Three Similar completed works each costing not less than of 40% (Rs. 3.03 Lakhs.) of the estimate cost put to tender. or ii) ii) Two Similar completed works each costing not less than of 60% (Rs.4.55 Lakhs) of the estimate cost put to tender. or iii) One Similar completed works each costing not less than of 80% (Rs.6.07 Lakhs) of the estimate cost put to tender.
3	Sub Head-V (AV System)	Rs 26,87,463/-	Similar work shall mean "SITC of AV System i) Three Similar completed works each costing not less than of 40% (Rs. 10.74 Lakhs.) of the estimate cost put to tender. or ii) ii) Two Similar completed works each costing not less than of 60% (Rs.16.12 Lakhs) of the estimate cost put to tender. or iii) One Similar completed works each costing not less than of 80% (Rs.21.49 Lakhs) of the estimate cost put to tender.

- Components of work executed other than those included in definition of similar work shall be deducted while calculating cost of similar work. Bidder shall submit abstract of cost of work in support of this.
- For the purpose, "Cost of work" shall mean gross value of the completed work including the cost of material supplied by the Government/ client, but excluding those supplied free of cost. This should be certified by an officer not below the rank of Executive Engineer or equivalent
- The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to previous day of last date of submission of tenders.
- The Association of specialized agency shall be approved by the Engineer in charge of respective category after submission of required document by the successful bidder.



5. The firm should have successfully completed similar works during the last Seven years ending last day of the month previous to the one in which tenders are invited.
6. For Sub head at Sr. No. 1 & 2 above the Building and Roads contractor shall have to associate other agencies for execution of each of the work, who fulfills the eligibility criteria as cited above for these works duly taking prior approval from the department. However, the Building and Roads category contractor/successful bidder shall also be eligible to carry out himself/herself any or all of these works without associating any specialized agency provided:
 - (a) He fulfills the prescribed eligibility criteria respectively for these works.
or
Eligibility criteria of each such agency to be associated is stipulated above.
7. The Building and Roads contractor and the associated specialized agencies shall give required affidavit to confirm their association as Proforma "H" given in part "C" in the tender documents.
8. Tender accepting authority may approve change of Sub-Agency in case it is required during the currency of the contract.
9. The main contractor has to submit consent letters as per Form-G, given in Part A of the tender document at least one eligible associate agency of the respective component of specialized work for each of the component of specialized works by clearly indicating the component of work within 30 days of award of work OR 15 days before start of minor component of work whichever is earlier.
10. The main contractor will submit MOU signed with eligible registered Building and Roads contractor of CPWD or Specialized agency. The MOU in the enclosed Form- "I" shall be signed by both the parties' i.e. main contractor as 1st party and associated specialized contractor as 2nd party, independently for each of the sub-works of "Carryout interior Furnishing Work at CIPET Korba (C.G.) (SH: E&M Work).
11. If the main contractor fails to associate agency for execution of minor components of work within 30 days of award of work OR 15 days before start of minor components of work whichever is earlier or furnishes incomplete details or furnishes details of ineligible agencies even after the tenderer is given due opportunity, the entire scope of such component of work shall be withdrawn from the tender and the same shall be got executed by the Engineer-in- charge at the risk and cost of the main contractor.
12. Verifiable completion certificates of the work, registration/ approval documents as the case may be, duly attested by the applicant shall be submitted within 30 days of award of work OR before start of minor component of work whichever is earlier. Valid Electrical Contractor's license, as the case may be, duly attested by the applicant shall also be submitted within 30 days of award of work OR before start of minor component of work whichever is earlier.
13. Self-attested GST registration documents in respect of the associated agencies shall be submitted within 30 days of award of work or 15 days before start of minor component of work whichever is earlier.

Executive Engineer (E)

AE (P)

Correction/Addition/ Omission/ Deletion Nil



FORM -G

**CONSENT LETTER FROM ELIGIBLE ASSOCIATE AGENCY OF
MINOR COMPONENT OF WORK**

Name of Work: Carryout interior Furnishing Work at CIPET Korba (C.G.) (SH: E&M Work).

I/ We hereby give my consent to associate with M/s
..... for executing the minor component of work of
..... (Mention sub-works)

I/We will execute the work as per specifications and conditions of the agreement and as per direction of the Engineer –in-charge for the corresponding minor work till the completion of the work.

I/We will be responsible for necessary action to handover the installation and for rectification of defects and repair during the defeat liability / warranty period.

Also I/We will employ full time technically qualified Engineer/ Supervisor for the minor component of the work as specified in clause 36 for the work. I/We will attend inspection of officers of the department as and when required.

Date:

Signature with date of Major Contractor
Contractor

Signature with date of Associate/ Minor

Contractor

Contractor

Address

Address

1. Witness with address
(From major component contractor side)
2. Witness with address
(From minor component contractor side)

AE (P)

Correction/Addition/ Omission/ Deletion Nil

**FORM-H****PROPOSAL FOR ASSOCIATING WITH ELIGIBLE AGENCIES FOR
SPECIALIZED WORK**

I/We hereby propose the following agencies as per mentioned against each for executing corresponding minor components of work. Their consent letter is also attached.

Sr. No.	Name of Associated Contractor	Category and class of registration	Enlistment copy/ completion Certificates attached	Monetary Limit of work	Validity of registration	Consent letter attached. (Yes/No)
SH: - I, II, III (E&M WORKS)						
1.						
SH: - IV (Air Conditioner)						
1.						
SH: - V (AV system)						
1.						

Note: Self Attested photocopies of enlistment order, valid contractor's license, annual pre-qualification order, work experience certificates of each agency for each component of specialized work shall be submitted.

Signature of contractor



FORM-I

MEMORANDUM OF UNDERSTANDING (M.O.U.)

(to be submitted for each and every E&M component)

1. M/s. (Name of the firm with full address)
Enlistment Status
Valid Upto:
(Henceforth called the main Contractor)
2. M/s. (Name of the firm with full address)
Enlistment Status
Valid Upto:
(Henceforth called Associated Electrical Contractor or Electrical Contractor)

For the execution of Electrical work, "Carryout interior Furnishing Work at CIPET Korba (C.G.)" (SH: E&M Work). We state that M.O.U. between us will be treated as an agreement and has legality as per Indian Contract Act (amended up to date) and the department (CPWD) can enforce all the terms and conditions of the agreement for execution of above work as per the schedule of work, specifications, term & conditions of the tender. Both of us shall be responsible for the execution of work as per the agreement to the extent this MOU allows. Both the parties shall be paid consequent to the execution as per agreement to the extent this MOU permits. In case of any dispute, either of us will go for mediation by the Engineer –in-charge. Any of us may appeal against the mediation to the Superintending Engineer, CPWD, Bilaspur. His decision shall be final and binding on both of us.

We have agreed as under:

1. The specialized contractor will execute all specialized works in the wholesome manner as per terms and conditions of the agreement.
2. The specialized contractor shall be liable for disciplinary action if he fails to discharge the action(s) and other legal action as per agreement.
3. All the machinery and equipment, tools and tackles required for execution of the specialized works, as per agreement, shall be the responsibility of the specialized contractor.
4. The site staff required for the specialized work shall be arranged by the specialized contractor or by the main contractor as per terms and conditions of the agreement.
5. Site order book maintained for the said work shall be signed by the main contractor as well as by the Engineer of the Association Contractor and by Associated Contractor himself.
6. All the correspondence regarding execution of the specialized work shall be done by the department with the Associated Contractor with a copy to the main contractor. In case of non-compliance of the provisions of agreement, the main contractor, as well as the associated contractor shall be responsible. The action clauses 2 and 3 shall be initiated and taken against the main contractor.

SIGNATURE OF MAIN CONTRACTOR

SIGNATURE OF ASSOCIATED
ELECTRICAL CONTRACTOR

Date:

Date:

Place:

Place:

AE (P)

Correction/Addition/ Omission/ Deletion Nil



1. Witness with address

(From major component contractor side)

2. Witness with address

(From minor component contractor side)

**COMMON CONDITIONS FOR ALL MINOR COMPONENTS PART 'C'**

The specifications given below pertain to the entire electrical and mechanical works to be carried out

Name of Work: "Carryout interior Furnishing Work at CIPET Korba (C.G.)" (SH: E&M Work). The main agency either shall have valid electrical license or obtain the same at time of execution of electrical work otherwise he has to associate with agency having valid electrical license. The associated agency shall be of the appropriate class eligible to bid for each minor component individually as per the eligible criteria given.

- 1.1 The manufacturer's guarantee/warranty for all the electrical installations shall be for minimum period of 12 months, from the date of taking over of the completed work by the department. Necessary documents of handing / taking over of the work will be duly signed by the three parties namely EE (E) or his representative AE/JE, the main contractor and the associate contractor(s).
- 1.2 The equipment or components, or any part thereof, so found defective during guarantee period shall be forthwith repaired or replaced free of cost, to the satisfaction of the Engineer-in-Charge. In case, it is felt by the department that undue delay is being made by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of the Engineer-in-Charge in this regard shall be final. The firm shall be required to attend the breakdown calls as and when required and also ensure timely periodical checks for Electrical and Mechanical works executed as per CPWD Specifications and standard trade practices
2. All sundry equipment, fittings, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections, and all other items which are useful and necessary for efficient assembly and installation of equipment and components of the work shall be deemed to have been included in the tender irrespective of the fact whether such items are specifically mentioned in the tender documents or not. Nothing extra on account of same shall be paid.
3. The successful contractor shall prepare a list of equipment and materials selected from the approved list, proposed to be used by him for execution of the contract. Before placing orders on suppliers or delivering the equipment and materials at site, the Contractor shall obtain approval from Engineer-in-Charge, whose choice will be final and binding on the Contractor.
4. Any Equipment or materials not specified under here but required for execution of the work shall be as per technical specification, of the best quality, with ISI wherever applicable and from a reputed manufacturer and shall be got approved by the Engineer-in-Charge before placing order for delivery of item at site
5. Order of Preference:

Should there be any difference or discrepancy between the description of items as given in the Schedule of Quantities, technical specifications for individual items of work (including additional and commercial conditions) and IS Codes etc., the following order of preference shall be followed:

a) Schedule of quantities

AE (P)

Correction/Addition/ Omission/ Deletion Nil



- b) Commercial and Additional conditions for this work
 - c) General Conditions of Contract for CPWD Works.
 - d) CPWD General Specifications of corresponding component.
 - e) Relevant IS or any other international code in case IS code is not available.
6. The main agency shall be responsible for all acts of omissions and submissions of the electrical contractor or sub-contractor engaged by him, even with approval of department.
7. Approval of the Engineer-in-charge shall be taken well in advance for all the materials to be supplied and used in all the works by the contractor.
8. The contractor has to make his own arrangements for stores and watch and ward and no extra claim for this will be entertained.
9. Running payment for Electrical/Mechanical components shall be made by the EE (E) directly to the main Contractor. The main contractor shall make the payment to associated Contractor within 15 days of receipt of each running account payment. In case of failure of above, action will be taken as per GCC.
10. For Specialized E&M Original Works and other original E&M Works:
The successful tenderer is to submit, along with the proposal for approval of make for specialized work after the acceptance of tender, an undertaking from the OEM regarding:
(a) Authorization certificate.
(b) The OEM unconditionally support the lowest tenderer technically throughout the execution of contract as well as for Maintenance/ Comprehensive Maintenance Contract for the useful life of the system, and
(c) OEM provide all the spares required for healthy functioning of the equipment for at least five years from the date of supply of equipment.
11. All statutory deductions like GST, Labour welfare cess etc. shall be made from the bills.
12. INSURANCE AND STORAGE:

All consignments are to be duly insured upto the destination from warehouse at the cost of the contractor. The insurance covers shall be valid till the equipment is handed over duly installed, tested and commissioned.

13. ELECTRIC POWER SUPPLY AND WATER SUPPLY

Power supply and water supply will have to be arranged by contractor only. Nothing extra shall be paid on this account.

EXECUTIVE ENGINEER (E)
CPWD, BILASPUR



COMMERCIAL & TECHNICAL CONDITIONS FOR E&M WORKS

1. SCOPE OF WORK:

The specifications given below pertain to the entire electrical and mechanical works to be carried out of Name of Work: - Carryout interior Furnishing Work at CIPET Korba (C.G.) (SH: E&M Work). The work shall be carried out as per CPWD General Specifications for Electrical Works, Part-I: Internal, 2023 & Heating, Ventilation and Air Conditioning (HVAC) Works 2024. The soft copy of this specification is available at the link: http://cpwd.gov.in/Documents/CPWD_Publication.aspx

2 General:

2.1 The Department shall not issue any T & P and nothing extra shall be paid on account of this.

2.2. Guarantee & Defect Liability Period:

All the equipment shall be guaranteed for a period of 12 months from the date of taking over the installation by the department against unsatisfactory performance and / or break down due to defective design, workmanship of material. The equipment or components, or any part thereof, so found defective during guarantee period shall be forthwith repaired or replaced free of cost, to the satisfaction of the Engineer-in-Charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of the Engineer-in-Charge in this regard shall be final.

The tenderer shall guarantee among other things, the following vis-à-vis specifications.

a) Quality, strength and performance of the materials used.

b) Satisfactory operation during the maintenance period.

3. Payments terms:

On account payments for part work (after stipulated and statutory deductions) shall be payable as assessed by the Engineer – in-charge for the items in the Contract. The percentage for point wiring items is cumulative of quoted rates

- i) 40% after laying of conduit.
- ii) 60% after drawing of wires.
- iii) 85 % fixing of modular accessories.
- iv) 95% after testing, commissioning.
- v) 100% after handing over.

**For Other equipment**

All Other equipment, payment shall be made on completion of work as per details given below.

S.No.	Stage of work	Machinery & Equipment
1	Supply of equipment with duly supported with the proper challan from the authorized dealer. & delivery at site in good condition on pro-rata basis	70%
2	On completion of pro-rata installation	15%
3	On Testing and completion of successful Commissioning	10%
4	Handing over of complete Installation	5%

4.0 General Conditions

- 4.1 The work is carried out in the existing building of CIPET Korba (C.G.).
- 4.2 The main contractor shall be responsible for coordinating the activities of all works and will ensure progress of works as per laid down programme.
- 4.3 The main contractor and / or his Associated electrical Contractor or his representative is bound to sign the site order book as and when required by the Engineer-in-charge and will comply with the remarks therein.
- 4.4. The contractor shall make his own arrangement at his own cost for electrical / General Tools and plants required for the work.
- 4.5 The connections, inter-connections, earthing and loop earthing shall be done by the contractor her ever required to be done for energization of the installation and nothing extra shall be paid on this account.
- 4.6 The contractor must be able to work on concrete slabs / walls as and when required and in complete coordination with the civil works. Cutting of chases in the plastered wall shall in no case be allowed. The contractor shall fix conduits and boxes in the walls soon after the brick work is completed and finish the chase to rough surface with proper cement sand mixture. Only in exceptional cases e.g. where cutting of plastered surface cannot be avoided it will be contractor's responsibility to ensure that plastering is done to match the original finish at no extra cost.
- 4.7 The contractor shall remove all the debris due to the electrical works from the site as soon as the work is completed.
- 4.8 The copper wire to be used on this work shall be FRLS type and ISI marked.
- 4.9 The make of switch boxes shall be the same as that of switches. Only the required knockouts of the switch boxes are to be removed for terminating the conduit pipes with PVC glands / check nuts.



- 4.10 The Electrical works shall be carried out by the contractor, side by side with the progress of the civil works.
- 4.11 Cutting of brick walls shall be with chase cutting machine only. All repairs and patch works shall be neatly carried out to match the original finish and to the entire satisfaction of the Engineer in Charge.
- 4.12 The connection between incoming switch / isolator and bus bar shall be made with suitable size of thimble and cable at no extra cost.
- 4.13 Copper conductor of insulated cables of size 1.5 Sq.mm and above shall be stranded and terminals provided with crimped lugs.
- 4.14 All MS junction box cover should be of phenolic laminated / good quality plastic sheet of thickness not less than 3mm and for which nothing extra shall be paid on the account.
- 4.15 All sub-main wiring shall be terminated in the main board with suitable copper lugs and thimbles for which nothing extra will be paid on this account.
- 4.16 All hardware items such as screws, thimbles, GI wire etc. which are essentially required for completing an item as per specifications will be deemed to be included in the item even when the same have not been specifically mentioned.
- 4.17 All hardware items such as nuts/ bolts/ screws/ washers etc. to be used in work shall be zinc/ cadmium plated iron.
- 4.18 Any conduit which is not be wired by the contractor shall be provided with GI fish wire for wiring by some other agency subsequently. Nothing extra shall be paid for the same.
- 4.19 While laying conduit, suitable size junction boxes shall be provided for pulling the wire as per the decision of the Engineer-in-Charge.
- 4.20 Materials to be used in work are to be ISI marked. The make of the materials has been indicated in the list of acceptable makes. No other makes will be acceptable. The materials to be used in the work shall be got approved by the Engineer in Charge / his representative before its use at site. The E-in-C shall reserve the right to instruct the contractor to remove the material which, in his opinion, is not acceptable.
- 4.21 Wherever light fittings are proposed to be provided on the false ceiling, the respective light / fan point wiring will have to be brought up to the terminal of the light fittings / fans by the contractor. Flexible metal conduits shall be used for drawing wires from conduits on ceiling to fittings on false ceiling and nothing extra shall be paid to the contractor for the same. The height from false ceiling to ceiling is about 1.2 meters.
- 4.22 In case the same item appears more than once in the schedule of work under the same sub head or among the different subhead of works, the lowest rate quoted for that item shall be taken for other items also.
- 4.21 The modular size of boxes for point wiring is to be increased by 2 modules for accommodating fan regulator wherever required. Nothing extra shall be paid for this increase in size.

**LIST OF PREFERRED MAKES**

The following Makes of material are preferred for use in above work. The material shall be confirming to relevant IS specification and same shall bear ISI marking, wherever available. If any Make stated below does not comply with the technical specification given in the tender, then such a Make will not be acceptable.

S.No.	Description	Makes
1	FRLS / HFFR Copper Conductor PVC Insulated Wires	Finolex / RR Kabel / Havells / Polycab / KEI
2	Steel Conduit and accessoires (ISI marked)	BEC / AKG/ RMCON /steel kraft
3	PVC Conduit and accessoires (ISI marked)	AKG / Polycab / Precision/ Sudhakar / Avonplast
4	GI Pipe (ISI marked)	TATA / Jindal / Sail
5	Modular type switch, regulator, blanking plate, socket & GI Boxes, plate & Accessories	Legrand (Arteor) / MK (Orna) / Crabtree (Athena)
6	PVC batten/angle holder	Havells / Anchor / Bajaj / Crompton
7	Wall fan	USHA (WALL FANS Striker Hi Speed) \ Havells / Bajaj /Crompton / Atomberg / Orient.
8	Central Control Amplifier (Item No 20)	Ahuja CMA 5400/ TOA, Yamaha, Crown (Harman), Studiomaster.
9	Chairman Unit (Item No 21)	Ahuja CMC-5100/ Bosch, TOA, Sennheiser, Shure, Televic
10	Delegate Unit (Item No 22)	Ahuja CMD-5200 Delegate Unit/ Bosch, TOA, Sennheiser, Shure, Televic
11	2 Way Seaker (Item No 23)	Ahuja ASX-312BT/Bosch, JBL (Harman), Yamaha, TOA, Bose Professional
12	Digital Power Amplifier (Item No 24)	Ahuja APA-240 /Crown (Harman), QSC, Yamaha, Bosch, TOA
13	Digital Signal Processor (DSP) with integrated Acoustic Echo Cancellation (AEC) (Item No 25)	DBX (Harman): Drive Rack PA2/Biamp, BSS Audio, QSC, Yamaha, Symetrix
14	Wireless Microphone System (Item No 26/ 46)	Ahuja AWM 700U2 /Shure, Sennheiser, AKG, Audio-Technica, JTS
15	Wireless Microphone System (Item No 27)	Ahuja ABW 400UL / Shure, Sennheiser, AKG, Audio-Technica, JTS
16	HDMI Matrix Switcher (Item No 30)	Microware 4K HDMI Matrix 4X4 Switcher/ Extron, Kramer, Crestron, Aten, Lightware
17	Manual Flip-Up Connectivity Box (Item No 31/39)	EBCO (Electric Box - Flip Up) EBS-FU2/ Legrand, Kramer, Anchor (Panasonic), OBO Bettermann, Hager
18	Smart Display 75 inch (Item No 32)	LG 75TR3DK-B/ Samsung, ViewSonic, BenQ, Maxhub, Panasonic



S.No.	Description	Makes
19	Active Optical HDMI (AOC) 2.0 Cables (Item No 33)	Honeywell HDMI AOC 2.1/ Kramer, Extron, Aten, Belkin, Kordz
20	2KVA True Online Double Conversion UPS (Item No 34)	Liebert/ APC (Schneider), Eaton, Microtek, Luminous, Numeric
21	Wireless Presentation System (Item No 35)	Barco Click Share C-5/ Kramer (VIA), BenQ (Insta Show), Mersive, Crestron (Air Media)
22	4K PTZ (Pan-Tilt-Zoom) Camera (Item No 36)	People Link Elite 4K / Logitech, Panasonic, Sony, AVer, Lumens
23	Digital Boundary Microphone (Item No 37)	People Link CM Alpha / Shure, Sennheiser, Audio-Technica, AKG, Beyerdynamic
24	Open Pluggable Specification (OPS) PC module (Item No 38)	OPS(SRX900)/ Dell, Lenovo, HP, Advantech, Intel NUC Elements
25	Active USB 3.0 extension cables (Item No 40.1)	Honeywell HDMI Cable v2.0 / Kramer, Aten, Belkin, Ugreen, Logitech
26	Active USB 3.0 extension cables (Item No 40.2)	Storite / Kramer, Aten, Belkin, Ugreen, Logitech
27	4K UHD/Full HD Laser Phosphor Projector (Item No 41)	Epson EB-810E/ Panasonic, Sony, BenQ, Optoma, ViewSonic
28	150" Ambient Light Rejecting (ALR) Fixed Frame Screen (Item No 42)	Elite (SB150WH2)/ Liberty, Grandview, Milan, Draper, Da-Lite
29	700W (350W+350W) Professional Dual Zone Mixer Amplifier (Item No 43)	Ahuja TZA 7000DP / Bosch, TOA, Crown, Yamaha, Studiomaster
30	90W RMS 2-Way Wall Mount Speakers (Item No 44)	Ahuja ASX-912B / JBL, Bosch, TOA, Yamaha, QSC
31	HDMI over Cat6/7 Extender Set (Transmitter & Receiver) (Item No 45)	Extron/ Kramer, Crestron, Aten, Blustream, Lightware
32	Active Optical HDMI (AOC) 2.0 Cables (Item No 49)	Honeywell HDMI AOC 2.1./ Kramer, Extron, Aten, Belkin, Kordz
33	low-noise shielded balanced audio cables (Item No 50)	MX / Belden, Kramer, Sommer Cable, Klotz, Canare
34	G.I Race ways and accessories (Item No 51 to 54)	Legrand/ OBO Bettermann, MK (Honeywell), Hager, Profab, Asian
35	4 Inch Premium White Digital Podium (Item No 47)	Uprisen/ PeopleLink, Globus, Specktron, Kiosks India, Studymaster
36	ELCB / RCCB / MCCB (Ics=100%Icu) / MCB DB / MCB'S/Contactors	Legrand / L&K / ABB / Havells /MK
37	All Type LED Fixture	Philips/Havells/Wipro/Bajaj/LT/Trilux/ Crompton,
38	LT cable	Finolex / RR Kabel / Havells /Polycab/ KEI
39	DWC / HDPE Pipe	Duraline / AKG / Supreme / Gemini / Telerex / Trubore
41	CAT6 Cable	CommScope (AMP), D-Link, Belden, Legrand, Molex



S.No.	Description	Makes
42	Air Conditioning	Daikin, Voltas, Blue Star, Carrier, Hitachi, O-General
43	Equipment/Network Rack	Netrack, APW President, Valrack, Rittal, D-Link
44	Speaker Cable	Belden, Kramer, Ahuja, Finolex, Polycab
45	Network Switches	Cisco, Aruba (HPE), Netgear, D-Link, TP-Link
46	Patch Panel	CommScope (AMP), D-Link, Legrand, Belden, Molex
47	Patch Cord CAT6	CommScope (AMP), D-Link, Legrand, Belden, Molex
48	CAT6A Cable	CommScope (AMP), D-Link, Legrand, Belden, Molex
40	Any Other Items	As per samples approved by Engineer-in-charge.

The make and models to be used in work shall be got approved from Engineer-in-charge. If any of the makes does not satisfy the NIT Specifications then the same shall not be acceptable. Similarly, the items which are not mentioned in above list shall be got approved from the Engineer-in-charge before use at site and decision of Engineer-in-charge in this regard shall be final and binding.

**Schedule of work for E&M work**

Name of Work: - Carryout Interior Furnishing Work at CIPET Korba (C.G.)

Sub Head: -E&M Work

S. No.	Description of Item	Qty.	Unit	Rate	Amount
	Sub Head-I (Wiring)				
1	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
1.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	100	Meter	267.00	26,700.00
1.2	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	200	Meter	482.00	96,400.00
1.3	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	60	Meter	813.00	48,780.00
2	Supplying and drawing following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.				
2.1	3 x 1.5 sq. mm	300	Meter	104.00	31,200.00
2.2	3 x 4 sq. mm	800	Meter	222.00	1,77,600.00
2.3	6 x 4 sq. mm	400	Meter	424.00	1,69,600.00
3	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
3.1	5/6 A switch	246	Each	121.00	29,766.00
3.2	15/16 A switch	187	Each	176.00	32,912.00
3.3	3 pin 5/6 A socket outlet	181	Each	136.00	24,616.00
3.4	6 pin 15/16 A socket outlet	187	Each	219.00	40,953.00
3.5	RJ45 Socket	140	Each	453.00	63,420.00
4	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting				

AE (P)

Correction/Addition/ Omission/ Deletion Nil



	the wall and making good the same in case of recessed conduit as required.				
4.1	25 mm	100	Each	168.00	16,800.00
5	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	25	Each	47.00	1,175.00
6	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc. as required.				
6.1	1 or 2 Module (75mmX75mm)	22	Each	354.00	7,788.00
6.2	6 Module (200mmX75mm)	51	Each	462.00	23,562.00
6.3	12 Module (200mmX150mm)	6	Each	614.00	3,684.00
7	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.				
7.1	1 or 2 Module	130	Each	156.00	20,280.00
7.2	6 Module	130	Each	207.00	26,910.00
8	Supplying and fixing extra down rod of 10 cm length G.I. pipe, 15 mm dia, heavy gauge including painting etc. as required. (Note: More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)	474	Each	53.00	25,122.00
9	Dismantling of ceiling fan and painting the same with one or more coats of spray painting with synthetic enamel paint of approved brand and manufacture to give an even shade, including cleaning of surface with detergent and replacing the damaged rubber reel, nuts and bolts with washers and safety pins, reinstalling the same as required.	79	Each	324.00	25,596.00
10	Supplying, drawing, Installation, Testing and commissioning of CAT6 UTP LSZH 23AWG Twisted Pair Cable in existing conduit/ on surface, Category 6 Unshielded Twisted Pair, 4 pair should be complied as per UL/ETL verification program for compliance with ANSI/TIA-568.2-D standard. Outer diameter should be in the range of 6.1mm nominal with Operating Temperature Range : -5° to +60°C, Bending Radius : < 4 X Cable Diameter at -5°C				



	± 1°C and Pulling Force : 11.5Kg etc. complete as required.				
10.1	1 run of cable	3000	Meter	60.00	1,80,000.00
	Sub Head-I (Wiring)			Total Rs	10,72,864.00
	Sub Head-II (MCCB, MCB & DB'S)				
11	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
11.1	16 way, Double door	1	Each	3,367.00	3,367.00
12	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note: Vertical type MCB TPDB is normally used where 3 phase outlets are required.)				
12.1	12 way (4 + 36), Double door	4	Each	13,512.00	54,048.00
13	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
13.1	63 A	4	Each	3,597.00	14,388.00
14	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
14.1	40 A	1	Each	2,512.00	2,512.00
15	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with				



	connections, testing and commissioning etc. as required.				
15.1	Single pole	60	Each	285.00	17,100.00
15.2	Double pole	1	Each	696.00	696.00
	Sub Head-II (MCCB, MCB & DB'S)			Total Rs	92,111.00
	Sub Head-III (Fans & Fittings)				
16	LED Down lighter (COB Type) (System lumen efficacy $\geq 105 < 120$ lm/Watt).				
	Supplying, installation, Testing & Commissioning of LED Recessed/ surface Down lighter (Round/ square/ Rectangular) COB Type of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency $>85\%$, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -5°C to 40°C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD $< 10\%$, P. F.≥ 0.95, IP20, CRI >80, UGR (Unified Glare Rating) < 19, Flicker free (flicker should be below 5%), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 105 and <120 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C) Powder coated die cast /Extruded aluminium Body including trim with Aluminium Reflector.				



16.1	5 - 7 watt	10	Each	826.00	8,260.00
17	LED Panel light 2x2 ft. (System lumen efficacy $\geq 105 < 120$ lm/Watt)				
	Supplying, installation, Testing & Commissioning of Panel light 2x2 ft., of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency $>85\%$, Operating voltage AC 140 270 Volt, freq 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection, THD $< 10\%$, P. F. ≥ 0.95, IP20, CRI >80, UGR (Unified Glare Rating) < 19, Flicker free, (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with, 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K / 6000°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy $\geq 105 < 120$ lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).				
	CRCA Sheet Body (Thickness ≥ 0.50 mm)				
17.1	40 watt	233	Each	2,197.00	5,11,901.00



18	Supply, installation, testing, and commissioning of High-Speed Wall Mounted Fan with a sweep size of 400 mm, designed for superior air delivery. The fan shall be equipped with a 100% copper motor for durability and aerodynamically designed PP (Polypropylene) blades. It must feature a 3-speed string-based control for easy operation and compact powder-coated guards for safety. The unit shall include a thermal overload protector (fuse) and a pivot arrangement for easy tilting. The installation includes mounting the fan on the wall with necessary fasteners and connecting it to the existing plug point. Minimum Air Delivery: 100 m3/min, Speed: 2000 RPM.	16	Each	2,643.00	42,288.00
	Sub Head-III (Fans & Fittings)			Total Rs	5,62,449.00
	Sub Head-IV (Air Conditioning)				
19	Supplying, Installation, Testing and Commissioning of Air Cooled Cassette type Air conditioners complete with Indoor unit(IDU), Out door unit (ODU), R-32/R410A/R-407 Green Refrigerant, wireless Remote, inbuilt drain pump, suitable for 400/230V, 50 Hz ,1 /3 phase AC supply, including surface / concealed copper Refrigerant piping with insulation (closed cell elastomeric nitrile rubber tubular pipe section) upto 5.5 Mtr (IDU to ODU), copper power and control cable upto 5.5 Mtr (IDU to ODU) including drain pipe, the system shall be capable of performing cooling, dehumidification, Air circulation, filtration & ventilation of following capacity with Scroll/rotary compressor with min 5 year Original Equipment Manufacturer (OEM) warranty both compressor and Printed Circuit Board (PCB) as specified. The system shall be able to deliver 100% of the rated capacity as per relevant IS Code. The lab testing reports as per IS: 1391 shall be submitted from National Accreditation Board for Testing and Calibration Laboratories (NABL) accredited as per International Electrotechnical Commission (IEC) 17025 standards/Central Power Research Institute (CPRI)/ Electrical Research and Development Association (ERDA)with Original Equipment Manufacturer (OEM) etc. complete as per CPWD specification and as per IS: 1391 as required.				



	Inverter Type- Cooling only				
19.1	1.5 TR with 5 Star BEE Rating	1	Each	77,417.00	77,417.00
19.2	3.0 TR with 5 Star BEE Rating	1	Each	1,23,684.00	1,23,684.00
19.3	3.5 TR with 5 Star BEE Rating	4	Each	1,39,610.00	5,58,440.00
	Sub Head-IV (Air Conditioning)			Total Rs	7,59,541.00
	Sub Head-V (AV System)				
	CONFERENCE ROOM				
20	Supply, installation, testing and commissioning of 50W Central Control Amplifier with support for up to 50 delegate units, having individual volume controls for each mic, 3-input mic/line mixing, and compatibility with delegate/chairman units etc. complete as required.	1	Each	28,774.00	28,774.00
21	Supply, Installation, Testing and Commissioning of Chairman Unit compatible with Central Amplifier, featuring a priority switch to override all delegate units, high sensitivity cardioid gooseneck microphone with LED ring indicator, built-in loudspeaker with automatic muting, and 2.5m interconnecting cable etc. complete as required.	1	Each	10,411.00	10,411.00
22	Supply, Installation, Testing and Commissioning of Delegate Discussion Unit featuring high sensitivity cardioid gooseneck microphone with LED ring indicator, built-in loudspeaker with automatic muting, 'push-to-talk' switch, headphone jack with volume control, and 2.5m interconnecting shielded cable with multi-pin connectors for daisy chain configuration etc. complete as required.	22	Each	8,876.00	1,95,272.00
23	Supply, Installation, Testing and Commissioning of 2-way High-Fidelity Wall Mount Speaker having 30W RMS power with built-in 100V line matching transformer (Taps: 30/20/15/10/5W), frequency response 80Hz to 20kHz, ABS enclosure with metal grille, including adjustable mounting brackets, required connectors, and hardware etc. complete as required	10	Each	5,087.00	50,870.00



24	Supply, Installation, Testing and Commissioning of a professional-grade Digital Power Amplifier having a minimum output of 240W RMS. The unit must be compatible with 70V/100V line and 4-8 Ohms speaker loads. It should feature a wide frequency response (50Hz - 15kHz), low distortion (THD < 1%), and built-in protection against over-temp, overload, and short circuits. The unit shall include necessary input/output connectors, power cord, and rack-mounting hardware etc. complete as required.	1	Each	24,338.00	24,338.00
25	Supply, installation, testing, and commissioning of a Digital Loudspeaker Management System. The unit shall feature 2 Analog Inputs and 6 Analog Outputs with XLR connectors. It must include advanced processing capabilities such as Advanced Feedback Suppression, Auto-EQ with a 31-band Graphic EQ, Compressor, Subharmonic Synthesis, and Crossover. The unit must support network-based control via Ethernet using iOS, Android, Mac, or Windows devices. Complete with rack-mounting hardware and necessary patch cables etc as required.	1	Each	34,144.00	34,144.00
26	Supply, Installation, Testing and Commissioning of a professional Dual Channel UHF Wireless Microphone System. The system shall include one rack-mountable True Diversity Receiver and two Wireless Handheld Transmitters (Microphones). It must feature automatic frequency scanning and synchronization, high-contrast LCD displays on both receiver and transmitters for frequency and battery status, and a minimum operating range of 50 to 100 meters in line-of-sight. The system must provide balanced XLR outputs for each channel and a mixed unbalanced output, including all necessary antennas, power adapters, and interconnecting cables etc. complete as required.	1	Set	7,323.00	7,323.00



27	Supply, Installation, Testing and Commissioning of a professional UHF Wireless Lapel/Collar Microphone System. The system shall consist of a compact Bodypack Transmitter, a high-quality Omni-directional/Cardioid Electret Condenser Lavalier Microphone with tie-clip, and a True Diversity Receiver. The system must feature infrared synchronization between transmitter and receiver, high-contrast display for frequency/battery status, and minimum 8-10 hours of operation on standard batteries. The unit should include all necessary antennas, power adapters, and XLR/TRS interconnecting patch cables etc. complete as required.	1	Each	3,617.00	3,617.00
28	Supplying and fixing 24U Rack with 4 inch Castor wheels and front brake Floor Standing Rack with Main Frame Pillar of 1.25mm Powder Coated CRCA Sheet with removable side panels, L- Shape adjustable Vertical Mounting Rail of 2mm with 'U'Marking completely knocked-down condition (CKD) Shape, fitted with 4 number cooling fans, minimum 5nos two line cable entry/exit provision at top and bottom with rubber protection, Front door 5mm Toughened Glass with MS frame or MS perforated with lock, Rear MS vented or perforated door, Powder coated Color- RAL- 7035 or black, complied with UL & RoHS, 2 x 6 sockets 16A power distribution units, 3 numbers closed cable organizer, Hardware mounting screws packet of 20 x 1 number, etc. complete as required.	1	Each	21201	21,201.00
29	Supplying and drawing of cable Fire Retardant PVC insulated copper conductor cable in the existing surface / recessed steel conduit of following pairs, cores and size including connections and interconnections etc. as required.				
29.1	speaker cable Single pair, 2-core, 1.5 sqmm	500	Meter	61.00	30,500.00



30	Supply, installation, testing and commissioning of a Professional 4-Input and 4-Output HDMI Matrix Switcher. The unit must support resolutions up to 4K @ 30Hz and be compliant with HDMI 1.4 and HDCP standards. It should allow any of the 4 inputs to be routed to any or all of the 4 outputs simultaneously. The switcher must feature control options including Front Panel Buttons and IR Remote Control. It should have built-in EDID management for display compatibility. The item includes power adapter and necessary high-speed HDMI interconnecting cables etc. complete as required.	1	Each	25,620.00	25,620.00
31	Supply, Installation, Testing and Commissioning of a table-top Manual Flip-Up Connectivity Box made of high-grade CRCA/Aluminum body with a sleek finish. The unit must feature a smooth flip-up opening mechanism and be configured with modular slots for 2 Nos. Universal Power Sockets, 1 No. HDMI (v2.0), 1 No. RJ45 (Data/Cat6), and 1 No. USB 3.0/Charging Port. The item includes precise cutting of the conference table as per template, providing under-table cable management using flexible conduits, and all necessary internal wiring and terminations etc. complete as required.	8	Each	6,441.00	51,528.00
32	Supply, installation, testing and commissioning of 75-inch UHD 4K Interactive Touchscreen Monitor. The display must feature a resolution of 3840 x 2160 pixels with a brightness of 390 nits and a 1,200:1 contrast ratio. The panel shall support up to 40 points of multi-touch (Windows) and 32 points (Android) for collaborative writing. It must include an integrated Android 11 OS, 4GB RAM, and 32GB storage. Connectivity shall include at least 3 x HDMI inputs, 1 x HDMI output, and a Full-function USB Type-C port (supporting 65W Power Delivery, Data, and Display). The unit must feature built-in 2 x 15W speakers, Wi-Fi/Bluetooth connectivity, and a slot for an optional OPS PC. The item includes 2 Nos. Styluses, a heavy-duty wall mount kit, and necessary high-speed cables. Complete as reqd.	1	Each	3,10,535.00	3,10,535.00



33	Supply and drawing of 30 meter Active Optical HDMI (AOC) 2.1 compliant Cables supporting UHD resolutions up to 8K @ 60Hz and 4K @ 120Hz. The cable must support a transmission speed of at least 48Gbps to ensure high-speed data transfer. The cable shall be a high-speed fiber-optic male-to-male type with gold-plated connectors and high-quality shielding to ensure zero signal latency and EMI resistance over long distances (30m). The cable should be unidirectional and laid through existing conduits/raceways with proper labeling, complete as required.	6	Each	14,518.00	87,108.00
34	Online UPS - Input supply: Single Phase, Output Supply: Single Phase. Supplying, installation, Testing & Commissioning of following capacity at full load (Unity Power Factor)ON LINE Uninterrupted Power Supply (UPS) system suitable for Single Phase input, Single Phase output AC Supply. The UPS shall include a Rectifier, inverter, battery bank suitable for 30 minutes back up (Battery VAH capacity shall not be less than 1600 VAH per KVA of UPS rating per Hour backup time) on full load (Battery shall be VRLA,SMF in ABS Container) and Static Bypass switch along with provision for manual bypass, suitable isolation transformer for additional protection against neutral faults etc. The UPS systems shall be Microprocessor based Digital Control, using Insulated Gate Bipolar Transistor (IGBT)'s both for the rectifier & inverter with PWM (Pulse Width Modulation) Technology. The quality of design, manufacturing and inspection process should confirm to the relevant Inter-national standards such as IEC/EN/VDE.				
	The operating efficiency of the UPS systems shall be >95% at 100% non-linear loads. Current total harmonic distortion (ITHD)/ total demand distortion (TDD) on the input grid shall be < 5% at 100 %load. (The required LC filters shall be included in UPS cost), extreme power factor kit to be include to limit the input pf to 0.99 and output power factor shall be unity (i.e. kw rating of the UPS shall be kva rating x 1) however UPS shall be suitable to take load at 0.7 lagging to 0.7 leading power factor loads. UPS shall be suitable for incoming supply AC single phase 160-270V 50 Hz and delivering output AC supply true sine wave single phase 220/230/240 Volt, 50 Hz +/- 0.2Hz, Overload				



	capacity of 120% for 10 mins and 150% for 1 minute. Operating temperature 0 to 40 0C, Relative humidity 0-95% non condensing, noise level less than 60db at 1 meter distance, Protection for Under voltage, over voltage, abnormal output voltage, battery over charging, output over current, short				
	circuit, battery deep discharge, 10 KV surge. Display for watt/VA, Amp and Voltage power parameters etc. UPS shall comply with low voltage electromagnetic compatibility (EMC) achieved as per EN 6204, EN6204 Part I and Part 2, it shall be a Voltage and Frequency Independent (VFI) type UPS (as per standard IEC 62040-1, 2 & 3) . The UPS should be with IGBT Based Inverter Technology, Communication RS232/ RS485/ SNMP port open protocol for BMS integration as per approved by Engineering in charge. Required battery racks, DC breaker of suitable rating and interconnecting copper conductor cable of suitable size and connectors and all required accessories are inclusive in the cost. The UPS should have QR code which should contain drawing, test report OEM manual, Geo- Tag of manufacturing location etc a) 2KVA	1	Each	45,894.00	45,894.00
35	Supply, installation, testing and commissioning of a Wireless Presentation System allowing users to share content from laptops, tablets, or smartphones to the main display wirelessly via ClickShare App/AirPlay/GoogleCast/Miracast or equivalent. The unit must support 4K UHD (3840*2160) output, dual-band Wi-Fi (2.4GHz and 5GHz), and be compatible with Windows, macOS, iOS, and Android. The system should feature centralized management via XMS Cloud. Item includes power adapter, and mounting hardware, complete as per the directions of Engineer-in-Charge.	1	Each	1,30,922.00	1,30,922.00
	MINI CONFERENCE ROOM				



36	Supply, Installation, Testing and Commissioning of a professional 4K PTZ (Pan-Tilt-Zoom) Camera for high-end video conferencing. The camera shall feature a minimum 12X Optical Zoom, 4K UHD resolution, and a wide-angle field of view (minimum 70°). It must support USB 3.0, HDMI, and LAN interfaces for versatile connectivity. The unit should include a remote control, wall/ceiling mount bracket, power adapter, and high-speed USB 3.0/HDMI interconnecting cables as per the requirements and directions of the Engineer-in-Charge.	1	Each	1,09,804.00	1,09,804.00
37	Supply, Installation, Testing and Commissioning of a high-performance Digital Boundary Microphone. The system shall feature a 360-degree omni-directional pickup with a minimum range of 5-6 meters. It must include built-in Acoustic Echo Cancellation (AEC), background noise suppression, and plug-and-play USB connectivity. The unit should be compact, table-mountable, and complete with all necessary USB interface cables and accessories as required.	2	Each	75,154.00	1,50,308.00
38	Supply, installation, testing and commissioning of an Open Pluggable Specification (OPS) PC Module designed for seamless integration with Interactive Flat Panels or Large Format Displays. The unit shall be equipped with an Intel Core i7 Processor (11th Gen or higher), 16GB DDR4 RAM, and a 512GB M.2 SSD for high-speed operation. The module must feature built-in Wi-Fi 6 (802.11ax), Bluetooth 5.0, and support 4K@60Hz video output via the internal 80-pin JAE connector for a cable-free setup. Connectivity ports shall include at least 1 x HDMI out, 1 x LAN (RJ45), 3 x USB 3.0, Mic-in, and Earphone-out. The unit must come with pre-installed Windows 11 Pro (Genuine) and an additional internal HDD/SSD slot for storage expansion and as per the directions of Engineer-in-Charge.	1	Each	29,891.00	29,891.00
39	Supply, Installation, Testing and Commissioning of a table-top Manual Flip-Up Connectivity Box made of high-grade CRCA/Aluminum body with a sleek finish. The unit must feature a smooth flip-up opening mechanism and be configured with modular slots for 2 Nos. Universal Power Sockets, 1 No. HDMI (v2.0), 1 No. RJ45 (Data/Cat6), and 1	2	Each	6,441.00	12,882.00



	No. USB 3.0/Charging Port. The item includes precise cutting of the conference table as per template, providing under-table cable management using flexible conduits, and all necessary internal wiring and terminations etc. complete as required and as per the directions of Engineer-in-Charge.				
40	Supply, Installation, Testing and Commissioning of high-quality Signal and Data Cabling for seamless integration of the Video Conferencing system. The item includes all necessary patch cords, connectors (RJ45, HDMI, XLR), tagging, and dressing of cables to ensure a clutter-free installation. All work shall be as per the directions of the Engineer-in-Charge. The scope includes:				
40.1	Supply and laying of high-speed 4K HDMI cables (minimum 15 meters) for connecting the Pop-up box and OPS to the 98" LED Display.	2	Each	5,977.00	11,954.00
40.2	Active USB 3.0 extension cables for connecting the PTZ Camera and Table Microphones to the DSP/OPS without signal loss. 10 Meter	2	Each	3,928.00	7,856.00
	SEMINAR ROOM				
41	Supply, Installation, Testing and Commissioning of a professional 4K UHD/Full HD Laser Phosphor Projector. The unit must deliver minimum 5000 ANSI Lumens brightness and featuring a throw ratio of approx 0.25:1 or less for large screen projection from a minimal distance. It should include multiple HDMI 2.0 ports, RS232 control, and a light source life of at least 20,000 hours. Complete with specialized wall/ceiling mount kit, all necessary hardware, and as per the directions of Engineer-in-Charge.	1	Each	3,85,166.00	3,85,166.00



42	Supply, installation, testing and commissioning of a 150-inch Fixed Frame Projection Screen. The screen shall feature 1.1 Gain tensioned matte white material providing a 180° wide viewing angle, certified for 4K Ultra HD and Active 3D content. The frame must be constructed of 2.75" heavy-duty aluminum covered in a hand-wrapped black velvet finish to absorb projector overshoot and enhance perceived contrast. The screen material must be easy to clean and ISF certified for accurate color points. Complete with all wall-mounting sliding brackets and hardware as per the directions of Engineer-in-Charge.	1	Each	49,320.00	49,320.00
43	Supply, Installation, Testing and Commissioning of a 700W (350W+350W) Professional Dual Zone Mixer Amplifier. The unit shall include minimum 6 Mic inputs, 2 Aux inputs, and built-in digital media player (USB/BT/FM). It must support 100V, 70V, and 4-16 Ohms speaker outputs with independent volume controls for both zones. Complete with rack-mounting ears and as per the directions of Engineer-in-Charge.	1	Each	46,644.00	46,644.00
44	Supply, Installation, Testing and Commissioning of 90W RMS 2-Way Wall Mount Speakers. Each unit shall consist of a high-excursion woofer and a silk dome tweeter with a built-in 100V Line Matching Transformer (LMT) having multiple power taps (90/60/30W). The enclosure must be rugged ABS with a powder-coated metal grille and adjustable U-bracket for wall mounting. Complete as required and as per the directions of Engineer-in-Charge.	8	Each	6,896.00	55,168.00
45	Supply, Installation, Testing and Commissioning of a professional HDMI over Cat6/7 Extender Set (Transmitter & Receiver) capable of 4K@60Hz transmission up to 70 meters. The system must support Zero Latency, EDID management, and Power-over-Cable (PoC). Includes high-quality Cat6/7 patch cords and power adapters as required and as per the directions of Engineer-in-Charge.	1	Each	31,428.00	31,428.00



46	Supply, Installation, Testing and Commissioning of a professional Dual Channel UHF Wireless Microphone System. The system shall include one rack-mountable True Diversity Receiver and two Wireless Handheld Transmitters (Microphones). It must feature automatic frequency scanning and synchronization, high-contrast LCD displays on both receiver and transmitters for frequency and battery status, and a minimum operating range of 50 to 100 meters in line-of-sight. The system must provide balanced XLR outputs for each channel and a mixed unbalanced output, including all necessary antennas, power adapters, and interconnecting cables etc. complete as required and as per the directions of Engineer-in-Charge.	1	Each	7,323.00	7,323.00
47	Supply, Installation, Testing and Commissioning of a Digital Podium featuring a high-grade metallic/fiber body with a sleek finish. The unit must be equipped with a 24-inch Full HD (1920x1080) Interactive Touch Display with high brightness and wide viewing angles. It should house an integrated Industrial Grade PC (minimum i5 processor, 8GB RAM, 256GB SSD) and support both USB and Wireless connectivity for seamless presentations. The podium must include a built-in professional Gooseneck Microphone, multiple I/O ports (HDMI, USB, Audio, LAN) on the top panel, and internal cable management. The unit should be mobile with lockable castor wheels and include all necessary software, stylus pen, and integration with the hall's audio-visual system etc. complete as required and as per the directions of Engineer-in-Charge.	1	Each	72,592.00	72,592.00
48	Supplying and fixing of following size Wall Mount Rack having Fixed Structure with 0.8mm CRCA Sheet, completely knocked-down condition (CKD) Shape, Vertical Mounting Rail 1.6 mm with 'U'Marking, Minimum 2 cable entry/exit provision at Top and bottom with rubber protection, Front 5mm Toughened Glass with lock, wall mounting kit, Powder coated Color- RAL- 7035, complied with UL & RoHS, 2 x 6 sockets 16A power distribution units, 3 numbers closed cable organizer, Hardware mounting screws packet of 20 x 1 number, etc. complete as required.	4	Each	8,960.00	35,840.00



49	Supply and laying of high-speed 4K HDMI cables (minimum 15 meter) for direct connection between the source (Podium/Laptop) and the UST Projector. For distances exceeding 15 meters, Active Optical Fiber (AOC) HDMI cables must be used to ensure lossless 4K@60Hz signal transmission. The cable must be routed through dedicated PVC conduits to prevent interference, complete as per the directions of Engineer-in-Charge.	2	Each	5,977.00	11,954.00
50	Supply and laying of professional-grade, low-noise shielded balanced audio cables for connecting Wireless Mic Receivers and Gooseneck Mics to the Mixer Amplifier. Cables must feature high-density braiding for noise rejection. Includes high-quality XLR/TRS connectors and proper cable dressing within the equipment rack, complete as per the directions of Engineer-in-Charge.	100	Meter	80.00	8,000.00
51	Supply, installation, testing, and commissioning of GI (Galvanized Iron) Raceway (Trunking) of 25 mm height and specified width, fabricated from pre-galvanized sheet steel. The item includes providing and fixing of matching covers, couplers, and necessary hardware like screws, bolts, and nuts. The installation shall be done on the surface of the floor as per site requirements and engineer-in-charge's instructions.				
51.1	Trunking 100x25	20	Meter	1,499.00	29,980.00
52	Supply, installation, testing, and commissioning of Height Adjustable Junction Box (JB) fabricated from heavy-duty Galvanized Steel (GI). The box shall have an adjustable height range of 50 mm to 70 mm to ensure a flush finish with the floor/screed level. The item includes providing and fixing of a top cover plate, gaskets for IP protection, internal mounting brackets for raceway connections, and all necessary hardware complete as required.				
52.1	150 x 150 x 50 mm	7	Each	2,717.00	19,019.00



53	Supply, installation, testing, and commissioning of DLP Trunking made of high-impact, rigid PVC/plastic, complete with a body and clip-on cover. The trunking shall be compatible modular wiring accessories (sockets, switches, data points) without the need for additional mounting boxes. The system must include all necessary accessories like end caps, internal/external angles, flat angles, and joints for a seamless finish. The trunking should provide IP40 protection and be installed on walls/surfaces using suitable fasteners as per manufacturer's guidelines complete as required.				
53.1	TRK 50 x 130 (2 Compartment)	90	Meter	2,514.00	2,26,260.00
54	Dismantling of existing light fittings of any type from the existing false ceiling or surface, including disconnecting the electrical connections and safely removing the fixtures without damaging the ceiling or surrounding structure. The scope includes moving the dismantled material to a designated storage area within the site as per the directions of the Engineer-in-Charge.	1	Job	7,330.00	7,330.00
55	Supplying, installation, Testing and commissioning of following capacity 24 port Layer 2 indoor Network Switch having features and specifications etc. as mentioned here under: At least 24 X RJ-45 Gigabit Ethernet Ports and additional 2 X 10G Base -T with 4 X SFP Ports with non-blocking architecture by having Switching capacity of min. 168Gbps and packet forwarding rate of 125Mpps or higher, 16K MAC table. Console Port, USB port, Stacking support of min. 8 units per stack. Internal dual AC Power supply, STP, RSTP, MSTP, BPDU Filter, BPDU Restriction, Min. 9K Jumbo Frame, LBD, IGMP Snooping V1/V2/V3, MLD Snooping V1/V2. IGMP /MLD Groups 1K or more, IPv4/IPv6 Loopback Interface, 16 L3 IP Interface, Ipv6 ND, VRRPv3, UDP Helper, ECMP. VLAN: 802.1Q, Port based, Q-in-Q, Multicast VLAN, Protocol VLAN, VLAN Trunking, DHCP Snooping, Server, server Screening. RADIUS, TACACS+ Authentication, QoS: 802.1P, 8 queues per port, QoS : WRR, Strict+WRR, WRED, 802.1p. ACL: MAC based, IPv4C IPv6, TCP/UDP Port number, time based ACL, TFTP Client, SNMP V1, v2c, v3, SNMP traps, RMON, DHCP server, relay, client, LLDP, LLDP-MED, OAM,				



	Dying Gasp, 802.3ah, sflow, RIP, OSPF v2/v3, policy-based route, SSL, SSH. 6 kV surge protection on all Gigabit Ethernet ports and on all GE RJ-45 access ports. Certifications: UL, CE, FCC, RoHS, MTCTE, OEM/Product must be on Trusted Telecom Portal of Department of Telecommunication, Government of India etc. complete as required.				
55.1	24 port Layer 2 Non-PoE Network Switch	3	Each	86,163.00	2,58,489.00
56	Supplying Installation Testing and Commissioning of 24 port Cat6 Patch Panel loaded. Must be of 1U height with clear label holders and white label with the panel. 24 Ports Cat-6 Patch Panel should have ETL/UL verification program certificate for compliance with ANSI/TIA-568.2-D etc. complete as required.	3	Each	5,278.00	15,834.00
57	Supplying, Installation, Testing and commissioning of following CAT6 Patch Cord should have ETL/UL verification program certificate for compliance with ANSI/TIA-568.2-D etc. complete as required.				
57.1	Copper Patch Cords of length 1m (3ft)	72	Each	151.00	10,872.00
57.2	Copper Patch Cords of length 3m (10ft)	72	Each	227.00	16,344.00
58	Supplying, Installation, Testing and commissioning of RJ45 Connector for CAT 6/6A Cables. RJ45 modular plug supports 4 twisted pairs, 8 positions, 8 connectors. Housing: PC, UL94V-2, transparent color, Use for 24- 26 AWG stranded wires etc. complete as required.	72	Each	9.00	648.00
59	Supplying, drawing, Testing and commissioning of Cat6A UTP 4 pair, 23 AWG solid copper cable in existing conduit/ on surface, U/FTP, LSZH, NonPlenum, Horizontal (solid) Cable suitable for high speed data networking application supporting upto 10Gbps over a 100 meter channel. The 4 Unshielded Twisted Pairs (UTP) cable with color coded insulation for easy identification should have FLAME PROPERTIES i.e. Flammability Test - IEC 60332-1, Smoke Density - IEC 61034, LSZH standards compliance: ANSI/TIA-568 C.2, ISO/IEC 11801, IEEE 802.3an, RoHS. Delay Skew should be < 45NS. The outer Cable Diameter should be 7.5 + 2 mm. Cable should				



	have been tested and verified by UL/ ETL etc. complete as required.				
59.1	1 Run of cable	250	Meter	74.00	18,500.00
	Sub Head-V (AV System)			Total Rs	26,87,463.00
	ABSTRACT OF COST				
	Sub Head-I (Wiring)				10,72,864.00
	Sub Head-II (MCCB, MCB & DB'S)				92,111.00
	Sub Head-III (Fans & Fittings)				5,62,449.00
	Sub Head-IV (Air Conditioning)				7,59,541.00
	Sub Head-V (AV System)				26,87,463.00
				Total Rs	51,74,428.00

**PROFORMA FOR QUOTING THE RATES****NAME OF WORK: - Carryout Interior Furnishing work at CIPET, Korba (C.G)****NIT No. 01/SE/BSP/CPWD/2026-27**

Sr. No.	Name of Component	Estimated Cost	Percentage above or below or At Par the estimated cost	% in figures	Total Cost Rs.
1.	Civil Work	Rs. 1,67,47,768/-			
2.	Elect. Work	Rs. 51,74,428/-			
	Total	Rs. 2,19,22,196/-			

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

Signature of Bidder with full Address:

Date:-

**CIRCULAR OF CONTRACT, DG/CON/2023/01 to DG/CON/2023/11**

केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/CON/Maintenance 2023/10
ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI

Dated: 09.10.2024

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

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

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

[Signature]
R K SINGH
EE(Manual)

1/2



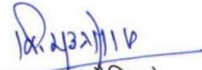
Appendix-XX

REGISTER OF MATERIAL AT SITE (MAS)

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

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

This issues with the approval of DG, CPWD.


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

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

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


R.K SINGH
EE(Manual)





केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/CON/Maintenance-2023/11

ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Nirman Bhawan, New Delhi

Dated: 29.10.2024

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

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

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


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

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

This is issued with the approval of DG CPWD.

(Signature)
 29/10/24
 (दिनेश कुमार उज्जैनिया)
 अधीक्षण अभियंता (सी.एंड एम.)

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

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

(Signature)
 29.10.24
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**केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन**

No. DG/CON/Maintenance 2023/12

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI

Dated: 03.01.2025

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

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

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

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

This issues with the approval of DG, CPWD.

12/12/24
31/12/24
(दिनेश कुमार उज्जैनिया)
अधीक्षण अभियंता (सी.एंड एम.)

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

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

03.01.25
R K SINGH
EE(Manual)



केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/CON/Maintenance 2023/13

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI

Dated: 31.01.2025

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

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

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

This issues with the approval of DG, CPWD.

Issued from file No. CSQ/CM/17(1)/2023/Maintenance e-file 9184028 (DFA/9313089)
केलोनवि तथा लोनवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु।
(केलोनवि वेबसाईट के माध्यम से)

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**Central Public Works Department
Office Memorandum**

No. DG/CON/Maintenance 2023/14

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI

Dated: 10.02.2025

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

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

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

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Clause 9 Payment of Final Bill	Clause 9 Payment of Final Bill
The final bill shall be submitted by the contractor in the same manner as specified in interim bills within three months of physical completion of the work or within one month of the date of the final certificate of completion furnished by the Engineer-in-Charge whichever is earlier. No further claims shall be made by the contractor after submission of the final bill and these shall be deemed to have been waived and extinguished. Payments of those items of the bill in respect of which there is no dispute and of items in dispute, for quantities and rates as approved by Engineer-in-Charge, will, as far as possible be made within the period of three months the period being reckoned from the date of receipt of the bill by the Engineer-in-Charge or his authorized Asstt. Engineer, complete with account of materials issued by the Department and dismantled materials. 10.2.25 R K SINGH EE(Mannual)	i. The final bill shall be submitted by the contractor to the Engineer-in-Charge in the same manner as specified in interim bills within three months of physical completion of the work or within one month of the date of the final completion certificate furnished by the Engineer-in-Charge whichever is earlier. At the time of submission of the final bill, receipt will be given by the O/o Engineer-in-Charge. ii. In case of correction / rejection / short documents, it will be mandatory for Engineer-in-Charge to give recorded reasons for correction / rejection / submission of additional documents within fifteen days after submission of final measurement and/or final bill by the contractor. iii. Final bill will be accepted with all pre-requisite documents such as sanctioned copies of extra items and deviation in quantities, escalation statements, recovery statement, theoretical statement, completion certificate, final extension of time case, mandatory tests statement, dismantled materials account and other documents as mentioned in clause-7 A etc. iv. An undertaking along the final bill will be submitted by the contractor that "I / we hereby under take that all the measurements/claims payable under this contract have been included in the final bill and will not submit any other bill/claims in future under this agreement thereafter". v. No further claims shall be entertained from the contractor after submission of the final bill and these shall be deemed to have been waived and extinguished. Payments of those items of the bill in respect of which there is no dispute and of items in dispute, for quantities and rates as approved by Engineer in



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

This issues with the approval of DG, CPWD.

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

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

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

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केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/CON/ Maintenance 2023/15
ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI

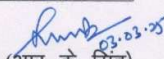
Dated: 03.03.2025

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

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

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

This issues with the approval of DG, CPWD.


(आर. के. सिंह)

कार्यपालक अभियन्ता (एम.)

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

केलोनवि तथा लोनवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु।

(केलोनवि वेबसाईट के माध्यम से)

R K SINGH
EE(Manual)



केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/CON/ Maintenance 2023/16

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI

Dated: 16.06.2025

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

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

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

This issues with the approval of DG, CPWD.

चन्द्र पाल
(चन्द्र पाल) 16/06/2025

अधीक्षण अभियंता (सी. एंड एम.)

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

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

R K SINGH
16.06.25
R K SINGH
EE(Manual)



केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/CON/Maintenance-2023/17

ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Nirman Bhawan, New Delhi

Dated: 06.11.2025

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

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

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

This is issued with the approval of DG CPWD.

अधीक्षण अभियंता

Issued from file No. CSQ/CM/17(1)/2024/ Maintenance e-file 9195855 (DFA/9350595)
के.लो.नि.वि. तथा लो.नि.वि. दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु (के.लो.नि.वि.वेबसाईट के माध्यम से)।

D.P. Jindal
EE (Contract)



केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/CON/ Maintenance 2023/18
ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

VIDYUT BHAWAN, NEW DELHI

Dated: 27.02.2026

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

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

Existing provision	Modified provision
General Rules & Directions 11 (i) The Contractor whose tender is accepted, will be required to furnish performance guarantee at specified percentage of the tendered amount as mentioned in Schedule 'E' and within the period specified in Schedule F.	General Rules & Directions 11 (i) The Contractor whose tender is accepted, will be required to furnish performance guarantee as mentioned in Schedule 'E' and within the period specified in Schedule F.
Clause 1 Performance Guarantee (i) The contractor shall submit an irrevocable Performance Guarantee at specified percentage of the tendered amount as mentioned in Schedule 'E', in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in Schedule 'F' from the date of issue of letter of acceptance.	Clause 1 Performance Guarantee (i) The contractor shall submit an irrevocable Performance Guarantee as mentioned in Schedule 'E', in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in Schedule 'F' from the date of issue of letter of acceptance.
Sl. No. (ii) to (v) SCHEDULE 'E' Reference to General Conditions of contract Sl. No. (i)	No change SCHEDULE 'E' Reference to General Conditions of contract No change

D.P. Jindal
D.P. Jindal
EE (Contract)



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

This issues with the approval of DG, CPWD.

अधीक्षण अभियंता (सी.एंड.एम.)
Chander Pal SE (C&M)
27.02.2026

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

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

27.02.26
D.P. Jindal
EE (Contract)



केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/CON/Maintenance 2023/19

ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Vidyut Bhawan, New Delhi

Dated: 25.03.2026

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

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

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

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[Signature]
D.P. Jindal
EE (Contract)



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

12/5/12
D.P. Jindal
EE (Contract)



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

This issues with the approval of DG, CPWD.

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

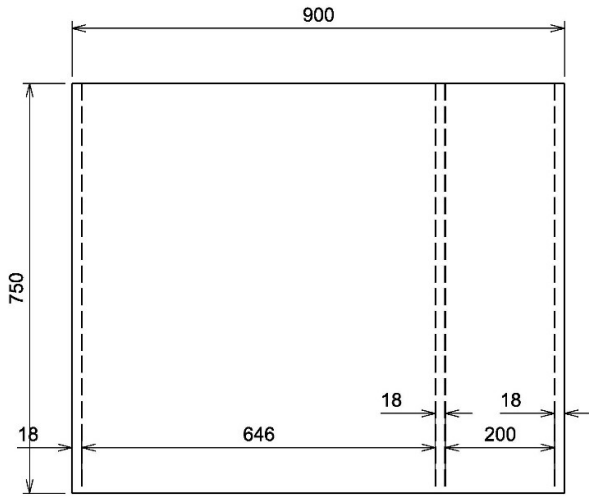
चन्द्र पाल, अधी. अभि. (सी. एंड एम.)
Chander Pal, SE (C&M)

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

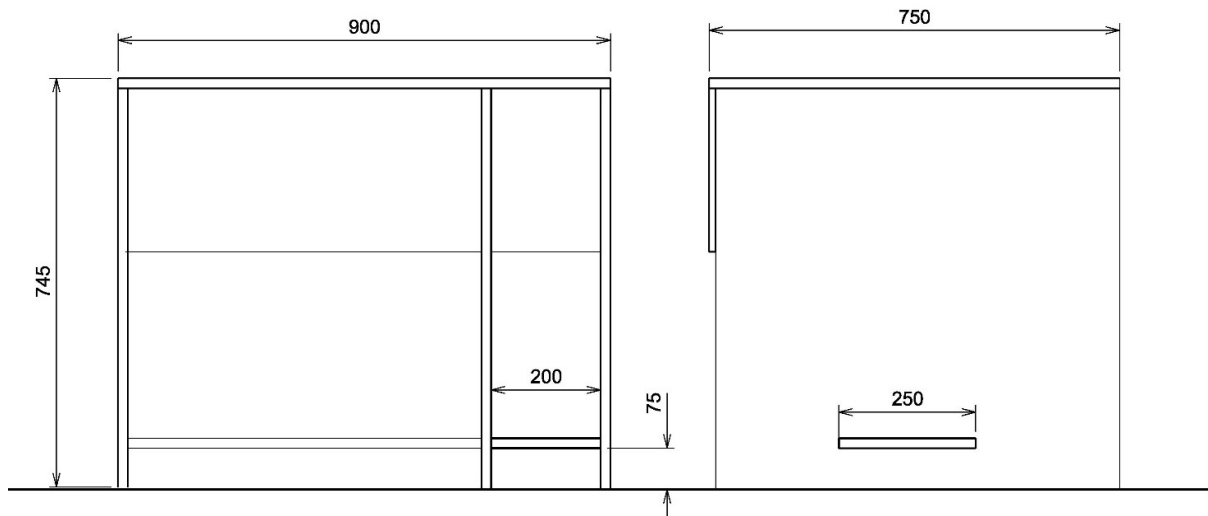
केलोनिवि तथा लोनिवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु।
(केलोनिवि वेबसाईट के माध्यम से)

12/25/23

D.P. Jindal
EE (Contract)

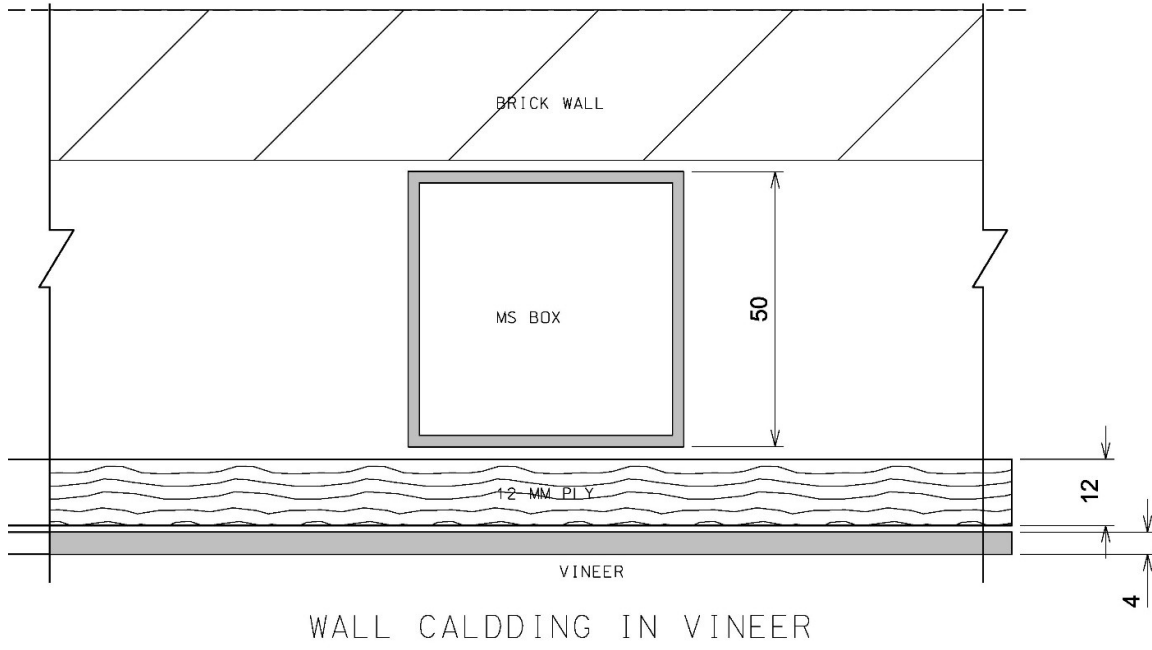


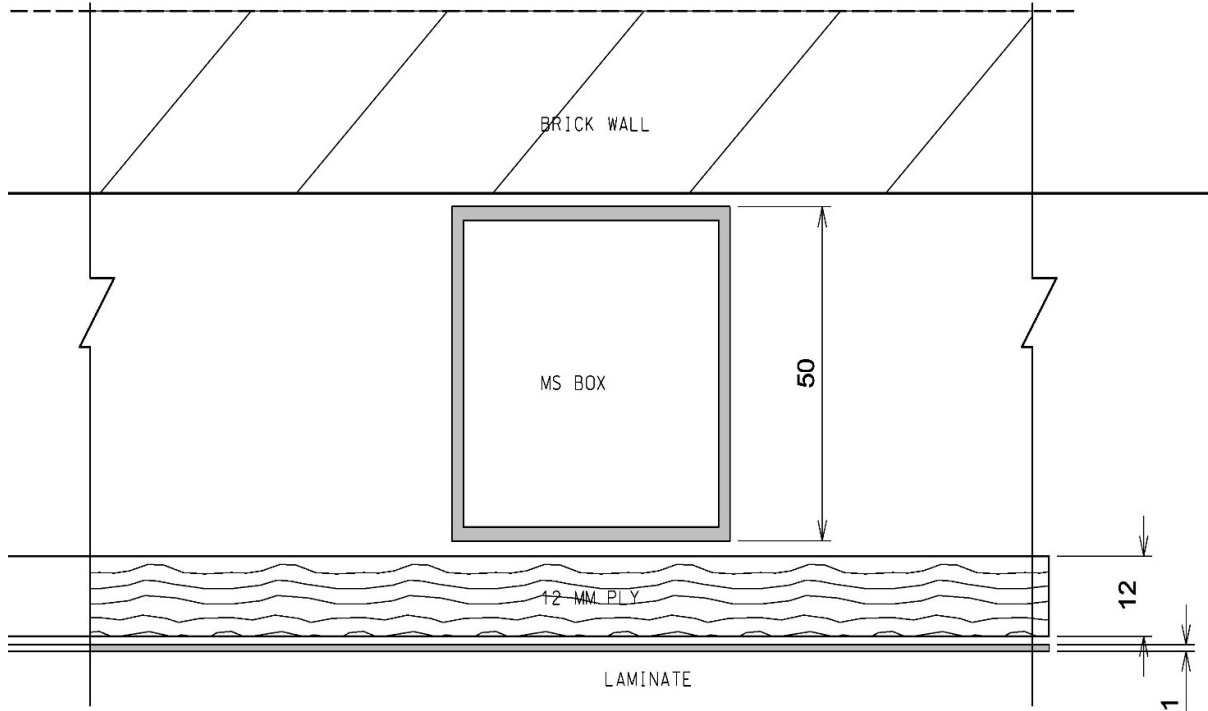
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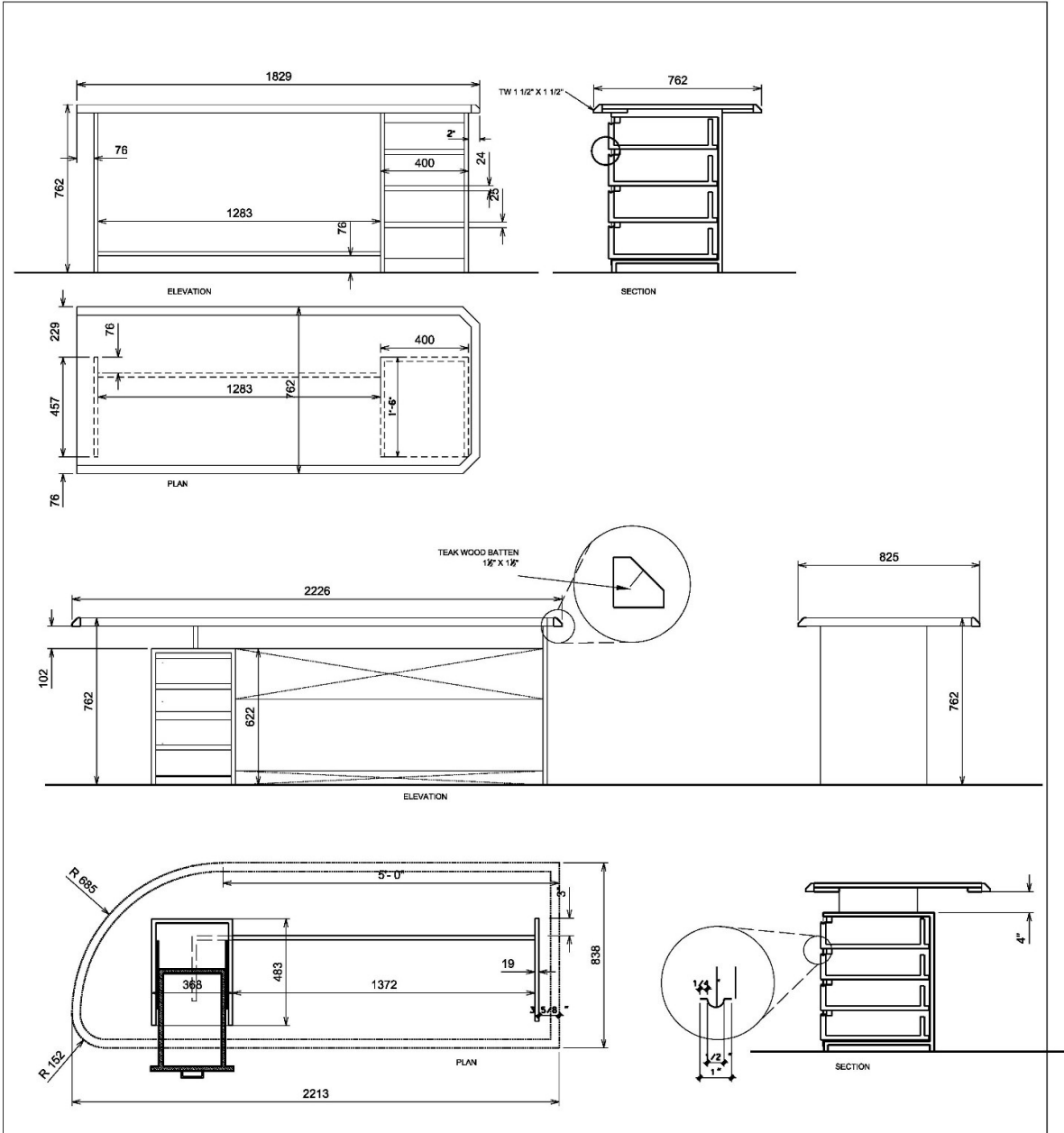
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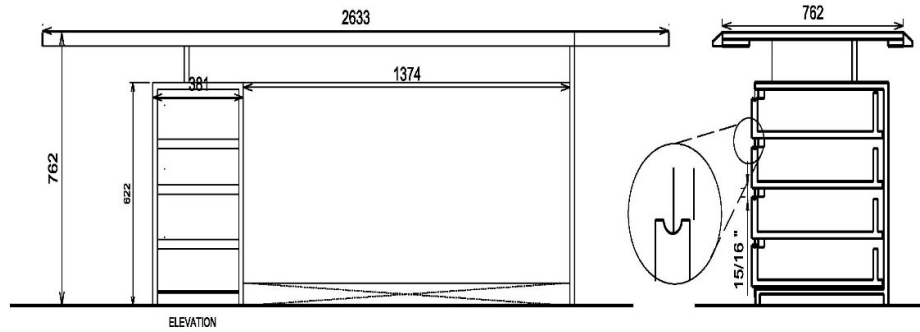
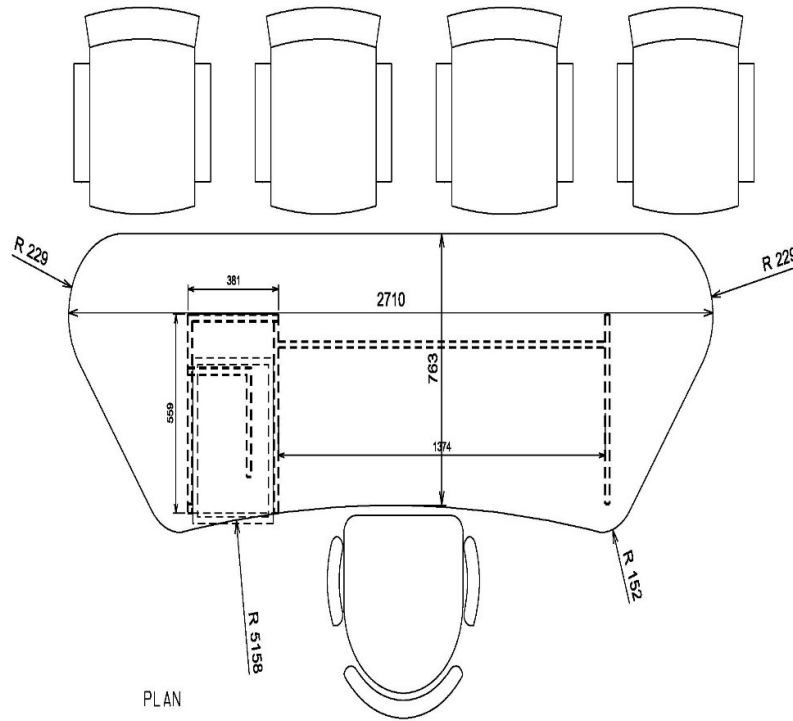
SECTION

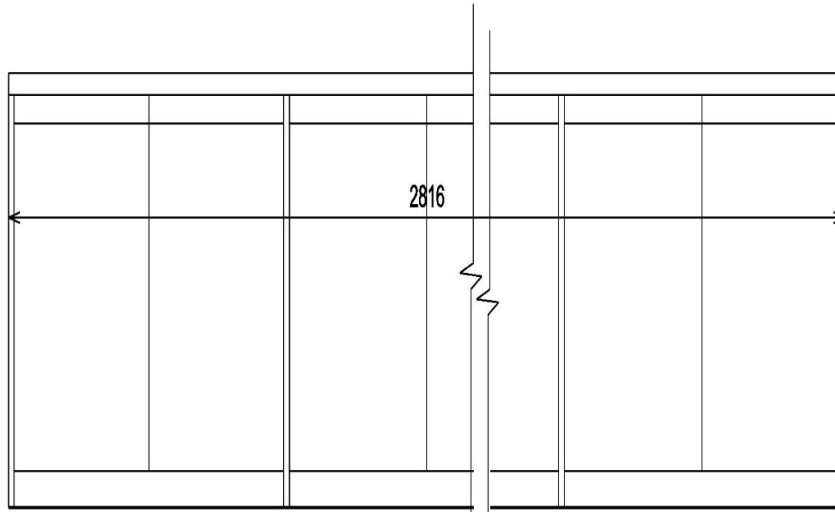




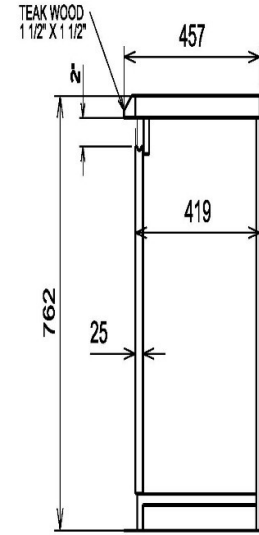
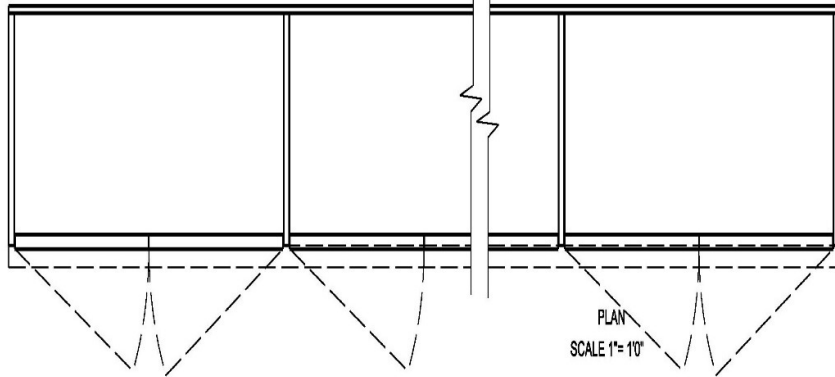
WALL CLADDING IN LAMIANTE



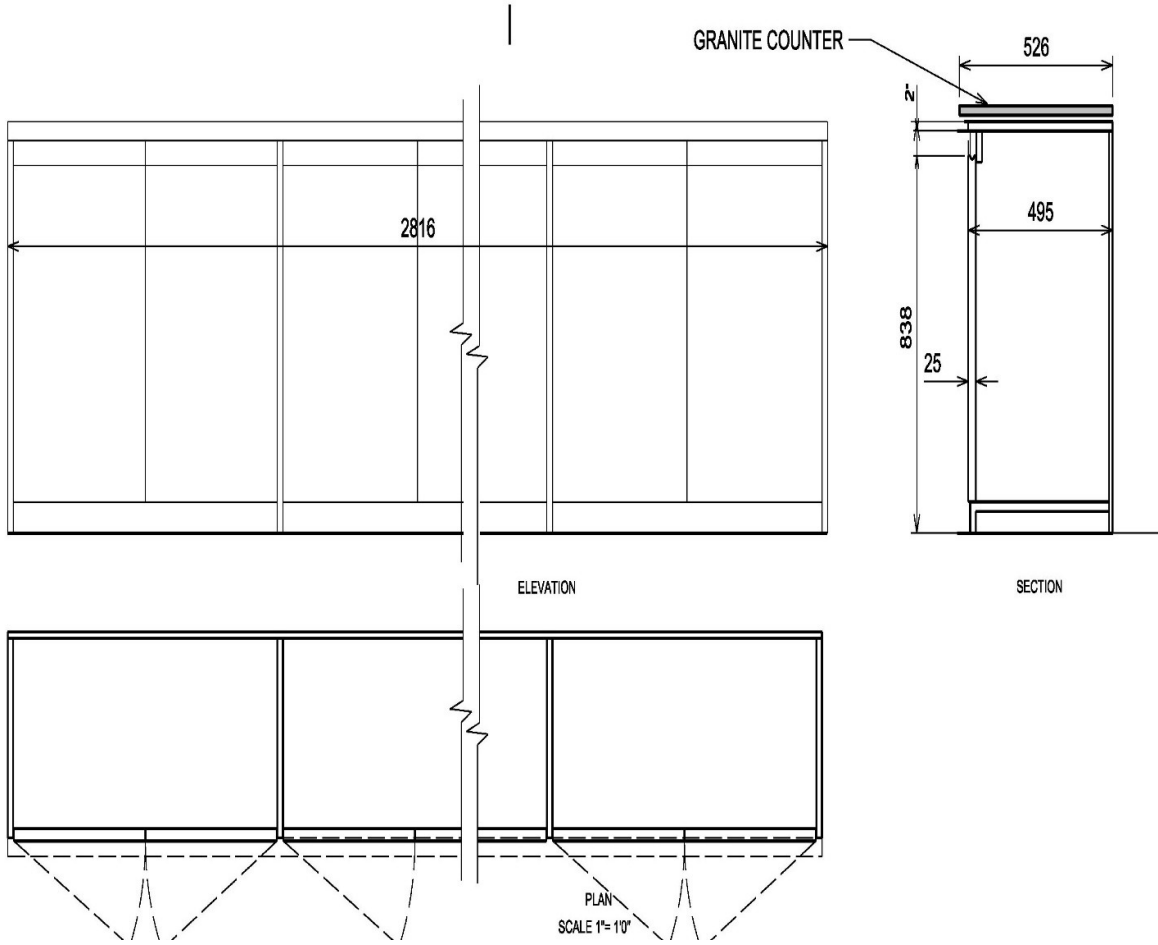


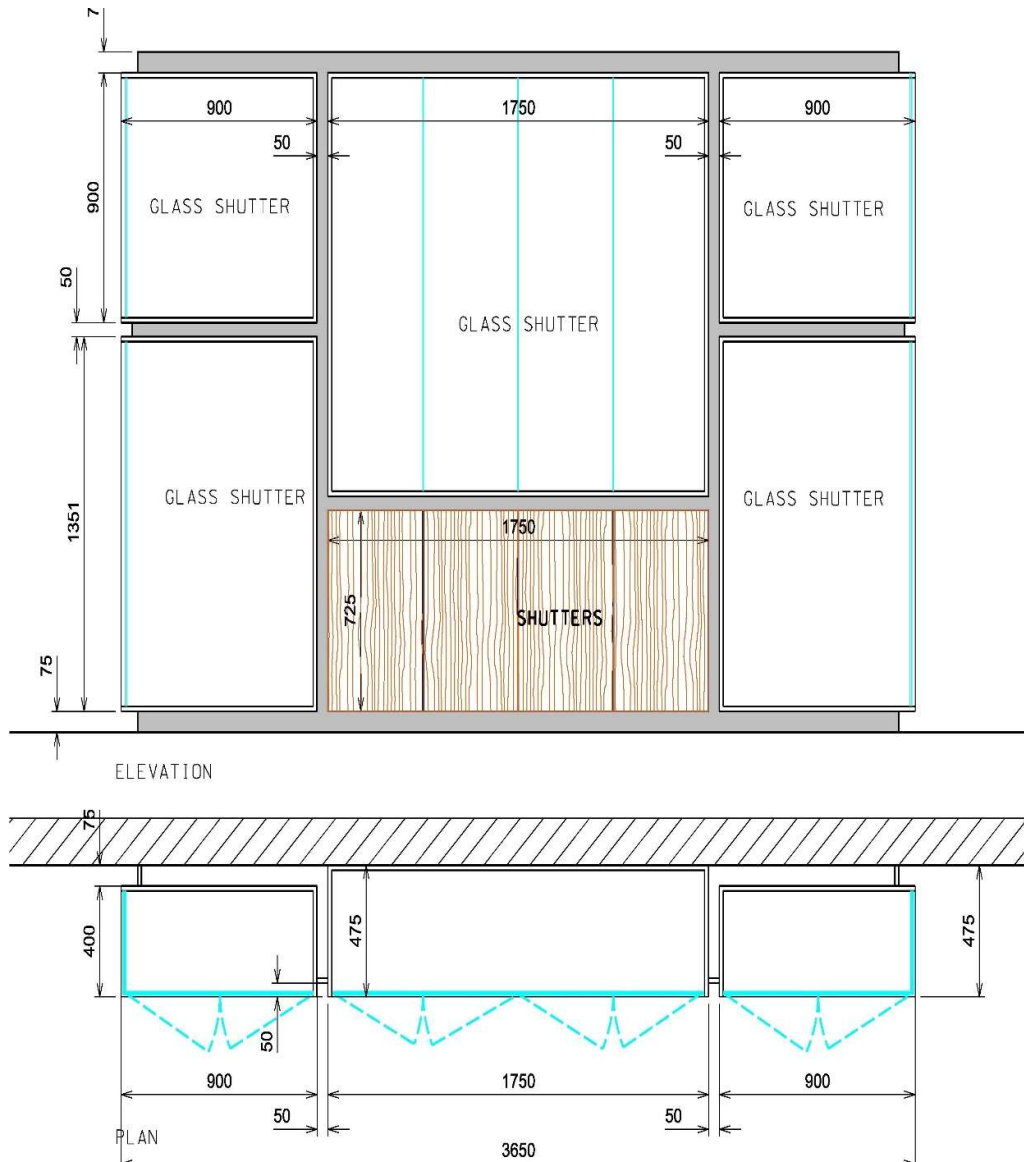


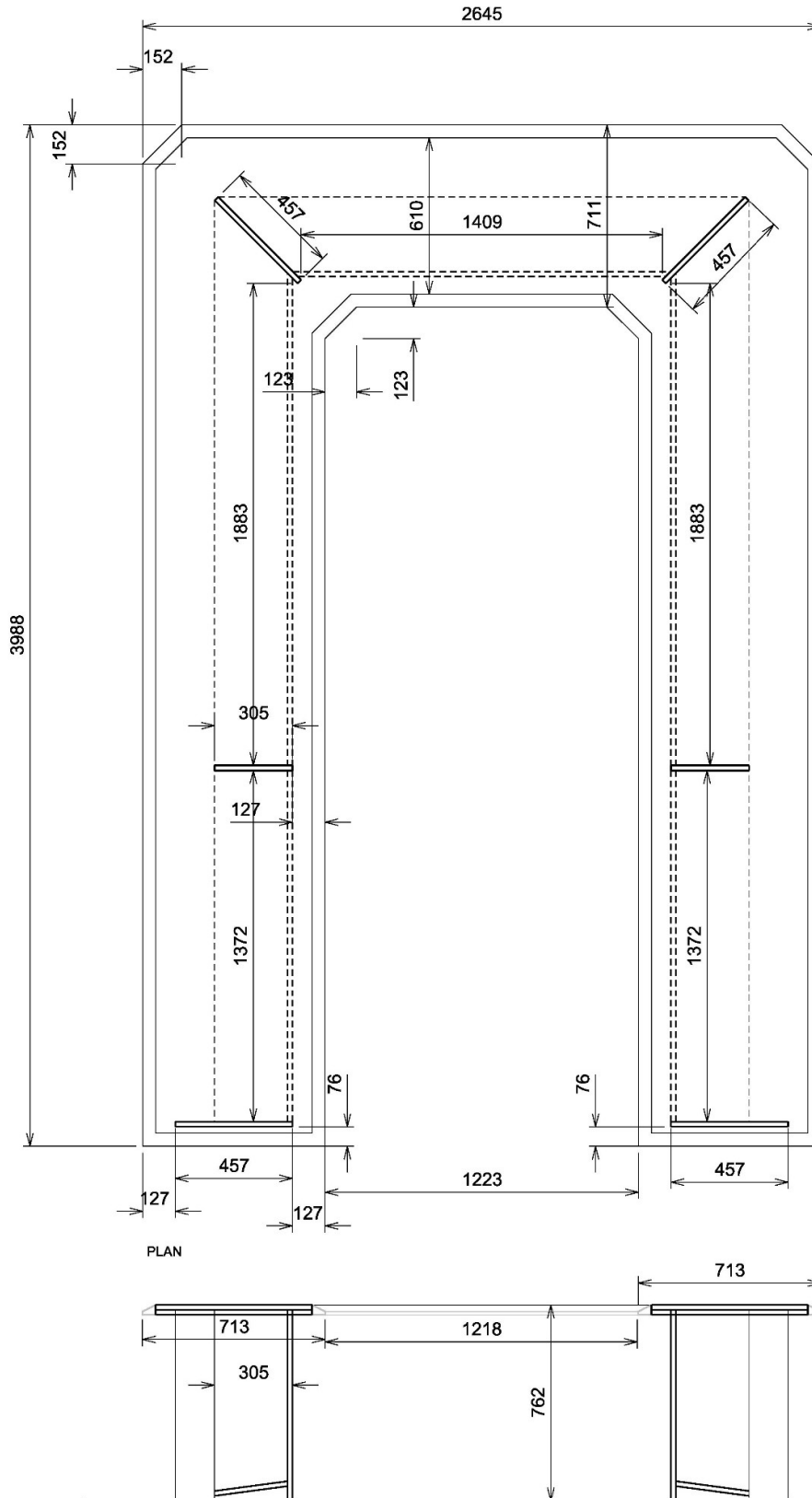
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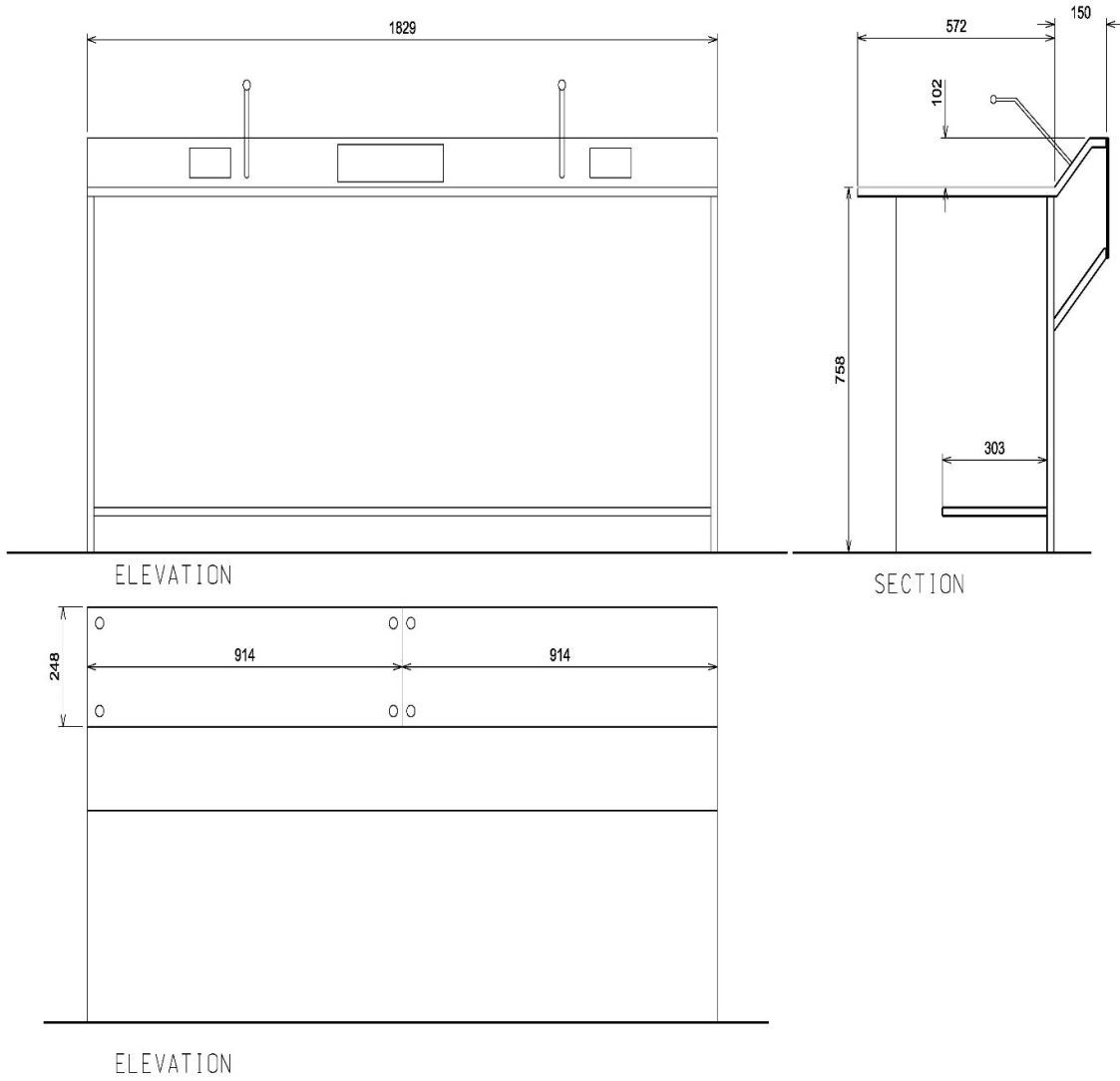


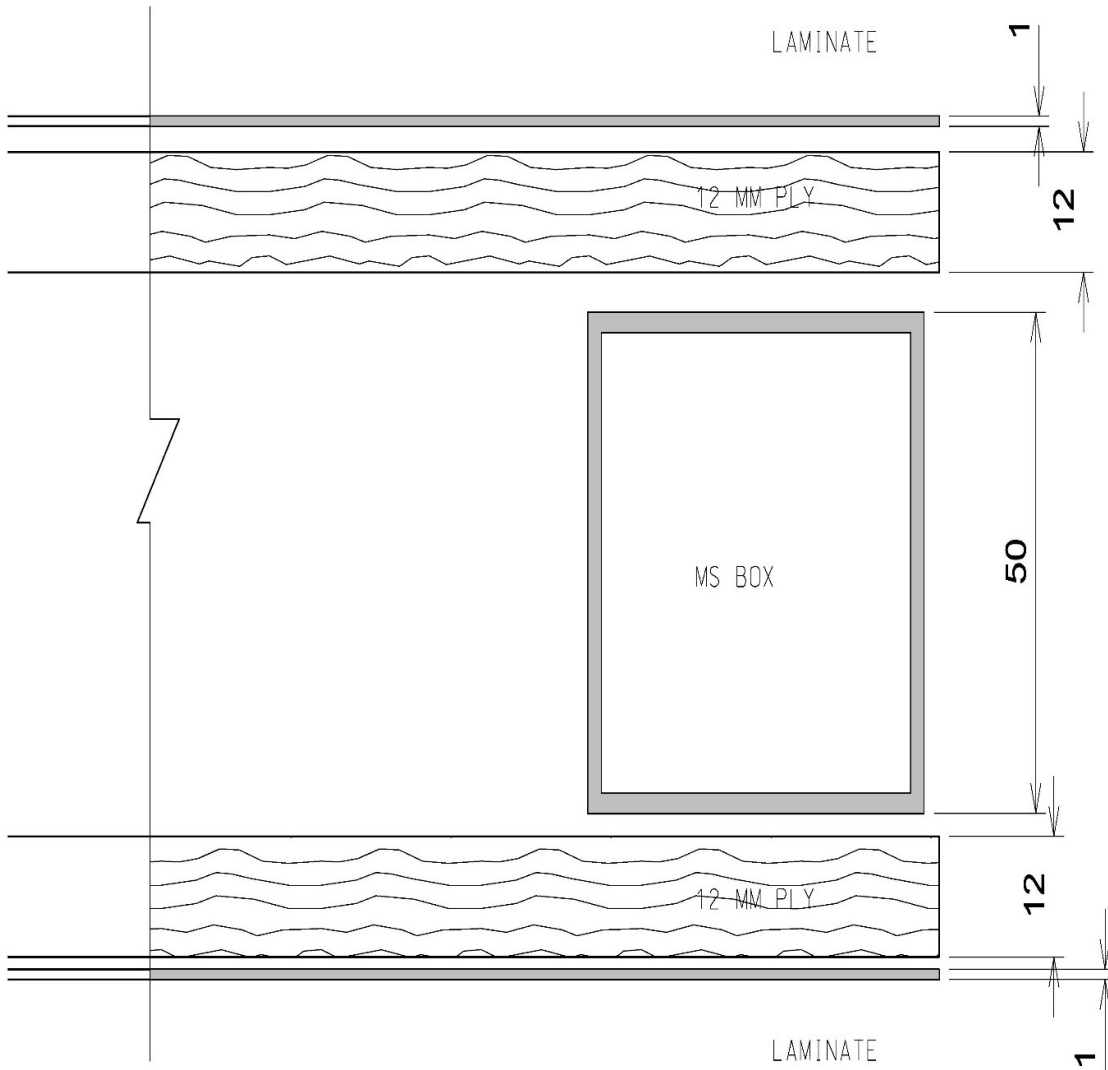
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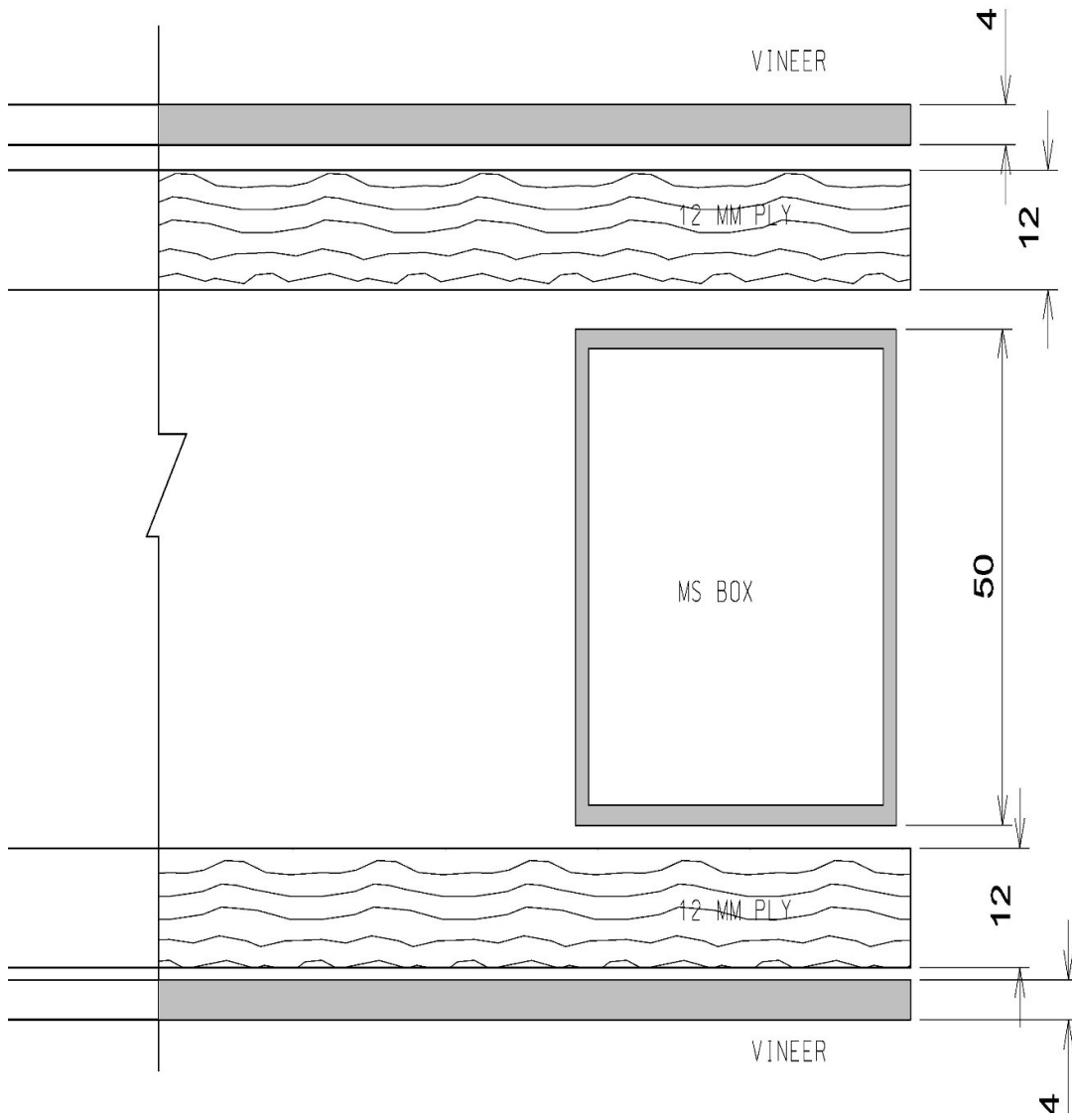


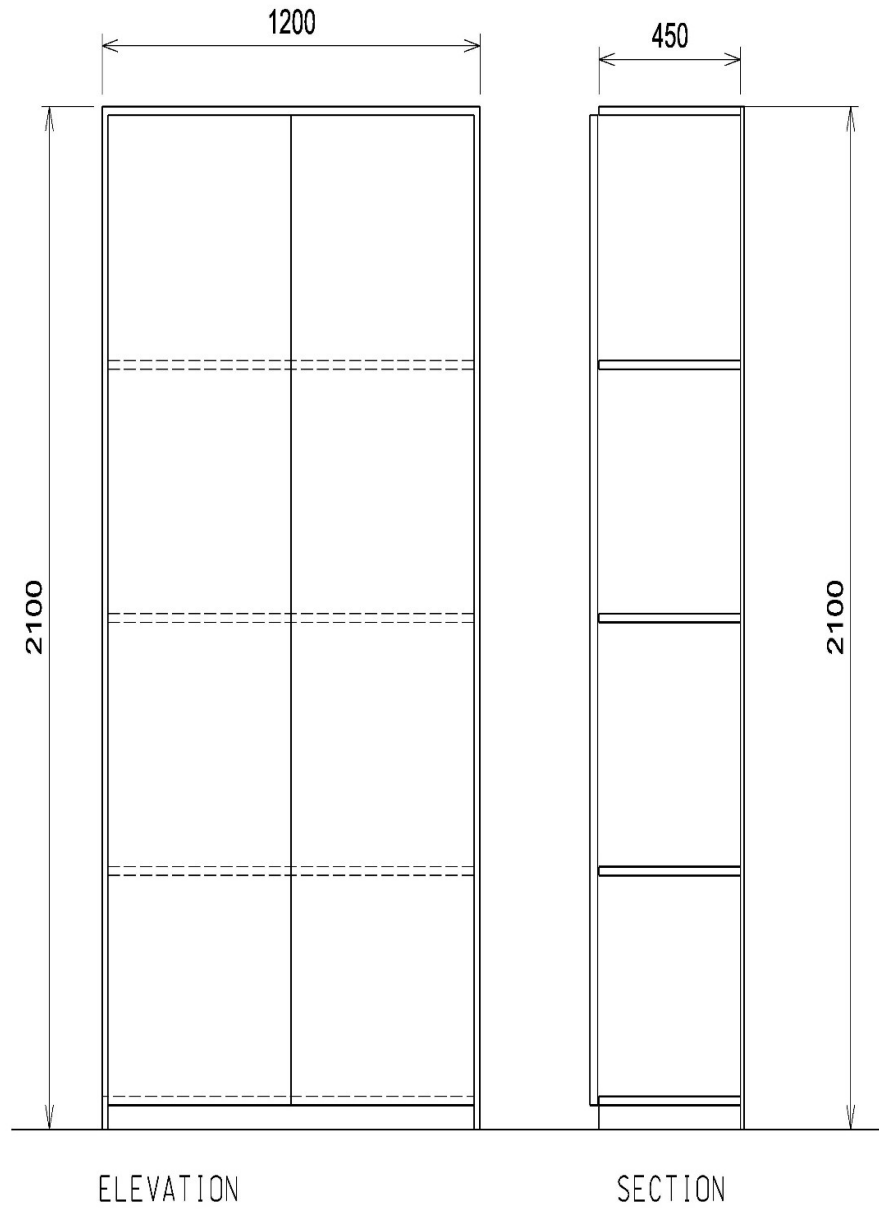




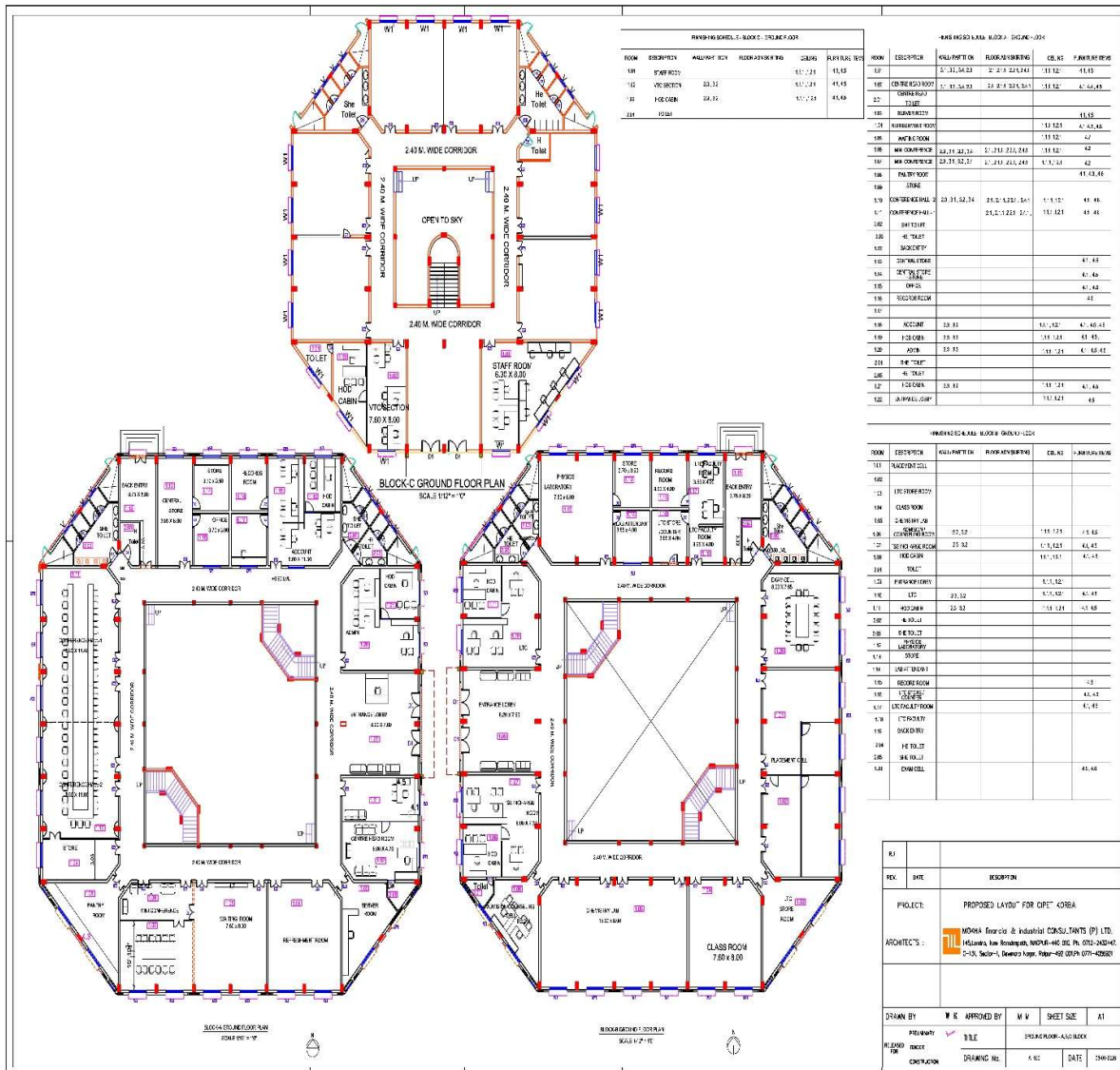


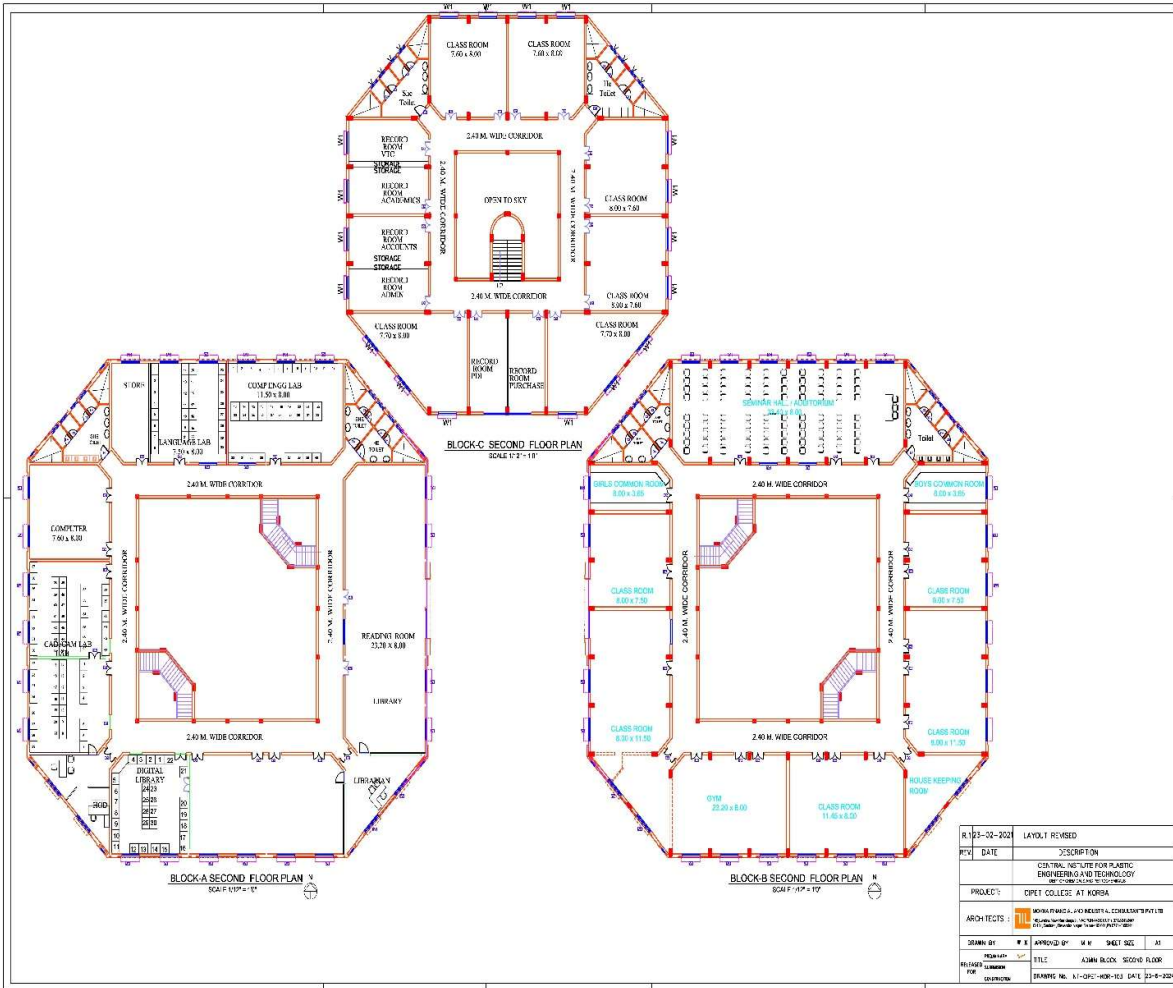


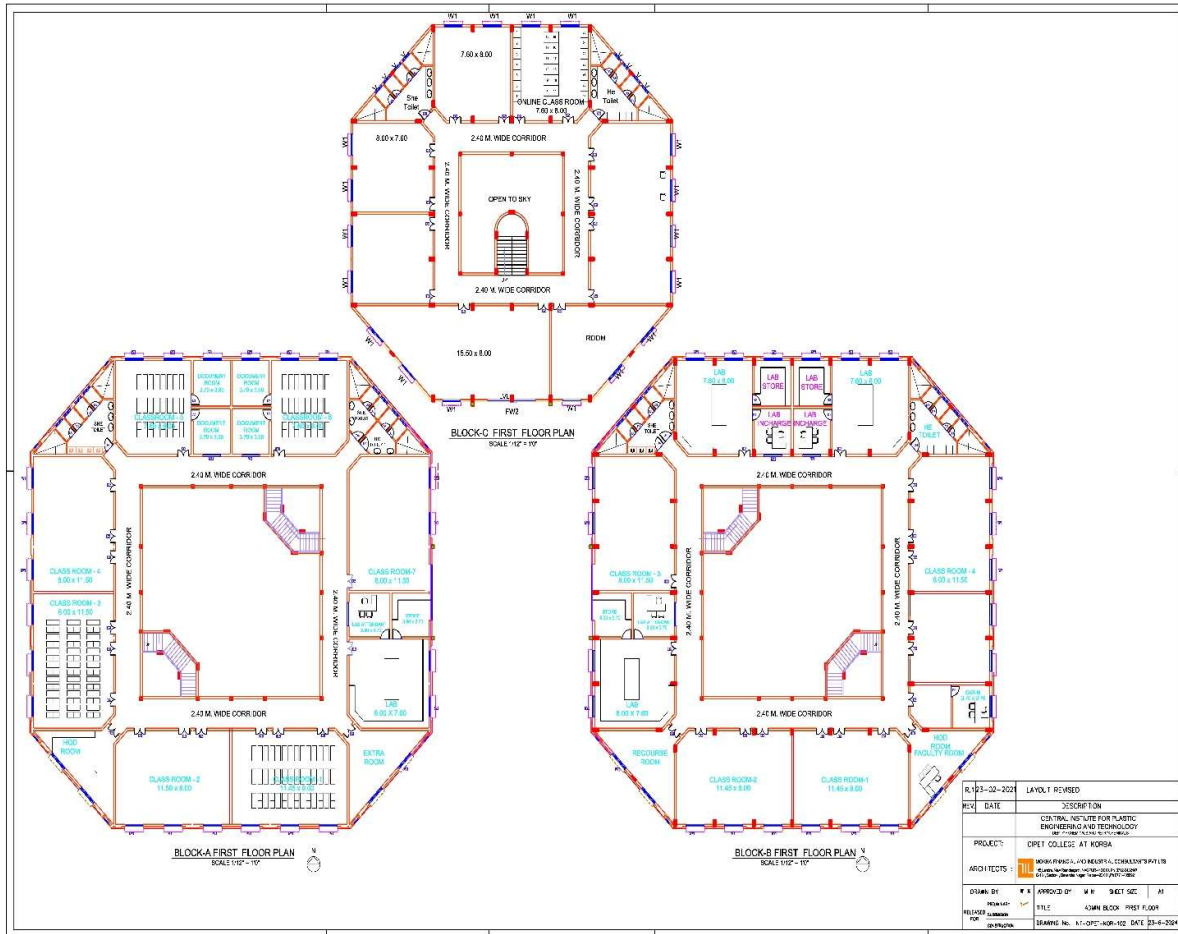




Drawings









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