N. I. T./TENDER PAPER

NIT No.	:	**05/NIT/EE & SM-III/KPD/CPWD/2026-27**
Name of work	:	**Construction of Training Hall at TEC, Coffee Board, Koraput .**
Composite Estimated Cost	:	**Rs. 47,39,019.00**
Earnest Money	:	**Rs. 94,780/-** (to be returned after receiving performance guarantee)
Performance Guarantee	:	**5% of tendered value**
Security Deposit	:	**2.5% of tendered value.**
Time Allowed	:	**06 (Six) Months**

Certified that this Tender document contains Page No. 01 to 195 and Schedule of Quantities from Page No 166 to 194

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GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
O/o EXECUTIVE ENGINEER & SM(C)-III
CPWD, KORAPUT

CPWD

NOTICE INVITING TENDER

The **EE & SM (C)-III, Koraput Project Division, CPWD,** (Telephone No. 06811-291361, email id: eecpwdkpd@gmail.com) on behalf of President of India invites **Online percentage rate bids** from CPWD enlisted CPWD contractor of appropriate class and above in composite category for the work of **"Construction of Training Hall at TEC, Coffee Board, Koraput.".**

NIT No: 05/NIT/EE&SM-III/KPD/CPWD/2026-27

Name of the Work: Construction of Training Hall at TEC, Coffee Board, Koraput.

Estimated Cost	**:Rs.47,39,019/- (Civil Work**	**:Rs.42,40,477/-**
		+
	Electrical Work	**: Rs.4,98,542/-)**
Earnest Money	**: Rs.94,780/-**	
Security Deposit: 2.5% of Tender Value		
Performance Guarantee	**: 5% on Tendered Value**	
Last date and time of submission of bid	**: 11/11/2026 up to 15:00 Hrs**	

*** To be filled by EE & SM(C)-III, Koraput, CPWD**

Executive Engineer & SM(C)-III
Koraput Project Zone
CPWD, Koraput (Odisha)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

Name of Work: -Construction of Training Hall at TEC, Coffee Board, Koraput.

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Correction – Nil,
Insertion – Nil,
Deletion – Nil AE(P) AE(C) EE(C)

Certified that this NIT No. 05/NIT/EE&SM-III/KPD/CPWD/2026-27 amounting to **Rs. 47,39,019/- contains Page 01 to 195 only marked in chronological order.**

Assistant Engineer (C)-II
KPD, CPWD, Koraput

Executive Engineer & SM (C)-III
KPD,CPWD, Koraput

Assistant Engineer (E)
KPESD, CPWD, Koraput

Executive Engineer (E)
IPED,CPWD, Berhampur

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

BID DOCUMENT

PART – A

Name of Work: -Construction of Training Hall at TEC, Coffee Board, Koraput.

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

CPWD-6 for e-Tendering

The **EE & SM (C)-III, Koraput Project Division, CPWD,** (Telephone No. 06811-291361, email id: eecpwdkpd@gmail.com) on behalf of President of India invites **Online percentage rate bids** from CPWD enlisted CPWD contractor of appropriate class and above in composite category for the work of **"Construction of Training Hall at TEC, Coffee Board, Koraput.".**

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. Estimated cost of the work is **Rs. 47,39,019/-** (Civil+ Electrical). This estimate, however, is given merely as a rough guide.

2. Criteria of eligibility for submission of bid documents
   (i) The enlistment of the CPWD contractors in the appropriate class or above in composite category should be valid on the last date of submission of bids.
   (ii) In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.

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

4. The time allowed for carrying out the work will be **06 (Six) 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.

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

6. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms & conditions of the contract to becomplied with and other necessary documents except Standard General Conditions of Contract -2023 along with correction slip, which can be seen at CPWD website (https://cpwd.gov.in/or www.eprocure.gov.in) free of cost.

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

8. While submitting the revised bid, the 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.

9. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee including e- Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank (drawn in favour of (**Executive Engineer cum SM (C)-II, Berhampur Project Division, CPWD, Berhampur**) shall be scanned and uploaded on the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.

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

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

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

The bid submitted shall be opened at **15:30 Hrs. on 11/11/2026 .**

10. The bid submitted shall become invalid if:
    (i) The bidder is found ineligible.
    (ii) The bidder does not submit EMD.
    (iii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.
    (iv) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of tender opening authority.
    (v) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below the total amount of the tender or any section/subhead in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

11. The contractor, whose bid is accepted, will be required to furnish **Performance Guarantee of 5% (Five Percent)** of the bid amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10,000/-) or Deposit at Call receipt of any scheduled bank/Banker's Cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay order of any Scheduled Bank of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with 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. A bid will be treated as abnormally low if quoted bid amount is lesse than 80% of the estimated cost put to tender. In case of abnormally low bids as defined above, the bidder shall be required to submit Additional Performance Guarantee (APG) in addition to the standard Performance Guarantee (PG). The amount of APG shall be equivent to the difference between the 80% amount of ECPT and quoted amount. (e.g. if ECPT is A and quoted amount is 0.7A then the amount of APG shall be 0.8A – 0.7A). The APG shall be in the prescribed format of Performance Guarantee and has to be submitted within the time frame prescribed for submission of Performance Guarantee. The other terms & condition of release etc. of APG shall be same as that of PG

    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-contractor if any engaged by the contractor for the said work and Programme Chart (Time and progress) within the period specified in Schedule F.

12. The description of the works as follows: -

Name of Work: -Construction of Training Hall at TEC, Coffee Board, Koraput..

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 bidders implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

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

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

15. In case of Non-submission of Hard copies within the stipulated time by the lowest bidder and or any discrepancy is noticed between the documents as uploaded at the time of submission of the bid online and hard copies as submitted physically in the office of the Executive Engineer, then the bid submitted shall become invalid and the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit the EMD. Further, the tenderer shall not be allowed to participate in the retendering process of the work.

16. 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.

17. GST or any other tax applicable in respect of inputs procured by the contractor for this contract shall be payable by the Contractor and the Government will not entertain any claim whatsoever in respect of the same. However, the component of

GST at time of supply of service (as provided in CGST Act 2017) provided by the contract shall be varied if different from that applicable on the last date of receipt of tender including extension if any.

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

19. No Engineer of gazette rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be canceled if either the contractor or any of his employees is found at 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.

20. The bid for the works shall remain open for acceptance for a period of 30 (Thirty days from the date of opening of bids. Further-

(i) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department within 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.

OR

(ii) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.

AND

(iii) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work.

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

a) The Notice Inviting Bid, all the documents including additional conditions, specifications general Conditions of contract – 2023 along with correction slip and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
b) Standard C.P.W.D. Form 7 or other Standard C.P.W.D. Form as mentioned

For Composite Bids

22.1. The Executive Engineer in charge of the major component will call bids for the composite work.

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

22.3 After acceptance of the bid by competent authority, the EE&SM 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. EE of major component will operate part A, part B and part D of the agreement. EE/DDH in charge of minor component(s) shall operate Part C & Part D along with Part A of the agreement.

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

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

22.6 Running payment for the major component shall be made by EE of major discipline to the main contractor. Running payment for minor components shall be made by the Engineer-in-charge of the discipline of minor component directly to the main contractor.

22.7 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.

22.8 Supervision of various components of works will be carried out by concerned wings of the department under the overall coordination of the NIT approving authority or any other officer as notified by CPWD Directorate from time to time, as the case may be.

22.9 Final bill of whole work shall be finalized and paid by the EE & SM 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 & SM of major component for including in the final bill for composite contract.

22.10 Levy of Compensation under Clause 2, if any, and rescheduling of milestones as stipulated under clause 5, will be decided by an officer not below the rank of SE or any other officer as notified by CPWD Directorate from time to time, in charge of the major component in consultation with concerned officer-in-charge of minor discipline and on receipt of required information in this regard from Engineer-in-Charge of major discipline as well as concerned Engineer-in-Charge of minor discipline.

22.11 Milestones are applicable for all components of work. The amount to be withheld under Clause 5 of the contract will be decided by the Engineer-in-Charge of the respective component. In the event of not achieving the necessary milestones as assessed from milestone bar chart, specified percentage of the tendered value of work will be withheld for failure of each milestone.

22.12 It will be obligatory on the part of bidder to sign the contract document for all components before the first payment is released.

22.13 In case of reduction in scope of work no claim on account of reduction in value of work, loss of expected profit, consequential overheads etc. shall not be entertained.

EE & SM(C)-III, CPWD
Koraput Project Division
Koraput, Odisha

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING

(FORMING PART OF BID DOCUMENT AND TO BE POSTED ON THE WEBSITE)

The **EE & SM(C)-III, Koraput Project Division CPWD,** (Telephone No. 06811-291361, email ID:eecpwdkpd@gmail.com)on behalf of the President of India invites online percentage rate bids from CPWD enlisted contractor of appropriate class and above in composite category **for the following work**: -

Sl.No.	Description	Details
1	NIT No.	**05/NIT/EE&SM-III/KPD/CPWD/2026-27**
2	Name of Work	**Construction of Training Hall at TEC, Coffee Board, Koraput..**
3	Estimated Cost Put to Tender (Composite)	**Rs.47,39,019.00**
	Civil Work (Major Component)	**Rs.42,40,477.00**
	Electrical Work (Minor Component)	**Rs.4,98,542.00**
4	Earnest Money	**Rs. 94,780.00**
4	Period of Completion	**06 months**
5	Last date& time of online submission of bid and other documents as specified in the press notice.	Up to 15:00 Hours on 11/11/2026 **
6	Time & date of online opening of documents. (Mandatory documents)	At 15:30 Hours on 11/11/2026 **
7	Time & date of online opening of financial bids.	**At 15:30 Hours on 11/11/2026 ** **
8	Last date & time of submission of hard copies of Experience Certificates if any, Registration Certificates, Affidavit if any, Undertaking and other Documents as specified in the press notice to Division Office by the **Lowest Tenderer Only**.	**To be submitted during office hours within a week from the date of opening of Bid.** In case the last day happens to be a closed holiday, these documents shall be submitted on the next working day.

-----**(to be filled by EE&SMI-II, BPD

1. The contractor submitting the tender should read the schedule of quantities, additional conditions, additional specifications, particular specifications, CPWD- 6 and other terms and conditions given in the NIT and drawings. The bidder should also read the General Conditions of Contract for CPWD Works 2023 (Construction Works) and along with up-to-date correction slips or latest edition as applicable with all amendments/ modifications

upto last date of submission of bids, which is available as Government of India Publications; however, provisions included in the tender document shall prevail over the provisions contained in the standard form. The set of drawings and NIT shall be available in the office of Executive Engineer & SM(C)-III, CPWD, Koraput. The contractor should also visit the site of work and acquaint himself with the site conditions before tendering. He should only submit his tender if he considers himself eligible and he is in possession of all the required documents. The following conditions, which already form part of the tender conditions, are specially brought to his notice for compliance while submitting the tender online. They are requested to comply following instructions.

(A) Tenders with any condition including that of conditional rebates shall be rejected forthwith.

(B) The successful bidder shall be required to submit a **Performance Guarantee of 5% (Five Percent)** of the tendered amount within 7days of issue of letter of intent. This period can be further extended by Engineer-in-Charge up to a maximum period of 3 days on the written request of the contractor and with late fee as defined in Schedule F.

(C) A bid will be treated as abnormally low if quoted bid amount is lesse than 80% of the estimated cost put to tender. In case of abnormally low bids as defined above, the bidder shall be required to submit Additional Performance Guarantee (APG) in addition to the standard Performance Guarantee (PG). The amount of APG shall be equivent to the difference between the 80% amount of ECPT and quoted amount. (e.g. if ECPT is A and quoted amount is 0.7A then the amount of APG shall be 0.8A – 0.7A). The APG shall be in the prescribed format of Performance Guarantee and has to be submitted within the time frame prescribed for submission of Performance Guarantee. The other terms & condition of release etc. of APG shall be same as that of PG

(D) Up-to-date GST, Work Contract Tax, Labour-cess etc. as applicable shall be borne by the contractor himself. The contractor shall quote his rates considering all such taxes and hence their quoted rates should be inclusive of all the tax components.

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

2. 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.
3. Information & instructions for bidder posted on website shall form part of tender document.
4. The bid documents consisting of plans, specifications, the schedule of quantities of various types of works to be done and the set of terms and conditions of the contract to be complied with the contractor whose bid may be accepted and other necessary documents can be seen in the office of Executive Engineer & SM(C)-III, CPWD, Koraput between hours of 10:00

AM and 5:30 PM every day except on Sunday and public holidays or can be seen on website https://etender.cpwd.gov.in or www.etender.cpwd.gov.in

5. 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 Banker's Cheque or Fixed Deposit Receipts or/ and Bank Guarantee including e- Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank towards EMD in favour of Executive Engineer as mentioned in NIT, receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/ AE), CPWD and other documents as specified.
6. Those contractors not registered on the website mentioned above are required to get registered beforehand. If needed they can be imparted training on online tendering process as per details available on the website.
7. The intending bidder must have valid class-IV digital signature to submit the tender. On opening date, the contractor can login and see the tender opening process. After opening of tenders, he will receive the competitor's tender sheets.
8. Contractor can upload documents in the form of JPG format and/or PDF format.
9. Certain modifications may be required. Addendum / Corrigendum shall be uploaded by the Engineer-in-Charge, if felt necessary by him, which shall form part of tender document.
10. The bidders are advised to visit the site before submitting his bid to have more clarity about the site conditions and availability of space for execution of the work.
11. After submission of the bid the Bidder can re-submit revised bid any number of times but before last time and date of submission of bid as notified. The bidder can submit revised bid only online on tendering website. The intending bidders are not allowed to modified / revised bid by physical document or physical communication whatsoever.
12. While submitting the revised bid, Bidder 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.
13. The department reserves the right to reject any prospective application without assigning any reason thereof and to restrict the list of qualified bidders to any number deemed suitable by it, if too many bids are received satisfying the minimum laid down criteria.
14. This work requires engaging more than 20 nos. of labours/workers and therefore all necessary licenses such as Labour license, EPFO and ESI, BOCW welfare registration etc., shall be taken by contractor within the time limits as prescribed under Clause 1 of Schedule-'F'.
15. The documents to be physically submitted shall be page numbered and each page shall be signed by authorized signatory.
16. Contractor shall not divert any advance payments or part thereof for any other purpose other than needed for completion of the contracted work. All advance payments received as per terms of the contract (i.e., mobilization, secured against materials brought at site,

secured against plant & machinery and/or for work done during interim stages, etc.) are required to be re-invested in the contracted work to ensure advance availability of resources in terms of materials, labour, plant & machinery needed for required pace of progress for timely completion of work.

17. All efforts will be made to make the running account bills payment within 45 days of submission of the bill in correct shape and form. However due to any reason if the running account bills payment could not be made, the contractor cannot claim any interest on the amount claimed in the running bills and hindrance on account of delay in payment.
18. The safety and security of the completed buildings is the responsibility of the contractor till they are handed over to the client department. After completion of the work, the taking over process may take time and the responsibility of the buildings including all fixtures and fittings is the complete responsibility of the contractor and nothing extra shall be payable on this account.
19. The contractor has to make his own arrangements for site for labour camp at his own cost.
20. In case of reduction in scope of work, no claim on account of reduction in value of work, loss of expected profit, consequential overheads etc. shall be entertained.
21. GST or any other tax applicable in respect of inputs procured by the contractor for this contract shall be payable by the contractor and CPWD will not entertain any claim whatsoever in respect of the same.
22. The bidder should have sufficient number of Technical and Administrative employees for the proper execution of the contract. The bidder shall have to submit a list of these employees stating clearly how these would be involved in this work within 15 days of award of work.
23. If any information furnished by the applicant is found to be incorrect at a later stage, he shall be liable to be debarred from tendering/taking up of works in CPWD. The department reserves the right to verify the particulars furnished by the applicant independently.
24. The bidder should not have been barred/black listed by the central/State Government, or any entity controlled by it, from participating in any tender, and the bar subsists as on the Bid Due Date, such bidder would not be eligible to submit the BID.
25. The tenderer (s) shall associate with himself, specialized agencies of the appropriate eligibility to components of specialized nature of items / work of major component listed below individually. Such works shall be got executed only through associated agencies specialized in these fields. If the tenderer (s) himself fulfills the eligibility criteria laid down for associated specialized agencies, and he wants to execute work himself then he will have to satisfy Engineer-in-Charge that he himself had carried out such specialized similar work of required magnitude during last 7 years directly without subletting and take written approval before commencing with the work. The tenderer(s) whose tender is accepted shall indicate the name(s) of his associated specialized agencies those fulfilling the eligibility criteria laid down below as early as possible and within one month of award of work for the approval of the Engineer-in-charge whose decision shall be final and binding.

26. List of documents to be scanned and uploaded within the period of bid submission: -

I	Insurance Surety Bond, Demand Draft/ Account Payee Banker's Cheque / FDR/ Bank Guarantee of any commercial Bank against EMD.
II	The copy of receipt of deposition of original EMD from Executive Engineer/ Assistant Engineer/ Assistant Accounts Officer of any Division office of CPWD in the prescribed proforma attached at Part 'A'-30.
III	GST registration Certificate of the state in which the work is to be taken up, if already obtained by the bidder. If the bidder has not obtained GST registration in the state in which the work is to be taken up, or as required by GST authorities, then in such a case the bidder shall scan and upload following undertaking along with other bid documents. "**If work is awarded to me, I/We shall obtain GST registration certificate of the state, in which work is to be taken up, within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by CPWD or GST department in this regard".**
IV	Valid Enlistment order of appropriate class and above.
V	Undertaking on structural stability and soundness as per prescribed format Form 'C'. Page **No 32.**
VI	Upload scan copy of ERP training certificate issued by the Competent Authority. Or submit an undertaking that"**If work is awarded to me, I/We undergone ERP training, within 45 days from the date of receipt of award letter or the date on which ERP training shall be conducted by department anywhere in PAN India failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by CPWD in this regard".**
VII	Any other document as specified in the NIT

EE & SM (C)-III, CPWD
Koraput Project Division
Koraput, Odisha

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

BRIEF PARTICULARS OF WORK

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

Sl. No.	Name of Work	Estimated Cost	Period of completion
1.	**Construction of Training Hall at TEC, Coffee Board, Koraput..**	**Rs47,39,019.00** **(Civil = 42,40,477.00 + Electrical= 4,98,542.00)**	**06(Six) Months**

2. The work site is located at **Coffee board at Koraput, District- Koraput(Odisha**).

TRAINING HALL

a) Foundation: Provision for Combined/isolated foundation for Building has been considered.

b) Superstructure:

1. Structure: R.C.C framed structure construction with filler walls with fly Ash bricks in cement mortar 1:6. 2. Internal partitions: fly Ash bricks in cement mortar 1:4.

A. DOORS & WINDOWS
(Training Hall.):
1. Frames: WPC solid door frame of size 65x125mm.
2. Door Shutters: Flush door with commercial ply.
3. Window shutters: uPVC framed windows with SS grill.
4. Fittings: Anodized aluminum/ C.P. Brass fittings.

B. FLOORING:
(Training Hall.):
1. In all rooms: double charged vitrified tile flooring.
2. All toilet blocks : Ceramic floor tile flooring
3. Granite flooring in stair case and window sills.

C. RAILING:
Stainless Steel Railing of 304 grade.
D. TOILETS:
Ceramic Glazed tiles, PVC / WPC doors with frames.
E. ROOFING:
Roof treatment: water proofing compound.
F. FINISHING:
1. External: acrylic exterior paint.
2. Internal: plastic emulsion paint with white cement based putty
3. Painting: Doors & windows grill- synthetic enamel paint of approved shade.

G. SANITARY & WATER SUPPLY:
1. SWR pipes of 100mm dia for sanitary lines
2. CPVC pipes for water supply

3. Fittings: C.P Brass fittings.
4. Ceramic W.C pans, basins etc.

H. DRAINAGE:

150mm Dia / 200mm Dias. W pipes with intermediate manholes and Septic tank

E& M PORTION: -

SH-I (WIRING):-

1. Providing Modular Type Group, C Wiring for Traininghall i/c Power wiring/AC wiring/sub main wiring with FRLS copper conductor insulated wires & necessary MS Conduit conduiting work.
2. Provision for Modular switch boards, power/light socket outlets, AC starters &Telephone socket outlets in Traininghall.

SH-II (FAN & FITTINGS) :-

1. SITC of energy efficient down lighter fittings Traininghall toilets and provision of LED bulk head fittings on outer area for illumination.
2. SITC of (1''x4'') energy efficient LED Panel light in Traininghall, energy efficient LED mirror light fittings in toilet area etc as required.

SH-III (DB & SWITCHGEARS): -

1. Provision for suitable size Horizontal DB's with associated MCB's & switchgears with power supply controls for Training hall.
2. Provision of necessary Earthing work & lighting arrestor work in training hall.

SH-IV (CABLING WORK): -

1. Provision for necessary cabling work for supply of training hall as required.

SH-V (FIRE EXTINGUISHERS):-

1. Supplying & fixing of ABC, CO2 & Clean Agent type fire extinguishers in electric panels area for fire safety reason.

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C.P.W.D – 7
GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE : Odisha **Zone :CE cum ED, Berhampur**
BRANCH : B & R **Division: EE&SM(C)-III, KPD.**

COMPOSITE PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

Percentage rate tender for the work of"**Construction of Training Hall at TEC, Coffee Board, Koraput..**

(i) To be uploaded online up to 15:00 hours on **11/11/2026** through website https://.etender.cpwd.gov.in or www.etender.cpwd.gov.in

(ii) The bid to be opened on **11/11/2026** online in presence of tenderer who may be present at 15:30 hours on **11/11/2026** in the office of Executive Engineer & SM(C)-III, Koraput Project Division, CPWD, Koraput.

TENDER

I/We have read and examined the Notice Inviting Tender, Schedule A, B, C, D, &E, Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, Clauses of Contract, Special Conditions, Schedule of Rate and 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 thee work specified for the President of India within the time specified in Schedule 'F', viz. Schedule of Quantities and in accordance in all respects with the Specifications / Special conditions, Designs, Drawings and instructions in writing as referred to in this tender document and with such materials as are provided for, by and in respects in accordance with, such conditions so far as applicable.

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

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

A copy of earnest money deposit receipt of prescribed amount deposited in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed) issued by a Commercial Bank, is scanned and uploaded (strike out as the case may be). If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/ We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

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 from the tendering in CPWD in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

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

Signature of Contractor: -……

Dated:
Witness: -
Address: -
Occupation: -

Postal Address: - ……..

Telephone No:-
Fax:-
Email:-

ACCEPTANCE

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

The letters referred to below shall form part of this contract agreement.
i)

ii)

iii)

Signature

Dated: -.....

Executive Engineer& SM(C)-III
CPWD, Koraput
For & on behalf of the President of India.

**To be filled in by the Executive Engineer

**To be filled in by the contract

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

PROFORMA OF SCHEDULES

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

The Proforma of Schedule is separate for each Civil & Electrical component. The schedules of quantities of different components are as pages mentioned below: -

PROFORMAOFSCHEDULES				
SCHEDULE 'A' Schedule of quantities (as per PWD-3):- **- Page 166-194**				
SCHEDULE 'D' Extra schedule for specific requirements/document for the work, if any				
		Page no.		
(a)	General Conditions/Special Conditions/ Additional Conditions/Additional Specifications /Minimum Quality Assurance Plan (For Civil)	87	to	111
(b)	List of preferred makes for(Civil Works)	120	To	131
(c)	General Conditions (For Electrical)	134	To	162
(d)	List of preferred makes for (Electrical Works)	156	To	162
SCHEDULE'E'				
Reference to General Conditions of contract		General Conditions of Contract 2023 for Construction work as amended/modified upto the previous day to last date of Submission of Bid.		
Name of work:		**Construction of Training Hall at TEC, Coffee Board, Koraput.**		
Estimated cost of work: TOTAL		**Rs.47,39,019/-**		
CIVILCOMPONENT		**Rs.42,40,477/-**		
ELECTRICALCOMPONENT		**Rs.4,98,542/-**		
(i)	Earnest Money :	Rs.94,780/-		
(ii)	Performance Guarantee	5% of Tendered value		
(iii)	Security Deposit	2.5% of Tendered Value		

SCHEDULE`F':GENERALRULES&DIRECTIONS:-	

Officer Inviting Tender :		EE & SM (C)-III, CPWD, Project Division, CPWD, Koraput	
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.		As per Clause 12 mentioned below	
	Definitions:		
2(v)	Engineer-in-charge	i)	EE & SM (C)-III, CPWD, Koraput Project Division, CPWD, Koraput (For Major Component i.e. Civil Work) or success thereof.
		ii)	EE & SM (E), CPWD, IISER Project Electrical Division, CPWD, Berhampur (For Minor Component i.e. Electrical Work) or success thereof.
2(viii)	Accepting Authority	CE cum ED, Berhampur Project Zone or success thereof.	
2(x)	Percentage on the cost of material and labour to cover all over heads and Profits.	15%	
2 (xi)	Standard Schedule of Rates	DSR2023withcorrectionslipsuptol astdateof submission of tender, and Market Rate for Non-scheduled Items.	
2(xii)	Department	CPWD	
9(ii)	Standard CPWD contract Form GCC2023, CPWD Form 7/ 8 as modified&correctedupto	Central Public Works Department GCC 2023 (Construction Works), CPWD Form 7, as amended/modified up to the previous day of the last date of submission of bid..	
Clause1:-			
(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.		**7days** Performance guarantee shall remain valid for a minimum period of 60 days beyond date of completion.	

(ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above.	**3days**
Clause2:	
Authority for fixing compensation under Clause 2.	CE cum ED, CPWD, Berhampur Project Zone or success thereof.
Clause 3:	Applicable
Clause 4:	Applicable

Clause5:	Applicable
Number of days from the date of issue of letter of acceptance for reckoning date of start of milestone(s) as per table given below: -	**7days**
Clause 5.1: Recovery for delay in submission of monthly progress report	Rs. 2500/- per week subjected to maximum Rs. 50000/-
Clause 5.2: Recording hindrance	Hinderance Register
Clause 5.2: Schedule rate of recovery for delay in submission of modified program	Rs. 2500/- per week subjected to maximum Rs. 50000/-
Time allowed for execution of work	**06 (Six) Months**
Authority to decide:	
(i) Extension of time	EE & SM(C)-III, CPWD, Koraput Project Division or success thereof.
(ii) Rescheduling of milestones	EE & SM(C)-III, CPWD, Koraput Project Division or success thereof.
(iii)Shifting of date of start incase of delay in handing over of site	EE & SM(C)-III, CPWD, Berhampur Project Division or success thereof.
Clause6 Applicable clause	CMB / EMB
Clause 7: Gross work to be done together with net payment/adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment.	For CivilworkRs.6.5 Lakh. For Electrical Work Rs.1.0 Lakh.
Clause7A: Whether Clause 7A shall be applicable.	**Yes.** No running account bill shall be paid for the work till the applicable labour

	licenses, registration with EPFO, ESIC & BOCW welfare board,etc. are submitted by the contractor to the Engineer-in-charge.
Clause 7B: **Payment to third Party**	**Yes,** (as per GCC Construction work -2023.)
Clause10 A: List of testing equipment to be provided by the contractor at site lab.	Refer to (Page 112) Part-B
Clause-10 B (i) **(Secured Advance)**	Applicable
Clause10B(ii) **(Mobilization Advance)**	Applicable
Clause 10 B (iii) **(interest & Recovery)**	Applicable
Clause10 C:-	Not Applicable
Clause 10 CA:-	Not Applicable

Clause11: **<u>Specifications to be followed for execution of work</u>**	**Civil work:-** CPWD Specifications 2019 (Volume-I & II) with corrections slips upto last date of submission of bid. **Electrical works:** 1. Part-I Internal 2023
Note: - 1. The above specifications of CPWD shall be applicable along with correction slips up to the last date of submission of bid and amendments thereof. 2. Wherever the CPWD specifications are not given, the works shall be executed as per the additional specifications & terms & Conditions mentioned in the NIT. 3. The direction of the Engineer-in-charge shall be followed in the absence of the above two.	
Clause12: Type of work	Construction Work
12.2 & 12.3 Deviation Limit beyond whichclauses12.2&12.3 shallapply	100% (Hundred percent)
12.4 i)Deviation limit beyond which clauses 12.2& 12.3 shall apply for foundation work (except items mentioned in earthwork subhead in DSR and related items) ii) Deviation limit for items mentioned in earthwork subhead of DSR and related items	100% (Hundred percent) 100% (Hundred percent)
Clause 14:- Carrying out part work at risk & cost of contractor	Applicable

Clause 15:- Suspension of work	Applicable

Clause16:-	
Competent Authority for deciding reducedrates	CE cum ED, CPWD, Berhampur Project Zone or success thereof.
Clause-17: Contractor liable for damages, defects during defect liability period	**Yes (12 Months)**
Clause18:-	
List of mandatory machinery, tools & plants to be deployed by the contractor at the site:-	T&P and machinery required as per Part -B (Page-113) and as directed by the Engineer-in-charge.

Clause19C	
Authority to decide the penalty for each default	EE & SM (C)-III, CPWD, Koraput Project Division, CPWD, Koraput
Clause19D	
Authority to decide the penalty for each default	EE & SM (C)-III, CPWD, Koraput Project Division, CPWD, Koraput
Clause19G	
Authority to decide the penalty for each default	EE & SM (C)-III, CPWD, Koraput Project Division, CPWD, Koraput
Clause19K	Rs 200/- per person per day
Clause 20	Applicable
Clause-21	Applicable
Clause-24	Applicable

Clause 25

Conciliator	Special Director General (Project Region Kolkata) CPWD, Kolkata
Arbitrator Appointing Authority	CE cum ED, CPWD, Berhampur Project Zone or success thereof.
Place of Arbitration	Berhampur / Bhubaneswar
Clause-30	Applicable
Clause-31	Applicable

Note: The above constitution of Dispute Redressal Committee is subject to change, for which necessary notification shall be issued by the competent authority of the department, if required.

Clause32: Requirement of Technical Representative(s) & recovery rate: -

For Major & Minor Components:

S. No.	Requirement of Technical Staff		Minimum experience (Years)	Designation of technical staff	Rate at which recovery shall be made from the contractor in
	Qualification	Number(of Major +			

		Minor Component)			**the event of not fulfilling provision of clause 32(i)**
1	Graduate Engineer Or Diploma Engineer	1 of Major Component	2 or 5 respectively	Project planning/quality /billing Engineer	Rs. 15,000/- per month per person.

Note:-

1. Assistant Engineers retired from Government services and holding Diploma shall be treated at par with Graduate Engineers..
2. Diploma holders with a minimum of 10 years' relevant experience with a reputed construction company can be treated at par with Graduate Engineers for the purpose of such deployment, subject to the condition that such diploma holders shall not exceed 50% of the requirement of degree engineers..
3. The contractor shall submit a certificate of such employment of the technical representative(s) (in the form of copy of Form-16 or CPF deduction issued to the Engineers employed by him) along with every account bill/final bill and shall produce evidence if at any times so required by the Engineer-in-charge.

Clause-38:	
i) Schedule/ Statement for determining theoretical quantity of cement & bitumen	As per Delhi Schedule of Rates 2023 with amendments up-to the last date of submission of bids.
ii) Variations permissible on theoretical quantities.	
a) Cement for works with estimated cost put to tender for more than Rs.5 Lacs.	2% plus / minus
b) Steel Reinforcement and structural steel sections for each diameter, section and category.	2% plus / minus
c) All other materials.	Nil.
d) Bitumen for all work.	2.5% Plus side only and NIL on minus side.

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

Sl. No.	Description of Item	Rates in figures and words at which recovery shall be made from the contractor	
		Excess beyond permissible variation	Less use beyond the permissible variation
1.	Cement Steel reinforcement	Nil	**Not permitted**

2.	(a) Primary Manufacturer (b) Secondary manufacturer	Nil Nil	Not permitted Not permitted

TABLE OF MILESTONE (S)

Name of work:- Construction of Training Hall at TEC, Coffee Board, Koraput...

Time Allowed:- 06 (Six) Months

Sl No.	Description of mile stone	Period for completion from date of start in days/ months	Withheld amount for non-achievement of mile stone.
1.	Completion of Foundation, column & plinth beam and all other substructure works.	**1 months**	**1%**
2.	Completion of super structure work & conduiting work, GI box, fixation work.	**3 months**	**2%**
3.	Completion of finishing work and installation. Testing & commissioning of switch-sockets, fans & fittings.	**5 months**	**1%**
4.	All civil & electrical works completed in all respect including services, cleaning of site and handed over to the client department.	**6 months**	**1%**

Form -A
(On Non- Judicial stamp paper of minimum Rs. 100)
(Guarantee offered by Bank to CPWD in connection with the execution of contracts)

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

1. Whereas the Executive Engineer EE& SM (C)-II, CPWD, Berhampur on behalf of the President of India (hereinafter called "The Government") has invited bids under..... (NIT number)..... dated ..... for (name of work)..... The Government has further agreed to accept irrevocable Bank Guarantee for Rs..... (Rupees ..... only) in favour of **Executive Engineer cum SM (C)-II, Berhampur Project Division, CPWD, Berhampur** 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 EE& SM (C)-II, CPWD, Berhampur on behalf of the President of India (hereinafter called "The Government") has entered into an agreement bearing number ..... with .....(name and address of the contractor) ..... (Hereinafter called "the Contractor") for execution of work..... (Name of work)..... The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. ....(Rupees ..... only) in favour of Executive Engineer BCD-III, CPWD, Nayapalli, Bhubaneswar valid upto ..... (Date)..... As **Performance Guarantee/Security Deposit/Mobilization Advance** from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.

2. We, ... (indicate the name of the bank) (herein after referred to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs. ..... (Rupees……only) on demand by the Government within 10 days of the demand.
3. We, ...(indicate the name of the Bank) ....., do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said Contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs..... (Rupees……only)
4. We..... (indicate the name of the Bank) ....., further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any Court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the Contractor shall have no claim against us for making such payment.
5. We..... (indicate the name of the Bank) ....., further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor from time to time or to

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

6. We, ... (indicate the name of the Bank) ....., further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.
7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.
8. We, ... (indicate the name of the Bank) .....,. undertake not to revoke this guarantee except with the consent of the Government in writing.
9. This Bank Guarantee shall be valid up to ..... unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs..... (Rupees ..... only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date:
Witnesses: Authorizes Signatory

1. Signature……. Name

   Name & Address Designation
   Staff Code No
   Bank Seal

2. Signature…….
   Name & 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.

(FORM – A)

RECEIPT OF DEPOSITION OF ORIGINAL EMD

Name of Work: - **Construction of Training Hall at TEC, Coffee Board, Koraput.".**

NIT No: ***05/NIT/EE&SM-III/KPD/CPWD/2026-27***

1. *Estimated Cost:* ***Rs.47,39,019/- (Civil + Elect.)***

2. *Amount of Earnest Money Deposit:* ***Rs.94,780/-***

**Last date & Time of submission of Bid: 11/11/2026 up to 15:00*

Recept No……. Date:……..

Name of Contractor: ……..#….....

1. *Form of EMD …….#….....*
2. *Amount of Earnest Money Deposit ……..#…….....*
3. *Date of submission of EMD ……#……..……*

…….……
……

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

** To be filled by EE inviting tender.*
 # To be filled by EMD receiving EE/AE.

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

(FORM – 'B')

UNDERTAKING REGARDING GST REGISTRATION IN THE STATE OF ODISHA

To,

The Executive Engineer& SM (C)-III,
CPWD, KPD,
Koraput (Odisha)

Name of Work :-"Construction of Training Hall at TEC, Coffee Board, Koraput.".

Sir,

Having examined the details given in the bid document for the above work, I/we hereby submit that we are not having GST registration in the state of Odisha. Hence, we here by under take the following:

"If work is awarded to me/us, I/we shall obtain GST Registration certificate in the state of Odisha within one month from date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payment which will be due towards me/us on account of work executed and/or for any action taken by CPWD or GST department in this regard."

Signature of Bidder(s) or an authorized
Officer of the firm with stamp
Date of Submission

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

(FORM – 'C')

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

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

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

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

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

Signature of notary
with seal

Signature of Bidder(s) or an authorized
Officer of the firm with stamp
Date of Submission

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

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

No. DG/CON/Construction 2023/04

ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Nirman Bhawan, New Delhi Dated: 08.12.2023

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

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

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

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Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

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Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

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Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

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Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

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

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Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

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Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

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Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

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

This is issued with the approval of DG CPWD.

08.12.2023

(वी. पी.साहू)

अधीक्षण अभियंता (सी.एंड एम.)

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

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

08/12/2023

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Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

(1/2)

Central Public Works Department
Office Memorandum
No. DG/CON/Construction-2023/02
ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD
Nirman Bhawan, New Delhi **Dated: 14.11.2023**

Subject: Amendments in Clause 32, Schedule F of Clause 11 and 32 of GCC 2023 Construction Works.

The following amendments in Clause 32, Schedule F of Clause 11 and 32 are made in the GCC 2023 for Construction Works.

Existing Provision	Modified Provision
Clause 32 Employment of Technical Staff and employees	**Clause 32 Employment of Technical Staff and employees**
Contractors Superintendence, Supervision, Technical Staff & Employees	Contractors Superintendence, Supervision, Technical Staff & Employees
Sl. No. (i) and (iii)	No change
(iv) No Provision	**(iv) Building Information Model (BIM) professional shall be deployed by the contractor for the projects wherever required as mentioned in Schedule F.** **The BIM professional shall be available for the work as and when required by Engineer-in-Charge.** **The BIM professional will study 3D architectural models, architectural drawings generated from 3D models, service drawings and structural drawings.** **The BIM professional will interact with architects, planning & site engineers to get the clashes removed.** **The recovery shall be made from bill of contractor in case of non-deployment of BIM Professionals/technical staff as mentioned in Schedule 'F' of NIT without giving any notice in writing.** **The decision of Engineer-in-Charge in this respect is final and binding on the contractor.**

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Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

SCHEDULE 'F' **Clause 11** Specifications to be followed for execution of work ..... **No provision**	**SCHEDULE 'F'** **Clause 11** Specifications to be followed for execution of work ..... i. **Building information model (BIM) is applicable and BIM professional to be deployed by contractor ..... (NIT approving authority to write Yes or No)**
SCHEDULE 'F' **Clause 32 Requirement of Technical Representative(s) and recovery Rate** Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers. Diploma holder with minimum 10 year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers. **No Provision**	**SCHEDULE 'F'** **Clause 32 Requirement of Technical Representative(s) and recovery Rate** **No Change**. **No Change**. **Minimum recovery for not deploying Building Information Model (BIM) professional shall be Rs. two lac per month or as mentioned above, whichever is higher.**

This issues with the approval of DG CPWD.

14.11.2023
(V.P. Sahu)
Superintending Engineer (C&M)

Issued from file No. CSQ/CM/17 (1)/2023/Construction e-file 9162768

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

14/11/2023
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Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

Nirman Bhawan, New Delhi Dated 06.12.2023

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

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

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

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Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

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Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

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Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

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Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

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(EE (Contact)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

06/11/2023
R.K. JAIN
(EE (Contact)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

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

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

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

06.12.2023

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

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

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

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

No. DG/CON/Maintenance 2023/04

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI **Dated: 08.02.2024**

Subject: Modifications in Conditions of Contract and Clause 19 of GCC 2023 for Maintenance Works

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

Existing provision	Modified provision
CONDITIONS OF CONTRACT **Definitions** 2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:-	**CONDITIONS OF CONTRACT** **Definitions** 2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:-
(i) to (xix)	**(i) to (xix) No change**
(xx) No provision	**(xx) Adolescent Person: A person who has completed his/her fourteenth year of age but has not completed his eighteenth year.**
(xxi) No provision	**(xxi) Hazardous works: Hazardous process/works are the works as defined in the clause (cb) of the Factory Act, 1948.**
Clause 19 Labour Laws to be complied by the Contractor	**Clause 19 Labour Laws to be complied by the Contractor**
The contractor shall comply with the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971.	**No change**
The contractor shall also obtain a valid licence under the said Act before the commencement of the work, and continue to have a valid licence until its completion.	**No change**
The contractor shall also comply with provisions of the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979.	**No change**

The contractor shall also abide by the provisions of the Child and Adolescent Labour (Prohibition and Regulation) Act, 1986. The contractor shall also comply with the provisions of the building and other Construction Workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996. Any failure to fulfil these requirements shall attract the penal provisions of this contract arising out of the resultant non-execution of the work.	The contractor shall also abide by the provisions of the Child and Adolescent Labour (Prohibition and Regulation) Act, 1986, **amended by Amendment Act No. 35 of 2016 and thereafter time to time.** **No change** **No change**
Clause 19A No labour below the age of eighteen years shall be employed on the work.	Clause 19A No **person** below the age of **fourteen** years shall be employed on the work. **However Adolescent Persons can be employed on non-hazardous works/process.**
C.P.W.D. Contractor's Labour Regulations **2. DEFINITIONS** i. (c) Who is an out worker, that is to say, person to whom any article or materials are ..... premises under the control and management of the principal employer. No person below the age of 18 years shall be employed to act as a workman.	**C.P.W.D. Contractor's Labour Regulations** **2. DEFINITIONS** i. (c) No change. No person below the age of **fourteen** years shall be employed **on the work. However Adolescent Persons can be employed on non-hazardous works/process.**

This issues with the approval of DG CPWD.

08.02.2024
(वी. पी.साहू)
अधीक्षण अभियंता(सी.एंड एम.)

Issued from file No. CSQ/CM/17(1)/2024/Maintenance e-file 9169019

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

Deletion – Nil AE(P) AE(C) EE(C)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

The contractor shall also abide by the provisions of the Child and Adolescent Labour (Prohibition and Regulation) Act, 1986. The contractor shall also comply with the provisions of the building and other Construction Workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996. Any failure to fulfil these requirements shall attract the penal provisions of this contract arising out of the resultant non-execution of the work.	The contractor shall also abide by the provisions of the Child and Adolescent Labour (Prohibition and Regulation) Act, 1986, **amended by Amendment Act No. 35 of 2016 and thereafter time to time.** **No change** **No change**
Clause 19A No labour below the age of eighteen years shall be employed on the work.	Clause 19A No **person** below the age of **fourteen** years shall be employed on the work. **However Adolescent Persons can be employed on non-hazardous works/process.**
C.P.W.D. Contractor's Labour Regulations **2. DEFINITIONS** i. (c) Who is an out worker, that is to say, person to whom any article or materials are ..... premises under the control and management of the principal employer. No person below the age of 18 years shall be employed to act as a workman.	**C.P.W.D. Contractor's Labour Regulations** **2. DEFINITIONS** i. (c) No change. No person below the age of **fourteen** years shall be employed **on the work. However Adolescent Persons can be employed on non-hazardous works/process.**

This issues with the approval of DG CPWD.

08.02.2024
(वी. पी.साहू)
अधीक्षण अभियंता(सी.एंड एम.)

Issued from file No. CSQ/CM/17(1)/2024/Maintenance e-file 9169019

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

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

No. DG/CON/Construction 2023/05

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI **Dated: 08.02.2024**

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

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

Existing provision	Modified provision
CONDITIONS OF CONTRACT **Definitions** 2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:-	**CONDITIONS OF CONTRACT** **Definitions** 2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:-
(i) to (xviii)	**(i) to (xviii) No change**
(xix) No provision	**(xix) Adolescent Person: A person who has completed his/her fourteenth year of age but has not completed his eighteenth year.**
(xx) No provision	**(xx) Hazardous works: Hazardous process/works are the works as defined in the clause (cb) of the Factory Act, 1948.**
Clause 19 Labour Laws to be complied by the Contractor The contractor shall comply with the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971. The contractor shall also obtain a valid licence under the said Act before the commencement of the work, and continue to have a valid licence until its completion. The contractor shall also comply with provisions of the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979.	**Clause 19 Labour Laws to be complied by the Contractor** **No change** **No change** **No change**

Deletion AE(P) AE(C) EE(C)

The contractor shall also abide by the provisions of the Child and Adolescent Labour (Prohibition and Regulation) Act, 1986. The contractor shall also comply with the provisions of the building and other Construction Workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996. Any failure to fulfil these requirements shall attract the penal provisions of this contract arising out of the resultant non-execution of the work.	The contractor shall also abide by the provisions of the Child and Adolescent Labour (Prohibition and Regulation) Act, 1986, **amended by Amendment Act No. 35 of 2016 and thereafter time to time.** **No change** **No change**
Clause 19A No labour below the age of eighteen years shall be employed on the work.	Clause 19A No **person** below the age of **fourteen** years shall be employed on the work. **However Adolescent Persons can be employed on non-hazardous works/process.**
C.P.W.D. Contractor's Labour Regulations **2. DEFINITIONS** i. (c) Who is an out worker, that is to say, person to whom any article or materials are ..... premises under the control and management of the principal employer. No person below the age of 18 years shall be employed to act as a workman.	**C.P.W.D. Contractor's Labour Regulations** **2. DEFINITIONS** i. (c) No change. No person below the age of **fourteen** years shall be employed **on the work. However Adolescent Persons can be employed on non-hazardous works/process.**

This issues with the approval of DG CPWD.

08.02.2024

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

Issued from file No. CSQ/CM/17(1)/2023/Construction e-file 9169019

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

Deletion – Nil AE(P) AE(C) EE(C)

	Thus higher of the wages either notified by Govt. of India, Ministry of Labour and/or that notified by the local administration of the State Govt. both relevant to the place of work and the period of reckoning shall be paid by the contractor to the labourer .
(v) The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, or the modifications thereof or any other laws relating thereto and the rules made there under from time to time.	**(v)** The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, **Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 – sec. 3 (ii) and** ~~**or**~~ the modifications thereof or any other laws relating thereto and the rules made there under from time to time.
Clause 20 Minimum Wages Act to be Complied With The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, amended from time to time and rules framed there under and other labour laws affecting contract labour that may be brought into force from time to time.	**Clause 20 Minimum Wages Act to be Complied With** The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, **Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 – sec. 3 (ii)** amended from time to time and rules framed there under and other labour laws affecting contract labour that may be brought into force from time to time.

This issues with the approval of DG CPWD.

Sahu
01.03.2024
(V.P. Sahu)
Superintending Engineer (C&M)

Issued from file No. CSQ/CM/17(1)/2023 e-file no. 9163323
To all the concerned officers of CPWD/PWD for information and necessary action please. (Through CPWD Website)

29/2/2024
R.K. JAIN
(EE (Contact)

Deletion – Nil AE(P) AE(C) EE(C)

Central Public Works Department
Office Memorandum
No. DG/CON/Maintenance 2023/05

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD 01.03.2024

NIRMAN BHAWAN, NEW DELHI Dated: ~~20.02.2024~~

Subject: Modifications in Conditions of Contract, Clause 19 and 20 of GCC 2023 for Maintenance Works

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

Existing provision	Modified provision
CONDITIONS OF CONTRACT **Definitions** 9. **Signing of Contract:-** The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of:- (i) to (iii) No Provision	**CONDITIONS OF CONTRACT** **Definitions** 9. **Signing of Contract:-** The successful tenderer, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of:- (i) to (iii) No change **In the event of successful tenderer being a firm/company, then the agreement shall be signed by all the partners or directors thereof individually. In the event of the absence of any partner/director, it shall be signed on his behalf by a person holding a power of attorney (duly notarized by notary public or board resolution in case of company) authorizing him to do so.**
Clause 19 B Payment of Wages (i) The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in the C.P.W.D. Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable.	**Clause 19 B Payment of Wages** **(i)** The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in the C.P.W.D. Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971 **and Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 – sec. 3 (ii) amended time to time.**

R.K. JAIN
(EE (Contact)

Deletion – Nil AE(P) AE(C) EE(C)

	Thus higher of the wages either notified by Govt. of India, Ministry of Labour and/or that notified by the local administration of the State Govt. both relevant to the place of work and the period of reckoning shall be paid by the contractor to the labourer .
(v) The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, or the modifications thereof or any other laws relating thereto and the rules made there under from time to time.	**(v)** The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, **Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 – sec. 3 (ii) and** the modifications thereof or any other laws relating thereto and the rules made there under from time to time.
Clause 20 Minimum Wages Act to be Complied With The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, amended from time to time and rules framed there under and other labour laws affecting contract labour that may be brought into force from time to time.	**Clause 20 Minimum Wages Act to be Complied With** The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, **Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 – sec. 3 (ii)** amended from time to time and rules framed there under and other labour laws affecting contract labour that may be brought into force from time to time.

This issues with the approval of DG CPWD.

01.03.2024
(V.P. Sahu)
Superintending Engineer (C&M)

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

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

29/02/2024
R.K. JAIN
(EE (Contact)

Deletion – Nil AE(T) AE(C) EE(C)

Central Public Works Department
Office Memorandum
No. DG/CON/Construction 2023/06

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD 01.03.2024

NIRMAN BHAWAN, NEW DELHI Dated: ~~20.02.2024~~

Subject: Modifications in Conditions of Contract, Clause 19 and 20 of GCC 2023 for Construction Works

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

Existing provision	Modified provision
CONDITIONS OF CONTRACT **Definitions** 9. **Signing of Contract:-** The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of:- (i) to (iii) No Provision	**CONDITIONS OF CONTRACT** **Definitions** 9. **Signing of Contract:-** The successful tenderer, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of:- (i) to (iii) No change **In the event of successful tenderer being a firm/company, then the agreement shall be signed by all the partners or directors thereof individually. In the event of the absence of any partner/director, it shall be signed on his behalf by a person holding a power of attorney (duly notarized by notary public or board resolution in case of company) authorizing him to do so.**
Clause 19 B Payment of Wages (i) The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in the C.P.W.D. Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable.	**Clause 19 B Payment of Wages** **(i)** The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in the C.P.W.D. Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971 **and Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 – sec. 3 (ii) amended time to time.**

29/04/2024
R.K. JAIN
(EE (Contact

Deletion AE AE(P) AE(C) EE(C)

	Thus higher of the wages either notified by Govt. of India, Ministry of Labour and/or that notified by the local administration of the State Govt. both relevant to the place of work and the period of reckoning shall be paid by the contractor to the labourer .
(v) The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, or the modifications thereof or any other laws relating thereto and the rules made there under from time to time.	**(v)** The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, **Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 – sec. 3 (ii) and** ~~**or**~~ the modifications thereof or any other laws relating thereto and the rules made there under from time to time.
Clause 20 Minimum Wages Act to be Complied With The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, amended from time to time and rules framed there under and other labour laws affecting contract labour that may be brought into force from time to time.	**Clause 20 Minimum Wages Act to be Complied With** The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, **Gazette Notification 19.01.2017, S.O 188 (E) extra ordinary part 2 – sec. 3 (ii)** amended from time to time and rules framed there under and other labour laws affecting contract labour that may be brought into force from time to time.

This issues with the approval of DG CPWD.

01.03.2024
(V.P. Sahu)
Superintending Engineer (C&M)

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

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

R.K. JAIN 1/2024

Deletion	Nil	AE(T)	AE(C)	EE(C)

Central Public Works Department
Office Memorandum
No. DG/CON/Construction 2023/07
ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI Dated: 01.03.2024

Subject: Modifications in Clause 7 of GCC 2023 for Construction Works

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

Existing provision	Modified provision
Clause 7 Payment on intermediate certificate to be regarded as Advances No payment shall be made for work, estimated to cost Rs. twenty lacs or less till after the whole of the work shall have been completed and certificate of completion given. ..... fixed for the same by the Engineer-in-Charge.	**Clause 7 Payment on intermediate certificate to be regarded as Advances** No change.
The contractor shall not be entitled to be paid any such interim payment if the gross work done together with net payment/ adjustment of advances for material collected, if any, since the last such payment is less than the amount specified in Schedule 'F', in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved.	The contractor shall not be paid any such interim payment if the gross work done together with net payment/ adjustment of advances for material collected, if any, since the last such payment is less than the amount specified in Schedule 'F', in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved.
No provision	**However, to expedite the progress of work, Engineer-in-Charge, on the request of contractor, may make interim payment(s) even before the net payment limit specified in schedule 'F' is achieved. In such case(s) no interest / compensation shall be recoverable from contractor.** **Such payment by Engineer-in-Charge shall not be construed as waiver of limit specified in schedule 'F' for subsequent interim payment(s).**

01/03/2024
R.K. JAIN
(EE (Contact)

Deletion – Nil AE(P) AE(C) EE(C)

Engineer-in-Charge shall arrange to have the bill verified by taking or causing to be taken, ... prescribed time limit.	**No Change**

This issues with the approval of DG CPWD.

01.03.2024
(V.P. Sahu)
Superintending Engineer (C&M)

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

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

01/03/2024
R.K. JAIN
(EE (Contact)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

1/2

Central Public Works Department

Office Memorandum

No. DG/CON/Construction 2023/09

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI **Dated: 01.04.2024**

Subject: Modifications in Clause 1, 8 and 41 of GCC 2023 for Construction Works

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

Existing provision	Modified provision
Clause 1 Performance Guarantee Sl. No. (i) to (iv)	**Clause 1 Performance Guarantee** Sl. No. (i) to (iv) **No Change**
(v) On substantial Completion of any work which has been completed to such an extent that the intended purpose of the work is met and ready to use, then a provisional Completion certificate shall be recorded by the Engineer-in-Charge. The provisional certificate shall have appended with a list of outstanding balance item of work that need to be completed in accordance with the provisions of the contract.	(v) **As per requirement of the client or otherwise specified in the contract, part completion certificate may be issued for the building(s)/ infrastructure project for the part(s) which have been completed in all respect and are ready for use. However, statutory approvals, Completion drawing of various services, wherever required, shall be obtained before handing over of building(s)/ part(s) of the project. Scope of the completed part(s) shall be mentioned in such part completion certificate.**
This provisional completion certificate shall be recorded by the concerned Engineer- incharge with the approval of Superintending Engineer /Project Manager / Chief Engineer/ Chief Project Manager, if required. After recording of the provisional Completion Certificate for the work by the competent authority, the 80 % of performance guarantee shall be returned to the contractor, without any interest.	The **part completion** certificate shall **include** outstanding balance work that need to be completed in accordance with the provisions of the contract. This **part** completion certificate shall be recorded by the **authority as per contract value of work.** After recording of the **part** Completion Certificate for the work by the competent authority, the **proportionate amount of** 80% of performance guarantee shall be returned to the contractor, without any interest.
However in case of contracts involving Maintenance of building and services /any other work after construction of same building and services/ other work, then 40% of performance guarantee shall be returned to the contractor, without any interest after recording the provisional Completion certificate.	However in case of contracts involving Maintenance of building and services /any other work after construction of same building and services/ other work, then **proportionate amount of** 40% of performance guarantee shall be returned to the contractor, without any interest after recording the **part** Completion certificate.

01/04/2024
R.K. JAIN 01/04/2024
EE (Contract)

(42)

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.	**Clause 8 Completion Certificate** Within ten days of the completion of the work **or on part completion of one or more building(s) out of independent building in a project or infrastructure project, as per requirement of client or otherwise specified in schedule F,** 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 shall furnish the contractor with a **part or** final **completion** certificate **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.
But no final certificate ..... sum actually realized by the sale thereof.	No change.
Clause 41 **Release of Security deposit after labour clearance** The Security Deposit ..... security deposit and refund the balance amount.	**Clause 41** **Release of Security deposit after labour clearance** No change.
No Provision	**In case, if part completion certificate of work is recorded then security deposit shall be released only after recording final completion certificate of the work and after completion of defect liability period whichever is later or specified otherwise in the contract.**

This issues with the approval of DG CPWD.

Sahu
01.04.2024
(V.P. Sahu)
Superintending Engineer (C&M)

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

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

01/04/24
R.K. JAIN
EE (Contract)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

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

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

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

This issues with the approval of DG, CPWD.

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

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

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

R.K. JAIN
EE (Contract)

Central Public Works Department
Office Memorandum
No. DG/CON/Construction 2023/11
ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD
NIRMAN BHAWAN, NEW DELHI **Dated:** 03-06-2024

Subject: Additions in 'General Rules and Directions' of GCC 2023 for Construction Works

The following additions are made in GCC 2023 for Construction Works under 'General Rules and Directions':

Existing provision	Modified provision
General Rules and Directions Sl. No. 1 to 16	**General Rules and Directions** No Change
No Provision	**17. <u>Price Preference to SC/ST individual contractor for item rate/percentage rate tender</u>:** **Price preference in quoted item rate/percentage rate tender shall be applicable to the individual enlisted/non-enlisted SC/ST contractor as under:-** **i. For work(s) upto and equal to an estimated cost of Rs.2.70 lakh a price preference upto 5% (with reference to the lowest valid tender) may be allowed in favor of individual SC/ST enlisted/non-enlisted contractor. No earnest money is required in such case(s).** **ii. For work(s) beyond an estimated cost of Rs. 2.70 lakh and upto and equal to estimated cost of Rs. 6.20 lakh, the price preference upto 5% (with reference to the lowest valid tender) may be allowed in favour of individual enlisted SC/ST contractor. However, earnest money at a reduced rate of ½% may be accepted in such cases.** **iii. The price preference upto 5% (with reference to the lowest valid price bid) may be allowed in favour of individual SC/ST contractor. The above concession shall be allowed only after proper verification of the individual contractor's claim of belonging to SC/ST community.**
Schedule F **No Provision**	**Schedule F** **Price Preference to SC/ST individual contractor is valid upto ..... (date)**

This issues with the approval of DG CPWD.

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

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

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

03/06/2024
R.K. JAIN
EE (Contract)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

भारत सरकार
केंद्रीय लोक निर्माण विभाग
तकनीकी अनुप्रयोग एवं मानक एकाई
कमरा सं0 418 ए–विंग, निर्माण भवन, नई दिल्ली।
टैलीफैक्स–011–23062339 ईमेल–delsetascsq.cpwd@nic.in

Issued by e file No. :9158977

Office Memorandum

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

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

A. **Analysis of Rate of items**

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

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

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

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

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

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

This issues with the approval of DG, CPWD.

08/8/24

(Dinesh Kumar Ujjainia)
Superintending Engineer (TAS)

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

Date: 08/08/2024

To (Through CPWD Website)

All officers of CPWD and PWD Delhi

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

Illustration-1

S. No.	Description of item	Existing Analysis of rate	Modified Analysis of rate	
1	2	3	4	
1	Bare rate (without GST) of Material, Labour, Sundries POL and T&P etc.	100.0000	100.0000	
2	Add 1% water charges	1.0000	1.0000	
3	Sum after adding water charges @ 1%	101.0000	101.0000	"A"
4	Add 18% GST applicable on work contract, by reversible method (multiplying factor 0.2127) on "A"	21.482	----	
5	Sum (after adding GST in Step 4)	122.482	----	"X"
6	Add 15% CP & OH on "X"	18.372	15.150	
7	Sum after adding 15% CP&OH	140.855	116.150	"Y"
8	Add labour cess @ 1% on "Y"	1.408	1.161	
9	Sum after adding 1% labour cess	142.263	117.311	"Z"
10	Add GST @ 18% on "Z"	----	21.116	
11	Gross Total	142.263	138.427	
		138.427/142.263 = 0.973		
	Hence, correction factor on existing items of the DSR-2023	0.973		

18.1.24
SE (TA-3) 31.8.24

(1)

contd - page (2)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/CON/Mainteance-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.	**No Change**
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.	**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.
No Provision	**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**

29.10.24
R K SINGH
EE(Manual)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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.

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)

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

29.10.24
R K SINGH
EE(Manual)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/CON/Construction 2023/14
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 Construction Works.

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

Existing provision	Modified provision
Applicable for Item Rate Tender only (CPWD - 8) 4 The rates ..... rupee one.	**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 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.	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.
If the revised ..... their tenders. In case of any ..... be forfeited. In case all ..... lowest contractors. Contractor ..... of the work.	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 percentage above/ below on estimated cost of tender including all sub sections/sub	**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 **revised price bid online quoting** percentage above/ below on estimated cost of tender including all sub sections/sub heads as the case may

03.01.25
R K SINGH
EE(Manual)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

This issues with the approval of DG, CPWD.

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

Issued from file No. CSQ/CM/17(1)/ Construction/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)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/CON/Construction 2023/16
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 Construction Works.

The following amendments are made in the Clauses 7, 8, 9 and Schedule F of clause 8 of GCC 2023 for Construction 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 (Issued vide OM No. DG/Construction-2023/09 dated 01.04.2024) Within ten days of the completion of the work or on part completion of one or more building(s) out of independent building in a project or infrastructure project, as per requirement of client or otherwise specified in schedule F, 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 shall furnish the contractor with a part or final completion certificate 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.	**Clause 8 Completion Certificate** Within ten days of the completion of the work or on part completion of one or more building(s) out of independent building in a project or infrastructure project, as per requirement of client or otherwise specified in schedule F, 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 part /full work, then intimate to the concerned authorities as mentioned in Schedule F for inspection and issuance of part / final completion certificate. The concerned authorities will inspect the work and issue part/final completion certificate within** thirty days of the receipt of such **intimation.** The Engineer-in-Charge shall furnish **to** the contractor a part **/** final completion certificate as the case may be, indicating defects (a) to

10.2.25
R K SINGH
EE(Manual)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

	be rectified by the contractor and/or (b) for which payment will be made at reduced rates.
But no final certificate ..... sum actually realized by the sale thereof.	**No change.**
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(Manual)	**Clause 9 Payment of Final Bill** i. The final bill shall be submitted by the contractor **to the Engineer-in-Charge** in the same manner as specified in interim bills within three months of physical completion of the work or within one month of the date of the final **completion** certificate furnished by the Engineer-in-Charge whichever is earlier. **At the time of submission of the final bill, receipt will be given by the O/o Engineer-in-Charge.** **ii. In case of correction / rejection / short documents, it will be mandatory for Engineer-in- Charge to give recorded reasons for correction / rejection / submission of additional documents within fifteen days after submission of final measurement and/or final bill by the contractor.** **iii. Final bill will be accepted with all pre-requisite documents such as sanctioned copies of extra items and deviation in quantities, escalation statements, recovery statement, theoretical statement, final completion certificate, final extension of time case, mandatory tests statement, dismantled materials account and other documents as mentioned in clause 7A etc.** **iv. An undertaking alongwith the final bill will be submitted by the contractor that "I / we hereby undertake 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 **off** 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, be made within the

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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.	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 EOT case and 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 bill 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 part / final completion certificate .....** **(To be filled by NIT approving authority).**

This issues with the approval of DG, CPWD.

10.2.25

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

Issued from file No. CSQ/CM/17(1)/2025/Construction
e-file 9190123 (DFA/9315615)
केलोनिवि तथा लोनिवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु।
(केलोनिवि वेबसाईट के माध्यम से)

10.2.25
R K SINGH
EE(Manual)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/CON/ Construction 2023/17
ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI **Dated: 03.03.2025**

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

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

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.

03.03.25
(आर. के. सिंह)
कार्यपालक अभियन्ता (एम.)

Issued from file No. CSQ/CM/17(1)/2023/Construction e-file-9184028 (DFA/9319526)
केलोनिवि तथा लोनिवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु।
(केलोनिवि वेबसाईट के माध्यम से)

R K SINGH
EE(Manual)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/CON/ Construction 2023/18
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 Construction Works.

The following amendments are made in the Clause 25.2(b) and 25.6 of GCC 2023 for Construction 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 25.2** **(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):** 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 25.6** **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) 16/06/2025
अधीक्षण अभियंता (सी. एंड एम.)

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

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

16.06.25
R K SINGH
EE(Manual)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/Manual-2024/20

ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Vidyut Bhawan, New Delhi Dated: 27.02.2026

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

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

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

R.P. Jindal
EE(C)(Contract)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

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

This is issues with the approval of DG CPWD.

27.02.2026

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

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

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

27/2/26

D.P. Jindal
EE (Contract)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

Government of India

Central Public Works Department

Name of work: 'Construction of Training Hall at TEC, Coffee Board, Koraput.

PART B

(CIVIL)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

SPECIAL CONDITIONS (CIVIL)

General

Except for the items, for which Particular Specifications are given or where it is specifically mentioned otherwise in the description of the items in the schedule of quantities, the work shall generally be carried out in accordance with the "CPWD Specifications 2019 Vol. I & II" with upto date correction slips, additional / Particular Specifications, Architectural / structural drawings and as per instructions of Engineer-in-Charge.

The several documents forming the tender are to be taken as mutually complementary to one another. Detailed drawings shall be followed in preference to small scale drawings and figured dimensions in preference to scaled dimensions.

Should there be any difference or discrepancy between the description of items as given in the schedule of quantities, particular specifications for individual items of work (including special conditions) and I.S. Codes etc., the following order of preference shall be observed:

(i) Description of Schedule of Quantities
(ii) Particular Specifications and Special Conditions, if any.
(iii) Drawings
(iv) CPWD Specifications.
(v) Indian Standard Specifications of B.I.S.
(vi) Manufacturers' specifications & as decided by Engineer-in-charge.

"In the event of any variation/ discrepancy in the drawings, specifications and tender documents etc. the decision of the Engineer-in-charge shall be final binding and conclusive on the contractor and in the case the contractor have any doubt and the same should be got clarified immediately from the Engineer-in-charge and no claim of the contractor shall be entertained thereafter. Moreover, the agency is not allowed to take benefit out of any clerical/ grammatical mistake in the standard clauses/Schedule of Quantities/Specifications etc. being used in the agreement".

The works to be governed by this contract shall cover delivery and transportation upto destination, safe custody at site, insurance, erection, testing and commissioning of the entire works.

The works to be undertaken by the contractor shall inter-alia include the following:

i. Preparation of detailed SHOP drawings and AS BUILT drawings wherever applicable.
ii. Obtaining of Statutory permissions where-ever applicable and required.
iii. Pre-commissioning tests as per relevant standard specifications, code of practice, Acts and Rules wherever required.
iv. Warranty obligation for the equipment's and/or fittings/fixtures supplied by the contractor.

Contractor shall provide all the shop drawings or layout drawings for all the coordinated services before starting any work or placing any order for any of the services etc. These shop drawings/layout drawings shall be got approved from Engineer-in-charge before implementation and this shall be binding on the contractor. The contractor shall submit material submittals along with material sample for approval of Engineer-in-charge prior to delivery of material at site.

Any reference made to any Indian Standard Specifications, shall imply to the latest version of that standard, including such revisions / amendments as issued by the Bureau of Indian Standards upto last date of receipt of tenders. The Contractor shall keep at his own cost all such publications including relevant Indian Standard Codes applicable to the work at site.

All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested before covering.

Samples including brand / quality of materials and fittings to be used in the work shall be got approved from the Engineer-in-Charge, well in advance of actual execution and shall be preserved till the completion of the work.

Equipments like concrete pumps excavators/Transit mixers etc. shall be allowed to be moved away from the site when, in written opinion of Engineer-in-Charge, the same are no longer required at site of work.

The contractor, his authorized representative, workmen etc. shall strictly observe orders pertaining to fire precautions prevailing in the area.

The tenderer shall see the approaches to the site. In case any approach from main road is required at site or existing approach is to be improved and maintained for cartage of materials by the contractor, the same shall be provided, improved and maintained by the contractor at his own cost.

Contractor shall take all precautionary measures to avoid any damage to adjoining property.All necessary arrangement shall be made at his own cost.

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

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

The contractor shall provide at his own cost suitable weighing, surveying and leveling and measuring arrangements as may be necessary at site for checking. All such equipments shall be got calibrated in advance from laboratory, approved by the Engineer-in-Charge. Nothing extra shall be payable on this account.

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

Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should conform to approved manufacturers specifications where CPWD Specifications are not applicable. The contractor should get the materials (fixtures/fittings) tested from approved labs wherever required at his own cost.

The work shall be carried out in accordance with the Architectural drawings and Structural drawings, to be issued from time to time, by the Engineer-in-Charge. Before commencement of any item of work, the contractor shall correlate all the relevant architectural and structural drawings issued for the work, nomenclature of items, specifications etc. and satisfy himself that the information available there from is complete and unambiguous. The figures & the written dimensions of the drawing shall supersede the measurement by scale. The discrepancy, if any, shall be brought to the notice of the Engineer-in-Charge for immediate decision before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and/ or incomplete information and no claim, whatsoever shall be entertained on this account.

The contractor should submit the shop drawing of staging and shuttering for approval of Engineer-in-Charge before actually commencing the execution of work under the item. Nothing extra shall be payable on this account.

Other agencies may also simultaneously execute and install the works and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings, trenches etc. as may be required for such related works (for which inserts, sleeves,

brackets, conduits, base plates, clamps etc. shall be available as specified elsewhere in the contract) and the contractor shall fix the same at the time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account.

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

The contractor shall procure the required materials in advance so that there is sufficient time for testing of the materials and approval of the same before use in the work.

Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. The contractor shall not store materials or otherwiseoccupy any part of the site in a manner likely to hinder the operation of such services. In case temporary supporting of such services is required to facilitate the work, the same shall be done by the contractor at no extra cost.

In case the existing services are to be shifted permanently, then before dismantling the existing services, alternate/diversion of service lines has to be laid by the contractor so that there is no interruption in use of existing services. The contractor has to plan the alternate suitable route for diversion/shifting of service lines and get the same approved from the Engineer-in-Charge before starting shifting of services. Nothing extra shall be paid except the payment of dismantling and laying of new service lines as per conditions of contract.

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

The contractor shall be fully responsible for the safe custody of materials brought by him/ issued to him even though the materials may be under double lock key system.

For construction works which are likely to generate malba / rubbish, contractor shall dispose ofmalba, rubbish & other unserviceable materials and wastes at his own cost to the notified specified dumping ground and under no circumstances these shall be stacked / dumped even temporarily, outside the construction premises.

The rates quoted by the Contractor are deemed to be inclusive of site clearance, setting out work, profile, establishment of reference bench mark(s), taking spot levels, construction of all safety and protection devices, barriers, preparatory works, working during monsoon, workingat all depths, height, lead, lift and location etc until / unless specified otherwise and any other incidental works required to complete this work. Nothing extra shall be payable on this account.

For works below ground level the contractor shall keep that area free from water. If dewateringor bailing out of water is required the contractor shall do it and nothing extra shall be paid except otherwise provided in the items of schedule of quantities.

Results of sub-surface investigations conducted at site are indicated in extracts of the report attached. This information about the soil and sub-soil water conditions is being made available to the Contractor, in good faith, for guidance only and the Contractor is advised to obtain details directly as may be considered necessary by him before quoting rates in the tender. No claim whatsoever on account of any discrepancy between the sub-surface strata conditions that may be actually encountered at the time of execution of the work and those given in these tender documents, in-accuracy or interpretation thereof shall be entertained from the Contractor under any circumstances. The ground water table is a variable condition and the information given in the report is only indicative and it may vary from time to time.

Any legal or financial implications resulting out of disposal of earth shall be sole responsibility of the contractor. Nothing extra over the schedule shall be paid on this account.

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. All the rules & regulations and bye-laws laid down by Collector / MC etc. and any other statutory bodies shall be adhered to, by the contractor, during the execution of work. The Contractor shall also adhere to all traffic restrictions notified by the local authorities. It is clarified that the extra sewerage charges (one-time charges for commencement of work) required to be paid to the Municipal Corporation / other statutory bodies shall be paid by the department and need not be considered by the contractor. The water charges (for municipal water connection as well as tanker water) shall be borne by the contractor. Also, if the contractor obtains water connection for the drinking purposes from the municipal authorities or any other statutory body, the consequent sewerage charges shall be borne by the contractor. 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 allnotices 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 hisauthorized 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.

Royalty at the prevalent rates shall be paid by the Contractor 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.

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

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.

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.

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 providingand fixing temporary shelters, protections etc. Nothing extra shall be payable on this

account. Also, no claims for hindrance shall be entertained on this account.

In case of flooding of site on account of rain or any other cause and any consequent damage, whatsoever, no claim financially or otherwise shall be entertained not withstanding any other provisions elsewhere in the contract agreement. Also, the Contractor shall make good, at his own cost, the damages caused, if any.

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 equipment's 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 what so ever 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 firsthand information of site constraints. Accordingly, they should quote their tenders. Nothing extra shall be payable on this account.

All ancillary and incidental facilities required for execution of work like labour camp, stores, fabrication yard, offices for Contractor, watch and ward, temporary ramp required to be made for working at the basement level, temporary structure for plants and machineries, water storage tanks, installation and consumption charges of temporary electricity, telephone, water etc. required for execution of the work, liaison and pursuing for obtaining various No Objection Certificates, completion certificates from local bodies etc., protection works, barricading, testing facilities / laboratory at site of work, facilities for all field tests and for taking samples etc. during execution or any other activity which is necessary (for execution of work and as directed by Engineer-in-Charge), shall be deemed to be included in rates quoted by the Contractor, for various items in the schedule of quantities. Nothing extra shall be payable on these accounts. Before start of the work, the Contractor shall submit to the Engineer-in- Charge, a site / construction yard layout, specifying areas for construction, site office, positioning of machinery, material yard, cement and other storage, steel fabrication yard, site laboratory, water tank, etc.

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.

No tools and plants including any special T&P etc. shall be supplied by the Department 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.

The contractor shall have to arrange water of desirable quality for the construction purpose for which he may have to install RO plant at site or might have to bring/ purchase water from

outside as per decision of Engineer-in-charge. Nothing extra shall be paid on this account.

THE INTENDING BIDDER SHALL VISIT THE SITE FOR POSSIBLE APPROACHES/ ROADS, SPACE FOR STORAGE OF MATERIAL, SPACE FOR BATCHING PLANT AND SITE OFFICE BEFORE QUOTING THEIR RATES. NOTHING EXTRA SHALL BE PAID ON THIS ACCOUNT.

Agency shall adopt all safety measures for protecting any sort of structural damages to the existing structure and life & property at Ground/ First floor of the building. Any sort of damages caused as an act of the agency shall be recovered on actual basis as per assessment made by the Engineer-in-charge. Wherever required, GI/PPG sheet barricading and HDPE netting cloth shall be provided to prevent damages of Doors/ Windows at Ground Floor and also to reduce noise level for the comfort of Ground Floor. All this has to be done at his own cost and nothing extra shall be payable on this account

Unless otherwise specified in the schedule of quantities or CPWD specifications, the rates for respective items shall be all inclusive and apply to the following: -

(i) All lifts & all heights, floors including terrace, leads and depths.
(ii) All labor, material, tools and plants and other inputs involved in the execution of theitem.
(iii) Any of the conditions and specifications mentioned in the tender documents.
(iv) Any legal or financial implications resulting out of disposal of earth, if any.
(v) Payment of Royalty at the prevailing rates, if any, on the boulders, metal, shingle, sand and bajri etc. or any other material collected by him for the work direct to revenue authorities.
(vi) Performance test of the entire installation(s) before the work is finally accepted.
(vii) Any cement slurry added over base surface (or) for continuation of concreting for betterbond is deemed to have been built in the items.
(viii) All incidental charges for cartage, storage and safe custody of materials brought to site.

QUALITY ASSURANCE/ TESTING OF MATERIALS

GENERAL: -

All incidental expenditure on security, construction of cement godown, access roads, arrangement of water, electricity etc. to be incurred by the agency for arranging, installing and operation of Batch Mix Plant shall be deemed to have been included in his quoted rates and no claim whatsoever will be tenable on this account.

Samples of materials required for testing shall be provided free of charge by the contractor. The contractor shall provide at his own cost suitable weighing and measuring arrangements at site for checking the weight / dimension as may be necessary. The sealed samples are to be handed over to the testing lab (approved by Engineer-in-charge) by the contractor in the presence of representative of Engineering in charge.

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.

SAMPLE OF MATERIALS: -

All materials and fittings brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work. If a particular brand of material is specified in the item of work in Schedule of

Quantity, the same shall be used after getting the same approved from Engineer-in-Charge. Wherever brand / quality of material is not specified in the item of work, the contractor shall submit the samples as per **List of Preferred Makes as at y No. 120 to 131 of Part B** for approval of Engineer-in-Charge. For all other items, ISI Marked materials and fittings shall be used with the approval of Engineer-in-Charge. Wherever ISI Marked material / fittings are not available, the contractor shall submit samples of materials / fittings manufactured by firms of repute conforming to relevant Specifications or IS codes for the approval of Engineer-in- Charge.

To avoid delay, contractor should submit samples as stated above well in advance so as to give timely orders for procurement. If any material, even though approved by Engineer-in-Charge is found defective or not conforming to specifications shall be replaced / removed by the contractor at his own risk & cost.

BIS marked materials except otherwise specified shall also be subjected to quality test besides testing of other materials as per the specifications described for the item/material. Wherever BIS marked materials are brought to the site of work, the contractor shall, furnish manufacturer's test certificate or test certificate from approved testing laboratory to establish that the material procured by the contractor for incorporation in the work satisfies the provisions of specifications relevant to the material and / or the work done.
BIS marked items (except cement & steel for which separate provisions have been made in para 4.0) required on the work shall be got tested, for only important tests, which govern the quality of the product, as decided by the Engineer-in-Charge. The frequency of such tests (except the mandatory test) shall be 5% of the frequency as specified in BIS. For mandatory test, frequency shall be as specified in the CPWD Specifications.

For certain items, if frequency of tests is neither mentioned in the CPWD Specifications & BIS, then tests shall be carried out as per decision of Engineer-in-Charge.

CEMENT & STEEL REINFORCEMENT (IF NOT STIPULATED TO BE SUPPLIED BY THE CONTRACTOR).
Contractor has to produce manufacturers test certificate and challan for each lot of Cement & Steel Reinforcement procured at site.

CEMENT: -

The contractor shall procure 43 grade Portland Pozzolana Cement (PPC) conforming to IS: 1489 (Part-1) as required in the work, from reputed manufacturers as listed in the list of preferred makes at **Page No. 120 to 131 of Part B.**

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

i) By the contractor, if the results show that the cement does not conform to relevant BIS Codes.
ii) By the department, if the results show that the cement conforms to relevant BIS Codes.

Cement shall be brought at site in bulk supply as decided by the Engineer-in-Charge.

PPC bags shall be stored in separate godowns for tested cement and fresh cement (under

testing) to be constructed by the contractor at his own cost as per sketches given in C.P.W.D Specifications having weather-proof roofs and walls. The size of the cement godown is indicated in the sketches for guidance. The actual size of godown shall be as per site requirements and nothing extra shall be paid for the same. Each godown shall be provided with a single door with two locks. The keys of one lock shall remain with Engineer-in-Chargeor his authorized representative of the work and that of other lock with the authorized agent of the contractor at the site of work so that the cement is issued from godown according to the daily requirement with the knowledge of both parties. The account of daily receipt and issue of cement shall be maintained in a register in the prescribed proforma and signed daily by the contractor or his authorized agent and Engineer-in-Charge or his authorized representative in token of its correctness. The day-to-day receipt and issue accounts of different grade/brand of cement shall be maintained separately in the standard proforma by the contractor or his authorized representative which shall be duly signed by the authorized representative of the Engineer-in-Charge before issue to the work on day-to-day basis. The contractor shall facilitate the inspection of the cement go-downs by the Engineer-in-Charge at any time. The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in Clause-42 of the contract and shall be governed bythe conditions laid therein.

If the quantity of cement actually used in the work is found to be more than the theoretical quantity of cement including authorized variation, nothing extra shall be payable to the contractor on this account. In the event of it being discovered that after the completion of the work, the quantity of cement used is less than the quantity ascertained as herein before provided (allowing variation on the minus side as stipulated in Clause - 42), the cost of quantity of cement not so used shall be recovered from the contractor as specified in schedule. Decision of the Engineer-in-Charge in regard to theoretical quantity of cement whichshould have been actually used as per the schedule and recovered at the rate specified, shall be final and binding on the contractor.

For non-scheduled items, the decision of the CE cum ED, BPZ, CPWD, Berhampur, regarding theoretical quantity of the cement, which should have been actually used, shall be final and binding on the contractor.

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

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

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

STEEL REINFORCEMENT: -

Only ISI marked TMT Bars of various grades as listed in the list of preferred makes at **Page No. 120 to 131 of Part B** shall be procured.

Credentials for eligibility criteria & other technical parameters for steel manufacturers:The manufacturer should meet the following eligibility criteria:

a) The steel manufacturer should have followed documentary evidence:
   - i) Certificate of incorporation.
   - ii) Memorandum of articles of Association.
   - iii) Credit rating of the company from CARE/CRISIL/ICRA (the grading should not be C/Dgrade for minimum last 3 years).

b) The Steel manufacturer must have following licenses and certificates:
   i) ISI Certificate for billets (IS 2830: 2012)
   ii) ISI Certificate for TMT Bars (IS 1786: 2008 (Amendment -1 November 2012))

c) The Steel manufacturer should also preferably have the following licenses:
   i) ISO 9001: 2015
   ii) ISO 14001: 2015
   iii) OHSAS 18001:2007

d) The TMT bars produced must be ISI marked (IS 1786:2008)

e) The steel manufacturer should have the following in house testing facilities (NABL Accredited):
   i) Computerized Universal Testing Machine
   ii) Spectrometer
   iii) Bend Re-bend facility as per IS: 1786-2008 (Amendmnt-1 November 2012).
   iv) Raw material laboratory: Arrangement for testing carbon, Sulphur& Phosphorous etc.
   v) other testing facilities as specified in IS: 1786-2008 & IS: 2830-2012.

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. Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions inthis 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 shallbe removed from the site of work by the contractor at his cost within a week time on written orders from the Engineer-in-Charge to do so.

The steel reinforcement bars shall be brought to the site in bulk supply of as decided by the Engineer-in-charge.

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

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

Size of bar	**For consignment upto or below 100 tonnes**	**For consignment above 100 tonnes**
Under 10 mm dia bars	One sample for each 25 tons or part thereof	One sample for each 40 tonnes or part there of
10 mm to 16 mm diabars	One sample for each 35 tonnes or part there of	One sample for each 45 tonnes or part there of
Over 16 mm dia bars	One sample for each 45 tonnes or part there of	One sample foreach50 tonnes or part there of

The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. The cost of tests shall be borne by the contractor.

The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations recovery at the rate so prescribed shall be made. In case of excess consumption, no adjustment needs to be made.

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

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

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

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

1. 3.14 (a) If the Derived Weight as in sub-para (4.3.13) above is less than the Standard Weight as in Sub-para (4.3.12) above then the Derived Actual Weight shall be taken for payment provided, it is within the following tolerances specified in IS1786-2008, otherwise whole lot will be rejected.

Tolerances on Nominal Mass

Nominal Size in mm	Tolerance on Nominal mass Percent		
	Batch	Individualsample *	Individual sample for coil**
a) Upto and including 10	±7	-8	±8
b) Over 10 upto andIncluding 16	±5	-6	±6
c) Over 16	±3	-4	±4

* For individual sample plus tolerance is not specified.

**For coils batch tolerance is not specified.

b) If the Derived Actual Weight is found more than the Standard Weight, the Standard Weight as per in sub-para (4.3.13) above shall be taken for payment. In such case nothing extra shall be paid for the difference between the Derived Actual Weight and the Standard Weight.

SECRECY

The contractor shall take all steps necessary that all persons employed on any work in

connection with the contract have notice that the Indian Official Secrets Act 1923 applies to them & will continue so to apply even after the execution of such works under the contract.
The contract is confidential and must be strictly confined to the contractor's own use (except so far as confidential disclosure to sub-contractors or suppliers as necessary) and to the purpose of the contract.
All documents, copies thereof & extracts there from furnished to the contractor shall be returned to the Engineer-in-Charge on the completion of the work / works or the earlier determination of the contract.

LABOUR AND SECURITY
Contractor should provide his plan for labour huts as per his requirement and get it approved from the Engineer-in-Charge. The contractor will be provided space for labour huts etc. inside the campus but the space requirement and location, as assessed by Engineer-in-Charge shall be final and binding.
Contractor has to follow the security requirement of the campus and obtain necessary entry passes for the labour and vehicles and follow security checks at entry / exit gates, restriction on movement of vehicle, restricted timings of working etc. The Department however shall assist the contractor in obtaining such passes for movement of vehicles and labour. No claim whatsoever shall be entertained on account of delay in entry of vehicles and labour including restrictions in working hours, if there is any.
The contractor shall employ only Indian Nationals after verifying their antecedents and loyalty. The contractor shall, on demand submit list of his agents, employees and work people concerned & shall satisfy as to the bonafides of such people. The contractor & his work people shall observe all relevant rules regarding security promulgated in which work is to be carried out by the Controlling Administrative Authority of the campus/area (hereinafter referred to as "Administrator").
The contractor, his representative, workman shall be allowed to enter through specified gates & timing as laid down by the controlling authority. They shall be issued an identity card or an individual pass in accordance with the standing rules & regulations & they should possess the same while working. The contractor shall be responsible for the conduct & actions of his workmen, agents / representatives.
Normally contractor shall be allowed to carry out work between 7 AM to 6 PM. However, he may also be allowed to carry out the work beyond 6 PM & upto 7 AM if the site conditions / circumstances so demand with prior written permission from the "Administrator". However, if the work is carried out in more than one shift or at night, no claim on this account shall be entertained.
Normally contractor's material / vehicles etc. shall be allowed to move in / go-out between 7 AM to 7 PM only & no movement of material / vehicles out of site of work shall be allowed during night hours unless specific permission is obtained from the "Administrator".
In case if a separate entry has been allowed, the contractor has to make all arrangement for making a separate entry gate and barricading of the working area to segregate/separate the same from other areas. All these have to be done by the contractor at his own cost including safeguarding any untoward incident in the restricted area due to separate entry gate and barricading arranged by the contractor. No extra amount on this account shall be payable by the department.

TRANSPORTATION AND OFFICE INFRASTRUCTURE:
In order to complete the work within the scheduled time if the contractor shall be required to dothe work in more than one shift and accepted by the department the contractor will provide vehicular facilities to the CPWD site staff to reach the site and their residence at his own cost for their services required beyond the normal office hours. In case the contractor fails to

provide the facilities Engineer-in-Charge shall be at liberty to make the arrangement themselves and deduct the respective cost from the contractor's bills.

The contractor shall make arrangement for Helmets and leather shoes (meant of construction work at sites) for all field staff of the department during the entire period of construction for safety reasons. One helmet and one pair of shoes per staff member (maximum ten members) of the departments per year shall be arranged by the contractor.

8.0 DOCUMENTATION

The Contractor shall render all help and assistance in documenting the total sequences of this project by way of photography, slides, audio / video recording & other records etc. Nothing extra shall be payable to Contractor on this account. However, cost of photographs, slides, audio / video graph 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.

SAFETY MEASURES

Contractor shall take all precautionary measures to avoid any damage to adjoining property. All necessary arrangement shall be made at his own cost.

Warning / Caution Boards

All temporary warning / caution boards / glow signage display such as "Construction Work in Progress", "Keep Away", "No Parking", Diversions & protective Barricades etc. shall be provided and displayed during day time by the Contractor, wherever required and as directed by the Engineer-in-Charge. These glow signage and red lights shall be suitably illuminated during night also. The Contractor shall be solely responsible for damage and accident caused, if any, due to negligence on his part. Also, he shall ensure that no hindrance, as far as possible, is caused to general traffic during execution of the work. This signage shall be dismantled & taken away by the Contractor after the completion of work, only after approval of the Engineer – in – Charge. Nothing extra shall be payable on this account.

Sign Boards

The Contractor shall provide and erect a display board of size and shape as required and paint over it, in a legible and workman like manner, the details about the salient features of theproject, 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, Associate contractors and specialized agencies. Nothing extra shall be payable on this account.

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

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

PARTICULAR SPECIFICATIONS (Civil)

EARTH WORK: -

Earth work shall be executed as per CPWD specifications 2019, Volume-I with upto date correction slips. In addition to that following specifications shall also be followed:

EARTH WORK FOR MAJOR WORKS

Excavation shall be undertaken to the width of the Basement/Retaining wall footing including necessary margins for construction operation as per drawing or directed otherwise. Where the nature of soil or the depth of the trench and season of the year, do not permit vertical sides, the contractor at his own expense shall put up the necessary shoring, strutting and planking or cut slopes with or without steps, to a safer angle or both with due regard to the safety of personnel and works and to the satisfaction of the Engineer. Measurement of plan area of excavation for payment shall be permitted only.

All the major excavation shall be carried out by mechanical excavator. No extra payment shall be made for that.

The contractor shall make at his own cost all necessary arrangements for maintaining water level, in the area where works are under execution low enough so as not to cause any harm to the work shall be considered as inclusive of pumping out or bailing out water, if required, for which no extra payment shall be made. This will include water coming from any source, such as rains, accumulated rain water, floods, leakages from sewer and water mains subsoil water table being high or due to any other cause whatsoever. The contractor shall make necessary provision of pumping, dredging bailing out water coming from all above sources and excavation and other works shall be kept free of water by providing suitable system approved by the Engineer-in-charge. In order to avoid possibility of basement floor of main building being getting uplifted/damaged due to water pressure, the contractor shall lower the ground water table below the proposed foundation level by boring tube wells all around the proposed building using well point sinking method or any suitable method as approved by Engineer-in-charge. Sub soil water table shall be maintained at least 50 cm. below the P.C.C. level during laying of P.C.C. water proofing treatment, laying of basement raft and beams including filling of earth/sand under the basement floor. The water table shall not be allowed to rise above base of raft level until completion of outer retaining walls including water proofing of vertical surface of walls and back filling along the walls upto ground level and until the structure attains such height to counter balance the uplift pressure. However, the contractor should inspect the site and make his own assessment about sub-soil water level likely to be encountered at the time of execution and quote his rates accordingly. Rate of all items are inclusive of pumping out or bailing out water, if required. Nothing extra on this account whatsoever shall be paid to him. The sequence of construction shall be got approved by the Engineer-in-charge.

The contractor shall take all necessary measures for the safety of traffic during construction and provide, erect and maintain such barricades including signs, markings, flags, lights and flagman, as necessary at either end of the excavation/embankment and at such intermediate points as directed by the Engineer-in-charge for the proper identification of construction area. He shall be responsible for all damages and accidents caused due to negligence on his part.

2.0 **R.C.C. WORK: -**The contractor shall use Batch Mix concrete (BMC).

The sources of coarse aggregate, fine aggregate, water, admixture & cement to be used in

concrete work shall be identified by the contractor & he will satisfy himself regarding their conforming to the relevant specifications & their availability before getting the same approved from the Engineer-In-Charge.

(a) **Coarse Aggregate: -** As per CPWD Specifications

(b) **Fine Aggregate: -** As per CPWD Specifications

(c) **Water: -** It shall conform to requirements laid down in IS:456-2000 / Para 3.1.1 of CPWD Specifications. If on testing, water from the source is not found fit for construction, the necessary arrangement for treatment of water shall have to be made by the contractor at the site and nothing extra shall be payable for the same.

(d) **Cement: -** Portland Pozzolona Cement (Fly ash based), required in the work from reputed manufacturers of cement as per the approved make in 50 kg bags bearing manufacturer's name and ISI marking, along with manufacturers test certificate for each lot. Portland Pozzolona Cement is to be used for RCC works only subject to fulfillment of conditions of circular No. CDO/SE(RR)/Fly ash (MAN) 02 dated 09.04.09 shall be used for Design Mix Concrete and shall conform to IS: 1489-Part-I. However, if the contractor uses higher grade of cement nothing extrashall be paid.

Water Cement Ratio and Slump: -

In proportioning a particular mix, the manufacturer/producer/contractor shall give due consideration to the moisture content in the aggregates, and the mix shall be so designed as to restrict the maximum free water cement ratio to less the 0.5.

Due consideration shall be given to the workability of the concrete thus produced. Slump shall be controlled on the basis of placement in different situations. For normal methods of placing concrete, maximum slump shall be restricted to 100mm when measured in accordance with IS:1199.

The minimum cement content, maximum free water-cement ratio and minimum grade of concrete are individually related to exposure as per Table 5 of IS: 456, 2000 and As per CPWD Specifications (Vol-I) 2019 with upto date correction slips.

Grade of Concrete: - The compressive strength of various grades of concrete with various parameters shall be as follows: -

Grade Designation	Compressive strength on 15 cm cubes minimum 7 days (N/mm^2)	Specified Characteristic Compressive Strength at 28 days (N/mm^2)	Maximum Water Cement Ratio	Minimum Cementto be used in (Kg per cum)
M-10	As per design	10	0.50	220
M-15	As per design	15	0.50	240
M-20	As per design	20	0.50	300
M-25	As per design	25	0.50	330
M-30	As per design	30	0.45	340
M-35	As per design	35	0.45	350
M-40	As per design	40	0.45	360
M-50	As per design	50	0.40	380

NOTE: In the designation of a concrete mix letter M refers to the mix and the number of the specified characteristic compressive strength of 15 cm – cube at 28 days expressed in N/mm^2.

Characteristic Compressive Strength compliance Requirement

Specified Grade	Mean of the Group of 4 Non-overlapping consecutive test results in N/mm2 (Min)	Individual Test Results in N/mm2 (Min)
(1)	(2)	(3)
M15 Or Above	≥F_{ck} + 0.825 x established standard deviation (rounded off to nearest 0.5N/mm^2) Or F_{ck} +3N/mm^2, whichever is greater where $f_{ck}$is characteristic compressive strength of CC cube at 28 days.	≥F_{ck} – 3 N/mm^2

Note: (i) In the absence of established value of standard deviation, the values given in Tableas mentioned below may be assumed, and attempt should be made to obtain results of 30 samples as early as possible to establish the value of standard deviation.

(ii) For concrete of quantity up to 30 m3 (where the number of samples to be taken is less than four as per frequency of sampling given in para 2.4, the mean of test results of all such samples shall be f_{ck} + 4 N/mm^2, minimum and requirement of minimum individual test result shall be f_{ck} - 2 N/mm^2, minimum. However, when the number of samples is only on as per para 2.4, the requirement shall be f_{ck}+ 4 N/mm^2, minimum

General Requirement of Batch Mix Concrete: -

(a) The contractor shall have to use BATCH MIX CONCRETE. The contractor shall ensure that transit mixtures shall transport the concrete to site. All the precautions shall be taken during the transportation and handling of concrete to achieve the desired strength, durability, etc. as envisaged in the Mix Design.

(c) All measuring equipment shall be maintained in a clean and serviceable condition and theiraccuracy shall be checked at least once a month.

(d) Only single sized good quality stone aggregate shall be brought to site of work from the approved source. The grading of the stone aggregate shall be controlled by blending the aggregate of different sizes in the required proportions at site of work
The aggregate of different sizes shall be stock-piled separately, preferably a day before use. The grading of course and fine aggregates shall be checked as frequently as possible and as directed by the Engineer-In-Charge to ensure that the specified grading and quality of aggregate is maintained.

(e) It is important to maintain the Water Cement Ratio constant at its specified or approved value by making adjustment for the moisture contents of both fine and coarse aggregates.

The moisture contents in the aggregate shall be determined as frequently as possible in keeping with the weather conditions and as per the provisions of IS: 2386 (Part-III).

OTHER OPERATIONS: -

All other operations in concreting work like mixing, slump, laying, placing of concrete, compaction, curing etc. not mentioned in these particular specifications for Ready Mix of Concrete shall be as per CPWD Specifications.

SAMPLING: -

General:

Samples from fresh concrete shall be taken as per IS 1199 and cubes shall be made, cured and tested at 28 days in accordance with IS 516. 15.1.1 In order to get a relatively quicker idea of the quality of concrete, optional tests on beams for modulus of rupture at 72 + 2 h or at 7 days, or compressive strength tests at 7 days may be carried out in addition to 28 days compressive strength test. For this purpose, the values should be arrived at based on actual testing. In all cases, the 28 days compressive strength specified in Table 2 of code of practice, IS:456 2000 shall alone be the criterion for acceptance or rejection of the concrete.

(a) FREQUENCY OF SAMPLING: -

(i) A random sampling procedure shall be adopted to ensure that the sampling is spread over the entire period of concreting and cover all mixing units. The concrete work shall be notionally divided into lots as under for the purpose of sampling conditions.
- -- Footings, rafts etc.
- -- Columns and walls at all levels.
- -- Beams at all levels.
- -- Slabs at all levels.

(ii) At least one test sample shall be taken for each lot of concrete work.

(iii) Each grade of concrete shall form different lot for testing.

(iv) The minimum frequency of sampling of concrete of each grade shall be in accordance with CPWD specification 2009, Vol I with upto date correction slips.

(v) The concrete work shall be assessed on day-to-day basis & samples shall be taken as specified.

(vi) Work strength test shall be conducted in accordance with IS: 516 on random sampling.

However, the minimum frequency of sampling of concrete of each grade shall be in accordance with the following:

Quantity of Concrete in the work m3	*Number of Samples*
I - 5	1
6 - 15	2
6 - 30	3
31- 50	4
51 and above	4 plus one additional sample foreach
Additional 50 cum or part thereof.	

NOTE- *At least one sample shall be taken from each Shift. Where concrete is produced at continuous production unit, frequency of' sampling may be decided by Engineer-in-charge in such a manner so as to ensure that each concrete batch shall have a reasonable chance of being tested.*

Test Specimen

Three test specimens shall be made for each sample for testing at 28 days. Additionalsamples may be required for various purposes such as to determine the strength of concreteat 7 days or at the time of striking the formwork, or to determine the duration of curing, or to check the testing error. Additional samples may also be required for testing samples cured by accelerated methods as described in IS 9102. The specimen shall be tested as described in IS 516.

TEST RESULTS OF SAMPLES: -

The test results of the sample shall be the average of the strength of three specimens. The individual variation shall not be more than ± 15% percent of the average. If variation is

more,

the test results shall be treated as invalid. 90% of the total tests shall be done at the laboratory established at site by the contractor and remaining 10% in any other laboratory as directed by the Engineer-in-Charge.

ACCEPTANCE CRITERIA

Compressive Strength

The concrete shall be deemed to comply with the strength requirements when both the following conditions are met:

a) The mean strength determined from any group of four consecutive test results compiles with the appropriate limits in col 2 of Table given under para 2.1.4 above.

b) Any individual test result complies with the appropriate limits in col 3 of Table given underpara 2.1.4 above.

Quantity of Concrete Represented by Strength Test Results

The quantity of concrete represented by a group of four consecutive test-results shall include the batches from which the first and last samples were taken together with all intervening batches.

Where the mean rate of sampling is not specified the maximum quantity of concrete that four consecutive test results represent shall be limited to 60 m3.

Concrete of each grade shall be assessed separately.

Concrete is liable to be rejected if it is porous or honey-combed, its placing has been interrupted without providing a proper construction joint, the reinforcement has been displaced beyond the tolerances specified, or construction tolerances have not been met. However, the hardened concrete may be accepted after carrying out suitable remedial measures to the satisfaction of the Engineer-in-Charge.

MEASUREMENT –

(i) As per CPWD Specifications (Vol-I) 2019 with upto date correction slips

(ii) In respect of all projected slabs at all levels including cantilever, canopy, the payment for the RCC work shall be made under the item RCC slabs. The payment for shuttering at the edges shall be made under item of centering and shuttering for RCC slabs. Nothing extra shall be paid for the side shuttering at the edge of these projected balconies / projected verandah slabs.

TOLERANCES - As per CPWD Specifications.

RATES: -

(i) The rate includes the cost of materials, labour and T&P, including mixing, placing, transportation involved in all the operations described above except for the cost of centering, shuttering &reinforcement which will be paid for separately. It includes finishing i.e., making the top surface of smooth/in required level with trowel etc.

(ii) 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 contractor. However, the Engineer-in-charge may order for additional tests (like cutting cores, ultrasonic pulse velocity test, load test 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 and reduced rates shall be regulated in accordance with CPWD Specifications.

RCC WORK (ORDINARY)

The work shall be done in accordance with CPWD Specifications (Vol-I) 2019 with up-to-date correction slips

Water Cement ratio for Ordinary RCC work shall not be more than 0.5. Contractor shall use concrete mixture of proper design having arrangement for measuring water for mixing of concrete.

FORM WORK

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

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, marine-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. But nothing extra shall be paid on this a/c.

Nothing extra shall be paid for the centering and shuttering, circular in shape whenever the formwork is having a mean radius exceeding 6m in plan.

Nothing extra shall be paid for grid beams and the corresponding slabs having clear span more than 1.20 meters.

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 except the places where different type of flooring is provided in the sameroom.

As per general engineering practice, level of floors in toilet / bath, balconies, shall be kept 12 to 20mm or as required, lower than general floors shuttering should be adjusted accordingly. Nothing extra is payable on this account.

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 are 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.

REINFORCEMENT: -

The reinforcement shall be done as per CPWD Specifications.

The rate of item of reinforcement of RCC work includes all operations including straightening, cutting, bending, welding, binding with annealed steel wire or welding and placing in position at all the floors with all leads and lift complete as per CPWD Specifications.

The contractor shall provide approved type of support for maintaining the bars in position and ensuring required spacing and correct cover of concrete to reinforcement as called for in the drawings, spacer blocks of required shape and size. Chairs and spacer bars shall be used in order to ensure accurate positioning of reinforcement. **Spacer blocks shall be casted well in advance with approved proprietary pre-packed free flowing mortars (Conbextra as manufactured by M/s Fosroc Chemicals India Ltd. or of approved equivalent)** of high early strength and same colour as of surrounding concrete. However, Cover Guard Bars shall also be used to maintain proper cover of RCC Columns in addition to spacer blocks as mentioned above. Pre-cast cement mortar/concrete blocks/blocks of polymer shall not be usedas spacer

blocks unless specially approved by the Engineer-in-charge, rate of RCC items is inclusive of cost of such cover blocks & Cover Guard Bars.

BRICK WORK: -

The brickwork shall be carried out with good quality well burnt / flyash FPS bricks of class designation 75 as per CPWD Specifications. Exposed brick work for ground level to plinth level shall be executed with selected FPS bricks of class designation 75.

The rate shall also include for leaving chases / notches for dowels / cramps for all kinds of cladding to come over brick work.

Brick work provided around shaft or lifts walls or around slab cutouts shall be measured in the brick for corresponding floor level. Nothing extra shall be paid on this account.

M.S. Strip/ Bar provided at every third course of half brick masonry shall be in single piece. If required, welding joint can be used without overlaps. Nothing extra shall be paid for welding and overlaps.

STONE / GRANITE WORK

General: - The execution of stones work shall be in general as per CPWD Specifications (Volume-I) 2019, with up-to-date correction slips.

GRANITE/ MARBLE WORKS

The granite/ marble stonework shall, in general, be carried out as per the CPWD Specifications. The specifications for dressing, laying, curing, finishing, measurements, rate etc. for the granite/ marble stone flooring shall be same as that of works for the Marble flooring, skirting and risers of steps under Flooring Sub Head of the CPWD Specifications. Thewall lining / veneer work with granite/ marble stone shall be as per the CPWD Specifications for Marble work Sub Head.

The decision of the Engineer-in-Charge as regards the approval of the samples for the various types of the granite/ marble stones shall be final and binding on the Contractor. No claim of any kind whatsoever shall be entertained from the Contractor on this account. The Contractor shall then procure and get the mock up prepared at site of work for approval of quality of workmanship and the granite/ marble stone as specified. The mock up shall be prepared in lift lobby, toilet etc. on one of the floors. The size of the stones shall be as per the architectural drawings. If the quality of the workmanship and the material is as per the required standards, the mock up shall be allowed as part of the work and measured for payment and shall not be dismantled. Otherwise, it shall be dismantled by the contractor as directed by the Engineer-in- Charge and taken away from the site of the work at his own cost. Nothing extra shall be payable on this account.

That the curvilinear profile of the entrance steps for the building shall be negotiated in segmental manner (using trapezoidal shaped granite stone pieces with straight edges for treads and rectangular stone pieces for the risers) and not in curved profiles as specified earlier. However, the granite/ marble stone slabs shall be cut to required sizes and shapes, as per the architectural drawings, to negotiate the curved steps in segmented manner. The risers shall also be cut to required sizes and shapes and the edges chamfered at the joints, all as per the architectural drawings. However, the Contractor shall prepare the detailed shop drawings for the same and commence work only after the approval by the Engineer-in-Charge.The rate shall also include any consequent wastage, incidental charges involved in this work. Nothing extra shall be payable on this account. For the purpose of payment, the actual area of each type of granite/ marble stone as laid shall be measured.

For the steps (risers and treads) in the linear profile, the granite/ marble stone shall be provided in single pieces up to 2.0m as per the architectural drawings, unless otherwise specifically permitted by the Engineer-in-Charge. Wherever grooves are required to be provided the same is to be done as per architectural drawings and as directed by the

Engineer-in-charge. Wherever required, the joints shall be provided as per the architectural drawings. Nothing extra shall be payable on these accounts.

4.2.5. The granite/ marble slabs used for providing and fixing in the sills, soffits and jambs of doors, windows, ventilators and similar locations shall be in single piece unless otherwise directed by the Engineer-in-Charge. Wherever stone slab other than in single piece is allowed to be fixed, the joints shall be provided as per the architectural drawings and as per the directions of the Engineer-in-Charge. In the cabin areas, the joints in sills shall preferably be provided in line with the partition wall. Depending on the number of joints, as far as possible, the stone slabs shall be procured and fixed in slabs of equal lengths as per the architectural drawings and as directed by Engineer-in-Charge.

While fixing the granite/ marble slabs in sills, soffits and jambs of doors, windows, ventilators etc., rebates shall be made by overlapping the stones at the required places for fixing shutters for doors, windows and ventilators etc. as shown in the architectural drawings and as per the directions of the Engineer-in-Charge. Epoxy based adhesives shall be used for fixing the granite/ marble stones to each other, or wherever required. The authorized overlap as per the architectural drawings or as directed by the Engineer-in-Charge shall be measured for payment under the same item. However, any extra mortar thickness required due to the overlap arrangement shall be deemed to have been included in the rate of this item. Nothing extra shall be payable on this account. The granite/ marble stone slab shall be fixed over low level storage cabinets using necessary adhesive as per the manufacturer's specification. The stone shall have uniform thickness and shall be provided in sizes as per the architectural drawings. The stone slab shall have uniformly leveled surface after fixing. All the joints shall befinished smoothly in a workmanlike manner.
The granite/ marble work shall be adequately protected by a layer of Plaster of Paris, which shall be maintained throughout and removed just before handing over of the works for which nothing extra shall be payable.

Acceptance Criteria: - The stone/tile work shall carry Five years guarantee after completion of work against unsound material, workmanship as per guarantee bond. Five years guarantee in prescribed Performa attached under **Page No. of 118 Part-B** must be given by the specified firm, which shall be counter signed by the contractor, in token of his overall responsibility. 10%(ten percent) of the cost of these items would be retained as security deposit in addition to normal security deposit of the whole work and the amount so deducted would be releasedafter five years from the date of completion of the entire work under the agreement, if the performance of the items is found satisfactory. If any defect is noticed during the guarantee period, the contractor should rectify it within seven days and if not attended to the same will begot done from another agency at the risk and cost of contractor. However, this security depositcan be released in full if bank guarantee of equivalent amount is produced and deposited with the department

SAMPLES FOR STONE WORK
Samples of each item of stone work either individually or in combination shall be prepared forapproval of Engineer-in-charge before commencement of work.

WOOD WORK
The wood work in general shall be carried out as per CPWD Specifications (Volume-I) 2019, with up-to-date correction slips.

The factory shall be got approved from the Engineer-in-charge before commencement of work for factory made wood work. The sample of timber to be used shall be deposited by the contractor with Engineer-in-charge before commencement of work.
The shape and size of beading shall be as per drawings. The joints of beading shall be mitred.

Timber shall be of specified species, good quality and well-seasoned. It shall have uniform colour, reasonably straight grains and shall be free from knots, cracks, shakes and sapwood. It shall be close grained. The contractor shall deposit the samples of species of timber to be used with the Engineer-in-Charge for testing before commencement of the work.

Wood work shall not be painted, oiled or otherwise treated before it has been approved by the Engineer-in-charge. All portion of timber including architrave abutting against masonry, concrete, stone or embedded in ground shall be painted with approved wood preservative or with boiling coal tar.

The contractor(s) shall produce cash voucher and certificates from approved Kiln Seasoning Plants about the timber used on the work having been kiln seasoned and chemically treated by them, falling which, it would not be so accepted as kiln seasoned and/or chemically treated.

Transparent sheet glass conforming to IS: 2835 – 1977 shall be used. Thickness being governed as under unless otherwise specified in the item in wood work/steel work:

Area of Glazing	Thickness
(a) For glazing area up to 0.50 sqm	4.0 mm
(b) For glazing area more than 0.50 sqm	6.0 mm

Factory made wooden flush door shutters shall be carried out as per CPWD specifications (Volume-I, 2019 with upto date correction slips).
The work shall be executed through specialized agencies to be approved by the Engineer in Charge.
The contractor shall propose well in advance to Engineer-in-Charge, the names and address of the factory where from the contractor intends to get the shutters manufactured along with the credential of the firm. The contractor shall place the order for manufacturing of shutters only after obtaining approval of the Engineer in Charge whose decision in this case shall be final & binding. In case the firm is not found suitable he shall propose another factory. The factory may also be inspected by a group of officers before granting approval; shutters shall however he accepted only if these meet the specified test.
Contractor will arrange stage wise inspection of the shutters at factory by the Engineer-in-Charge or his authorized representative. The contractor will have no claim if the shutters brought at site in part or full lot are rejected by the Engineer-in-Charge due to bad workmanship / quality. Such defective shutters will not be measured and paid. The contractor shall remove the same from the site of work within 7 days after the written instruction in this regard are issued by the Engineer-in-Charge.
The shutters should be brought at site without primer / painting.

7.0 STEEL WORK

All steel work shall be carried out as per CPWD Specifications. (Volume 1) 2019 with up-to-date correction slips.

FLOORING

All work in general shall be carried out as per CPWD Specifications (Volume 1) 2019 with up-to-date correction slips.
Whenever flooring is to be done in patterns of tiles and stones, the contractor shall get samples of each pattern laid and approved by the Engineer-in-charge before final laying of such flooring. Nothing extra shall be payable on this account.
Different stones / tiles used in pattern flooring shall be measured separately as defined in the nomenclature of the item and nothing extra for laying pattern flooring shall be paid over and above the quoted rate. No additional wastage, if any, shall be accounted for any extra payment.

Samples of flooring stones/ Tile (Kota/ Marble/ Granite/ Ceramic tiles/ Vitrified tiles etc.) shall be deposited well in advance with the Engineer-in-Charge for approval. Approved samples should be kept at site with the Engineer-in-Charge and the same shall not be removed except with the written permission of Engineer-in-Charge. No payment whatsoever shall be made for these samples.

The Marble/ Kota/ Granite or any other stone shall be fully supported by the details establishing the quarry and its location.

Full width Marble/ Kota/ Granite stone over kitchen platform shall be provided which shall not be less than 900mm long except to adjust for closing pieces. The marble / stone flooring in treads and risers of staircase shall not be less than 1500mm long except to adjust the closing pieces. Nothing extra shall be paid on these accounts

Vitrified Tile Flooring

The tiles shall be of approved make and shall generally conform to Table 12 of IS15622.

The full body Vitrified tiles of specified sizes shall be used & sample of tiles shall be got approved from the Engineer-in-Charge. All tiles shall be rectified and double charge minimum. The Mandatory tests for vitrified tiles shall be got done as per CPWD Specifications-2019 (volume-1)/relevant BIS Code.

FINISHING: -

The work shall be done in accordance with CPWD Specifications (Volume II) 2019 with up-to-date correction slips and/or manufacturers specifications wherever applicable.

All painting material of approved brand and manufacturer shall be brought to the site of work inthe original sealed containers. The material brought to the site of work shall be sufficient for at least 30 days of work. The material shall be kept under the joint custody of contractor and representative of the Engineer-in-charge. The empty containers shall not be removed from the site till the completion of the work without permission of the Engineer-in-charge.

In the item of finishing walls with water proofing cement paint, only the plain/flat area shall be measured for payment and nothing extra shall be paid on account of pointed wall surface.

Aluminium doors, windows, ventilators etc. glazing specifications

Extent and Intent: - The work shall be carried out in the factory through an approved Special Agency, who shall furnish all material, labour, accessories, equipment, tool and plants and incidentals required for providing and installing anodized/powder coated aluminium doors, windows, claddings, louvers and other items as called for on the drawings. The drawings and specifications cover the major requirements only. The supplying of additional fastenings, accessories, fixtures and other items not mentioned specifically herein, but which are necessary to make a complete installation shall be a part of this contract. Hinges for open able panel shall be stainless steel friction hinges / stays selected for specified wind load and dead loads or specifically extruded in-built hinges.

General: - Aluminum doors, windows etc. shall be of sizes, section details as shown on the Architectural drawings. The details shown on the drawings indicate generally the sizes of the component parts and general standards. These may be varied slightly to suit the standard adopted by the manufacturers. Before proceeding with any manufacturing, the contractor shall prepare and submit complete manufacturing and installation drawings for approval of the Engineer-in-Charge and no work shall be performed until the approval of these drawings is obtained.

Samples: - Samples of doors, windows louvers etc. shall be fabricated, assembled in the factory and submitted to Engineer-in-Charge for his approval. They shall be of sizes, types etc. as decided by Engineer-in-Charge. All samples shall be provided at the cost of the contractor.

Sections: - Aluminum doors and windows shall be fabricated from extruded sections of profiles as detailed on drawings. The sections shall be extruded by the manufacturers approved by the Engineer-in-Charge. The aluminum extruded sections shall conform to BIS designation IIE/IIV 9 WP alloy, with chemical composition technical properties, as per IS: 733 and IS: 1285. The permissible tolerance of the extruded sections shall be such as not to impair the proper and smooth function/ operations and appearance of doors and windows.

Fabrication: - Doors, windows etc. shall be fabricated to sizes at factory and shall be of section, sizes, combinations and details as shown on the drawings. All doors, windows etc. shall have mechanical joints. The joints shall be designed to withstand a minimum wind load of

150 Kg. per Sqm. The design shall also incur that the maximum deflection of any member shall not exceed 1/175 of the span of the member. All members shall be accurately machined and fitted to form hairline joints prior to assembly. The joints accessories such as cleats, brackets etc. shall be of such material as not to cause any bimetallic action. The design of the joints and accessories shall be such that the accessories are fully concealed. The fabricationof doors, windows, etc. shall be done in suitable sections to facilitate easy transportation, handling and installation. Adequate provision shall be made in the door and window members for anchoring to support and fixing of hardware and other fixture as approved by the Architect.

Anodizing/ powder coating: -All aluminum sections shall be Powder coated (minimum 50-micron thickness) as per requirement as per IS: 7088 and to required colour as specified in the item as per IS: 1868 grading as specified in item schedule after cutting the member to requisite sizes before the final assembly. Powder coating shall be of minimum 50-micron thickness. Anodizing confirming to specified grade with minimum average thickness of 15 microns when measured as per IS: 612. The anodic coating shall be properly sealed bysteams or in boiling water are cold sealing process as per IS:1868/IS: 6057. Polythene tape protection shall be applied on the anodised section before they are brought to site. All care shall be taken to ensure surface protection during transportation, storage at site and installation. The tape protection shall be removed on installation. The sample will be tested in the approved laboratory and cost of samples; etc. shall be borne by the contractor.

Protection of finish: - All aluminum members shall be wrapped with approved self-adhesive non-staining. PVC tapes.

Handling and Stacking: -
Fabricated materials shall be carried in an approved manner to protect the material against any damage during transportation. The loading and unloading shall be carried out with utmost care. On receipt of material at site, it shall be carefully examined to detect any damaged pieces. Arrangements shall be made for expeditious replacement of damaged pieces/ parts. Materials found to be acceptable on inspections shall be repacked in crates and stored safely.
In the case of composite windows and doors, the different units are to be assembled first. The assembled composite units should be checked for line, level and plumb before final fixing is done. Units may be serial numbered and identified as out how to be assembled in their final locations if situation so warrants.
The contractor shall be responsible for assembling composite, bedding and filling the grove with polysulphide sealant inside and outside, at transoms and mullions placing the doors, windows etc. in their respective openings. After the doors/ windows have been fixed in their correct assigned position, the open hollow sections abutting masonry concrete shall be fitted with approved polysulphide sealant densely packed and finished neat.
The contractor shall be responsible for doors, windows, etc. being set straight, plumb, level

and for their satisfactory operation after fixing is complete.

Installation:

Just prior to installation the doors, windows, etc. shall be uncreated and stacked on edge on level bearers and supported evenly. The frame shall be fixed into position true to line and level using adequate number of expansion machine bolts, anchor fasteners, of approved size and manufacture and in an approved manner. The holes in concrete/masonry members for housing anchor bolts shall be drilled with an electric drill.

The door/ windows assembled as shown on drawings shall be placed in correct final position on the opening and marks made on concrete members at jambs, sills and heads against the holes provided in frames for anchoring. The frame shall then be removed from the openingand laid aside. Neat holes with parallel sides of appropriate size shall then be drilled in the concrete members with an electric drill at the marking to house the expansion blots. The expansion bolts shall then be inserted in the holes, struck with a light hammer till the nut is forced into the anchor shell. The frame shall then be placed in final position in the opening and

anchored to the support thought cadmium plated machine screws of required size and anchored to the support through cadmium plated machine screws of required size threaded to expansion bolts. The frame shall be set in the opening by using wooden wedges at supports and be plumbed in position. The wedges shall invariably be placed at the meeting at points of glazing bars and frame.

EPDM Rubber / Neoprene gaskets: The contractor shall provide and install EPDM Rubber / Neoprene gaskets of approved size and profile at all locations as shown and as called for to render the doors, windows etc. absolutely air tight and weather tight. The contractor shall produce samples of the gaskets for approval and shall procure the same after approval only.

Fittings: Hinges, stays, handles, tower bolts, locks and other fittings shall be of quality and manufacturer as approved by the Engineer-in-Charge.

Manufacturer's Attendance: The manufacturer immediately prior to the commencement of glazing shall adjust and set all windows and doors and accept responsibility for the satisfactory

working of theopening frames.

10.13. Poly-sulphide: The gaps between frames and supports and also any gaps in the door and windows sections shall be raked out as directed and filled with poly-sulphide of approved colour and make to ensure complete water tightness. The poly-sulphide shall be of such colour and composition that it would not stain the masonry/concrete work, shall receive paint without bleeding, will not sag or run and shall not set hard or dry out under any conditions of weather. The sample of poly-sulphide to be used for this purpose shall be got approved from the Engineer-in-Charge before its actual use.

Details of Test:

The various tests on aluminum sections shall be conducted in accordance with the relevant IS codes.

The minimum number of tests for anodizing/powder coating and corrosion resistanceshall be as given below: -

Sr. No.	Details	No. of Tests
1.	Doors, windows and ventilators	One test for every 1000 kg or part thereof.

12.15.3 The samples of major member of each unit of doors/ windows shall be selected at random by Engineer-in-Charge as such that all the aluminum section shall be got tested.

Acceptance Criteria: - The entire responsibility for the quality of work will however rest

with the building contractor only. The aluminum work shall carry Five years guarantee after completion of work against unsound material, workmanship and defective anodizing/ powder coating as per Guarantee Bond. Five years guarantee in prescribed Performa attached under **Page– 119 of Part B** must be given by the specified firm, which shall be counter signed by thecontractor, in token of his overall responsibility. **10% (ten percent) of the cost of these itemswould be retained as security deposit and the amount so deducted would be released after five years from the date of completion of the entire work under the agreement, if the performance of the items is found satisfactory.** If any defect is noticed during the guarantee period, the contractor should rectify it within seven days and if not attended to the same will be got done from another agency at the risk and cost of contractor. However, this security deposit can be released in full if bank guarantee of equivalent amount is produced and deposited with the department.

Rates: -

The rates of the item shall include the cost of materials, labour required in all the above operations.

The rates exclude the cost of stainless-steel friction hinges / stays selected for specified wind load and dead loads or specifically extruded in-built hinges, and rest of the fittings shall also be paid separately.

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

LIST OF FIELD TESTS

i) Particle size and shape
ii) Slump test
iii) Flakiness & Elongation Index tests
iv) Compressive strength (concrete or bricks) test
v) Bulking of sand
vi) Silt content of sand
vii) Temperature measuring with thermometer with brass protected end 0-200□ C

FIELD TESTING EQUIPMENT AND INSTRUMENTS

A. Testing Equipment at Field Laboratories

i) Balances
   a) 60 kg to 100 kg Capacity, Semi-self-indicating type-Accuracy 10 grams.
   b) 500 gm. Capacity, Semi-self-indicating type Accuracy 1 grams.

ii) Sieves: as per IS 460-1962.
   a) I.S. Sieves – 450 mm internal dia of sizes 100 mm, 80 mm, 63 mm, 50mm, 40 mm, 25 mm, 20 mm, 12.5 mm, 10 mm, 6.3 mm, 4.75 mm complete with lid and pan.
   b) IS Sieves – 200 mm internal diameter (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.

iii) Sieve shaker capable of 200 mm and 300 mm diameter sieves, motorized operated with timing switch assembly.

iv) Equipment for slump test – Slump Cone, Steel Plate, tamping rod, steel scale, scoop.

v) Graduated measuring cylinders 200 ml capacity

vi) Enamel trays (for efflorescence test for bricks and other tests)
   a) 300 mm X 250 mm X 40 mm
   b) Circular plates of 250 mm dia
   c) 600 mm X 450 mm X 500 mm
   d) 450 mm X 300 mm X 40 mm.

vii) Graduated cylinder 1000 ml. Capacity.
viii) Moisture meter
ix) Any other equipment for site tests as outline in BIS and as directed by the Engineer-in-charge.

B. Field Testing Instruments

i) Steel tapes – 3 m
ii) Digital Vernier Calipers
iii) Digital Micrometer Screw 25 mm gauge
iv) A good quality plumb bob
v) Spirit level minimum 30 cms long with 3 bubbles for horizontal vertical
vi) Wire gauge (circular type) disc.
vii) Foot rule
viii) Long nylon thread
ix) Magnifying glass
x) Screw driver 30 cms long
xi) Ball pin hammer, 100 gms
xii) Plastic bags for taking samples
xiii) Digital Distance meter
xiv) Leveling machine

xv) Theodolite

Note: The above list is only indicative and not exhaustive. (If the contractor fails to bring any of the equipment's mention under A & B of above necessary recovery shall be made from the contractor.

C. Minimum required T&P

Sr. No	Detail of T&P	Qty.	Remarks
1	~~Computerized~~ Batch mix plant of minimum capacity 8-10 cum per hour having moisture prove and automatic free water control system and printing facility	1 No.	The T&P should reach at site 5 days in advance of the requirement as per programme submitted by the contractor to the Engineer-in-Charge. This list is only indicative and Not exhaustive. Agency shall mobilize T&P as per site requirement and direction of Engineer-in-charge.
2	Plate Vibrator	1 No.	
3	Needle Vibrator (Electrically operated)	1 No.	
4	Needle Vibrator (Diesel/Patrol operated)	1 No.	

PROFORMA FOR TESTS CARRIED OUT

NAME OF THE WORK: DIVISION/
AGREEMENT NO.&DATE: SUB-DIVISION

Sl. No.	Item	Quantities as per agreement	Frequency as per specification	No. of tests required	R.A. bill No.	Upto date quantity	No. of tests required	No. of tests actually done	Remarks
1	2	3	4	5	6	7	8	9	10

Signature of Contractor

Correction – Nil,
Insertion – Nil,
Deletion – Nil AE(P) AE(C) EE(C)

CEMENT/PAINT REGISTER

NAME OF WORK: DIVISION

AGREEMENT NO. SUB-DIVISION

Particulars of Receipt

Date of Receipt	Source of receipt with details if any	Batch No.	Date of manufacture	Date of expiry	Qty. received	Progressive Total	Date of Issue	Qty Issued	Items of workfor which Issued	Qty. Returned at the end of day's work
1	2	3	4	5	6	7	8	9	10	11

Particulars of Issue

Net Qty. Issued	Progressive Total	Daily Balance in Hand	Contractor's Initial	A.E.'s Initial		Periodical Check	
						By AE	By EE
12	13	14	15	16		17	18

Correction – Nil,
Insertion – Nil,
Deletion – Nil AE(P) AE(C) EE(C)

<u>On non judicial stamp paper of minimum Rs. 100</u>.

(Guarantee offered by Bank to CPWD in connection with the execution of contracts)
(This form supersedes the form given in GCC – 2020)

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

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

OR**

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

2. We ... (Indicate the name of the bank) ..... (Herein after referred to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs..... (Rupees ..... only) on demand by the Government within 10 days of the demand.
3. We, (indicate the name of the Bank) ....., do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs..... (Rupees ..... only).
4. We, (indicate the name of the Bank)....., further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any Court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the contractor shall have no claim against us for making such payment.
5. We ... (indicate the name of the Bank)....., further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason

of any such variation or extension being granted to the said contractor or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said contractoror by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. We, (indicate the name of the Bank)....., further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the contractor and notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.
7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.
8. We, (indicate the name of the Bank)....., undertake not to revoke this guarantee except with the consent of the Government in writing.
9. This Bank Guarantee shall be valid up to ..... unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs..... (Rupees..... only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date: .....

Witnesses:

1. Signature.....
   Name and address

   Authorized signatoryName:
   Designation:
   Staff code no:
   Bank seal:

2. Signature.....
   Name and address

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

** In paragraph 1, strike out the portion not applicable. Bank Guarantee will be made either for earnestmoney or for performance guarantee/security deposit/mobilization advance, as the case may be.

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

GUARANTEE BOND TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OFSTONE WORK/ TILE WORK.

The agreement made this..... day of ..... (Two Thousand_____only) .....between .....S/o .....(hereinafter called the GUARANTOR of the one part) and the President of India (hereinafter called the Government of the other part)

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

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the affect that the said work will remain structurally stable and guaranteed against faulty workmanship, improper slope, finishing and materials.

NOW THE GUARANTOR hereby guarantee that work executed by him will be free from any material defects, structural defects, cracks, hollow pockets, improper slope, faulty joints etc. for **fiveyears** tobe reckoned from the date of completion of the work.

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

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

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

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

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

1. ..... 2. .....

SIGNED FOR AND BEHALF OF THE PRESIDENT OF INDIA BY.....in the presence of: -

1. ..... 2. .....

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

GUARANTEE BOND TO BE EXECUTED BY THE CONTRACTORFOR REMOVAL OF DEFECTS AFTER COMPLETION
IN RESPECT OF ALUMINIUM DOORS/ WINDOWS/ VENTILATOR WORK and UPVC Windows.

The agreement made this..... day of ..... (Two Thousand..... only) ..... between .....S/o .....(hereinafter called the GUARANTOR of the one part) and the PRESIDENT OF INDIA (hereinafter called the Government ofthe other part)

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

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the affect that the said work will remain structurally stable and guaranteed against faulty material and workmanship, defective anodizing/ powder coating for five years from the date of completion of work.

NOW THE GUARANTOR hereby guarantee that work executed by him will remain structurally stable and guaranteed against faulty material and workmanship, defective anodizing/ powder coating for five years to be reckoned from the date of completion of the work.

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

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

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

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

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

1. ..... 2. .....

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

1. ..... 2. .....

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

LIST OF PREFERRED MAKES FOR CIVIL WORKS

Name of work: Construction of Training Hall at TEC, Coffee Board, Koraput.

Specification/brands names of materials (Refer materials, whichever are applicable for the scope of work) and finishes approved by the ~~Architect~~/Engineer-in-Charge are listed below. However, approved equivalent material and finishes of any other specialized firms may be used, in case it is established that the brands specified below are not available in the market but only after approval of the alternate brand by the Architect/Engineer-in-Charge. (See also condition of contract).

Sl.No	Material Description	Material	
		Brand	**Make**
1	Ordinary Portland Cement(43 grade)/ PPC	ACC	ACC cements Ltd
		Ultra Tech	Ultra Tech Cement Ltd.
		Birla	Birla Corportion Ltd.
		Dalmia	Dalmia Cement Bharat Ltd.
		Jaypee Cement.	Jaypee Cement Ltd.
		J.K. Cement	J.K. Cement Pvt.Ltd.
		Konark Cement	Konark Cement
		Century Cement	Birla Gold Cement
		Ramco Cement	Ramco Cement Ltd.
		Penna Cement	M/s. Penna Cement IndustriesLimited
		Sagar Cement	Sagar Cement Ltd.
2	TMT bars Fe-500D / Fe-550D	SAIL	Steel Authoirty of India Ltd.
		TISCO	TATA STEEL Ltd
		VIZAG	Rastriya Ispat Nigam Ltd.
		JSW	JSW Steel Ltd
3	Plasticiser & Super Plasticiser	Contrament, Power Flow	MC Bauchemie (India) Pvt. Ltd.
		Sunanda Chemicals	Sunanda Chemicals Ltd.
		MYK Schomburg	MYK Arments Range ofProducts
		Plastiment, Sikament	Sika India Pvt Ltd.,
		Conplast SP430	FOSROC India
		Chryso-HP / Delta / Optima	Chryso India Pvt. Ltd.,
		BASF	BASF India Ltd
		CICO	CICO Industries
		Smart Care Techno Plast/Smart Care Maximo Plast	Asian Paints Ltd.
		Endura	H.R. Jhonsons
4	Adhesive	Dunlop	India Tyre & Rubber Co (India)Ltd.
		Vamorganic	Vamorganic Ltd.
		Sika	Sika India Pvt. Ltd
		Fevicol	Pidilite Industries
		Cico	Cico Technology Ltd.
		Proofex of Adhesive	FOSROC India Ltd.
		Kerabond Plus	MAPEI Construction ProductsIndia Ltd.
		Asian Paints	Asian Paints
5	Grout Compound/ Epoxy	Ardex	Ardex Endura Adhesive India

Correction – Nil,
Insertion – Nil,
Deletion – Nil AE(P) AE(C) EE(C)

	Grout		Pvt. Ltd
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		LATA POXY	MYK LATICRETE India Pvt. Ltd
		BASF	BASF India Ltd
		Fosroc GP2	Fosroc India Ltd.
		MYK Schomburg	MYK Arments Range ofProducts
		CICO	CICO Industries
		SIKA	Sika India Pvt. Ltd
		Fugabella, Porcelana	Kerakoll India Pvt. Ltd
		Dr. Fixit	Pidilite Industries
		Keraproxy	MAPEI Construction ProductsIndia Ltd.
		Weber	Saint-Gobin India Pvt. Ltd
		Asian Paints-Smart Care	Asian Paints Ltd
6	Prelaminted particle boardExterior Grade	Merino	Marino laminates
		Kitlam	Kit Ply Industires Ltd,
		TESA Action Co.	TESA Action Co.
		Ecoboard	Ecoboard Industries Ltd.
		Associate	Associate Décor Limited
		Archid ply	Archid ply industries Ltd.
		Centuary	Centuary MDF
		Green Lam	Green Lam Industries Ltd.
7	High Density (HDF) Prelaminated board	Green Ply	Green Ply Industries Ltd.
		Pergo	Red Floor India
		Armstrong	Armstrong world Industries
8	Gypsum board	Gyproc Saint Gobain	Saint Gobain Gyprock IndiaLtd.,
		Lafarge	Lafarge Gypsum India Pvt. Ltd
		USG Boral Board	USG Board India (P) Ltd.
		Armstrong	Armstrong wold Industries
9	Stainless steel screws	Kundan	Kundan Industries Ltd.
		Alloy	Alloy Ltd.
		GKW	GKW Limited
		Nettlefold	Nettlefold Screws
		Pooja	Pooja Steel Corportion
		Atul	Atul fasteners Ltd.
10	Butt Hinges openable window shutters	Hafela	Hafela India Pvt. Ltd.
		Earlt Bihari	Earlt Bihari India Pvt.Ltd.
		Dorma	Dorma India Pvt. Ltd
		Dorset	Dorset Industries Pvt Ltd
		Alu Alpha	Alu Alpha India
11	Mild Steel Butt Hinges /Piano hinges	Jolly	Jolly Engineering Works
		Supreme	Supreme
		Saswat	Saswat
		Deepak	Deepak
		Swift	Swift Screws
		Garg	D.P Garg & Company
		Amit	Lovely Metal Industries Pvt.Ltd.
		Jyoti	Jyoti Architectural Pvt Ltd.
		Prayag	Prayag Polymers (P) Ltd

Correction – Nil,
Insertion – Nil,
Deletion – Nil AE(P) AE(C) EE(C)

12	Stainless steel Butt hinges	Ozone	Ozone Hardware
		Dorma	Dormakaba India Pvt. Ltd.
		Geze	Geze GMBH
		Garg	D.P. Garg & Co.
13	PVC & UPVC doors, frames and windows	Fenesta	Fenasta DCM Shriman
		LG	LG Housys India
		Kommerling	Profine India Windowtechnology Pvt Ltd.
		Rehau	Rehau Unlimited PolymerSolutions
		Aluplast	Alu Alpha India
		Sintex	Sintex plastic technology Ltd,
		Duroplast	Duroplast extrusion Pvt Ltd
		Qute	Qute Extrusions Pvt. Ltd.
		Polyline	Polyline extrusion Pvt Ltd
		Rajshri	Rajshri Productions Pvt. Ltd.
		NCL VEKA	NCL VEKA Ltd.
		MARCOLINI	M/s Mathura Polypack Pvt Ltd
		VENSTER/OKOTECH	Aparna Enterprises Ltd
		ENCRAFT	M/s. ENCRAFT India Pvt Ltd
14	PVC Doors and Frames	Accucel	Accura Polytech Pvt.Ltd.
		Duroplast	Duroplast extrusion Pvt Ltd
		Polyline	Polyline extrusion Pvt Ltd
		Rajshri	Rajshri Productions Pvt. Ltd.
		Qute	Qute Extrusions Pvt. Ltd.
15	Stainless friction hinges	Hetich	Hetich India Pvt.Ltd.
		Haffle	Haffle India Pvt. Ltd.
		Securistyle	Securistyle India Pvt.Ltd.
		Earl Bihari	Earl Bihari India Pvt.Ltd.
		EBCO	EBCO
		ROTO	ROTO Frank Asia
16	Float Glass	Saint Gobain,	Saint Gobain India Pvt.Ltd.,
		Asahi	Asahi India Glass Ltd.
		Pilkinton	Pilkinton India Pvt.Ltd.
		Modiguard	Gujarat Guardian Ltd.
17	Dash fasteners	Hilti	Hilti India Pvt.Ltd.
		Fischer	Fischer India
		Anchor	Anchor Ltd
		Nutech	Nutech Construction Chemicals
		Canon	Canon
		Wuerth	Wuerth India Pvt. Ltd.
		Trixel	Axel India Pvt. Ltd.
		Helfen	Helfen Anchoring System
		BOSCH	BOSCH Ltd
		Kundan	Kundan Industires Ltd.
18	Structural Steel	SAIL	SAIL
		TISCO	TATA STEEL
		VIZAG	RINL
		JSW	JSW

Correction – Nil,
Insertion – Nil,
Deletion – Nil AE(P) AE(C) EE(C)

		Apollo	APL Apollo
19	M.S.Pipe, Tubes	SAIL	SAIL
		TISCO	TATA STEEL
		Apollo	APL Apollo
		Kalinga	Kalinga Tubes
		JINDAL	JSW
		Nezone	Nezone Tubes Limited
20	Stainless steel	Salem	SAIL
		Connect	Connect ltd.
		Ark Product Pvt. Ltd	Ark Product Pvt. Ltd
		Jindal	JSW
		SAIL	SAIL
		KINGSTON	KINGSTON Brass
21	Stainless steel Bolts, washers, nuts	Kundan	Kundan Industires Ltd
		Pooja	Pooja Steel Corrporation
		Atul	Atul fasterners Ltd
		Hilti	Hilti India Pvt. Ltd
22	Stainless steel pressure plate screws	Kundan	Kundan Industires Ltd
		Pooja	Pooja steel corporation
		Atul	Atul fasterners Ltd
23	Vitrified tiles	NITCO	NITCO Ltd
		RAK	RAK Ceramic India Pvt Ltd.
		Kajaria	Kajaria Ceramic Ltd
		Somany	Somany Ceramic Ltd
		Jhonson	Prism Jhonson Ltd
		Orient Bell	Orient Bell Ltd
		CERA	M/s. Cera Sanitaryware Ltd
24	Wall Putty	Birla White	Birla Corporation Ltd.
		JK White	JK Cement ltd.
		PAVIT (Eco Tile)	PAVIT Ceramics Pvt Ltd.
		Asian paints	Asian paints Ltd
25	Polycorbanate Sheet	MG Polyplast	MG Polyplas
		GE Lexon	GE Silicones
		Danpalon	Danapal Light architecture
		Alcox	Hindeggan Alcox Ltd.
		Polygal	Polygal India Pvt Ltd.
26	False ceilings	Aerolite	Andhra Polimers Pvt. Ltd.
		Armstrong	Armstrong World Industries
		Saint Gobain Gyproc	Saint Gobain Gyproc India
27	False Ceiling Members (Perimeter, Ceiling section, intermediates, angles etc.,)	Aerolite	Andhra Polimers Pvt. Ltd.
		Armstrong	Armstrong World Industries
		Saint Gobain Gyproc	Saint Gobain Gyproc India
28	Synthetic enamel Paint	Premium Gloss Enamel	Asian Paint Ltd.
		Dulex	ICI dulex Ltd
		Nerolac	Nerolac Paints Ltd
		Berger	Berger Paints
		Nippon	Nippon Paint India Ltd.
29	Pink primer	Wood primer	Asian paint

Correction – Nil,
Insertion – Nil,
Deletion – Nil AE(P) AE(C) EE(C)

		Dulex	ICI dulex
		Nerolac	Nerolac Kansia Nerolac Paints Ltd.,
		Berger	Berger Paints
		Nippon	Nippon Paint India Ltd.
30	Red Oxide Zinc Chromate primer	High performance yellow metalprimer	Asian paint
		Dulex	ICI dulex
		Nerolac	Nerolac
		Berger	Berger Paints
		Nippon	Nippon
31	Oil Bound Distemper	Tractor Aqalock	Asian paint
		Dulux (Maxilite)	Dulux
		MG Polyplast	Nerolac
		Berger (Bisom)	Berger Paints
32	Acrylic emulsion	(Asian) Tractor emulsion	Asian paint
		Premium Emulsion	Asian paint
		Dulux (Super Cover)	ICI Dulux
		Nerolac (Beauty Gold)	Nerolac
		Berger (Rangoli Total care)	Berger Paints
33	Water Proof Cement paint	Asian exterial wall primer	Asian paint
		Berger	Berger Paints
		Surfa	Surfacoats (India) Pvt. Ltd.
		ICI DULUX	ICI DULUX
		Cem Colour	Snowcem Paints
34	Acrylic smooth exterior paint	ACE	Asian paint
		Dulux	ICI dulux
		Apex	Asian Paints
		Nerolac	Nerolac
		Berger	Berger
		Nippon	Nippon
35	Premium Acrylic smoothexterior paint with silicon additives	ULTIMA	Asian paint
		Dulux	ICI dulux
		Nerolac	Nerolac
		Berger	Berger
		Surfex Rain Shield	Surfacoats
36	Cement based wall putty	J.K. wall putty	J.K. Cement Ltd.
		Birla wall care	Birla Cements Ltd.,
		Asian paints	Asian paints Ltd
		Altek	NCL Alltek & seccold Ltd.
		Berger	Berger
		Ardex Endura	Ardex Endura India Pvt. Ltd.
		Ferrous Crete	Ferrous Crete
37	Cement Primer	Asian paints	Asian paints
		JK Primaxx	JK Cement Ltd.
		Berger	Berger paints India Ltd.
38	Flushing Cistern	Hindware	HSIL Ltd.
		Bathsense	Asian Paints
		Kohler	Kohler
		CERA	CERA Sanitaryware Ltd.

Correction – Nil,
Insertion – Nil,
Deletion – Nil AE(P) AE(C) EE(C)

		Jaquar	Jaquar Group
		Parryware	ROCA Bath Pvt. Ltd
39	SWR PVC Pipes & fittings	Supreme	Superme Industires Ltd.
		Astral	Astral polytechnik Ltd.
		Finolex	Finolex Industries Ltd.,
		Flowgard	Ashirwad PVC Pipes
		Truflow	HSIL Ltd of Hindware
		Prince	Prince Pipes and fittings
40	Stainless Steel Kitchen sink	Hindware	HSIL Ltd
		Diamond	Pheonix Appliances Pvt. Ltd.
		Jindal	Centuary polytech
		Nilkanth	Nilkant
		Nirali	Jyoti (India) matel IndustriesPvt Ltd.
		Jhonson	Prision Jhonson Ltd.
		Silver shine	Blue stone sanitary Industries Pvt. Ltd.
		Joyna	Joyna
		Navkar	Shri Navkar Metals Ltd.
		Franke	Franke India Ltd.
		Futura	Futura Kitchen Sinks India Pvt.Ltd.
		CERA	M/s. Cera Sanitaryware Ltd
41	G I Pipes	TATA	TATA Steel Ltd.,
		Zenith	Zenith Birla (India) Ltd.
		HISSAR	HISSAR
		Jindal	Jindal Pipes Ltd.,
		Apollo	APL Apollo
42	G I Pipe fittings	Zoloto	Zoloto Industries
		Unik	Unik malleables
		HB	HB Industries
		ICS	Sgree samarth Engineers
43	Water supply Valves	Zoloto	Zoloto Industries
		leader	leader valves Ltd.,
		ARCO	Arco valves Pvt. Ltd.,
		Nanda	Nanda Miller company
44	CPVC pipes and fittings	Supreme	Supreme Industries Ltd.
		Finolex	Finolex Industries Ltd.
		Astral	Astral Polytechnik Ltd.,
		Prince	Prince Pipes and fittings Ltd,
		Truflo	HIS Ltd.
		Birla Aerocon	HIL Ltd.
		Ashirwad	Ashirwad PVC Pipes
		Flowgard	Flowgaurd
45	PVC / HDPE water storagetanks	Sintex	Sintex plastic technology Ltd,
		Vectus	Vectus Industries Ltd.
		Supreme	Supreme Industries Ltd.
46	Watersupply fixtures likebibcock, Shower panels	Hindware	HSIL Ltd.
		Parryware	Roca bath room products Pvt. Ltd,

Correction – Nil,
Insertion – Nil,
Deletion – Nil AE(P) AE(C) EE(C)

		Metro	Metro sanitations Pvt. Ltd.,
		Waterman	Kewal Brothers
		Seiko	Seiko Sanitations
		Prayag	Prayag polymers Pvt Ltd.,
		Kingston	Kingston brass India
		Johnson	Prism Jhonson Ltd
		MARC	MARK Showers
		Jaquar	Jaquar Group
		Ess Ess / Bathsense/Royal Asian Paints	Asian Paints
47	Air release valve	Kirloskar	Kirloskar brothers Ltd.,
		RBM	AFS Ltd.,
		Kartar	Kartar valves private Ltd.,
48	Centrifugally (Spun) Cast Iron	Lanco/Sripipes	Electrosteel castings Ltd.
		Jindal	Jindal saw Ltd.
		Keshoram	Keshoram Industries Ltd.
		Electrosteel	Electrosteel castings Ltd.
49	Spun cast iron fittings	Neco	Jayaswal Neco Ltd.
		Kartar	Kartar Valves Private Ltd.
		Electrosteel	Electrosteel castings Ltd.
		Kapilansh Centrifugal	Kapilansh Dhatu Udyog(P)Ltd.
		SKF brand	SINGHALIRON FOUNDARY Pvt. Ltd.,
50	CI double flange sluice valve	Kirloskar	Kirloskar brothers Ltd.,
		RBM	AFS Ltd.,
		Kartar	Kartar valves private Ltd.,
		IVS	Indian valves private Ltd.,
		Zoloto	Zolota Industries
		BURN	BURN
		Leader	Leader valves Ltd.
51	CI double flanged non returnvalve	Kirloskar	Kirloskar Brothers Ltd.,
		Fluidtech	Fluidtech
		Zolto	Zolota Industries
52	Gun metal Valves	Zolto	Zolota Industries
		Leader	Leader valves Ltd.
		Sant	Sant valves Pvt Ltd,
		Audco	L&T Valves
53	PTMT/PVC water supply sanitary fittings, bibcocks, pillar cock, Angle valve, StopValve	PEARL	Precision Products
		Prayag	Prayag Polymers (P) Ltd
		Supreme	Supreme Industries
54	RCC Pipes	Indian Hume Pipe	Indian Hume Pipe Ltd.,
		Madurai spun pipe	Madurai spun pipe company
		Lakshmi Sood & Sood	Lakshmi Sood & Sood Pipe Co.
		Jain & Co	Jain spun pipes Co.,
55	CI Manhole cover	Neco	Jayaswal Neco Ltd.,
		HEPCO	Binay Udyog Pvt. Ltd.

Correction – Nil,
Insertion – Nil,
Deletion – Nil AE(P) AE(C) EE(C)

		BIC	Bengal iron corporation
56	SFRC Cover and grating	KK	KK Manhole and gratings CoPvt Ltd.,
		Advent	Advent concrete vision
		Kutty	Kutty Industries
		Nu-TEC	Nu-Tech concrete products (P) Ltd,
		DEC	DEC I & P India Pvt. Ltd.
57	Plastic Encapsulated Foot Rest	KK India	KK Manhole and gratings CoPvt Ltd.,
		KGM	KGM Exports.
		Accurate Buildcon	Accurate Buildcon company.
58	Spun cast iron covers & gratings	Neco	Jayaswal Neco Ltd
		Jagannath	Sri Jagannath Iron Foundry Pvt. Ltd.
		Kapilansh Centrifugal	Kapilansh Dhatu Udyog(P)Ltd.
		SKF brand	SINGHALIRON FOUNDARY Pvt. Ltd.,
59	Aluminium doors/windowssections	Hindalco	Hindalco Industries Ltd.,
		jindal	jindal Aluminium Ltd.,
		Padmavathi Extrusion	Padmavathi Extrusion Pvt. Ltd.
		Hydro	Hydro Extrusion
		Omalco Extrusion	Omalco Extrusion Pvt. Ltd.
		Bhoruka	Bhoruka Aluminium Ltd.
		Indal	Indian Aluminium Ltd.
60	Aluminium systems/ Anodised aluminium fittings for doors/windows	Define	Define Overseas Pvt. Ltd.
		Schueco	Schueco India Pvt. Ltd.,
		Bhoruka	Bhoruka Aluminium Ltd.
		Kawneer	Kawneer India
		Hardima	Hardima sales corporation
		Everite	Everite Agencies
		Jyothi	Jyothi Industries
		Sigma	Sigma Corporation
61	Friction stay hinges	Earl Bihari	Earl Bihari Pvt. Ltd.
		KINLONG	Kinlong Industries
62	EPDM Gaskets	Anand	Anand NVH products (P) Ltd.,
		Roop	Roop Polymers Ltd.,
		Bohra	Bohra rubber Pvt. Ltd.
		Hanu	Hanu Industries
		Amee Rubber	Amee Rubber Industries Pvt Ltd.
63	Silicon Gaskets	Sree Gaurav	Sree Gaurav Rubber products
64	Masking Tapes	3M	3M
		Sun	Sun
		Wonder polymer	Wonder Tape Industries
		Roop	Roop Polymers Ltd.,
65	Water proofing compound	Fosroc	Fosroc India
		Ferrous Crete	Ferrpous Crete (India) Pvt. Ltd.

		Asian Paints	Asian Paints
		Sika	Sika India
		MYK Schomburg	MYK Arments range ofProducts
		Penetron	Penetron India Pvt. Ltd.
		Dr. Fixit	Pidilite Industires
		Ardex Endura	Ardex Endura (India) Ltd.
		Alchemica	Alchemica Ltd.
		Smart Care	Asian Paints
		Cementmix Plus/Advancedlatex plus	Berger paints
		CICO	CICO Technologies Ltd.,
		Shallplast LW+	STP Ltd.
		Mapecure AS/Mapecure E30/Mapecure ASE	M/s MAPEI ConstryctionsProduct India Pvt. Ltd.
		Impermo	Snowcem paints
		Accoproof	ACC cements Ltd.,
66	Membarane Water proofingsystem	BASF	BASF India Ltd.,
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		STP Ltd	Shalimar Tar Products
		MYK Schomburg	MYK Arments range ofProducts
		Asian Paints	Asian Paints
		Texsa	Texsa India Ltd
		Dr. Fixit	Pidilite Industires
		Alchemica	Alchemica Ltd.
		Ardex Endura	Ardex Endura (India) Ltd.
		Mapeplan TU S20/Planiseal 88/Planis eak 288	M/s MAPEI ConstryctionsProduct India Pvt. Ltd.
		Elastoroof PU/Sunroof PU/Sunkote	Sunanda Speciality Coatings Product India Pvt. Ltd.
		Hydro tech	Hydro tech Ltd
67	PVC Door Frames & Shutters	Rajshri	Rajshri Productions Pvt. Ltd.
		Plastiwood	Plasiwood
		Sintex	Sintex plastic technology Ltd,
68	Float Valve (Ball Valve)	Prayag,	Prayag Polymers (P) Ltd
		Leader,	Leader valves Ltd.
		Zoloto,	Zolota Industries
		IBP	IBP Industries
		Arco	Arco valves Pvt. Ltd.,
69	Aluminium Framework	MFE(MIVAN)	MIVAN
		S-Form	S-Form
		MFS	MFS
70	Galvolume sheet for roofingcladding sandwitch panel	Lloyd Metal Craft	Lloyd Industries
		Tata blue Scope	Tata blue Scope
		Bhusan	Bhusan Steel

		JSW	JSW
		Essar	Essar Group
71	C.P. Brass Fittings	Hindware	HSIL Ltd
		MARC	MARC Sanitaion Pvt Ltd.
		Parryware	Parryware Sanitaryware
		Jaquar	Jaquar Group
		Kingston	Kingston Brass India Pvt. Ltd.
		Johnson	Prism Jhonson Ltd
		ESS ESS, BATHSENSE & Royal	Asian Paints Ltd
		KEROVIT	M/s Kajaria Ceramic Limited
		CERA	M/s. Cera Sanitaryware Ltd.
72	White cement	J.K.	JK Cement Ltd.
		Birla	Birla Corportion Ltd.
		Travancore	Travancore Cements Ltd.
73	Shuttering ply	Green ply	Greenply Industries Limited
		Grassim ply	Shree Ram Industries
		Archid ply	Archidply Industries Ltd
		Green panel	Green panel Industries Limited
74	Powder coating	Jotun	Jotun Group
		Akzonoble	Akzonoble Coating Ltd.
		Berger	Berger Paints India Ltd
75	PVDF coating	Akzonoble	Akzonoble Coating Ltd.
		Valspar	Valspar India CoatingCorporation Ltd
76	Anti-Termite Treatment (PostConstruction)	Pest	Pest control India Ltd
		Godrej pest	Godrej Pest Control
		Capital pest	Capital pest control (India)
77	UPVC Hardware	DNV	DNV Global Pvt. Ltd
		HOPPE	HOPPE
		PULSE	LGF SYSMAC (India) Pvt. Ltd.
		COAR	COAR
78	Overdeck insulation with extruded polystrene board(XPS board)	Owenscorning	Owenscorning
		Supreme petrochemical ltd	Supreme petrochemical ltd
		Dowcorning	Dowcorning
79	Heat resistant tiles on terrace	Swastik	Swastik Tiles
		Thermatek	Thermatek
		ABC Ceramics	ABC Ceramics
80	Fibre glass acoustical wall panelling	Decosonic	Decosonic
		Armstrong	Armstrong
		Ecophone (Saint Gobin)	Ecophone (Saint Gobin)
		Aeroceil	Aeroceil
		Anutone	Anutone
81	Non-Shrink Flowable Cementitious Grout	Teemax Grout TP-1	Teemage Builders(P) Limited

82	Paver Block	Parmeshwari	M/s Parmeshwari Enterprises
		BHUASUNI PRECAST	BHUASUNI PRECAST PVT LTD.
		Lakshmi Tiles	Lakshmi Tiles
83	Wooden Flush door shutters	Archiply	Archiply
		Century	Century Flush Doors
		Greenlam	Greenlam Ply Industries Ltd
		Jain doors Pvt.Ltd.	Jain doors Pvt.Ltd.
		Jayna Flush Doors	Jain Wood Industries
		Kitply	Kitply Industries Ltd.
		Duro Flushdoors	Dura Ply industries Ltd.
		Indian Timber Products	Indian Timber Products
		Mayur	Mayur Ply industries
84	WoodPolymer composite material for door frames and shutters, plain/pre laminated boards for wall linings etc.	Alstone	Alstone Industries Pvt., Ltd., Jaipur, Rajastan.
		Century	M/s Century Ply Boards (I) Limited
		Green ply	Greenply Industries Limited
		Qute	Qute Extractions Pvt.Ltd., Chennai.
		Rajasree	Rajeswari Products Pvt.,Ltd., Madya Pradesh.
		Ecoste	Ecoste wood polymer composite, Delhi
		Echon	Kumar Arch Tech, Pvt.Ltd., Rajastan

* **Batch test certificate of Paints and Primer shall be supplied along with each lot.**
* **The above list is indicative but not exhausted.**
* **In case of items not available in above list or any make or brand or manufacturer are not available, the NIT approving authority shall approve additional make/brand/model/service number in the best interest of work**

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

PART - C
ELECTRICAL (E &M) Works and Make

CHAPTER: 1

General Information for Electrical Works

Name of work: **Construction of Training Hall at TEC, Coffee Board, Koraput**.

The Construction of Training Hall at TEC, Coffee Board, Koraput intends to provide E&M services and civil works, through this call of tender. This E&M works comprising of packages C1deals with Electrical and Mechanical Services as below.

For all services the detailed drawings for execution of work to be prepared by the contractor based on the BOQ(inventory) and specification of NIT and submit to EE Elect in charge before execution of the work.

The Estimated cost of different Electrical and Mechanical services are as below.

Sl. No.	No. and Name of Packages	Estimated cost(In INR)
1	C1 - INTERNAL EI	4,98,542.00

CHAPTER: 2

GENERAL CONDITIONS FOR ALL E&M PACKAGES

2.1 The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the tender and the tenderers shall be bound to perform the same at the rate quoted. In such case, the Department also reserves the right to award the balance part of the tender and / or any other contracts to other agencies at the sole discretion of the Department. The decision of the Department in this regard shall be final and binding on the contractor and no claim of whatsoever nature shall be entertained from the contractor on this account.

2.2 The Contractor shall assume all liability, financial or otherwise in connection with his 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 reason whatsoever and shall himself defend all actions arising from such claims and shall keep the department saved harmless and indemnified in all respect from such actions, costs and expenses. Nothing extra shall be payable on this account.

2.3 Before commencing the work, the Contractor shall, without in any way limiting his obligations and liabilities, insure at his own cost and expense against any damage or loss or injury, which may be caused to any person or property. Nothing extra shall be payable on this account.

2.4 The Tenderer may, before submission of the tender, inspect the CPWD specifications in the office of the Engineer-in-Chargeor available on CPWD website. The department shall not bear responsibility for the lack of knowledge and also the consequences thereof to the Contractor. The information and data shown in the drawings and mentioned in the tender document have been furnished in good faith and 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 and no claim, whatsoever, shall be entertained from the Contractor, if the data or information furnished in tender document is different from data / drawing for actual construction issued after the award of work or in-correct otherwise. It is presumed that the Contractor has satisfied himself for all possible contingencies, situations, bottlenecks and acts of coordination, which may be required between different agencies.

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

2.6 QUALITY ASSURANCE:

The Contractor shall make available, on instruction from the Department, for record, copies of original challans, GST Bill, Purchase order, cash memos, receipts and other certificates, if any, vouchers towards the quantity and quality of various materials procured and the same shall be kept in record. These shall also provide information on the name of the manufacturer, manufacturer's product identification, manufacturer's instructions, warning, date of manufacturing and test certificates from manufacturers for the product for each consignment delivered at site, shelf life, if any, for the department to ensure that the material have been procured from the approved source and of the approved quality, as directed by the Engineer-in-Charge. Day to day account of receipt of such material shall be maintained at site of work and shall be regulated by the department. Nothing extra shall be payable on this account.

2.7 STORAGE,WATCH AND WARD OF MATERIALS:

Storage, watch and ward and safe custody of all materials and its installation shall be the sole responsibility of the Contractor till it is handed over to the client. Nothing extra shall be payable on this account.

2.8 QUALITY CONTROL AND TESTING OF MATERIALS:

The materials shall be procured only from the manufacturers and their authorized dealers and documentary proof for such procurement and supply shall be produced by the contractor. The department reserves the right to send such materials to the manufacturers / authorized test laboratory to verify the genuineness and quality of the product.All the material to be used on works shall bear ISI certification mark unless otherwise the make is specified in the item or special conditions appended with this tender document. In case ISI mark material or the materials mentioned in the tender documents are not available, as per opinion of Engineer-in-charge, which shall be final and binding, the material to be used shall conform to CPWD specifications applicable in this tender or IS Code. In such cases Engineer-in-charge shall satisfy himself about the quality or such material and give his approval in writing. Only articles classified as first quality by the manufacturers shall be used unless otherwise specified. All material not having ISI mark shall be tested as per relevant ISI specification. The Engineer in charge may relax the condition regarding testing if the quantity of the materials required for the work is small. In all cases of use of ISI marked materials proper proof of procurement of materials from authentic manufacturers shall be provided by the contractor to the entire satisfaction of Engineer-in-charge. All materials equivalent to the one specified should be got approved by the Engineer-in-charge before using the said materials in the work.

2.9 If the department desires to send any samples of materials for testing in an accredited laboratory, the Contractor at his own expense shall supply all materials, labour for preparing and testing samples as required by the Engineer-in-Charge. The testing shall be carried out in the presence of the representative of the Engineer- in- Charge. The testing charges shall be borne by the Agency only of the relevant specifications. If the results show that the samples do not satisfy the relevant specification, the testing charges shall be borne by the contractor.

2.10 No foreign exchange shall be made available by the department for importing (purchase) of equipment's, plants, machinery, materials of any kind. No delay and no claim of any kind shall be entertained from the Contractor on account of variation in the foreign exchange rate and/or any Custom duties / charges or any other levies.

2.11 COORDINATION WITH OTHER AGENCIES

The Contractor shall conduct his work so as not to interfere with or hinder the progress or completion of the work being performed by other Contractors or by the Engineer in charge and shall as far as possible arrange his work and shall place and dispose of the materials being used or removed so as not to interfere with the operations of other Contractors or shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of others.

2.12 **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 thecontract.

2.13 The work shall be carried out in engineering like manner and bad workmanship shall be rejected summarily. For redoing the job, no claim of the contractor shall be entertained on this account.

2.14 The contractor or his authorized representative shall record online hinderance and comply with the instruction issued therein by the representative of the Department.

2.15 The contractor will ensure that all the skilled persons managed / deployed for executing the electrical work possess wireman license issued by approved authorities. Consequences arising due to the default of the contractor to comply with this condition would be contractor's responsibility only.

2.16 The contract shall submit the completion certificate and completion plan as per Clause 1.26 of General Specifications for Electrical Works Part-I, Internal 2023 amended up to a day before the last date of bidding.

2.17 The contractor will have to arrange for insulation, resistance, conductivity IR scanning and other tests as per rules in the presence of the representative of Engineer-in-Charge as and when required by him and submit the test report in triplicate before the work can considered as complete.

2.18 The contractor shall be responsible for the safe custody of the electrical installation in the building, including fitting and fixtures till the installations handed over to the department. He should make his own arrangement for proper watch and ward at his risk and cost. No claim will be entertained on this account.

2.19 The work is to be carried out in workman like manner and generally in accordance with the plans. However the contractor will be bound to carry out the work with minor deviation over the plan supplied if desired by the Engineer-in-Charge of the work.

2.20 **Electric Power Supply and Water Supply:**
It is the responsibility of the contractor to arrange required power supply and water supply for installation and testing purposes during the contract period. Nothing extra shall be paid on thisaccount.

2.21 SUPPLY OF MATERIAL:
Contractor shall provide the latest model of the equipment's meeting minimum requirement spelt out in BOQ and specifications .The date of the manufacturing of all the equipment's brought to site should not be more than One Year from the date of receipt of the material at site. The contractor has to submit the GST bills with the original vouchers. The contractor must plan to supply the material at site maximum 2 months before the use of all the E&M materials at site. From the progress of the work this must be evaluated and Engineer In charge must access the same before release of payment of material. This is based purely on engineering judgment of Engineering in Charge. However the decision of Engineering in Charge is final in this regard.TheQty taken in SOQ are based upon estimate prepared by Department and are indicative. Only the required qty, as worked out by contractor and approved by Department shall be brought at site and paid. Any surplus quantity brought by contractor to site, need to be taken back by the contractor without any implication to the department. Contractor shall CHECK/VERIFY DESIGN and Quantity THOROUGHLY, and suggestions for improvement (additionaland Deviations) enclosing full justification be given within 3 months from award of work for consideration by department. Orders for such additional items/deviated quantity be placed on suppliers only after getting written confirmation from Department.The renderers shall take into account the element of wastage(s) those are likely to be there in all elements of the work and quote his price, taking that into account. The renderers shall study all the items from the point of view of wastage(s), which are likely to take place.

2.22 **SITE COORDINATION, REVIEW MEETINGS AND JOINT INSPECTION**:
Frequent review and Coordination meeting shall be held at site by representatives of CPWD, which shall be attended by the Contractor or his appropriate representative.

2.23 **SAFETY CODES AND LABOUR REGULATIONS**

i. All the staff and worker engage for the job shall wear proper badge indicating name of the contractor, name of the person, designation.
ii. While working or inspecting at site staff / worker shall wear safety helmet and safety shoes also if require.
iii. In respect of all labour employed directly or indirectly on the work, the contractor at his own expense, will arrange for the safety provisions as per the statutory provision, B.I.S. recommendations, factory act, and workman's compensation act. CPWD code and instructions issued from time to time. Failure to provide such safety requirements would make the tenderer liable for cost consequences.

iv. The contractor shall provide necessary barriers, signals and other safety measures while laying pipelines, cables etc. or wherever necessary so as to avoid accident. He shall also indemnify CPWD against claims for compensation arising out of negligence in this respect. Contractor shall be liable, in accordance with the Indian law and Regulations for any accident occurring due to any cause. The department shall not be responsible for any accident occurred or damage incurred or claims arising there form during the execution of work. The contractor has to cover the risk. No extra payment would be made to the contractor due to the above provisions thereof.

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

2.24 **COMPLETION**:

The work will be considered as compete only after complete energisation of all E&M Systems and issue of test results as per CPWD specifications after completion of all work. It is the responsibility of agency to arrange and provide power for testing and commissioning also. Warranty of E&M systems will be reckoned from the date of successful energisation and testing of each component of E&M system as per CPWD specifications and handingover of the systems to client. The PG and SD will be released only after successful energisation of all E & M systems confirming to requirement of CPWD specifications.

i. When the whole of the Works have been substantially completed and have satisfactorily passed any Tests on Completion prescribed by the Contract, the Contractor may give a notice to that effect to the Engineer-in-charge. Such notice and undertaking shall be deemed to be a request by the Contractor for the Engineer to issue a Taking-Over Certificate in respect of the Works. The Engineerin-charge shall, either issue to the Contractor, a Taking-Over Certificate, stating the date on which, in his opinion, the Works were substantially completed in accordance with the Contract, or give instructions in writing to the Contractor specifying all the work which in the Engineer-in-charge's opinion, is required to be done by the Contractor before the issue of such Certificate. The Engineer-in-charge shall also notify the Contractor of any defects in the Works affecting substantial completion that may appear after such instructions and before completion of the Works specified therein. The Contractor shall be entitled to receive such Taking-Over Certificate, to the satisfaction of the Engineer-in-charge, of the Works so specified and remedying any defects so notified.

ii. Taking-Over of Sections or Parts: Similarly, in accordance with the procedure set out in Sub-Clause the Contractor may request and the Engineer-in-charge may Takeover (a) any section or (b) any substantial part of the Permanent Works which has been both completed to the satisfaction of the Engineer-in-charge and, otherwise than as provided for in the Contract, occupied or used by the Employer, or (c) any part of the Permanent Works which the Employer has chosen to occupy or use prior to completion (where such prior occupation or use is not provided for in the Contract or has not been agreed by the Contractor as a temporary measure).

iii. Substantial Completion of Parts: If any part of the Permanent Works has been substantially completed and has satisfactorily passed all Tests on Completion prescribed by the Contract, the engineer may issue a Taking-Over Certificate in respect of that part of the Permanent Works before completion of the whole of the Works.

CHAPTER – 3

ADDITIONAL CONDITIONS (GENERAL) FOR ALL E&MPACKAGES

3.1 Unless otherwise specified following specifications shall be followed for the E & M works:

1) CPWD General Specifications for Electrical Works Part I Internal – 2023, amended upto date.
2) CPWD General Specifications for Electrical Works Part II External – 2023, amended upto date.
3)Local bye laws of Odisha.

Any additional item of work, if taken up subsequently, shall also confirm to the relevant CPWD specifications mentioned above.

3.2 Should there be any difference or discrepancy between the description of items as given in the schedule of quantities, particular specifications for individual items of work (including special conditions) and I.S. Codes etc., the following order of preference shall be observed:

1) Description of items as given in Schedule of quantities.
2) Particular specifications and Special conditions
3) Drawings
4) General Conditions of Contract for CPWD works and CPWD Specifications including correction slips issued up to last date of submission of bid.
5) Indian Standard Specifications of B.I.S.
6) Manufacturer's specifications and as decided by the Engineer-in-Charge.
7) Sound Engineering practices or well established local construction practices.

However, in such case, the matter shall be brought to the notice of Engineer in Charge and the decision of the Engineer-in-Charge shall be final.

3.3 Taxesandduties

- The work shall be treated on indivisible works contract basis and the rates tendered shall be for complete items of works inclusive of all taxes, duties, and levies etc. and all charges for items contingent to the work, such as packing, forwarding, insurance, freight and delivery, installation, testing, commissioning etc at site i/c temporary constructional storage, risk, overhead charges, general liabilities/ obligations etc.
- GST for the work shall be included within the quoted rates for the various items.
- All Statutory deductions as applicable rates will be made from the Contractors bill.

3.4 INSPECTION OF SITE

The Contractors are advised to inspect and examine the site and its surroundings and satisfy themselves with the nature of site, the means of access to the site, the constraints of space for stacking material / machinery, labour etc. constraints put by local regulations, if any, weather conditions at site, general ground / subsoil conditions etc. or any other circumstances which may affect or influence their tenders. The site is available for work.

The contractor shall, immediately on issue of letter of acceptance of tender, make arrangements for starting the work.

3.5 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 respect. 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 incidentalworks dueto 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 is 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.

3.6 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.

3.7 All ancillary and incidental facilities required for execution of work like labour camp, stores, fabrication yard, offices for Contractor, watch and ward, temporary ramp, temporary structure for plants and machineries, installation and consumption charges of temporary electricity, telephone, water etc. required for execution of the work, liaison and pursuing for obtaining various No Objection Certificates, completion certificates from local bodies etc., protection works, barricading, testing facilities / laboratory at site of work, facilities for all field tests and for taking samples etc. during execution or any other activity which is necessary (for execution of work and as directed by Engineer-in-Charge), shall be deemed to be included in rates quoted by the Contractor, for variousitems in the schedule of quantities. Nothing extra shall be payable on these accounts.

3.8 INTEGRATED PROGRAMME CHART

Submission of program Within stipulated time for completion from the date of receipt of the letter of award, the successful tenderer shall submit his broad program/Master Bar Chart for submission of drawings, supply of equipment at site, installation, testing, commissioning and handing over of the installation to the Engineer-in–charge. This program shall be framed keeping in view the building progress and the milestones fixed in Schedule 'F'. In case department desires some changes in the same, contractor shall do the same. Once the broad program/Master Bar Chart is agreed by Department, Contractor shall make a detailed activity schedule/CPM–PERT chart and the same shall be submitted to department. Department may insist on re-planning some of the activities

3.9 INTEGRATED SERVICE DRAWINGS

i. Contractors shall prepare working drawing for each service as per CPWD General Specifications and local bye laws for the respective work and conflict if any with water Plumbing lines and Sewage water lines be resolved by contractor himself by reworking the route of one or more services as required.The drawing should be dully signed by the Engineers as per clause 32 of GCC.

ii. Contractor shall check the structural requirement for mounting/positioning of equipments i/c Electrical Panels etc. and inform the department for missing Architectural provisions, if any at the earliest.

iii. While preparing working Drawings, care shall be taken to provide flexible/expandable material to take care of Thermal variations/ seismic vibration/ climatic changes. Reflected ceiling plan, all E&M services drawings layout, schematic GA drawing must be submitted before line start of work. Nothing extra shall be payable on this account.

3.10 PROCEDURE FOR APPROVAL OF MATERIALS, SHOP FLOOR DRAWINGS AND COMMENCEMENT OF WORK

Within prescribed time period as per the mile stone the contractor shall visit the site and submit following documents for approvalList of makes & Model numbers of all items of equipments and accessories for Packages C1.Catalogues of the equipment to be suppliedalong with design details, Technical specificationPumpsafety certifications etc. as required for each product.

Shop floor drawings of each package separately for approval. It is the responsibility of the tender to get the makes, models and shop floor drawings approved by the department. The makes and models offered should be as per the specification and BOQ of the NIT. The decision of Engineer-in –charge is final in this regard. The materials can be brought to site only after the due approval of drawings, makes, models from the department only.

3.11 SUPERVISION OF WORK:

The Contractor shall depute Site Engineers & skilled workers as required for the work strictly as per clause-32.The agency must submit all document proof for the deployment of engineer as per clause 32. A register for labour must be kept at site for E&M daily daily deployment of labour against each services. The Signature of the Engineers as per clause 32 must be submitted against his photograph and name and power of attorney should be given to them. Submission for acceptance of all technical instruments including drawings. The Contractor shall identify and deploy key persons having qualifications and experience in the similar and other major works, as per the field of their expertise. If during the course of execution of work, the Engineer-in-Charge is of the opinion that the deployed staff is not sufficient or not well experienced; the Contractor shall deploy more staff or better-experienced staff at site to complete the work with quality and in stipulated time limit.Engineers so deployed shall not be allowed to be changed during the execution period without written approval from Project Manager in exceptional circumstances.

3.12 SPECIALIZED AGENCIES:

The bidder should either himself meet the eligibility conditions for the specialized civil & E&M works as above or otherwise he will have to associate an agency meeting the eligibility requirements for specialized civil & E&M works after award of work and has to submit details of such agency(s) conforming eligibility conditions as defined in the bid document to the Executive Engineer of concerned component withinone months after the award of work. Names of the agency(s) to be associated shall be approved by the competent authority.

3.13 PROTECTIVE / SAFETY MEASURES:

Necessary protective and safety equipment's shall be provided to the Site Engineer, CPWD staff workers & Supervisory staff by the Contractor at his own cost and used at site.

3.14 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.

3.15 TOOLS AND PLANTS DETAILS:

No tools and plants including any special T&P etc. shall be supplied by the Department 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.

3.16 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.

3.17 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.

3.18 VIBRATION ISOLATION: All the Equipment's, pipes, fittings shall be installed in fashion to isolate their vibration using best Engineering Practice materials/support for vibration isolation. Special care to be taken for ceiling suspension fans / equipments.

3.19 Energy and water conservation is the theme of the construction.Hence all the equipment selected should be energy and water efficient. All motor for pumps and fans should be

IE-3 class.(Except the main electrical fire pump motor and drainage pumps which can be of lower class).

3.20 SEISMIC AND TEMPERATURE CONSIDERATION: Flexible Couplings/ joints shall be used, wherever required, to take care of seismic considerations and temperature variations during operations /whether change for that land.

3.21 SUBMISSION OF AS BUILT DRAWINGS:

The Contractor shall submit 3 sets of "AS BUILT" drawings, for all packages (laminated hard copies + soft copy) on completion of the work.

3.22 DEFECT LIABILITY PERIOD

The defect liability / free maintenance period shall be 12 months after the date of completion of work of this contract agreement.

3.23 PAYMENT TERMS FOR E&M PACKAGES:

On account payments for part work (After stipulated and statutory deductions) as assessed by the Engineer-in-Charge for the applicable items in the contract shall be payable at part rate not exceeding the percentage indicated against the stages of work.

A] Items connected with point wiring, circuit wiring, sub-main wiring, power point wiring and light plug wiring.

S. N	Stage of work	Percentage of Rate
A	On laying of conduits with accessories, switch boxes, etc.	35%
B	On drawing of wires i/c terminations, switches, sockets, cover plates etc.	35%
C	On completion of installation, testing and commissioning.	20%
D	At the time of payment of final bill.	10%

All other items of E & M Services

S. N	Stage of work	Percentage of Rate
A	On initial inspection of material and delivery at site in good condition on pro-rate basis.	70%
B	On completion of installation on pro-rate basis.	20%
C	On completion of testing and commissioning.	10%

For other items, the part rates will be decided by the Engineer-in-Charge of the work and shall be binding on the contractor.

3.24 WORKS TO BE DONE BY THE CONTRACTOR:

The Contractor shall execute the work on the basis of working drawings, prepared by contractor and approved by department. All Variations, i.e. additions, omissions or substitutions necessitated at any time for any reason whatsoever, shall be deemed to have been accepted by the Contractor as not vitiating the performance based nature of this contract. If any such variations, irrespective of whether such variations are intended to be

executed by other agencies employed by the Engineer-in-charge, have any bearing on the performance of this Contract, the same shall immediately be brought to the notice of Engineer-in-charge by the Contractor in writing. In any case the Contractor shall have to guarantee for due and proper performance of the works agreed to be so erected. Unless otherwise mentioned in the tender documents, the following works shall be done by the contractor and therefore, their cost shall be deemed to be included in their tendered cost-whether specifically indicated in the schedule of work or not:

i. All sundry equipments, fittings, assemblies, accessories, supports,suspenders,bracket, termination lugs for electrical connections, cable glands, junction boxes and all other items which are useful and necessary for proper assembly and efficient working of the various equipments and components of the work
ii. Foundations for equipments including foundation bolts and vibration isolation spring/pads.
iii. Sealing of all floor slab/wall openings provided by the Department or made by the contractor for lying of pipes, ducts and cables, form fire safety points of view.
iv. Painting of all exposed metal surfaces of equipments and components appropriate color as per relevant part of bid document.
v. The contractor shall provide at his own cost suitable weighing, measuring and leveling equipments at site for checking the weight, dimensions and levels as may be necessary for execution of the work.
vi. Making opening in the wall/floors. Slabs or modifications in the existing openings wherever provided for carrying ducts/cable/cable tray etc. Opening in the slab/retaining walls/brick wall etc. shall be made by means of core cutting machines only.
vii. All electrical works including cable/wires, earthing etc. beyond power supply made available by the department.
viii. Existing drains, pipes, cables, overhead wires, sewer lines, water lines and similar services encountered in the course of the execution of the work shall be protected against the damage by the contractor at his own expense. The contractor shall not store materials or otherwise occupy and part of the site in a manner likely to hinder the operation of such services.Making good all damages caused to the structure during installation and restoring the same to their original finish up to the satisfaction of Engineer –in-Charge.
ix. Contractor shall obtain all local / statutory approvals required as per rule of land before Fire Pre NOC, Local body approval start of work and after completion of the work. No completion shall be recorded before taking all these approvals.(The contractor's responsibility shall be limited to the work executed by him.) and Central Authorities like CFO, CEA, Municipalities and Authorities. All the statutory payments will be paid by the agency and will be reimbursed by the department after submission of original challan /receipt.
x. 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 leviable to start the work. There will be no reimbursement of such payment.
xi. The contractor shall give due notices to Municipality, Police and /or other authorities that may be required under the law/ rules under force in the and obtain all requisite licenses for temporary obstructions/ enclosures and pay all charges which may be

leviable on account of his execution of the work under the agreement. Nothing extra shall be payable on this account.

3.25 INITIAL INSPECTION AND TESTING:

i. All equipment shall be tested at manufacturer's Works as per latest relevant EN/BS/BIS/CPWD specifications. Approved testing methods shall be followed and Test Certificates/ Reports submitted to the Engineer-in-charge.

ii. In case of material requiring witnessing Factory Inspection by Department, as mentioned in the list of approved makes. The contractor shall intimate in advance the probable date of such tests to the Engineer- in-charge to enable their representatives to witness the tests if they so desire. The contractor shall give sufficient advance notice 02 months testing regarding the dates proposed for such tests to the department's representative(s) facilitate his presence during testing. The Engineerin- Charge at his discretion may witness such testing. Equipments will be inspected at the manufacturer/authorized dealer's premises, before dispatch to the site by the contactor.

iii. The department also reserves the right to inspect the fabrication job at factory and the successful contractor has to make arrangements for the same. The materials duly inspected by Engineer-in-Charge or his authorized representative shall be dispatched to site by the contractor.

iv. No additional payment shall be made to the contractor for initial inspection /testing at the manufacturer's works by the representative of the Engineer-in-Charge. However, the department will bear the expenses of its representative deputed for carrying out initial inspection/testing.

v. The Contractor shall leave necessary provisions required for fixing instruments, gauges, meters, etc. for testing the installation even if these are not shown on the drawings. All such instruments, services etc. needed for the tests shall be arranged by the Contractor at his own cost.

vi. It is the sole responsibility of Contractor to obtain all the necessary approvals from the statutory authorities, either prior to, during or after installation as required. All tests specified herein-after and witnessed/ approved by Engineer-in-charge, may be deemed to be invalid at the option of Engineer-in-charge, if the requisite, final and unconditional approvals from the concerned statutory authorities are not obtained by the Contractor. Obtaining CEA clearance as per norm, DG sets ,Fire clearance from state authority for fire protection system and other clearance as applicable.

vii. The Contractor shall intimate in writing to Engineer-in- charge as and when individual components of the installation are ready for tests required for further progress of erection. All such tests shall be carried out as per these specifications and/ or as directed by Engineer-in-charge and recorded in the presence of Engineerin-charge or his authorized representatives.

viii. The Contractor shall intimate in writing to Engineer-in- charge, the proposed date of initial startup. The Contractor shall, on approval of Engineer-in-charge, proceed with necessary pre-commissioning activities and tests and put the installation initial operation and start- up during which preliminary adjustments and addressing shall be carried out.

ix. Based on preliminary observations during the initial operation described above, necessary modifications/ repairs/ replacements/ etc. if any shall be carried out by the Contractor to

the entire satisfaction of Engineer-in- charge. On successful completion of initial operation, the Contractor shall proceed with trial runs.

x. Notwithstanding approval of tests or equipment or materials by Engineer-in-charge etc., up to the tests in static state as described here-in above, the Contractor shall be required to perform site tests to prove correctness of ratings and performance of equipment and materials supplied and installed by him, in normal operating condition.

xi. All equipment shall be capable of performing the duties specified in these specifications without damage, distortion or failure of any component.

xii. The performance of various equipment individually shall not be less than quoted ratings and consumption of power shall not exceed the ratings quoted by the tendered, when tested in normal operating condition. Otherwise the equipment / material are liable for rejection.

xiii. All test instruments shall be calibrated by contractor at his cost for accuracy prior to taking the performance tests.

xiv. Failing satisfactory performance of equipment and/ or overall installation after rectification etc. as stated above, the Engineer– in-Charge, at his sole discretion, reserves the option of charging liquidated damages for such non-performance or demand supply and installation of new installation all at no extra cost to Engineerin Charge or demand for full refund of all "On Account" payments made to the Contractor for that part of the work which has failed to perform, and the Contractor shall be obliged to do so as directed by the Engineer-in- Charge.

xv. Contractor shall ensure that all the relevant local body approvals are obtained before start of work like Pre Fire NOC, local body approval etc.

3.26 **FINAL INSPECTIONS AND TESTING:**

i. Final Inspection and testing will be done by the Engineer-in-Charge or his representative as per details indicated in relevant section of Technical Specifications.

ii. The installation will be offered for inspection by local bodies (Chief Fire Officer, Lift Inspector, Environmental, Green Building Certification agency, Electrical Inspector, Labour Inspector etc.). The contractor or his representative shall attend such inspection, extend all test facilities as are considered necessary, rectify and comply with all observations of the Chief Fire Officer which are part of the agreement and arrange for obtaining necessary clearance certificate in favor of department. In case contractor fails to attend the inspection and make desired facilities available during inspection, the department reserves the right to provide the same at the risk and cost of the contractor and impose penalty for the same. The installation will be accepted by the department only after receiving clearance from Chief Fire Officer for the work executed by the contractor under the agreement.

iii. But under no circumstances shall this absolve the Contractor of his responsibility for Performance of the Equipment or System

3.27 UNIFORMITY IN THE QUOTE OF RATES FOR SAME ITEM:

If same items have been considered under different sub-works for ease of convenience of associated contractors for that particular sub-work. The Contractor shall ensure to quote uniformly same rates for same items that are existing under different sub-works. If any difference in quoted rates is noticed of same items is noticed, the department shall consider the lowest such quoted rate for same item for all sub-works. Accordingly, the total quoted amount shall be worked out and payment shall be done as per lowest rate.

Specification for PackageC1 (IEI)
PARTICULARSPECIFICATION

The work shall be generally carried out in accordance with tender specifications and the following specification rules

a) CPWD General Specification for electrical work 2023 Internal – Part- I & External-II 2023 and as amended up to date.
b) Indian Electricity Act 2003 amended up to date
c) National Electrical Code
d) Indian Electricity Rule 1956 amended up to date
e) National Building Code 2026.

1. All materials required to be used on works shall be got approved from the Engineer-in-charge well in advance.
2. Earthing, cement concrete works and testing of the installation shall be done in presence of the Engineer -in-charge or his authorized representative.
3. G.I. pipes shall be medium class as per ISI specification & shall be of single piece without any Joints.
4. General arrangement of the drawing of switch board shall be got approved from Engineer-in- charge before commencement of its fabrication.
5. Electrical Contractor will make recess in brick work by cutting chases for provision of conduits and metal boxes according to the elevation drawings for electrical services. He will fix the conduits and boxes and there after close the chases up to the surface of masonry work in cement mortar 1:4 (1 cement :4 sand). Thereafter surface of chases shall be plastered and finished by the contractor to ensure smooth and even surface. Nothing extra shall be paid to the contractor for above operations irrespective of whether the chases are carried out before or after plastering of the wall.
6. Concealed metal boxes & modular accessories shall be of same make.
7. Number of inspection boxes for conduit should be barest minimum, rather these should be avoided.
8. Steel Fish wire of proper gauge shall be drawn in the conduit for drawing of wires..
9. Contractor shall give warrantee for the entire work for period of 1 year & Guarantee for LED fittings shall be for a period of 5 years from the date of completion.
10. Contractor shall submit the LED fitting test report compliance applicable standard test IES LM 79 & LM80 for Models supplied at site.
11. The bills should be accompanied with all the wage slip concerned with the site.
12. The conduit shall be laid in the RCC slab before the concreting and in walls before plastering. The actual run of conduit and size of the boxes are to be marked on drawing by the contractor and got approved from Engineer-in-Charge before erection at site.
13. All drawings like panels, electrical distribution and all E & M services drawing to be submitted well before start of execution of work in AutoCAD format as per NIT requirement by the contractor representative to EIC for approval. Any delay in the above will be in the account of contractor only.

Performa for fixture to be submitted for approval: -

GENERAL TECHNICAL SPECIFICATIONS OF LED LIGHT FIXTURES		
1.0 FOR LED INTERNAL LIGHTS/PANELS etc		
Sr.No.	**Parameters**	**Technical Specifications for Cool White & Warm**
1	Light Source	SMD LED Chip or Chip on Board as per BOQ
2	LED Make	NICHIA/ OSRAM/ SEOUL/LUMILEDS/ LEDNIUM/ CREE/
3	Lighting wattage/Type	As per BOQ / Make & Model of the fixture
	CCT	6000K (+/-500K) cool white AND 2700 to 3000/4000 K for Warm White as per BOQ
6	Ingress Protection	as specified in item
7	Rated Luminous flux	As per BOQ/Make & Model
9	CRI (Typical), R9	≥ 80, >0
13	Harmonics	< 10%
14	Power Factor	Minimum 0.95
15	Life expectancy of Driver	Minimum 50,000 Hrs or as specified in item nomenclature
16	Rated Voltage	160 V – 270 V
17	Surge Voltage	Up-to 2 KV
19	Working Temp	-15 to +50 deg C
20	Working Humidity	10% - 90% RH
21	Luminaries Efficacy	As per BOQ
22	Driver Efficiency	>85%
23	LED Life span &Luminaries	50000 Hrs(LM70) or as specified in item nomenclature
25	LM79 & LM 80 & IES fileTest Certificate.	LM79,LM80 & IES fileTest Certificate
26	Test Report	Photometric test result and electric test results for NABL accredited Lab for makes and models.

NOTE: - Only NABL Acc. Lab. Reports will be accepted as per respective IS Code/BIS for all items mentioned above. Actual CCT need to be ensured at manufacturer's premises in or NABL test lab through inspection if required. Agency has to arrange this well before time of supply and indicated the same the BAR Chart so that progress of work should not behampered.

The latest model available should be used if the model of a particular item of luminaries is obsolete. A certificate to be obtained from OEM that the obsolete model is upgraded and a data sheet showing equal or better lumen and improved efficacy level is achieved with the improved model. Nothing extra shall be paid for this.

CHAPTER – 4

SPECIAL CONDITIONS FOR E&M WORKS FOR COMPOSITETENDER

4.1 The bidder is also 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 work(s).

OR

(b) He directly procures the equipment of approved make from manufacturer and gets it installed from authorized agency/service provider of the manufacturer or specialized agency as per criteria mentioned in NIT.

4.2 Otherwise he will have to associate a CPWD agency meeting the eligibility requirements for specialized E&M works after award of work and has to submit details of such agency(s) conforming eligibility conditions as defined in the bid document to the Executive Engineer of concerned component. Names of the agency(s) to be associated of concerned component shall be approved by the Engineer-in-Charge.The main contractor will have to submit an affidavit of MOU signed with eligible associated contractor. The MOU (enclosed in annexure I) shall be signed by both contractors, Main contractor as 1st party and associated CPWD contractor as 2nd party, independently for executing the following E&M packages with minimum eligibility criteria mentioned below.

Components of E&M works	Estimated cost (In lacs)	Minimum eligibility Criteria
PACKAGE-C1 INTERNAL ELECTRICAL INSTALLATIONS	**4.98 Lakhs**	The main contractor shall associate with contractor registered in **composite category appropriate Class in CPWD** for execution of this Sub head of work, possessing **valid Electrical Contractor License of appropriate Voltage** issued by competent authority.

Note:

a) Comprehensive maintenance and operation of specialized work mentioned above standalone work is not covered in similar work

b) The associate agency should successfully completed the works as mentioned below during the last 7 years ending last day of the month previous to the one in which tenders are invited. (For this purpose, cost of work shall mean gross value of the completed work including cost of material supplied by the Government/Client but excluding those supplied free of cost.)

c) 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 the last date of submission of bid. Qualified similar work may be physically inspected by CPWD to ascertain the completion, performance on quality of works for finalizing the Eligibility for association.

4.3 The main agency shall submit the details of the associated agency as mentioned below within 30 days of award of work OR before start of minor component of work whichever is earlier.

- Name of the firms & addresses.
- Enlistment Status of the agencies registered/Annually pre-qualified with CPWDwith number and date(Copy of enlistment order shall be enclosed) (If applicable)
- Valid up to (If applicable):
- Self-attested GST documents of Associated agency
- Whether debarred from tendering etc.:

4.4 If the main contractor fails to associate agency for execution of minor components of work within 30 days of award of work OR ATLEAST TWO MONTHS before start of minor component 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 after due approval by NIT accepting authority.

4.5 Normally, there shall be no change in associated contractor for minor component work during the execution of the work. If at all, a change is necessitated, the same should be acceptable to the department with permission from department and such acceptable contractor shall full fill the conditions laid down for the selection of the associated contractor in the tender document.

4.6 In the event of the concerned associate not performing satisfactory or not completing the work, the department can also direct the main contractor to remove the associate agency deployed on the work and ask him to deploy another associate contractor who fulfills the eligibility conditions. The new associate contractor will be bound to execute the left over work without any loss of time or variation in cost to the department. Such associate agency shall be permitted after the approval of the Engineer in Charge and shall enter into a memorandum of understanding as per the enclosed proforma along with the main contractor.

4.7 The main agency will be responsible for all acts of omission and commission of the associate contractors.

4.8 Bills for the E&M works shall be presented to the Executive Engineer (Electrical) for **Packages C1**by the main contractor. The Executive Engineer (Electrical) shall examine them forpassand payment of Running Bills.

4.9 The main contractor shallbe responsible for co-coordinating the activities of allthe works and will ensure progress of all works as per the laiddownprogram.

4.10 The 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.

4.11 Thework completion certificate for E&M works shall be issued in favour of the associated E&M contractor engaged for the particular subhead as associated agency.

4.12 The whole work will be treated as complete only when all the parts are completed and completion certificate of each component issued by the competent authority as per CPWD manual. The main contractor is responsible for making good of all defects as pointed out

by the competent authority for **Packages C1**while inspecting the works for issue of completion certificate. The main contractor should give warranty of all items of all the systems for **C1** for 12 months from the date of completion of work. The SD of the main contractor shall be released only after the due certification from Engineer-in-charge, that the system is in good working condition and there is no defect at the end of warranty period.

4.13 The contractor shall have valid electrical license from competent authority in his name or he may associate appropriate contractor having valid electrical license as per NIT conditions as required for execution of different E&M sub head.

4.14 The contractor shall use any of the makes as per approved makes for use in the work only after obtaining the approval of the Engineer-in-charge.

4.15 After the award of the work, the contractor has to take note of the inventory of electrical items as per agreement from the Engineer- in charge and submit conduit layout drawing and power distribution diagram with details of circuit for approval from Engineer in charge or his representative.

4.16 After completion of the work the detailed completion plan to be submitted in hard copy as well as in AutoCAD format in CD's, along with test reports (as per CPWD General Specification for electrical work Part-I internal 2023). Without complying the above requirement the work will be treated as incomplete.

4.17 All cutting and making holes and finishing the same in building should be responsibility of the main contractor.

4.18 The completion Certificate for the whole work can be issued only after the completion of the all the electrical work as per agreement and specification only.

Annexure-I

AFFIDAVIT OF MEMORANDUM OF UNDERSTANDING (MOU)

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

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

2) M/s. (Name of the firm with full address)
CPWD Enlistment Status(If applicable)
Valid Upto:
(Henceforth called Associated Contractor)

For the execution of E &M Component Works -

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 the above work. 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 Chief Engineer Cum ED, Berhampur Project Zone, CPWD, Berhampur. His decision shall be final and binding on both of us. We have agreed as under:

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

SIGNATURE OF MAIN CONTRACTOR Date: Place:	SIGNATURE OF ASSOCIATED CPWD CONTRACTOR Date: Place:
1. Witness with address	2. Witness with address
(From major component contractor side)	(From minor component contractor side)

Accepted make list for E&M Services

S.	DESCRIPTION OF ITEM	ACCEPTABLE MAKES
SH : INTERNAL/EXTERNAL ELECTRICAL INSTALLATION		
1	STEEL CONDUIT& ACCESSORIES (ISI MARKED)	RMCON/AKG/NIC/STEEL CRAFT/BEC/PRECISION
2	FLEXIBLE STEEL CONDUIT	BIS APPROVED MAKE
3	PVC CONDUIT/ TRUNKING & ACCESSORIES	PRECISION(PPI)/AKG/NORPACK/
4	PVC INSULATED COPPER CONDUCTOR FRLS WIRES, TELEPHONE/ SUBMERSIBLE / CO-AXIAL CABLE.	FINOLEX/HAVELLS/RR KABEL/ /KEI/POLYCAB
5	MODULAR SWITCHES & SOCKETS, MODULAR PLATE, MODULAR BLANK PLATE, BELL /BUZZER, FAN REGULATOR INCLUDING MODULAR BOXES & PLATES	LEGRAND-MYRIUS/HAVELLS-CRABTREE-MURANO/MK(CITRIC)/PANASONIC (EUROPA)/HAGER (INSYSTA)
6	IP 65/66 RATED ADAPTOR /WEATHER PROOF BOX/ MOULDED SOCKETS OUTLETS	LEGRAND/ SCHNEIDER /HONEYWELL/HENSEL/ TRINITY TOUCH/ SPELS BERG
7	TELEPHONE DP BOXES	KRONE / D-LINK / ITL
8	MCB / RCCB/ELCB / RCBO/ISOLATOR/ INDUSTRIAL SOCKETS AND ACCESSORIES.	SIEMENS-BETAGARD / SCHNEIDER-ACTI 9/ LEGRAND-DX³/ L&T(AU)/ABB SB 20 SERIES/HAGER-h3
9	MCCB (THERMAL RELEASE)	SIEMENS-3VA / SCHNEIDER-NSX/ LEGRAND-DPX³/ L&T(Dsine)/ABB-TMAX/HAGER h3+
10	MCCB (MICROPROCESSOR RELEASE)	SIEMENS-3VA (MICROPROCESSOR RELEASE)/ SCHNEIDER-NSX (MICRO LOGIC 6 RELEASE)/LEGRAND-DPX³ (MICROPROCESSOR RELEASE)/ L&T-Dsine(RC 10 RELEASE)/ABB-TMAX (PR332 RELEASE)/ HAGER h3+
11	SURGE PROTECTION DEVICE	PHEONIX CONTACT/SIEMENS-BETAGARD / SCHNEIDER-ACTI 9/ LEGRAND-DX³/ L&T(AU)/ABB SB 20 SERIES/OBO/HAGER
12	MCB DB/LOOSE WIRE BOX /PREWIRE MCBDB	SIEMENS-BETAGARD /SCHNEIDER-ACTI 9/ LEGRAND-(EKINOX³)/ L&T SMART DB/ ABB ITUS/HAGER NOVELLO +
13	RISING MAIN / BUS TRUNKING/TAP OFF BOX/END FEED UNIT (SANDWICH TYPE)	SCHNEIDER / ABB/ LEGRAND / C&S /L&T/ADVANCE/NAXSO/EAE
14	RISING MAIN / BUS TRUNKING/ TAP OFF BOX/END FEED UNIT (AIR INSULATED TYPE)	SCHNEIDER / ABB/ LEGRAND / C&S /L&T/ADVANCE/NAXSO/EAE
15	RACEWAYS, FLOOR JUNCTION BOX AND ASSESORIES	RMCON/OBO/LEGRAND/RECAP/INDIANA/NI DEX/MK
16	CABLE TRAYS AND ACCESORIES	RMCON/OBO/LEGRAND/RECAP/INDIANA/NI DEX/MK/STEELCO/ STEELWAYS
17	POP UP BOX	SCHNEIDER /HONEYWELL/ LEGRAND/ABB
18	CABLEGLAND (SINGLE/DOUBLE COMPRESSION) / LUGS/ FERRULES/THIMBLES	DOWELL/ GRIPWELL/JOHNSONS/ COMMET /3D/JAINSON/RAYCHEM
19	SEALING COMPOUND	HILTI/ 3M/ M-SEAL/ OBO
20	BLDC FAN (CEILING / EXHAUST / TABLE / WALL MOUNTED / PEDESTAL) / AIR CIRCULATOR (ISI MARKED)/AIR FRESHER	USHA / HAVELLS / ALMONARD / ORIENT / PANASONIC/ATOMBERG
21	GEYSER	CROMPTON GREAVES / HAVELLS/BAJAJ/V GUARD/RACOLD

Correction – Nil,
Insertion – Nil,
Deletion – Nil AE(P) AE(E) EE(E)

22	FL / PL / LED FITTINGS	LIGHTING TECHNOLOGY /REGENT/WIPRO/ PHILIPS /TRILUX
23	LED SEMICONDUCTOR	NICHIA, CREE, LUMILEDS, OSRAM, SEOUEL.
24	SENSORS FOR LIGHTING	PHILIPS/ SCHNEIDER/LUTRON/HONEY WELL(MK)/ABB/SIEMENS
25	FLAMEPROOF/AVIATION LUMINARIES	LIGHTING TECHNOLOGY /REGENT/DISANO/ PHILIPS /TRILUX/ENDO /WIPRO
26	EXIT SIGNAGE	THORN/PROLITE/AUTO GLOW/AUTOLITE/GLOWLITE/ BAJAJ
27	LIGHTING CONTROL PANEL	COOPER/ASM/TM/HOCHIKI
28	STREET LIGHT GI/MS (ISI MARKED) POLE AND BRACKET	TATA/JINDAL/SAIL
29	STREET LIGHT OCTAGONAL POLE AND BRACKET	VALMONT /BAJAJ/KESLEC/TRANSRAIL/UTKARSH
30	POLE LOOP BOX	HENSEL/SINTEX/RITEL
31	STREET LIGHT OCTAGONAL POLE AND BRACKET	VALMONT /BAJAJ/KESLEC/TRANSRAIL/UTKARSH
32	HIGH MAST POLE	BAJAJ/VALMONTE/DISSANO/BPP/UTKARSH
SH: SUBSTATION EQUIPMENTS.		
1	TRANSFORMER	ALFA/OEU/OTPL/OMM SAI/AEG/VOLTAMP (VODADARA)/ KIRLOSKAR
2	1.1 KV / 11 KV CABLE (ISI MARKED)	HAVELLS / CCI / UNIVERSAL CABLE LTD /GLOSTER/RR KABLES/ FINOLEX/GRANDLAY/KEI/POLYCAB
3	CABLE JOINTS / END TERMINATION KIT HEAT SHRINKABLE TYPE)	XICON (CCI)/ RAYCHEM/3M/ABB/DENSONS/MSEAL
4	ELECTRICAL MV PANEL	TECHNOCRAT /SK ENGINEERING INDIA PVT. LTD/BALAJI ELECTRO CONTROL PVT. LTD/UTKAL ELECTRICAL INDUSTRIES
5	AIR CIRCUIT BREAKER(ACB)	SIEMENS-3WL WITH ETU 660 RELEASE/ LEGRAND-DMX³ WITH MP6 RELEASE / SCHNEIDER-MASTERPACT NW WITH MICROLOGIC 7.0 P RELEASE / L&T-U POWER MTX 5.5 RELEASE /ABB –EMAX WITH PR 122 RELEASE /HAGER HW
6	MCB / RCCB/ELCB / RCBO/ISOLATOR/ INDUSTRIAL SOCKETS AND ACCESSORIES.	SIEMENS-BETAGARD / SCHNEIDER-ACTI 9/ LEGRAND-DX³/ L&T(AU)/ABB SB 20 SERIES/ HAGER-h3
7	MCCB (THERMAL RELEASE)	SIEMENS-3VA/SCHNEIDER-NSX/LEGRAND-DPX³/ L&T(Dsine)/ABB-TMAX/ HAGER-h3
8	MCCB (MICROPROCESSOR RELEASE)	SIEMENS-3VA (MICROPROCESSOR RELEASE)/ SCHNEIDER-NSX (MICRO LOGIC 6 RELEASE)/ LEGRAND-DPX³(MICROPROCESSOR RELEASE)/L&T-Dsine(RC 10 RELEASE)/ ABB-TMAX(PR332 RELEASE)/ HAGER-h3
9	CONTACTORS, TIMER, HRC FUSES & FUSE FITTINGS	SIEMENS / L &T / SCHNEIDER/ABB
10	MPCB	SIEMENS / L &T / SCHNEIDER/ABB
11	PLC	SCHNEIDER/SIEMENS/ABB/MITSHUBISHI
12	LIGHTNING ARRESTOR	OBO/ JMV/ INDELAC / ABB
13	SPD (SURGE ARRESTOR)	PHEONIXCONTACT/ SIEMENS-BETAGARD / SCHNEIDER-ACTI 9/ LEGRAND-DX³/ L&T(AU)/ABB SB 20 SERIES/OBO
16	PROTECTIVE RELAYS	ALSTOM/ ABB/ SIEMENS/ L&T/ GE

Correction – Nil,
Insertion – Nil,
Deletion – Nil AE(P) AE(E) EE(E)

17	VOLTMETER, AMMETER, MULTIFUNCTION METER, KWH METER	L&T / CONZERV / TRINITY / DIEF/CROMPTON GRIEVES/ SECURE/ ABB / SOCOMEC/NEPTUNE
18	CURRENT TRANSFORMER / POTENTIAL TRANSFORMER	KAPPA/ AE/ GILBERT & MAXWELL/ L & T/ MATRIX
19	CONNECTORS	CONNECT WELL/ ELMEX
20	INDICATION LAMPS / PUSH BUTTONS / SELECTOR SWITCH/ROTARY SWITCH	L&T / SIEMENS/SCHNEIDER/ AE/ KAYCEE /ABB/GE
21	SINGLE PHASE PREVENTER	MINILEC/EAP BANGALORE
22	CABLE GLAND (SINGLE/DOUBLE COMPRESSION) / LUGS/ FERRULES/THIMBLES	DOWELL/ GRIPWELL/JOHNSONS/ COMMET /3D/JAINSON/RAYCHEM
23	BIMETTALIC LUG	HMI/HEX/CONNECT
24	SOLDERLESS LUG	DOWELL/SCHNEIDER ELECTRIC/JAINSONS
25	HDPE PIPE	DURALINE / REX /POLYEXTRUSION / GEMINI/SUPREME
26	INSULATING MAT	TATA/VARDHMAN/ZENITH/KIRAN/RAYCHEM/ ELSTOMER
27	ELECTRIC VEHICLE CHARGER	SIEMEN/SCHNEIDER/HONEYWELL/PANASONIC
SH: TELEPHONE AND DATA NETWORKING SYSTEM		
1	DATA/ VOICE NETWORKING CABLE AND COMPONENTS (PASSIVE COMPONENTS)/OPTICAL FIBRE CABLE	PANNET /SYSTIMAX /SIEMON/CORNING
2	DATA/ VOICE NETWORKING COMPONENTS (ACTIVE COMPONENTS) CORE SWITCH / ACCESS SWITCH / FIBER MODULE/ROUTER	CISCO ENTERPRISE SERIES ONLY /HP ENTERPRISE SERIES ONLY /JUNIPER/EXTREME/ALLIED TELESIS/TEJAS/RUCKUS
3	ACCESS POINT FOR WIFI	CISCO ENTERPRISE SERIES ONLY /HP ENTERPRISE SERIES ONLY / BROCADE/ABHAYA/ ALLIED TELESIS/TEJAS/RUCKUS
4	WIRELESS LAN CONTROLLER	CISCO ENTERPRISE SERIES ONLY /HP ENTERPRISE SERIES ONLY / BROCADE/ABHAYA/ ALLIED TELESIS/MOJO/TEJAS/RUCKUS
5	NMS	CISCO ENTERPRISE SERIES ONLY /HP ENTERPRISE SERIES ONLY / BROCADE/ABHAYA/ ALLIED TELESIS/TEJAS/RUCKUS
6	UTM	FORTINET / CHECK POINT/
7	NETWORK RACK	APW-VERO/ RITTAL / NETRACK/ VALRACK/TOA
8	EPABX	UNIFY/SIEMENS/ALCATEL/NEC/AVAYA
SH: FIRE FIGHTING SYSTEM		
1	FIRE PUMP	KIRLOSKAR/MATHER AND PLATT (WILO)/GRUNDFOSS
2	ELECTRICAL MOTORS	KIRLOSKAR/SIEMENS/NGEF/CROMPTONGREAVES/ABB/BHARAT-BIJLEE
3	DIESEL ENGINE	ASHOK LEYLAND/KIRLOSKAR/CUMINS/MAHINDRA
4	MAIN FIRE CONTROL PANEL (ALL ELECTRICAL COMPONENTS)	TECHNOCRAT /SK ENGINEERING INDIA PVT. LTD/BALAJI ELECTRO CONTROL PVT. LTD/UTKAL ELECTRICAL INDUSTRIES
5	MALLEABLE IRON FITTINGS	CRESCENT/`R' BRAND
6	FORGED FITTINGS	V.S. ENGG./J.K. FORGING

Correction – Nil,
Insertion – Nil,
Deletion – Nil AE(P) AE(E) EE(E)

7	SLUICE/BUTTERFLY/GATE/BALL /GUN METAL/ NON RETURN VALVE /POT STRAINER/ SUCTION STRAINER/Y STRAINER (ISI MARKED)	KIRLOSKAR /AUDCO/LEADER/ADVANCE/VIRGO/L&T/ZOLOTO/BELIMO /EMERALD/DANFOSS
8	MOTORISED BUTTERFLY VALVE	KIRLOSKAR / AUDCO/LEADER/ ADVANCE/VIRGO/L&T/ZOLOTO /BELIMO/SIEMENS
9	MOTORISED BALANCING VALVE	ADVANCE/DANFOS/BELIMO/HONEYWELL
10	PRESSURE SWITCH	DANFOSS / HONEYWELL / INDFOS /POTTER
11	FIRST AID HOSE REEL (DRUM AND BRACKET) (ISI MARKED)/INTERNAL/EXTERNAL LANDING VALVE /SINGLE HEADED/DOUBLE HEADED HYDRANT VALVES, FITTING, FIRE BRIGADE INLET/ OUTLET CONNECTION/BRANCH PIPE/NOZZLE /FIRE HOSE CABINET/FIREMAN AXE/ COUPLING ETC.	NEWAGE/SAFEGUARD/ MINIMAX / CEASEFIRE / OMEX /HD / SAFEX/SUPEREX/GETECH/LIFE GUARD
12	PENDANT / UPRIGHT / SIDEWALL SPRINKLER HEADS	TYCO/ VICTAULIC/ HD
13	POWDER COATED SPRINKLER ROSETTE	TYCO/ VICTAULIC / HD
14	CONCEALED SPRINKLER	TYCO/ VICTAULIC/ HD
15	THERMOPLASTIC HOSE REELS FOR DRUMS	DUNLOP / NEWAGE/ CEASEFIRE/PADMINI/MITRAS/SUPEREX
16	RRL HOSE & CP HOSE (ISI MARKED)	DUNLOP / NEWAGE/ MINIMAX / CEASEFIRE / MITRAS/ SUPEREX/ SAFEGUARD
17	PORTABLE FIRE EXTINGUISHERS, BUCKET	CEASEFIRE / SAFEX / MINIMAX / FIRE SHIELD/KANNEX/ MINIMAX /G-TECH/SUPRAX/LIFEGUARD
18	FM/UL LISTED SS FLEXIBLE SPRINKLER PIPE	CORI/FLEXTRONICS/RESISTOFLEX/EASYFLEX
19	GROOVED FITTINGS	VICTAULIC / VIKING
20	AIR VESSEL	PADMINI/NEW AGE/LIFEGUARD/SAFE GUARD/SAFEX/CEASE FIRE
21	ANTI VIBRATION PADS/SUCTION & DELIVERY FLEXIBLE CONNECTOR/EXPANSION BELLOW /INERTIA BASES FOR PUMPS	EASYFLEX/RESISTOFLEX/GERB/DUNLOP
22	STAINLESS STEEL BELLOW	EASYFLEX/RESISTOFLEX/KANWAL/DUNLOP
23	VIBRATION ISOLATOR	EASYFLEX/RESISTOFLEX/EMERALD/CORI
24	FIRST AID BOX	ST. JOHN AMBULANCE
25	PRESSURE GAUGE/THERMOMETER	H. GURU/FIEBIG/EMERALD
26	SPRINKLER HEAD	TYCO/HD/VIKINGS/OMEX
27	ALARM VALVE AND HYDRAULIC ALARM MOTOR WITH GONG	TYCO/HD/VIKINGS/OMEX
28	FLOW SWITCH// ZONE CONTROL VALVE	MORLEY IAS/ POTTER/SYSTEM SENSOR/SIEMENS/HONEYWELL/ ANERGY/VICTAULIC
29	WELDING ROD	ADVANI/ADORE-E-BOND/ESAB
30	FASTENERS / SUSPENSION ACCESSORIES	FISCHER/HILTI/WURTH/CANON/BOSCH.
31	PVC PIPE	POLYPACK/SUPREME/ASTRALL/ASHIRVAD/TRUFLO/PRECISION
32	PPR PIPE	FUSION/AQUAPLAST INDIA/HEROPOLYMER/ VECTOR/ HINDUSTAN PLASTIC / SANITUBE
33	ANTI CORROSIVE PIPE TREATMENT (AS PER IS : 10221 – 1982)	PYPKOTE (IWL) / COATAK
34	MECHANICAL SEAL	SEALOL/BURGMAN/HINDUSTAN

DG Set

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(E)	EE(E)

1	ENGINE	CUMMINS/CATERPILLAR/KIRLOSKAR/MTU/PERKISONS/MITSUBISHI
2	ALTERNATOR	KIRLOSKAR/CUMMINS/STAMPFORD/LEROY SOMER/CROMPTON
3	BATTERIES	As per OEM / OEA supply
4	ATS PANEL	CPRI approved manufacturer / OEM / OEA make
5	ACCOUSTIC ENCLOSURE	OEM / OEA make (As per CPCB-II)
6	RALAYS	As per OEM / OEA supply
	AIR CONDITIONING	
1	VRF TYPE AIR CONDITIONING SYSTEM	O-GENERAL/HITACHI/BLUESTAR/TOSHIBA/ DAIKIN MITSUBISHI /CARRIER/VOLTAS
2	SPLIT TYPE AC UNIT	O-GENERAL/HITACHI/BLUESTAR/TOSHIBA/ DAIKIN MITSUBISHI /CARRIER/VOLTAS
3	AUTOMATIC VOLTAGE STABILIZER	MICROTEK/SEN AND PANDIT/V-GUARD/LUMINOUS
4	CASSETTEE/ DUCTABLE SPLIT	O-GENERAL/HITACHI/BLUESTAR/TOSHIBA/ DAIKIN MITSUBISHI /CARRIER/VOLTAS
	CCTV	
1	CCTV	BOSCK/HONEYWELL/SONY
2	NETWORK VIDEO RECODER	BOSCK/HONEYWELL/SONY / D-LINK
3	SURVELLANCE HARD DISC	WD/TOSHIBA/SEAGATE/CONSISTENT
4	HD SMART LED TV	SAMSUNG/SONY/LG/PANASONIC
	ROOF TOP SOLAR	
1	SOLARMODULE	RENEWSYS/ VIKRAMSOLAR/ ADANI/TATA
2	INVERTER/PCU	SUNGROW/SOLIS/ABB/SOLAREDGE/SMA/DELTA
3	HT/LT/DCCABLE(ISIMARKED)	FINOLEX/HAVELLS/SCICHEM/ POLYCAB/RR KABLE/CCI/UNIVERSALCABLE/GLOSTER
4	MCB/ MCCB/RCCB/ELCB/RCBO/ ISOLATOR/ INDUSTRIALSOCKETS ANDACCESSORIES	SIEMENS-BETAGARD /SCHNEIDER-ACTI 9/LEGRAND-DX³/L&T(AU)/ABBSB20SERIES/HAGER
5	MCCB(THERMALRELEASE)	SIEMENS-3VA/SCHNEIDER-NSX/LEGRAND-DPX³/ L&T(Dsine)/ABB-TMAX/HAGER
6	MCCB (MICROPROCESSORRELEASE)	SIEMENS-3VA(MICROPROCESSORRELEASE) /SCHNEIDER- NSX (MICRO LOGIC 6 RELEASE)/LEGRAND-DPX³(MICROPROCESSORRELEASE)/L&T-DSINE (RC10 RELEASE) /ABB-TMAX(PR332RELEASE)/HAGER
7	TRANSFORMER	AREVA/CROMPTONGREAVES /SIEMENS / VOLTAMP /ABB/ KIRLOSKAR / RAYCHEM /TRANSFORMER &RECTIFIER
8		SCHNEIDER/SIEMENS/ABB/MITSHUBISHI
9	LIGHTNINGARRESTOR	OBO/JMV/INDELAC/ABB
10	SPD(SURGEARRESTOR)	PHEONIXCONTACT/SIEMENS-BETAGARD/SCHNEIDER-ACTI 9/ LEGRAND-DX³/ L&T(DSINE)/ABBSB20SERIES/OBO
11	PROTECTIVERELAYS	ALSTOM/ABB/SIEMENS/L&T/GE
12	VOLTMETER ,AMMETER,KWHMETER, MULTIFUNCTIONMETER	L&T/CONZERV/TRINITY/DIEF/CROMPTON GRIEVES /SECURE/ABB/SOCOMEC/NEPTUNE
13	CURRENT TRANSFORMER / POTENTIALTRANSFORMER	KAPPA/AE/GILBERT&MAXWELL/L&T/MATRIX
	11/33KV HT PANEL/VCB PANEL	ABB/SCHNEIDER/L&T/SIEMENS/AREVA

Correction – Nil,
Insertion – Nil,
Deletion – Nil AE(P) AE(E) EE(E)

14	(OEMFABRICATEDONLY)	
15	CABLE GLAND (SINGLE/DOUBLECOMPRESSION)/LUGS/FERRULES/ THIMBLES	DOWELL/GRIPWELL/JOHNSONS/COMMET /3D/JAINSON/RAYCHEM/HEX/HMI
16	CONNECTORS	CONNECTWELL/ELMEX
17	PROTECTIVERELAYS	L&T/SIEMENS/AREVA/ ABB/ALSTOM/GE/SCHNEIDER
18	LIGHTFITTINGS	PHILIPS/REGENT/LIGHTINGTECHNOLOGY/ WIPRO
19	WEBBOXWITHCOMMUNICATIONCABLE	MNREAPPROVED
20	SENSORBOXWITHTEMPERATURESENSORSANDPYRANOMETER	MNREAPPROVED
21	INSTALLATIONKIT	MNREPLANTSAPPROVED
22	DATA/VOICENETWORKINGCABLEAND COMPONENTS (PASSIVE COMPONENTS)	PANDUIT/SYSTIMAX/SIEMON/CORNING
	CIVIL ITEMS	
23	CEMENT(PPC)	ACC/ULTRATECH/BIRLA/KONARK
24	TMTSTEELBARS(CRS)FE500D/FE550D&STRUCTRALSTEEL	SAIL, TISCO, VIZAG, JSW
25	EPOXYENAMELPAINT	DULEX, NEROLAC, BERGER, NIPPON
26	ACRYLIC SMOOTHEXTERIORPAINT	ACE, DULUX, APEX, NEROLAC, BERGER, NIPPON
	ONLINE UPS	
1	ONLINE UPS	VERTIV/LIBERT/MICROTEK/APC
2	Batteries	EXIDE/AMARRAJA/LUMINOUS/AMRON
MISCELANEOUS		
1	MS / GI PIPE (ISI MARKED)	SAIL/ JINDAL (HISAR)/ TATA
2	RAILS, STEEL CHANNELS, ANGLES/GSS SHEET	TATA / SAIL / JINDAL
3	ALUMINUM SHEET	HINDALCO / BALCO / NALCO
4	PRIMER/PAINT	ICI / ASIAN / BERGER / NEROLAC
5	CI VALVES	H SARKER / KALPANA / VENUS / AUDCO / KIRLOSKAR
6	G M VALVES	LEADER/KITZ/ZOLOTO / KIRLOSKAR / AUDCO/ L&T / SANT
7	PUMP FOR DOMESTIC USE	KIRLOSKAR/ KSB/GRUNDFOSS/CROMPTON
8	MOTOR	KIRLOSKAR/ KSB/GRUNDFOSS/CROMPTON
9	WATER LEAKAGE SYSTEM	SONTAY/ NEWAGE / PENTAIR
10	UPVC/CPVC PIPE	POLYPACK/SUPREME/ASTRALL/PRECISION/ASHIRVAD/ TRUFLO
11	WATER COOLER WITH INBUILT RO AND UV	ION EXCHANGE/AQUA GUARD (EUREKA FOBES)/BLUE STAR
12	DI/CI MANHOLE COVER/FRAMES AND CHANNEL GRATING	NECO/KGM/RAJ IRON FOUNDRY
13	STARTER	L&T/C&S/BCH/ SHEIENDER
14	ANY OTHER ITEM	TO BE DECIDED BY ENGINEER-IN-CHARGE

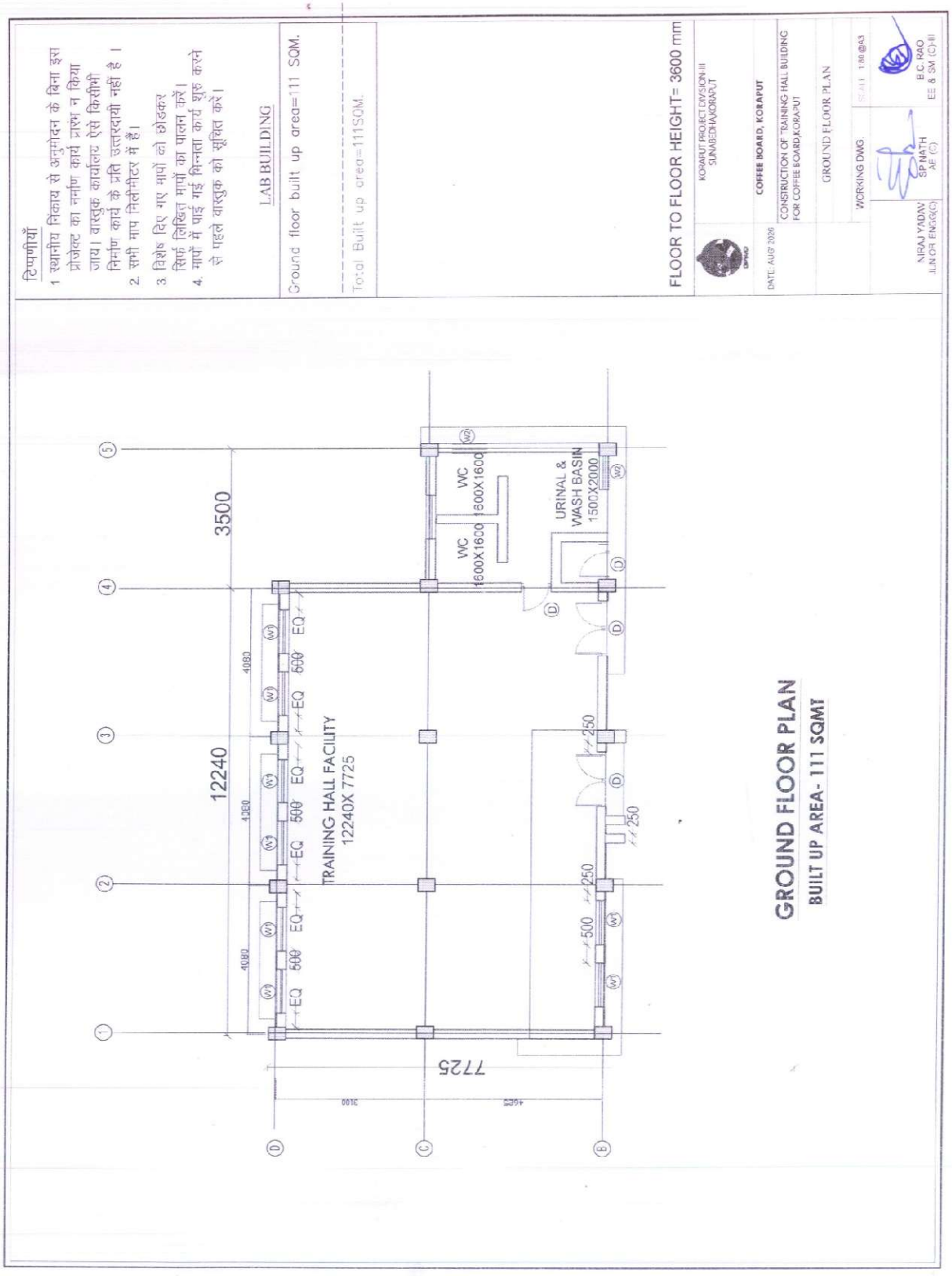
Note:
Make and models of all materials should get approved from the engineer in charge well before placing order to the OEM/Authorized dealer. The agency is required to submit all relevant test certificates/documents and samples along with the proposal. The model along with sample should be approved by Engineer -in - Charge before supply of same to the site. The decision of Engineer -in – Charge is binding in this regard and no variation is acceptable.

Correction – Nil,
Insertion – Nil,
Deletion – Nil AE(P) AE(E) EE(E)

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(E)	EE(E)

PART – D

Drawings



Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	EE(C)

PART – E

Schedule of Quantities

GENERAL ABSTRACT

Name of Work : Construction of Training Hall at TEC, Coffee Board, Koraput.

		DSR Item	Non DSR Item
1	EARTHWORK	62,533.00	
2	CONCRETE WORK	2,88,822.00	
3	REINFORCED CEMENT CONCRETE	20,04,837.00	
4	MASONARY WORK	4,63,415.00	
5	CLADDING	1,13,334.00	
6	WOOD AND P.V.C. WORK	1,20,263.00	
7	STEEL WORK	1,85,376.00	
8	FLOORING	2,19,944.00	
9	ROOFING	11,466.00	
10	FINISHING	3,88,548.00	
11	SANITARY INSTALLATIONS	63,045.00	
12	WATER SUPPLY	84,960.00	
13	ALUMINIUM WORKS	49,323.00	
14	WATER PROOFING	63,067.00	
15	NEW TECHNOLOGIES AND MATERIALS	14,054.00	
16	NON SCHEDULE ITEMS		18,011.00
	Total	41,32,987.00	
	Add Cost Index @5% over DSR-2023 except Market Rate (MR) items	2,06,649.35	
	Total (DSR) items	43,39,636.35	
	Modified estimated cost after using correction factor on DSR 2023 on account of GST @0.973	42,22,466.17	
	TOTAL (CIVIL PORTION)=(X)	42,40,477.00	

Correction – Nil,
Insertion – Nil,
Deletion – Nil AE(P) AE(C) AE(E) EE(C) EE(E)

Sr. No.	Description of Sub Heads	Total Amount Rs.
1	**SH-I (WIRING)**	**1,51,886.00**
2	**SH-II (FAN & FITTINGS)**	**1,53,205.00**
3	**SH-III(DB & SWITCHGEARS)**	**54,493.00**
4	**SH-IV (EARTHING)**	**35,442.00**
5	**SH-V (LIGHTNING ARRESTER)**	**34,743.00**
6	**SH-VI (CABLING & COMPOUND LIGHTING)**	**45,446.00**
7	**SH-VII (FIRE EXTINGUISHERS)**	**23,327.00**
	Total Electrical Portion = (Y)	**4,98,542.00**
	TOTAL (CIVIL PORTION+ELECTRICAL PORTION)=(X+Y)	**47,39,019.00**

Assistant Engineer (C)
KPSD-II,CPWD,Sunabeda
Koraput, Odisha

Assistant Engineer (E)
KPESD,CPWD,Sunabeda
Koraput, Odisha

Executive Engineer & SM (C)-III
KPD,CPWD,Sunabeda
Koraput, Odisha

Executive Engineer (E)
IISER Project Division,CPWD
Berhampur, Odisha

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	AE(E)	EE(C)	EE(E)

SCHEDULE OF QUANTITY (Civil)

SLNo	Description	Qty	Unit	Rate	Amount	DSR No.
1	**EARTH WORK**					**2**
1.1	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.					2.6
1.1.1	All kinds of soil	150	cum	177.50	26625.00	2.6.1
1.2	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.					2.8
1.2.1	All kinds of soil.	25	cum	260.30	6508.00	2.8.1
1.3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lif.	150	cum	196.00	29400.00	2.25
	Sub-Total				**62533.00**	
2	**CEMENT CONCRETE (CAST IN SITU)**					**4**
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					4.1
2.1.1	1:2:4 (1 cement : 2 coarse sand (zone-Ill) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	18	cum	7878.50	141813.00	4.1.3
2.1.2	1:5:10 (1 cement : 5 coarse sand (zone-Ill) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	15	cum	6518.60	97779.00	4.1.10

Correction – Nil,
Insertion – Nil,
Deletion – Nil AE(P) AE(C) AE(E) EE(C) EE(E)

2.2	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-Ill) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	50	sqm	749.30	37465.00	4.17
2.3	Centering and shuttering including strutting, propping etc. and removal of form work for :					4.3
2.3.1	Foundations, footings, bases for columns	30	sqm	392.15	11765.00	45.3.1
	Sub-Total				**288822.00**	
3	**REINFORCED CEMENT CONCRETE**					**5**
3.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :					5.1
3.1.1	1:1.5:3(1 cement: 1.5 coarse sand (zone-Ill) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	20	cum	9045.75	180915.00	5.1.2
3.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement:					5.2
3.2.1	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	10	cum	10852.95	108530.00	5.2.2

3.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15 degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	45	cum	11505.50	517748.00	5.3
3.4	Reinforced cement concrete work in arches, archribs, domes, vaults, shells, folded plate and roofs having slope more than 15° up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement: 1.5 coarse sand (zone-Ill) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	2	cum	12205.85	24412.00	5.5
3.5	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					5.22
3.5.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	2400.00	kg	107.85	258840.00	5.22.6
3.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					5.22A
3.6.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	4500.00	kg	107.85	485325.00	5.22A.6
3.7	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	200	metre	78.40	15680.00	5.3
3.8	Centering and shuttering including strutting, propping etc. and removal of form for					5.9
3.8.1	Foundations, footings, bases of columns, etc. for mass concrete	30	Sqm.	392.15	11765.00	5.9.1
3.8.2	Suspended floors, roofs, landings, balconies and access platform	110	Sqm.	927.25	101998.00	5.9.3

Correction – Nil,
Insertion – Nil,
Deletion – Nil AE(P) AE(C) AE(E) EE(C) EE(E)

3.8.3	Lintels, beams, plinth beams, girders, bressumers and cantilevers	300	Sqm.	736.40	220920.00	5.9.5
3.8.4	Columns, Pillars, Piers, Abutments, Posts and Struts	70	Sqm.	961.30	67291.00	5.9.6
3.8.5	Weather shed, Chajjas, corbels etc., including edges	12	Sqm.	951.10	11413.00	5.9.19
	Sub-Total				**2004837.00**	
4	**MASONRY WORK**					**6**
4.1	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in:					6.2
4.1.1	Cement Mortar 1:6(1 cement :6 coarse sand).	18	cum	6295.15	113313.00	6.2.2
4.2	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :					6.34
4.2.1	Cement mortar 1:6 (1 cement: 6 Coarse sand)	40	cum	8752.55	350102.00	6.34.2
	Sub-Total				**463415.00**	
5	**CLADDING WORK**					**8**
5.1	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels.					**8.2**
5.1.1	Granite stone slab of colour black, Cherry/Ruby red					**8.2.1**
5.1.1.1	Area of slab upto 0.50 sqm	4	Sqm.	**3414.80**	13659.00	**8.2.1.1**
5.1.1.2	Area of slab over 0.50 sqm	12	Sqm.	**5136.30**	61636.00	**8.2.2.2**
5.2	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness	30	sqm	1267.95	38039.00	8.31

	to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3(1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.					
	Sub-Total				**113334.00**	
6	**WOOD AND P. V. C. WORK**					**9**
6.1	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 :					9.97
6.1.1	150x10 mm	7	Each	82.55	578.00	9.97.4
6.2	Providing and fixing aluminium handles, 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 :					9.100
6.2.1	100 mm	7	Each	59.55	417.00	9.100.2
6.3	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and	15	metre	492.70	7391.00	9.119

	direction of Engineer- in-Charge.					
6.4	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.					9.120
6.4.1	30 mm thick plain PVC door shutters	5	sqm	3182.95	15915.00	9.120.1

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	AE(E)	EE(C)	EE(E)

6.5	Providing and fixing factory made uPVC glazed/wire mesh windows/ doors comprising of lead free uPVC multi-chambered frame, sash and mullion/coupler (where ever required) extruded profiles having minimum wall thickness of 1.70 mm for Series R1 and R2 profiles and 2.10 mm for Series R3 and R4 profiles conforming to EN: 12608 in any shape, colour and design duly reinforced with galvanized mild steel section made of required shape & size as per CPWD Specification, uPVC extruded glazing beads, interlocks and lnline sash adaptor (where ever required) of appropriate dimension, EPDM gasket, hardware, SS 304 grade fasteners of minimum 8 mm dia with countersunk head, comprising of matching polyamide PA6 grade sleeve for fixing frame to finished wall as per IS 1367 : Part 1 to 14, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame, sash & mullion (if required) shall be mitred cut and fusion welded/mechanically jointed duly sealed at all corners, including drilling of holes for fixing hardware and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of approved size and quality, all complete as per approved drawing conforming to CPWD specification & direction of Engineer-in-Charge. Section of steel reinforcement and cross sections of uPVC profiles to be as per design approved by Engineer-in-Charge. Wire mesh / Glazing of plain/ toughened/ laminated/ double glass unit with / without high performance coatings as per design requirements and conforming to IS: 3548 & IS: 16231					9.147

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	AE(E)	EE(C)	EE(E)

	shall be paid separately. Note:- Structural design proof checked from a Government Engineering Institute, to be provided by the manufacturer for (i) Sites with basic wind speed > 45 m/sec as per IS 875 — Part 3 (ii) Sites with structure height more than 20m for all wind speeds					
6.5.1	Two and half track three panels sliding window with two glazed & one wire mesh panels with Aluminium channel for roller track, wool pile, nylon rollers with SS 304 body.					9.147.A3
6.5.1.1	Using R2 series with frame (65 mm & above) x (40 mm & above) & glazed sash (25 mm & above) x (50 mm & above) & fly screen sash (18 mm & above) x (40 mm & above) with zinc alloy (zamak) powder coated touch locks with hook (Height upto 1.2 metre).	8	sqm	9933.40	79467.00	9.147.A3.1
6.6.2	Fixed window/ ventilator without mullion /transom.					9.147.C1
6.6.2.1	Using R1 series with frame (33 mm & above) x (35 mm & above). (Height upto 0.90 metre)	2	sqm	8247.25	16495.00	9.147.C1.1
	Sub-Total				**120263.00**	
7	**STEEL WORK**					**10**
7.1	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, bufing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing	240	kg	772.40	185376.00	10.28

	accessories such as nuts, bolts, fasteners etc.).					
	Sub-Total				**185376.00**	
8	**FLOORING**					**11**
8.1	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including pointing the joints with white cement and matching pigments etc., complete.	16	sqm	1439.40	23030.00	11.40
8.2	Providing and laying Vitrified tiles in floor in diferent sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.					11.41A
8.2.1	Glazed vitrified floor tiles polished finish of size					11.41A.2
8.2.1.1	Size of Tile 600 x 1200 mm	100	sqm	1798.80	179880.00	11.41A.2.2

8.3	Providing and laying Vitrified tiles in diferent sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).					11.47
8.3.1	Size of Tile 1000x1000 mm	7	sqm	2433.40	17034.00	11.47.4
	Sub-Total				**219944.00**	
9	**ROOFING**					**12**
9.1	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.					12.41
9.1.1	110 mm diameter	25	metre	377.40	9435.00	12.41.2
9.2	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS :5382, leaving 10 mm gap for thermal expansion.					12.42
9.2.1	Bend 87.5°					12.42.5
9.2.1.1	110 mm bend	10	each	150.35	1504.00	12.42.5.2
9.2.2	Shoe (Plain)					12.42.6
9.2.2.1	110 mm Shoe	4	each	131.85	527.00	12.42.6.2
	Sub-Total				**11466.00**	
10	**FINISHING**					**13**
10.1	12 mm cement plaster of mix:					13.1
10.1.1	1:6(1 cement: 6 fine sand)	180	sqm	333.35	60003.00	13.1.2
10.2	15 mm cement plaster on the rough side of single or half brick wall of mix:					13.2
10.2.1	1:6 (1 cement: 6 fine sand)	280	sqm	383.00	107240.00	13.2.2

10.3	Cement plaster 1:3(1 cement: 3 coarse sand) finished with a floating coat of neat cement.					13.9
10.3.1	12 mm cement plaster	30	sqm	449.55	13487.00	13.9.1
10.4	6 mm cement plaster of mix:					13.16
10.4.1	1:3(1 cement :3 fine sand)	100	sqm	300.45	30045.00	13.16.1
10.5	Extra for plastering on circular work not exceeding 6 m in radius:					13.23
10.5.1	In one coat	15	sqm	47.65	715.00	13.23.1
10.6	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour:					13.41
10.6.1	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	400	sqm	185.65	74260.00	13.41.1
10.7	Finishing walls with Acrylic Smooth exterior paint of required shade:					13.46
10.7.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)	300	sqm	160.60	48180.00	13.46.1
10.8	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.	350	sqm	156.05	54618.00	13.80
	Sub-Total				**388548.00**	
11	**SANITARY INSTALLATIONS**					**17**
11.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:					17.1

11.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	1	each	6767.40	6767.00	17.1.1
11.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :					17.2
11.2.1	W.C. pan with ISI marked white solid plastic seat and lid	1	each	6515.55	6516.00	17.2.1
11.3	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :					17.5
11.3.1	Range of two half stall urinals with 5 litre P.V.C. automatic flushing cistern	2	each	18008.75	36018.00	17.5.2
11.4	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:					17.7
11.4.1	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	3	each	2226.35	6679.00	17.7.2
11.5	Flexible pipe					17.28
11.5.1	40 mm dia	3	each	119.55	359.00	17.28.2.2

Correction – Nil,
Insertion – Nil,
Deletion – Nil AE(P) AE(C) AE(E) EE(C) EE(E)

11.6	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	3	each	1607.95	4824.00	17.31
11.7	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	2	each	231.95	464.00	17.72
11.8	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.					17.73
	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	2	each	708.95	1418.00	17.73.2
	Sub-Total				**63045.00**	
12	**WATER SUPPLY**					**18**
12.1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.					18.8
12.1.1	20 mm nominal dia Pipes	20	metre	537.60	10752.00	18.8.2
12.1.2	25 mm nominal dia Pipes	30	metre	627.25	18818.00	18.8.3

12.2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work					18.9
12.2.1	50 mm nominal dia Pipes	40	metre	794.25	31770.00	18.9.6
12.3	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	2000	per litre	11.00	22000.00	18.48
12.4	Providing and fixing PTMT bib cock of approved quality and colour.					18.54
12.4.1	15mm nominal bore, 86 mm long, weighing not less than 88 gms	2	Each	125.60	251.00	18.54.1
12.5	Providing and fixing PTMT grating of approved quality and colour					18.58
12.5.1	Circular type					18.58.1
12.5.1.1	100 mm nominal dia	4	Each	37.60	150.00	18.58.1.1
12.6	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.					18.74
12.6.1	15 mm nominal bore with 45 cm length	10	Each	121.90	1219.00	18.74.2
	Sub-Total				**84960.00**	
13	**ALUMINIUM WORK**					**21**
13.1	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):					

13.1.1	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	8	Sqm.	1505.25	12042.00	21.3.2
13.2	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).	7	Sqm.	5325.90	37281.00	21.18
	Sub-Total				**49323.00**	
14	**WATERPROOFING**					**22**
14.1	Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge.	112	Sqm.	563.10	63067.00	22.22A
	Sub-Total				**63067.00**	
15	**NEW TECHNOLOGIES AND MATERIALS**					**26**
15.1	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/Clerestory windows & other Frames/ Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/ wheat husk) and non toxic additives					26.86

	(maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm2, modulus of elasticity 900 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. (M.S hold fast/lugs or SS dash fasteners shall be paid for separately). Note: For WPC solid door/window frames, minus 5 mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.					
15.1.1	Frame size 65 x 125 mm	5	metre	1381.60	6908.00	26.86.6

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	AE(E)	EE(C)	EE(E)

15.2	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid decorative type flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant. WPC to be laminated with PVC foil of minimum 14 microns thick of approved design pasted with hot melt adhesive on both faces of shutter and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately)					26.88
15.2.1	30 mm thick	1.5	sqm	4764.20	7146.00	26.88.1
	Sub-Total				**14054.00**	
16	**Non Schedule**	-				
NS-1	Providing and fixing ISI marked S.S. sliding door bolts with nuts and screws etc. complete					
	300x16 mm	3	each	249.70	749.00	
NS-2	Providing and fixing ISI marked S.S. tower bolt smooth finish, (Barrel type) with necessary screws etc. complete					
	200X10 mm	3	each	188.00	564.00	
NS-3	Providing and fixing bright finished SS handles with screws etc. complete:					
	125 mm	10	each	113.00	1130.00	

Correction – Nil,
Insertion – Nil,
Deletion – Nil AE(P) AE(C) AE(E) EE(C) EE(E)

NS-4	Providing and fixing on wall face unplasticised PVC SWR Type-B pipes conforming to IS 13592:2013 , including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.					
	110 mm	10	metre	558.00	5580.00	
NS-5	Design,preparation and supply of Architectural & services,structural drawing of various components of Construction of Training Hall at TEC,Coffee Board,Koraput like columns, all slabs and beams, staircasesmumty roof, lintels,sunshade etc. all complete as per the direction of Engineer-In-Charge. The design and drawing shall be prepared following the guide lines of the latest edition of relevant IS codes/Publications of BIS and other accepted standards to the extent applicable and required and get approved by the Engineer-In-Charge.(Total Plinth Area-111 Sqm.)					
		111	Sqm	89.98	9988.00	
	Sub-Total				**18011.00**	
	Total				**4150998.00**	

Assistant Engineer
KPSD-II, CPWD, Koraput

Executive Engineer cum SM(C)-III
Koraput Project Division,
CPWD, Sunabeda, Koraput

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	AE(E)	EE(C)	EE(E)

SCHEDULE OF WORK (Electrical)

S.N	Description of Items	Qty	Unit	Rate	Amount	DSR-25 Code
1	**SH-I (WIRING)**					
1.1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.					
1.1.1	i) Group C	29	Point	2101.00	60929.00	1.3.3
1.2	Wiring for light/ power plug with 2X4 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed steel conduit along with 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	60	Mtr	480.00	28800.00	1.5
1.3	Wiring for light/ power plug with 4X4 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed steel conduit along with 2 Nos. 4 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable for loop earthing as required..	15	Mtr	724.00	10860.00	1.6
1.4	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 steel conduit as required.					
1.4.1	i) 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	40	Mtr	370.00	14800.00	1.7.1
1.5	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.. (For LAN, Telephone, TV)					
1.5.1	i) 20 mm	50	Mtr	254.00	12700.00	1.20.1

1.6	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
1.6.1	RJ45 LAN Socket Outlet	11	Each	712.00	7832.00	MR
1.6.2	25 amp socket outlet	4	Each	588.00	2352.00	MR
1.6.3	25 Amps AC Starter	4	Each	736.00	2944.00	MR
1.7	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess,including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch,connections etc. as required.	7	Each	659.00	4613.00	1.32
1.8	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. 3 pin 5/6 A modular socket outlet and 2 nos. 5/6 A modular switch, connections etc. as required. (For light plugs to be used in non residential buildings).	8	Each	757.00	6056.00	1.56
	TOTAL SH-I				**151886.00**	
2	**SH-II (FAN & FITTINGS)**					

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	AE(E)	EE(C)	EE(E)

2.1	Supplying, Installation, Testing & Commissioning of LED Recessed/ surface Down lighter (Round/ square/ Rectangular) SMD type of following body material with PMMA and prismatic diffuser 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 -50C to 400C, 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 Colour 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 junctiontemperature shall not rise above 90°C) Powder coated die cast /Extruded aluminium Body including trim .					
2.1.1	12 watt	6	Each	715.00	4290.00	8.1.3

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	AE(E)	EE(C)	EE(E)	

2.2	Supplying,installation,testing and commissioning of Energy efficient surface mounted LED luminaire made up of Die cast Alluminium / CRCA steel of 300 X 1200 mm (1" x 4") size with not less than 36 Watt and lumens output 100 lumens/watt with electronic driver and all other accessories suitable for operation on 230 V, 50 Hz supply as required.	12	Each	8772.00	105264.00	MR
2.3	Supplying and fixing on Surface/wall mounted type bulk head LED light fitting having lumen not less than 1000 lumens and efficacy not less than 100 lumen/watt CCT(K) of 5700 K complete with all accessories as required.	11	Each	1857.00	20427.00	MR
2.4	Supply, Installation, Testing and Commissioning of ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal(Aluminium alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body Power Factor not less than 0.9, Service Value(CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, suitable for operation with regulator for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 0C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC supply, Ceiling Fan compliant to IS 374:2019 fan i/c external connections with 1.5 sq.mm FRLS/HFFR,PVC insulated copper conductor single core cable and earthing etc. as required.					
2.4.1	1200mm, service value ≥ 6.0 CM/Min/Watt, air delivery 210 CM/Min (Minimum)	6	Each	2695.00	16170.00	9.2.3
2.5	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding	6	Each	402.00	2412.00	1.25

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	AE(E)	EE(C)	EE(E)

	modular plate etc. as required.					
2.6	Supplying, installation of 200 mm sweep plastic body fresh air exhaust fan with louver shutter of suitable size in the existing opening, i/c making the hole to suit the size of the above fan, making good the damages, connection, testing, commissioning etc. as required.	2	Each	2321.00	4642.00	MR
	TOTAL OF SH-II			**TOTAL**	**153205.00**	
3	**SH-III (DB & SWITCHGEARS)**					
3.1	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, 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 withoutMCB/RCCB/Isolator).					
3.1.1	i) 4 way (4 + 12), Double door	1	Each	4377.00	4377.00	2.4.1
3.1.2	i) 6 way (4 + 12), Double door	1	Each	5299.00	5299.00	2.4.2
3.2	Supplying and fixing of factory made following ways surface/ recess mounting, vertical type, Double Door, 415 volts, Power distribution board suitable with tripple pole/four pole MCCB as incomer and tripple MCB outgoing distribution, sheet steel, dust protected, duly powder painted, inclusive of 250 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's (but without MCCB's in incomer and outgoing) as required.(Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.					
3.2.1	4 way , Double door	1	Each	7951.00	7951.00	2.5.1
3.2	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "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.					
3.2.1	i) Single pole(5-32 amp)	30	Each	285.00	8550.00	2.10.1

3.2.2	ii) 32 amp TPN	1	Each	1301.00	1301.00	2.10.5
3.2.3	iii) 63 amp Four Pole	1	Each	3134.00	3134.00	MR
3.2.4	iv) 63 amp Tripple Pole	4	Each	2476.00	9904.00	MR
3.3	Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board/DBs including drilling holes in cubicle panel, making connections, etc. as required.					
3.3.1	100 Amp, 25 KA,Four Pole	1	Each	10306.00	10306.00	MR
3.4	Supplying and fixing Cable End Box (Loose Wire Box) suitable for following triple pole and neutral, sheet steel, MCB distribution board, 415 Volts, on surface/ recess, complete with testing and commissioning etc.as required.					
3.4.1	For 4 way, Double door TPN MCBDB	1	Each	1177.00	1177.00	2.24.1
3.4.2	For 6 way, Double door TPN MCBDB	1	Each	1223.00	1223.00	2.24.2
3.5	Supplying and fixing Cable End Box (Loose Wire Box) suitable for triple pole and neutral, sheet steel, Vertical MCB distribution board, 415 Volts, on surface/ recess, complete with testing and commissioning etc. as required.	1	Each	1271.00	1271.00	2.25
	TOTAL OF SH-III			**TOTAL**	**54493.00**	
4	**SH-IV (EARTHING)**					
4.1	Earthing with G.I. earth pipe 4.5 Meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	4	set	7658.00	30632.00	5.2
4.2	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	10	Mtr	313.00	3130.00	5.12
4.3	Providing and fixing 6 SWG dia G.I. wire on surfaceor in recess for loop earthing as required.	20	Mtr	84.00	1680.00	5.16
	TOTAL OF SH-IV			**TOTAL**	**35442.00**	
5	**SH-V (LIGHTNING ARRESTER)**					
5.1	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and eatering pipe	2	Set	8351.00	16702.00	5.4

	of 2.7 metre long etc. with charcoal/ coke and salt as required.					
5.2	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.	6	Each	609.00	3654.00	6.1
5.3	Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting / sweating and soldering etc as required.	20	Each	139.00	2780.00	6.3
5.4	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (For horizontal run)	50	Mtr.	148.00	7400.00	6.6
5.5	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (For vertical run)	10	Mtr.	238.00	2380.00	6.7
5.6	Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.	2	Each	140.00	280.00	6.10
5.7	Providing and laying G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.	7	Mtr.	221.00	1547.00	6.11
	TOTAL OF SH-V			**TOTAL**	**34743.00**	
6	**SH-VI (CABLING & COMPOUND LIGHTING)**					
6.1	Supplying of following size PVC insulated and PVC sheathed / XLPE aluminium conductor armoured power cable of 1.1 kV grade etc. as required.					
5.5.1	i) 3 x 10 sq.mm	10	Mtrs	361.00	3610.00	MR
5.5.2	ii) 4 x 25 sq.mm	40	Mtrs	607.00	24280.00	MR
6.2	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.					
6.2.1	i) Upto 35 sq. mm	45	Mtrs	47.00	2115.00	10.5.1

6.3	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.					
6.3.1	i) Upto 35 sq. mm (clamped with 1mm thick saddle)	5	Mtrs	64.00	320.00	10.7.1
6.4	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.					
6.4.1	i) 63 mm dia (OD-63 mm & ID-51 mm nominal)	45	Mtrs	289.00	13005.00	15.16.1
6.5	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated & PVC sheathed / XLPE aluminium conductor cable of 1.1KV grade as reqd.					
6.5.1	i) 4 X 25 sq. mm (28mm)	4	Each	373.00	1492.00	11.1.34
6.5.2	ii) 3 X 10 sq. mm (22mm)	2	Each	312.00	624.00	11.1.7
	TOTAL OF SH-V				**45446.00**	
7	**SH-VII (FIRE EXTINGUISHERS)**				.	
7.1	Supplying, installing, testing and commissioning of 4.5 kG capacity stored pressure, carbon dioxide type fire extinguishers ,Product must have ready/used indicator to check status and applicable on Class-B, C & Electric started Fire,Product must have both handle & wheel to easy movement. Product must have certified from: IS , NABL/LPCB or any other central govt lab testing, EN PED & PESO certificate for better quality. Product must have Helium Leak Detection Test. Product must have EPDM Rubber hose pipe. Rating: 55B External Coating: Epoxy Polyester Powder Coating Supplier/Dealer needs to submit authorization letter of manufacturer. All	1	Each	14576.00	14576.00	MR

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	AE(E)	EE(C)	EE(E)

	the certificates need to submit at time of tender submission. Valid authorization certificates required from OEM. .Warranty: 10 Years					
7.2	Supplying, installation, testing and commissioning of ABC stored pressure type Fire extinguishers of 4 KG capacity,applicable on Fire: Class-A, B, C & Electric Started Fire.Body Type made of Mild Steel ,IS 15683 Fire Ratings: 4A & 144B,Certificates: Product must have IS 15683, EN PED, and NABL & LPCB Certified, Product must have Helium leak detection test certificate.Discharge Mechanism: Squeeze Grip,Hose Pipe: EPDM Rubber Hose Pipe,Internal Coating of Can: Epoxy Powder coating.External Coating of Can: Epoxy Polyester Powder coating. Fire Extinguisher must have controllable discharge mechanism to provide flexibility of releasing extinguishing agent on targeted fire location. All the certificates need to submit at time of tender submission. Valid authorization certificates required from OEM. .Warranty: 6 Years	1	Each	8751.00	8751.00	MR
	TOTAL OF SH-VI				**23327.00**	

Assistant Engineer (E)
KPESD, CPWD, Sunabeda.

Executive Engineer cum SM (E)
IISER Project Electrical Division,
CPWD, Berhampur , Odisha

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	AE(C)	AE(E)	EE(C)	EE(E)	

Central Public Works Department

PERFORMA FOR QUOTING THE RATES

NIT No: 05/NIT/EE&SM-III/KPD/CPWD/2026-27

Name of Work: - Construction of Training Hall at TEC, Coffee Board, Koraput.

ABSTRACT OF COST

Name of the Contractor					
S.No.	**Name of Component**	**Estimated Cost**	**Percentage above or below the estimated cost**	**% in Figures**	**Total Cost**
1	Composite Tender Civil + Electrical Work – Rs. **47,39,019**/-	**Rs.47,39,019/-**			
	GRAND TOTAL				

Important Note:

1. The estimated cost of tender has been worked out by taking into consideration the cost index of Berhampur for DSR-2023 items, and market rates for NSR items. The Delhi Schedule of Rate 2023 items rates therefore are adjusted accordingly.
2. The tenderer is to quote a single consolidated percentage only at par/above/below estimated cost to cover all the rates of all the items under the schedule of composite tender.
3. If the percentage quoted is not clear, or if the rate is not quoted in percentage, the tender shall be treated as invalid and will not be entertained as lowest tenderer.