



**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**



**Office of the Chief Engineer-Bhubaneswar
Nirman Bhawan, CPWD, Pokhariput, Bhubaneswar.**

NOTICE INVITING TENDER

NIT No: 33/NIT/EE-BBSR-II/CPWD/2026-27

Name of the Work: A/R & M/O of Non-Residential Building of CPWD campus, Nirman Bhawan at Pokhariput, Bhubaneswar, Odisha during the financial year 2026-27. S.H.: Civil day to day Annual Repairs & maintenance works.

Estimated Cost: Rs.14,64,918/-

Earnest Money: Rs.29,298/-

(to be refunded after receiving the Performance Guarantee).

**Last date and time
of Online submission of bid :** **08.10.2026 upto 15:00 Hrs.**

*** To be filled by EE-II, CPWD, Bhubaneswar**

NOTICE INVITING TENDER

NIT No.: 33/NIT/EE-BBSR-II/CPWD/2026-27

Name of Work: A/R & M/O of Non-Residential Building of CPWD campus, Nirman Bhawan at Pokhariput, Bhubaneswar, Odisha during the financial year 2026-27. S.H.: Civil day to day Annual Repairs & maintenance works.

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Certified that this N.I.T. amounting to Rs.14,64,918/-, contains 165 pages only in chronological order.

DRAFT NIT APPROVED

Executive Engineer-Bhubaneswar-II

CPWD,Pokhariput, Bhubaneswar(Odisha)

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

NOTICE INVITING e-TENDER

The Executive Engineer Bhubaneswar-II, CPWD, Bhubaneswar (Odisha)(E-mail:eebcd2bhubaneswar@gmail.com, eebcd2.od@nic.in, Landline No.0674-2352941) on behalf of the President of India invites online **percentage rate bids** from CPWD enlisted contractors of appropriate **Class or above in Buildings & Roads category** for the following work:

Name of Work: A/R & M/O of Non-Residential Building of CPWD campus, Nirman Bhawan at Pokhariput, Bhubaneswar, Odisha during the financial year 2026-27. S.H.: Civil day to day Annual Repairs & maintenance works.

NIT No.: **33/NIT/EE-BBSR-II/CPWD/2026-27.**

Estimated Cost put to Tender	Rs.14,64,918/-
Earnest Money	Rs.29,298/- (to be refunded after receiving the Performance Guarantee).
Period of Completion	12(Twelve) Months
Last date & time of uploading/submission of Bid, EMD, copy of receipt for deposition of original EMD and other documents as specified in Notice Inviting e-Tender.	08.10.2026 upto 03.00 P.M.

The tender forms and other details can be obtained from the website <https://etender.cpwd.gov.in>. Further modification of change of dates, if any, can be seen in the above stated tender web site.

Executive Engineer Bhubaneswar-II,
CPWD, Bhubaneswar (Odisha)

*** To be filled by EE-II, CPWD, Bhubaneswar**

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	EE-BBSR-II
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PART A

GENERAL INFORMATION

INFORMATION & INSTRUCTIONS FOR BIDDERS FOR e-TENDERING

The Executive Engineer Bhubaneswar-II, CPWD, Bhubaneswar (Odisha)(E-mail:eebcd2bhubaneswar@gmail.com, eebcd2.od@nic.in, Landline No.0674-2352941)behalf of the President of India invites online **percentage rate bids** from CPWD enlisted contractors of appropriate classor above in **Buildings & Roads category** for the following work:

NIT No	33/NIT/EE-BBSR-II/CPWD/2026-27
Name of Work	A/R & M/O of Non-Residential Building of CPWD campus, Nirman Bhawan at Pokhariput, Bhubaneswar, Odisha during the financial year 2026-27. S.H.: Civil day to day Annual Repairs & maintenance works.
Location	Bhubaneswar (Odisha)
Estimated cost put to bid	Rs.14,64,918/-
Earnest Money	Rs.29,298/- (to be refunded after receiving the Performance Guarantee)
Period of Completion	12(Twelve) Months
Last date & time of uploading/submission of Bid, EMD, copy of receipt for deposition of original EMD and other documents as specified in Notice Inviting e-Tender.	03:00 PM on 08.10.2026
Time and date of opening of financial bid	03:30 PM on 08.10.2026
Submission of hard copies of EMD.	The original EMD should be deposited either in the officeof Executive Engineer inviting bids or division office ofany Executive Engineer, CPWD within the period of bidsubmission (including NIT issuing EE/AE). The EMDreceiving Executive Engineer shall issue a receipt ofdeposition of earnest money deposit to the bidder in aprescribed format (as per CPWD-6 for e-tendering)uploaded by tender inviting EE in the NIT. Scanned copy of EMD including the receipt of depositionof EMD to also be uploaded to the e-tendering website bythe intending bidder up to the specified bid submission dateand time.
Enlistment order, Affidavit, Undertakingand other Documents to Division Officeby the Lowest Tenderer.	To be submitted during office hours within a week from thedate of opening of Financial Bid. In case the last dayhappens to be closed holiday, these documents shall besubmitted on the next working day.

*** To be filled by EE-II, CPWD, Bhubaneswar**

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	EE-BBSR-II
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1. Intending bidders are eligible to submit the bid provided they have definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below: (This is not applicable for CPWD enlisted contractors of appropriate **Class** above in Buildings & Roads category).
2. Should have enlistment in CPWD in appropriate **Class** above Buildings & Roads category.
3. 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.
4. This information and instructions for bidders posted on website shall form part of bid document.
5. The bid document consisting of indicative architectural plans, specifications, schedule of quantities of items to be executed, schedule of stages for payment and the set of terms & conditions of the contract to be complied with and other necessary documents can be seen and downloaded free of cost from website <https://etender.cpwd.gov.in> or <https://eauction.cpwd.gov.in> as applicable.
6. The bid can only be submitted after deposition of original EMD either in the office of Executive Engineer & Senior Manager 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, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribe) issued by a 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.
7. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
8. The intending bidder must have valid **class-III** digital signature to submit the bid.
9. On opening date, the contractor can login and see the bid opening process. After opening of bids, he will receive the competitor bidsheets.
10. Contractor can upload documents in the form of **JPG** format and **PDF** format.
11. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in pink colour and the moment rate is entered, it turns sky blue. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "**0**". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "**0**" (**Zero**). However, if a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section/sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
12. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractor to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
13. The contractor submitting the bid should read the schedule of quantities, Special conditions, additional conditions, particular specifications 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 work with all correction slips issued up to the last date for submission of bid, which is available as Government of India Publication. However, provisions included in the bid document shall prevail over the provisions contained in the standard form. The set of drawings and NIT will be available with the **Executive Engineer Bhubaneswar-II, CPWD, Bhubaneswar**. The contractor should also visit the site of work and acquaint himself with the site conditions before tendering. The following conditions, which already form part of the tender conditions, are specially brought to his notice for compliance while filling the tender. They are requested to comply with the following instructions.
14. Tenders with any condition including that of conditional rebates shall be rejected. Such tenders shall not be entered in the tender opening register at the time of opening of tender.

15. The successful tenderer shall be required to submit a **Performance Guarantee of 5% (Five Percent)** of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher), Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount of the tendered amount within 7 days of issue of letter of intent. This period can be further extended by Engineer-in-Charge upto a maximum period of 7 days on the written request of the contractor subject to payment of late fee @ 0.1% per day of Performance Guarantee amount.
16. GST on all materials as well as GST on Work Contract etc., or any other taxes applicable in respect of this contract shall be payable by the Contractor. Percentage rate quoted by him shall be inclusive of such taxes, levies etc and Government will not entertain any claim for reimbursement whatsoever in respect of the same. The percentage rates of the contract shall be inclusive of all taxes and levies and nothing extra shall be paid. Further the percentage rate quoted by the contractor shall be inclusive of labour welfare cess and the same shall be recovered from the contractors' bills and will be remitted by the department.
17. Applicants are advised to keep visiting the <https://etender.cpwd.gov.in> or <https://eauction.cpwd.gov.in> web-sites as applicable from time to time (till the deadline for bid submission) for any updates in respect of the tender documents, if any. Failure to do so shall not absolve the applicant of his liabilities to submit the applications complete in all respects including updates thereof, if any. An incomplete application may be liable for rejection.
18. The Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribe) issued by a Commercial Bank drawn in favour of **Executive Engineer, BCD-II, CPWD, Bhubaneswar** shall be scanned and uploaded to the e-tendering website within the period of bid submission.

The original EMD should be deposited either in the office of Executive Engineer inviting bids or Division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE /AE) shall issue a receipt of deposition of Earnest Money deposit to the bidder in a prescribed format.
19. 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'.
20. The document to be physically submitted shall be page numbered and each page shall be signed by authorized signatory.
21. 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.
22. 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.
23. **Any dispute arising out of this tender including dispute related to encashment of any Bank Guarantee/ FDR etc., shall be subject to the jurisdiction of courts at Bhubaneswar only.**

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

- (i) Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribe) issued by a Commercial Bank against **EMD in favour of Executive Engineer, BCD-II, CPWD, Bhubaneswar.**
- (ii) Copy of receipt for deposition of original EMD issued from division office of any Executive Engineer, (including NIT issuing EE/AE), CPWD.
- (iii) Enlistment Order of the Contractor.
- (iv) Valid GST Registration for work contract, if already obtained by the bidder.

If the bidder has not obtained GST registration as applicable, then he shall scan and uploaded following undertaking along with bid documents as given below:

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

- (v) Certificate of **ERP** Training.
- (vi) **Affidavit** Form A, B and Declaration Form-C
- (vii) Contractor Contact Details.

Note: The Postal address of Executive Engineer Bhubaneswar-II, CPWD, Bhubaneswar may be noted as below for correspondence and submission of Physical documents.

**O/o The Executive Engineer Bhubaneswar-II,
CPWD, Bhubaneswar .**

**Executive Engineer Bhubaneswar-II
CPWD, Bhubaneswar**

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

SECTION – I**BRIEF PARTICULARS OF THE WORK**

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

Sr. No.	Name of Work	Estimated Cost	Period of completion
1.	“A/R & M/O of Non-Residential Building of CPWD campus, Nirman Bhawan at Pokhariput, Bhubaneswar, Odisha during the financial year 2026-27. S.H.: Civil day to day Annual Repairs & maintenance works.”	Rs.14,64,918/-	12(Twelve) Months

2. The work is situated at **under jurisdiction of EE-II, CPWD, Bhubaneswar (Odisha).**

Work shall be executed according to **General Conditions of Contract 2023** maintenance Work Form 7 for Central P.W.D. Works as amended/corrected up to the last date of submission of bids

Correction – Nil,
 Insertion – Nil,
 Deletion – Nil

AE(P)

EE-BBSR-II

CPWD – 6

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

The Executive Engineer Bhubaneswar-II, CPWD, Bhubaneswar(Odisha)(E-mail:eebcd2bhubaneswar@gmail.com, eebcd2.od@nic.in, Landline No.0674-2352941)behalf of the President of India invites online **Percentage Rate bids**from CPWD enlisted contractors of appropriate **Classor above in Buildings & Roads category** for the following work:“**A/R & M/O of Non-Residential Building of CPWD campus, Nirman Bhawan at Pokhariput, Bhubaneswar, Odisha during the financial year 2026-27. S.H.: Civil day to day Annual Repairs & maintenance works.**”

- 1.0 The enlistment of the contractors should be valid on the last date of submission of bids. In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.
- 1.1 The work is estimated to cost **Rs.14,64,918/-**.This estimated cost, however, is given merely as a rough guide.
- 1.2 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids.
2. Agreement shall be drawn with the successful Tenderer on prescribed Form No. CPWD 7 which is available at Govt. of India Publication and also available on website www.cpwd.gov.in. Tenderer shall quote his Percentage rate as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **12(Twelve) Months** from the date of start as defined in schedule ‘F’ or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. The site for the work will be made available in phased manner.
5. The tender document consisting of specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen free of cost from website <https://etender.cpwd.gov.in> or <https://eauction.cpwd.gov.in> as applicable.
6. After submission of the tender the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
7. While submitting the revised bid, contractor can revise the percentage rate any number of times but before last time and date of submission of tender as notified.
8. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker’s Cheque or Bank Guarantee (as prescribe) issued by a Commercial Bank(**drawn in favour of Executive Engineer, BCD-II, CPWD, Bhubaneswar**) shall be scanned and uploaded to the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

This receipt shall also be uploaded to the e-tendering website by the intending bidder upto the specified bid submission date and time.

A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs.20 lakhs, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any Commercial bank having validity for **Six months or more** from the last date of submission of bids which is to be scanned and uploaded by the intending bidders.

9. Copy of Enlistment Order and other documents as specified in the press notice shall be scanned and uploaded to the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted physically by the lowest bidder only within a week in the office of tender opening authority.

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

10. The bid submitted shall become invalid if:
 - (i) The bidder is found ineligible.
 - (ii) The bidder does not upload all the documents (**including GST registration**) as stipulated in the bid document.
 - (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest tenderer in the office of tender opening authority.
 - (iv) If a tenderer does not quote any percentage above/ below on the total amount of the tender, the tender shall be treated as invalid and will not be considered as lowest.
 - (v) Bids on which any of the prescribed conditions is not fulfilled or any condition including that of conditional rebate is put forth by the bidders.
 - (vi) The lowest bidder does not deposit all the original documents (except those original documents already submitted) within a week **opening of tender**.
 - (vii) The Bidder does not furnish the Performance Guarantee of work as per NIT condition.
11. **Performance Guarantee**
 - i. The Contractor whose tender is accepted, will be required to furnish performance guarantee at specified percentage of the tendered amount as mentioned in Schedule 'E' and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee of any Commercial Bank.
 - ii. The contractor whose tender is accepted will also be required to furnish by way of Security Deposit for the fulfilment of his contract, an amount equal to **2.5%** of the tendered amount of the work. The Security deposit will be collected by deductions from the running bills as well as final bill of the contractor at the rates mentioned above. The Security amount will also be accepted in the shape of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks will be accepted for this purpose provided confirmatory advice is enclosed.
12. 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 PFO, ESIC and BOCW Welfare Board including Provident Fund Code No. if applicable and also ensure the compliance of aforesaid provisions by the sub contractors, if any engaged by the contractor for the said work and Programme Chart (Time and Progress) within the period specified in Schedule F.

13. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and local conditions and other factors having a bearing on the execution of the work.
14. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
15. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
16. **In case of Non submission of Hard copies within 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 Executive Engineer, then the bid submitted shall become invalid and the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderer shall not be allowed to participate in the retendering process of the work.**
17. 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.
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 Chief Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
19. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found 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 bids for the work shall remain open for acceptance for a period of **Thirty days (30)** from the date of opening of bids, Further**
 - a. 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.

- b. 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.
 - c. 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 bidder/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
- (a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
 - (b) Standard C.P.W.D. Form 7 or other Standard C.P.W.D. Form as applicable.
22. **For Composite Bids.**
- a. The Executive Engineer in charge of the major component will call bids for the composite work. The cost of bid document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite bid.
 - b. The bid document will include following three components:

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

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

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

- c. The bidders must associate himself, with agencies as per NIT conditions.
- d. The eligible bidders shall quote rates for all items of major component as well as for all items of minor components of work.
- e. After acceptance of the bid by competent authority, the EE in charge of major component of the work shall issue letter of award on behalf of the President of India. After the work is awarded, the main contractor will have to enter into one agreement with EE in charge of major component and has also to sign two or more copies of agreement depending upon number of EE's/DDH in charge of minor components. One such signed set of agreement.

Shall be handed over to EE/DDH in charge of minor component(s). EE of major component will operate **Part A** and **Part B** of the agreement. EE/DDH in charge of minor component(s) shall operate **Part C** along with **Part A** of the agreement.

- f. Entire work under the scope of composite bid including major and all minor components shall be executed under one agreement.
- g. Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.

- h. The main contractor has to associate agencies for specialized components (s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency(s) to Engineer-in-charge of relevant component(s).within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer-in-charge of relevant component(s).
- i. In case the main contractor intends to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer-in-charge of relevant specialized component(s).
- j. The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-charge is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.
- k. The main contractor has to enter into MoU with agencies contractor(s) associated by him. Copy of such MoU shall be submitted to EE/ DDH in charge of each relevant component as well as to EE incharge of major component. In case of change of associate contractor, the main contractor has to enter into agreement with the new contractor associated by him.
- l. 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.
- m. 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.
- n. Final bill of whole work shall be finalized and paid by the EE of major component.
- o. Engineer(s) in charge of minor component(s) will prepare and pass the final bill for their component of work and pass on the same to the EE of major component for including in the final bill for composite contract

**Executive Engineer Bhubaneswar-II,
CPWD, Bhubaneswar
For & on behalf of President of India**

Information and instructions for Executive Engineer for e-tendering.

- (i) The Executive Engineer of all divisions **including NIT issuing division/sub division** of CPWD should receive the original EMD for tender of other division.
- (ii) The NIT approving authority /EE at the time of issue of NIT shall also fill and upload the following prescribed format of receipt of deposition of original EMD along with NIT.
- (iii) The Executive Engineer receiving EMD in original form shall examine the EMD deposited by the bidder and shall issue a receipt of deposition of earnest money to the agency in a given format uploaded by tender inviting EE. The receipt can also may be issued by the AE(P)/AE/AAO.
- (iv) The Executive Engineer receiving original EMD shall also intimate tender inviting Executive Engineer about deposition of EMD by the agency by email/fax/telephonically.
- (v) The original EMD receiving Executive Engineer shall release the EMD after verification from the e-tendering portal website (Error! Hyperlink reference not valid. free view> advance search>awarded tenders) that the particular contractor is not L-1 tenderer and work is awarded.
- (vi) The tender inviting Executive Engineer will call for original EMD of the L-1 tender from EMD receiving Executive Engineer immediately.
- (vii) The earnest money given by all the tenders except the lowest tenderer should be refunded immediately after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier.

RECEIPT OF DEPOSITION OF ORIGINAL EMD

(Receipt No.date.....)

Name of Work: A/R & M/O of Non-Residential Building of CPWD campus, Nirman Bhawan at Pokhariput, Bhubaneswar, Odisha during the financial year 2026-27. S.H.: Civil day to day Annual Repairs & maintenance works.

1.	NIT No.:	33/NIT/EE-BBSR-II/CPWD/2026-27
2.	Estimated Cost:	Rs.14,64,918/-
3.	Amount of Earnest Money Deposit:	Rs.29,298/-
4.	Last date of submission of bid	03:00 PM on 08.10.2026

1.	Name of the contractor	
2.	Form of EMD	
3.	Amount of Earnest Money Deposit.....	
4.	Date of submission of EMD	

**Signature Name and Designation of EMD
Receiving officer (EE/AE(P)/AE/AAO)
along with office stamp**

(# To be filled by EMD receiving EE or NIT issuing EE/AE as the case may be)

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

State: Odisha

Zone: SDG-Kolkata

Branch: B & R

Division: Executive Engineer BBSR -II,

COMPOSITE PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

Percentage Rate Tender for the work of “A/R & M/O of Non-Residential Building of CPWD campus, Nirman Bhawan at Pokhariput, Bhubaneswar, Odisha during the financial year 2026-27. S.H.: Civil day to day Annual Repairs & maintenance works.”

- (i) To be uploaded upto **03:00 PM on 08.10.2026** at <https://etender.cpwd.gov.in> or <https://eauction.cpwd.gov.in> as applicable.
- (ii) Financial bid to be opened in presence of tenderers who may be present at **03:30 PM on 08.10.2026** in the office of Executive Engineer Bhubaneswar-II, CPWD, Bhubaneswar (Odisha).

TENDER

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

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

We agree to keep the tender open for **Thirty (30) days** from the due date of its opening and not to make any modification in terms & 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 prescribed amount deposited in the form Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribe) issued by a Commercial Bank is scanned and uploaded. If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and 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 of the tender form.

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

Further, I/We agree that in case of forfeiture of performance guarantee as aforesaid I/We shall be debarred for participation in the retendering process of the work.

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

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

Dated.....**

Signature of the Contractor

Witness:-----**

Postal Address-----**

Address:-----

E-MAIL-----

Occupation:-----

FAX-----

TelephoneNo ----- **

** To be filled by contractor/witness.

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

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. ----- (Rs. -----).
-----).

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

- a)
- b)
- c)

For & on behalf of President of India

Signature.....

Designation.....

Date.....

PROFORMA OF SCHEDULES**SCHEDULE 'A'**

Schedule of quantities

Schedule of Quantities for **Civil and Electrical** Page No **116 to 125**

SCHEDULE 'D' Extra schedule for specific requirements/ document for the work, if any.	Not Applicable
SCHEDULE 'E' Reference to General Conditions of Contract	General Conditions of Contract-2023 Maintenance Work as modified & corrected upto the last date of submission of the tender.
Name of Work	A/R & M/O of Non-Residential Building of CPWD campus, Nirman Bhawan at Pokhariput, Bhubaneswar, Odisha during the financial year 2026-27. S.H.: Civil day to day Annual Repairs & maintenance works.
Estimated cost of work	Rs.14,64,918/-
Earnest money	Rs.29,298/- (to be returned after receiving Performance Guarantee)
Performance guarantee	a. 5% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher). b. Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.
Security deposit	2.5% of Tendered Value
SCHEDULE 'F'	
GENERAL RULES & DIRECTIONS: Officer inviting tender	Executive Engineer Bhubaneswar-II, CPWD, Bhubaneswar (Odisha) or successor thereof.
Definitions:	
Engineer-in-Charge (Major Component)	Executive Engineer Bhubaneswar-II, CPWD, Bhubaneswar (Odisha) or successor thereof.
Engineer-in-Charge (Minor Component)	Executive Engineer Electrical Bhubaneswar, CPWD, Bhubaneswar (Odisha) or successor thereof.
Accepting Authority	Chief Engineer, CPWD, Bhubaneswar or successor thereof.
Percentage on cost of materials and labour to cover all overheads and profits:	15%
Standard Schedule of Rates	• DSR-2023 (Civil works) plus cost index and correction slip(s) issued upto the last date of submission of Bid.
Department	Central Public Works Department.
Standard CPWD Contract Form	General Conditions of Contract-2023 Maintenance Work, CPWD Form 7 as modified & corrected upto the last date of submission of the tender.
Clause 1	

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

(i) Time allowed for submission of Performance Guarantee, Programme chart (time and progress) and applicable labour licenses, registration with EPFO, ESIC, action Plan for Green Rating Certification, BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance.	7 days
(ii) Maximum allowable extension with late fee at 0.1% per day of performance guarantee amount beyond the period provided in (i) above	7 days
Clause 2	
Authority for fixing compensation under clause 2	Chief Engineer, CPWD, Bhubaneswar or successor thereof.
Clause 5	
Number of days from the date of issue of letter of acceptance for reckoning date of start	10 days

Table of Milestones			
No.	Description	Period of completion	Amount to be withheld in case of non achievement of milestone. (% of tender amount)
1	Financial achievement of 25% of total work amount	3	1.25%
2	Financial achievement of 50% of total work amount	6	1.25%
3	Financial achievement of 75% of total work amount	9	1.25%
4	Financial achievement of 100% of total work amount	12	1.25%
		Total	5%
Time allowed for execution of work:		12 Months	
Authority to decide:			
(i)	Authority to convey the decision of shifting of milestone and Extension of time	Executive Engineer Bhubaneswar-II, CPWD, Bhubaneswar or successor thereof.	
(ii)	Authority to decide rescheduling of milestone and extension of time.	Chief Engineer, CPWD, Bhubaneswar or successor thereof.	
(ii)	Shifting of date of start in case of delay in handing over of site	Chief Engineer, CPWD, Bhubaneswar or successor thereof.	
Clause 5 Schedule of handing over of site			
Part	Portion of site	Description	Time Period for handing over reckoned from date of issue of letter of intent.
Part A	Portion without any hindrance	100%	
Part B	Portions with encumbrances	*	
Part C	Portions dependent on work of other agencies	*	
Clause 5 Schedule of issue of designs			
Part	Portion of site	Description	Time Period for handing over reckoned from date of

Correction – Nil,

Insertion – Nil,

Deletion – Nil

AE(P)

EE-BBSR-II

			issue of letter of intent.
Part A	Portion without any hindrance	100%	
Part B	Portions with encumbrances	*	
Part C	Portions dependent on work of other agencies	*	
	* To be filled by EE-II, CPWD, Bhubaneswar		
5.4	Recovery per day basis in case of delay in submission of the revised programme	Rs.2500/-	
Clause 6		Electronic Measure Book (EMB)/ through ERP Portal /CMB	
Clause 7			
Gross work to be done together with net payment / adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment		Rs. 1.22 lakh	
Clause 7A Whether Clause 7A shall be applicable		Yes Applicable	
Clause 8A Authority to decide compensation on account if contractor fails to submit completion plans.		Engineer-in-Charge	
Clause 10A List of testing equipments to be provided by the contractor at site		Applicable as per Annexure -IV.	
Clause 10 B (ii) Whether clauses 10 B (ii) shall be applicable		Applicable	
Clause 10C (Applicable in only those contracts where clause 10CC is not applicable) Components of labour expressed as percent of value of work		As per major component. If applicable, then 25%.	
Clause 10CC		Not Applicable	
A. For construction Period			
Relevant component of Material/Labour for price escalation		Percentage of total value of work	
Component of Cement			
Component of Labour			
Civil component of other Construction Materials			
E&M component of construction materials			
Component of POL (Disel)			
Reinforcement steel bars/TMT bars/Structural steels (including strands and cables) component			
Component of Bitumen			
TOTAL			
B. For maintenance period		Not Applicable	
Clause 11			

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

Specifications to be followed for execution of work	1. CPWD specification 2019 (Vol-I & Vol.II) with upto date correction slips will be followed in general and where CPWD specification is silent, relevant BIS codes shall be followed. 2. CPWD General Specification for Electrical Works with correction slips issued upto last day of receipt of Bids. a) Part I Internal 2023. b) Part-II External 2023. c) Part-III-Lift & Escalators - 2003 . d) Part-IV Sub Station – 2013 e) Part V Wet Riser & Sprinkler Systems – 2020 f) Part VI Fire Detection and Alarm System – 2018 g) Part VII D.G. Sets - 2013 h) Part VIII Gas Based Fire Extinguishing System 2013. i) HVAC - 2024.
Building information model (BIM) is applicable and BIM professional to be deployed by contractor	NO
Clause 12	
Type of work	Maintenance Work
12.2(c) Deviation limit beyond which clauses 12.2(c) shall apply for building work. (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.	No Limit
Clause 16 Competent authority for deciding reduced rates.	Chief Engineer, CPWD, Bhubaneswar or successor thereof.
Clause 18 List of mandatory machinery, tools & plants to be deployed by the contractor at site.	Applicable as per Annexure -V.
Clause 19	
Clause 19 C	Engineer -in- Charge
Clause 19 D	Engineer -in- Charge
Clause 19 G	Engineer -in- Charge
Clause 19 K	Engineer -in- Charge
Clause 25	
(i) Conciliator	SDG (Kolkata).
(ii) Arbitrator Appointing Authority	Chief Engineer, CPWD, Bhubaneswar.
(iii) Place of Arbitration	To be decided by Arbitrator in consultation with both the parties.
Clause 32	
Requirement of technical representative(s) and recovery rate (Civil & Electrical)	

Sl. No.	Minimum Qualification of Technical Representative	Designation of Technical Staff	Minimum experience (Years)	Number (of major + minor component)	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 32	
					Figures	Words
1	Graduate Engineer Or Diploma Engineer	Project Manager cum Planning/quality/ Site/billing Engineer	2 Years or 5 Years Respectively	1 + 1	Rs.15,000/- per month	Rupees Fifteen Thousand per month.

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

Diploma holder with minimum 10 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 should not exceed 50% of requirement of degree engineers.

Minimum recovery for not deploying Building Information Model (BIM) professional shall be Rs. Two lac per month or as mentioned above, whichever is higher – (applicable for this work).

Clause 38			
(i)	(a)	Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of “Delhi Schedule of Rates 2021 with upto date correction slips issued upto previous day of last date of submission of tender.	
(ii)		Variations permissible on theoretical quantities:	
	(a)	Cement for works with estimated cost put to tender more than Rs.25 lakh.	2% plus/ minus
	(b)	Bitumen all works	2.5% plus only and nil on minus side
	(c)	Steel reinforcement and structural steel sections for each diameter, section and category	2% plus/ minus
	(d)	All other materials.	Nil
Sl. No	Description of item	Rates in figure and words at which recovery shall be made from the Contractor	
		Excess beyond permissible variation	Less use beyond the permissible variation
1	Cement (PPC)	Not Applicable	Not Permitted
2	Reinforcement bars(TMT) (a)Primary Producer	Not Applicable	Not Permitted
3	Structural steel	Not Applicable	Not Permitted

**Executive Engineer Bhubaneswar- II,
CPWD, Bhubaneswar**

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	EE-BBSR-II
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Annexure-IOn non judicial stamp paper of minimum Rs. 100.

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

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

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

OR**

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

2. We, (indicate the name of the bank) (herein after referred to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs (Rupees only) on demand by the Government within 10 days of the demand.
3. We, (indicate the name of the Bank), do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs (Rupeesonly).
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

Correction – Nil,
 Insertion – Nil,
 Deletion – Nil

AE(P)

EE-BBSR-II

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:

Signature.....
Name and address

Authorized signatory
Name:
Designation:
Staff code no:
Bank seal:

Signature.....
Name and address

- * Date to be worked out on the basis of validity period of 90 days where only financial bids are invited and 180 days for two/three bid system from the date of submission of tender.
- ** In paragraph 1, strike out the portion not applicable. Bank Guarantee will be made either for earnest money or for performance guarantee/security deposit/mobilization advance, as the case may be.

Annexure-II**Sample letter for Acceptance of tender****By REGISTERED POST**

No.

Dated,

To

(Name and Address of the contractor)

Subject: (Name of work as appearing in the tender for the work).

Dear Sir(s)

Your tender for the work mentioned above has been accepted on behalf of the President of India at your tendered / negotiated tender amount of Rs. (Rupees.) which is% below / above the estimated cost of Rs. (Rupees.)

1. You are requested to submit the performance guarantee of Rs. (Rupees.) within 7 days of issue of this letter. The Performance Guarantee shall be in any of the prescribed form as provided in Clause – I of the General Condition of Contracts for CPWD Works and shall be valid upto On receipt of prescribed performance guarantee necessary letter to commence the work shall be issued and site of work shall be handed over to you thereafter.

2. Please note that the time allowed for carrying out the work as entered in the tender days, will be reckoned from **10 days** subject to maximum allowable extension under Clause

1(ii), from the date of issue of this letter.

Yours faithfully,

Executive Engineer

For & on behalf of President of India

..... Division, CPWD

Correction – Nil,

Insertion – Nil,

Deletion – Nil

AE(P)

EE-BBSR-II

Annexure-III**Sample letter for Commencement of works****By Registered Post**

No.

Date:

To

(Name and Address of the contractor)

Subject: (Name of work as appearing in the tender for the work).

Ref: 1. Performance guarantee submitted by you vide your letter No Dated for above work.

2. This office letter of intent/ acceptance of tender No.....dt.....

Dear Sir(s)

1. In continuation to the letters referred above, you are requested to attend this office to complete formal agreement within 7 days from stipulated date of start.

2. You are requested to contact the Assistant Engineer (complete address) for taking possession of site and starting the work on or before days from the date of letter of acceptance of tender. Please note, that the time allowed for carrying out the work as entered in the tender () days, will be reckoned from to days subject to maximum allowable extension under Clause 1(ii), from the date of issue of acceptance letter

Yours faithfully,

Executive Engineer

For & on behalf of President of India

.....Division, CPWD

Correction – Nil,
 Insertion – Nil,
 Deletion – Nil

AE(P)

EE-BBSR-II

Annexure-IV**FIELD TESTING EQUIPMENT AND INSTRUMENTS TO BE PROVIDED BY
THE CONTRACTOR AT HIS OWN COST****A. Testing Equipment at Field Laboratories (Minimum numbers specified against each of them)****Balances**

Kg to 10 kg capacity, semi-self indicating type- Accuracy 10 gm

500 gm capacities, semi-self indicating type- Accuracy 1 gm

Pan balance- 5kg capacity- Accuracy 10 gms

Sieves as per IS 460-1962.

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

IS sieves - 200mm internal dia (brass frame), consisting of 2.36mm, 1.18mm, 600 microns, 425 microns, 300 microns, 212 microns, 150 microns, 90 microns, 75 microns with lid and pan.

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

Dial gauges, 25mm travel- 0.01mm/division least count - 1 nos.

Graduated measuring cylinders 200 ml capacity – 2 Nos.

Enamel trays (for efflorescence test for bricks)

(i) 300 mm x 250 mm x 40 mm - 1 Nos.

(ii) Circular plates of 250mm dia - 2 Nos.

Concrete cube moulds 15 x 15 x 15cm - 30 Nos.

(B) FIELD TESTING INSTRUMENTS

1. Steel tapes-3m

2. Vernier calipers

3. Micrometer screw 25mm gauge.

4. A good quality plumb bob.

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

6. Wire gauge (circular type) disc.

7. Foot rule

8. Long Nylon thread

9. Magnifying glass.

10. Screw driver 30cms long

11. Ball pin hammer, 100 gms

12. Plastic bags for taking samples.

13. Universal Testing Machines - 1 Nos (Properly calibrated)

Field testing equipment shall be arranged by the contractor as per the requirement of work.

Correction – Nil,

Insertion – Nil,

Deletion – Nil

AE(P)

EE-BBSR-II

Annexure-V
**LIST OF MACHINERY, TOOLS & PLANTS TO BE DEPLOYED BY THE
 CONTRACTOR AT SITE**

Sl. No.	Equipment	Numbers (Tentative)
1.	Excavator cum loader (JCB 3D model or equivalent).	1 No
2.	Needle Vibrators.	6 Nos
3.	Reinforcement bending machine.	3 Nos
4.	Reinforcement cutting machine.	3 Nos
5.	Total station with distance meter.	1 No
6.	Tractor with trolley.	2 Nos
7.	Water tanker (minimum capacity 5000 ltrs).	2 Nos
8.	Welding machine 400 Ampere	3 Nos
9.	Screener for coarse sand and fine sand	1 No
10.	Centrifugal mono block water pump suitable for minimum 30 m head.	2 Nos
11.	Building hoist with winch machine (750kg gross load and height upto 60ft.)	1 No
12.	DG sets of adequate capacity.	As per Actual requirement
13.	Reversal drum mixer machine with hopper	1 No
14.	Semi Automatic Cement Concrete Batch Mixing Plant 8-12 Cum/Hour capacity with printing facilities	1 No
15.	Dumper	2 Nos
16.	Power driven earth rammer.	As per Actual requirement
17.	Auto level & staff.	1 No
18.	Pile rigs or equivalent equipment for pile work as per design parameter	2 Nos
19.	Iron Boxes of size 25x35x40 cm	6 Nos
20.	Shuttering Plate	1500 Sqm
21.	Steel Props	2500 Nos.
22.	Column shuttering sets	Complete set of One floor
23.	Any other machinery required for completion of the work as per decision of Engineer-in-Charge.	As per Actual requirement

Note: The above list is only indicative and not exhaustive.

Correction – Nil,
 Insertion – Nil,
 Deletion – Nil

AE(P)

EE-BBSR-II

Annexure-VI**GUARANTEE FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER PROOFING WORKS.**

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

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

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said structures will remain water and leak-proof FOR TEN years to be reckoned from the date after the maintenance period prescribed in the contract.

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

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

(I) Misuse of roof shall mean any operation which will damage proofing treatment like chopping of firewood and the things of same nature which might cause damage to the roof

(II) Alteration shall mean construction of an additional storey or a part of the roof or construction adjoining to existing roof whereby proofing treatment is removed in parts.

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

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

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

IN WITNESS WHERE-OF these presents have been executed by the obligor _____ and by _____ and for and on behalf of the PRESIDENT OF INDIA on the month and year first above written.

SIGNED, sealed and delivered by (OBLIGOR) in the presence of.

- 1.
- 2.

Signed for and on behalf of the PRESIDENT OF INDIA by _____ in presence of:

- 1.
- 2.

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

GUARANTEE BOND TO BE EXECUTED BY THE CONTRACTOR
FOR REMOVAL OF DEFECTS AFTER COMPLETION
IN RESPECT OF ALUMINIUM DOORS, WINDOWS VENTILATOR WORK/FIRE RATED DOOR.

The agreement made this..... day of (Two Thousand only)..... betweenS/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 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 or N.O.C. issued by the Fire Services Department which ever is later.

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)

EE-BBSR-II

Annexure-VIII

**GUARANTEE BOND TO BE EXECUTED BY THE CONTRACTOR
FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF
ACOUSTICAL TREATMENT WORK.**

The agreement made this..... day of (Two Thousand only)..... betweenS/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 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, colour, workmanship and its properties 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, colour, workmanship and its properties 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)

EE-BBSR-II

AFFIDAVIT

I/we undertake and confirm that our firm/partnership firm has not been blacklisted by any state/Central Departments/PSUs/Autonomous bodies during the last 7 years of its operations. Further that, if such information comes to the notice of the department then I/we shall be debarred for bidding in CPWD in future forever. Also, if such information comes to the notice of department on any day before date of start of work, the Engineer-in-charge shall be free to cancel the agreement and to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee (Scanned copy of this notarized affidavit to be uploaded at the time of submission of bid)

NOTE: Affidavit to be furnished on a 'Non-Judicial' stamp paper worth Rs.100/-

Signature of Bidder(s) or an authorized

Officer of the firm with stamp

Signature of Notary with seal

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

FORM 'B'**Affidavit as per CPWD – 6.**

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

NOTE: Affidavit to be furnished on a 'Non-Judicial' stamp paper worth Rs.100/-

Signature of the Contractor :

Name of Contractor

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

DECLARATION ABOUT SITE INSPECTION**To,**

**The Executive Engineer-II,
CPWD, Bhubaneswar.
Nirman Bhawan Pokhariput,
Bhubaneswar**

.

Name of Work: - A/R & M/O of Non-Residential Building of CPWD campus, Nirman Bhawan at Pokhariput, Bhubaneswar, Odisha during the financial year 2026-27. S.H.: Civil day to day Annual Repairs & maintenance works.

N.I.T. No.33/NIT/EE-BBSR-II/CPWD/2026-27

Dear Sir,

It is hereby declared that as per CPWD-6 FOR e-BIDDING, I/ We the bidder(s) inspected and examined the subject site and its surrounding and satisfy myself / ourselves as to the nature of the ground and sub-soil (so far as is practicable), the forms and nature of the site. Ourselves before submitting the bid, the accommodation which may require and all necessary information as to risks, contingencies and other circumstances which may influence or affect our bid have been obtained. I/We the bidder shall have full knowledge of the site and no extra charge consequent upon any misunderstanding or otherwise shall be claimed in later date.

I /We bidder shall be responsible for arranging and maintaining at 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 me/us implies that I / We have read this notice and all other contract documents and has / have made myself /ourselves aware of the scope and specifications of the work to be done and local conditions and other factors having a bearing on the execution of the work.

Yours faithfully

(Duly authorized signatory of the bidder)

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

PART-B

CIVIL WORKS

SPECIAL CONDITIONS CIVIL WORKS

- 1) The work shall be carried out as per CPWD Specifications 2019 Vol. I & II with upto date correction slips, particular specifications, structural drawings and as per instruction of Engineer-in-charge.
- 2) Unless otherwise specified in the schedule of quantities, particular specifications or CPWD specifications (subject to the order or preference) the rates tendered by the tenderer shall be all inclusive and nothing extra over and above the schedule of quantity shall be payable on this account.
- 3) Wherever any reference to any Indian Standards occurs in the documents relating to this contract, the same shall be inclusive of all amendments issued thereto or revisions thereof, if any, up to the date of receipt of tenders.
- 4) 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 submission of their bids. The site is available for work. The contractor shall carry out survey of the work area, at his own cost, setting out the layout and fixing of alignment of the building as per architectural and structural drawings in consultation with the Engineer-in-charge and proceed further ensuring full structural continuity and integrated and monolithic construction. Any discrepancy between the architectural drawings and actual layout at site shall be brought to the notice of the Engineer-in-charge.
- 5) The Contractor shall, if required by him, before submission of the bid, inspect the drawings in the Office of the **Executive Engineer Bhubaneswar-II, CPWD, Bhubaneswar**. The department shall not bear any 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 bid documents have been furnished, in good faith, for general information and guidance only. The Engineer-in-Charge, in no case, shall be held responsible for the accuracy thereof and/or interpretations or conclusions drawn there from by the Contractor and all consequences shall be borne by the Contractor. No claim, whatsoever, shall be entertained from the Contractor, if the data or information furnished in bid document is different or in-correct otherwise or actual working drawings are at variance with the drawings available for inspection or attached to the bid document. It is presumed that the Contractor shall satisfy himself for all possible contingencies, incidental charges, wastages, bottlenecks etc. likely during execution of work and acts of coordination, which may be required between different agencies. Nothing extra shall be payable on this account.
- 6) 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 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 incidental works due to variation / change in actual working drawings. Also, no adjustment of rates shall be made due to any change in incidental works or any other deviation in such element of work (which 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.

- 7) The contractor shall give to the local body, police and other authorities all necessary notices etc. that may be required by law and obtain all requisite licenses for temporary obstructions, enclosures etc. and pay all fees, taxes and charges which may be leviable on account of these operations in executing the contract. Proper temporary barricading by fencing with G.I. sheets, shall be carried out by the contractor at the start of work as per direction of Engineer-in-charge in order to physically define the boundaries of the plot for restricted entry to only those involved in the work and also to prevent any accidents, at the same time without causing any inconvenience to the traffic and the users of the handed over buildings in the adjacent plots. It shall be done by providing, erecting, maintaining temporary protective barricading of minimum 3.0 meters in height, made in panels, with each panel having MS frames / MS scaffolding pipes of suitable size and stiffness, with 24 gauge thick GI corrugated sheet or suitably stiffened plain GI sheet fixed on frames. Such panels shall be suitably connected to each other for stability with nuts and bolts, hooks, clamps etc. and fixed firmly to the ground at about 2 metres spacing, for the entire duration till completion of the work. He shall also provide and erect temporary protective barricades within the plot, if required, to prevent any accident. It shall be dismantled and taken away by the Contractor after the completion of work at his own cost with the approval of the Engineer-in-charge. Nothing extra shall be payable on this account.
- 8) The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night. In case of any accident to labours/ contractual staff the entire responsibility will rest on the part of the contractor and any compensation under such circumstances, if becomes payable, shall be entirely borne by the contractor.
- 9) The work shall generally be carried out in accordance with the “CPWD Specifications 2019 Vol.I& II with up to date Correction clips, additional/ Particular Specifications, Architectural/ Structural drawings and as per instructions of Engineer-in charge. Any additional item of the work, if taken up subsequently, shall also conform to the relevant CPWD Specifications as mentioned above. Working (both Architectural and Structural) drawings will be released progressively to the contractor commensurate to the construction schedule approved by Engineer-in-charge.
- 10) The several documents forming the tender are to be taken as mutually complementary to one another. Detailed drawings shall be followed in preference to smallscale drawings and figured dimensions in preference to scaledimensions.
- 11) In case of 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 items as given in Schedule of quantities
 - ii. Particular specifications
 - iii. Special conditions
 - iv. Tender drawings attached
 - v. CPWD Specifications including correction slips issued up to the last date of uploading/ submission of tender.
 - vi. General Conditions of Contract for CPWD work including correction slips issued up to the last date of uploading/submission of tender.
 - vii. Indian Standards Specifications of B.I.S.
 - viii. ASTM, BS, or other foreign origin codes mentioned in tender document.
 - ix. Manufacturer’s specifications and as decided by the Engineer-in-Charge.
 - x. Sound Engineering practices or well established local construction practices.
12. The works to be governed by this contract shall cover delivery and transportation up to destination, safe custody at site, insurance, erection and commissioning of the E&M services of the entire work.
- 13 The work shall be carried out in accordance with the approved Architectural structural drawings & service 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 structural drawings, Specifications etc. issued for the work and satisfy himself that the information available from there is complete and unambiguous. The figure and written dimension of the drawings shall be superseding the measurement by scale. The discrepancy, if any, shall be brought to the notice of the Engineer-in-charge before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and or incomplete information and no claim whatsoever shall be entertained by the department on this account.

14. The delay caused on account of non-timely action by the contractor in resolution of the differences whatsoever shall not be considered as valid ground for extension of time unless otherwise accepted by Engineer-in-charge.
15. Unless otherwise provided in the Schedule of quantities, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing extra shall be payable to him on this account. Payment for centering, shuttering, however, if required to be done for floor heights greater than 3.5m shall be admissible at rates arrived in accordance with clause 12 of the agreement if not already specified.
16. The contractor shall take instructions from the Engineer-in-Charge regarding collection and stacking of materials at suitable place. No stacking of materials or excavated earth or building rubbish shall be stacked on areas where other buildings, roads, services and compound walls are to be constructed. The stacking shall take place as per stacking plan. However, if any change is required, the same shall be done with the approval of Engineer- in-Charge.
17. The Contractor shall bear all incidental charges for Cartage, storage and safe custody of materials, if any, issued by department as well as to those materials also arranged by the contractor.
18. Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been built in the execution of work and nothing extra shall be payable or extra cement considered in consumption on this account.
19. The contractor shall make his own arrangements for water and for obtaining electric connections if required and make necessary payments directly to the State Govt. departments concerned. Contractor shall get the water tested from laboratory approved by the Engineer-in-charge at regular interval as per the CPWD Specifications 2019. All expenses towards collection of samples, packing, transportation etc. shall be borne by the contractor. Work shall normally be done in a single shift/day. However if the work is required to be executed in more than one shift in a day for meeting the time lines, the Contractor with prior approval of the Engineer-in-charge, shall have to make necessary arrangements for the same and all costs towards the same shall be deemed to have been included in the quoted rates.

PREVENTION OF NUISANCE AND POLLUTION:

20. The Contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupants in the campus or other client Department campuses and to the public in general and to prevent any damage to such properties and any pollution. 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 what so ever caused due to the execution of the work or by traffic brought thereon by the contractor. All waste or superfluous materials shall be cleaned away by the contractor without any reservations entirely to the satisfaction of the Engineer in charge.
21. 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

Correction – Nil,
Insertion – Nil,
Deletion – Nil

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- entertained from the contractor. Therefore, the contractors are advised to visit site and get first hand information of site constraints. Accordingly, they should quote their tenders. Nothing extra shall be payable on this account.
22. No inflammable materials including P.O.L shall be allowed to be stored in huge quantity at site. However, reasonable quantity may be permitted for storage, 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.
 23. No Waiving of Legal Rights and Powers : The Engineer-in-Charge shall not be precluded or stopped from taking any measurements, and framing of estimates or detaining any certificates made either before or after the completion and acceptance of the work and payment, from showing the true amount and character of the works performed and materials furnished by the contractor and from showing that any such measurements, estimates or certificates untrue or incorrectly made and that Engineer-in-charge shall not be precluded or stopped from recovering from the contractor such damages as it may be sustained by reasons of his failure to comply with the terms and conditions of the contract.
 24. The contractor shall take into account the element of wastage/wastages those are likely to be there in all elements of the work and quote his price, taking that into account. The contractor shall study all the items from the point of view of wastage / wastages, which are likely to take place.
 25. The contractor shall ensure that at no point of time there should be any hindrance to the other construction activities going on in the Campus. Therefore, he shall sequence his construction activity in different stretches accordingly. Nothing extra shall be payable on this account.

26. SECURITY AND TRAFFIC ARRANGEMENTS

In the event of any restrictions being imposed by the Security agency of Client Department / CPWD or any other local authority having jurisdiction in the area on the working or movement of labour/ material, the contractor shall strictly follow such restrictions and nothing extra shall be payable to him on such accounts. The loss of time on these accounts, if any, shall have to be made up by augmenting additional resources whatever required.

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

- | | | |
|------|---------------|---|
| i. | IS 3696PartI | Safety Code for scaffolds and ladders. |
| ii. | IS 3696PartII | Safety Code for scaffolds and ladders Part II ladders. |
| iii. | IS 764 | Safety Code for excavation work. |
| iv. | IS 4138 | Safety Code for working in compressed air. |
| v. | IS 7293 | Safety Code for working with construction machinery. |
| vi. | IS 7969 | Safety Code for storage and handling of building materials. |
| vii. | IS 4130 | Safety code for demolition of buildings. |

27. The contractor is required to make his own arrangements to provide huts for labourers as is acceptable to local bodies / client and nothing extra shall be paid on this account. He shall make his own arrangements for stores, field office etc. Before bidding, he shall visit the site and assess the manner in which he is able to arrange the above facilities. The Engineer-in-charge shall in no way be responsible for any delay on this account and no claim, whatsoever, on this account shall be entertained.

28. No payment shall be made for any damage caused by rain, snowfall, flood or any other natural calamity, whatsoever during the execution of the work. The contractor shall be fully responsible for any damage to the govt. property and the work for which payment has been advanced to him under the contract and he shall make good the same at his risk and cost. The contractor shall be fully responsible for safety and security of his material, T&P/Machinery brought to the site by him.
29. The contractor shall construct suitable godowns, yard at the site of work for storing all other materials so as to be safe against damage by sun, rain, damages, fire, theft etc. at his own cost and also employ necessary watch and ward establishment for the purpose at his cost.
30. All materials obtained from contractor shall be got checked by the representative of Engineer-in-Charge on receipt of the same at site before use.
31. The contractor shall be responsible for the watch and ward/guard of the buildings, safety of all fittings and fixtures including all equipments, services 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 and no claim shall be admissible on this account.
32. 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 / Odisha State Govt. 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. 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 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. The clause 30A of the General conditions of contract for CPWD works is not applicable to the tender. The Contractor shall arrange to give all notices as required by any statutory / regulatory authority and shall pay to such authority all the fees that is required to be paid for the execution of work. He shall protect and indemnify the Department and its officials & employees against any claim and /or liability arising out of violations of any such laws, ordinances, orders, decrees, by himself or by his employees or his authorized representatives. Nothing extra shall be payable on these accounts.
33. For works below ground level the contractor shall keep that area free from water. If dewatering or bailing out of water is required the contractor shall do the same at his own cost and nothing extra shall be paid except otherwise provided in the items of Schedule of Quantities.
34. The contractor shall make all necessary arrangements for protecting works already executed from rains, fog or likewise extreme weather conditions and for carrying out further work, during monsoon including providing and fixing temporary shelters, protections etc. Nothing extra shall be payable on this account and also no claims for hindrance shall be entertained on this account.
35. The contractor will take reasonable precautions to prevent his workman and employees from removing and damaging any flora (plant/vegetation) from the project area.
36. SETTING OUT
- (i) The contractor shall carry out survey of the work area, at his own cost, setting out the layout of building in consultation with the Engineer-in-charge & proceed further. Any discrepancy

between in the drawings and actual layout at site shall be immediately brought to the notice of the Engineer-in-charge. It shall be responsibility of the contractor to ensure correct setting out of alignment. Total station survey instruments only shall be used for layout, fixing boundaries, and centre lines, etc., Nothing extra shall be payable on this account.

- (ii) The contractor shall establish, maintain and assume responsibility for grades, lines, levels and benchmarks. He shall report any errors or inconsistencies regarding grades, lines, levels, dimensions etc to the Engineer-in-charge before commencing work. Commencement of work shall be regarded as the contractor's acceptance of such grades, lines, levels, and dimensions and no claim shall be entertained at a later date for any errors found.
- (iii) If at any time, any error appears due to grades, lines, levels and benchmarks during the progress of the work, the contractor shall, at his own expense rectify such error, if so required, to the satisfaction of the Engineer-in-charge. Nothing extra shall be payable on this account.
- (iv) Though the site levels are indicated in the drawings the Contractor shall ascertain and confirm the site levels with respect to benchmark from the concerned authorities. The Contractor shall protect and maintain temporary/ permanent benchmarks at the site of work throughout the execution of work. These benchmarks shall be got checked by the Engineer-in-Charge or his authorized representatives. The work at different stages shall be checked with reference to benchmarks maintained for the said purpose. Nothing extra shall be payable on this account.
- (v) The approval by the Engineer-in-charge, of the setting out by the contractor, shall not relieve the Contractor of any of his responsibilities and obligation to rectify the errors/ defects, if any, which may be found at any stage during the progress of the work or after the completion of the work.
- (vi) The contractor shall be entirely and exclusively responsible for the horizontal, vertical and other alignments, the level and correctness of every part of the work and shall rectify effectively any errors or imperfections therein. Such rectifications shall be carried out by the Contractor at his own cost to the entire satisfaction of the Engineer-in-charge.

37. TOOLS AND PLANTS

The contractor should deploy constructions equipment required for the proper and timely execution of the work. Nothing extra shall be paid on this account.

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.

38. SCAFFOLDING

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

39. The contractor shall do proper sequencing of the various activities by suitably staggering the activities so as to achieve early completion. The contractor is to deploy adequate equipment, machinery and labour as required for the completion of the entire work within the stipulated period as specified. Also ancillary facilities shall be provided by contractor commensurate with requirement to

complete the entire work within the stipulated period. Nothing extra shall be payable on this account. Adequate number/sets of equipment in working condition, along with adequate stand-by arrangements, shall be deployed during entire construction period. It shall be ensured by the contractor that all the equipment, Tools & Plants, machineries etc. provided by him are maintained in proper working condition at all times during the progress of the work and till the completion of the work. Further, all the constructional tools, plants, equipment and machineries provided by the contractor, on site of work or his workshop for this work, shall be exclusively intended for use in the construction of this work and they shall not be shifted/ removed from site without the permission of the Engineer-in-charge.

40.ROYALTY

Royalty/Seigniorage Fee at the prevalent rates shall be deducted from the Bills payable to the Contractor, as per Gazette Notification No. 2280 dated 14.12.2016 issued by Steel & Mines Department,(Copy enclosed), on all materials such as boulders, metals, all sizes stone aggregates, brick aggregates, coarse and fine sand, moorum, river sand/ Manufactured sand, gravels and bajri etc. collected by him for the execution of the work. The rates quoted by the contractor shall be inclusive of such Royalty and taxes etc. And nothing extra shall be payable on this account.

The Odisha Gazette

EXTRAORDINARY
PUBLISHED BY AUTHORITY

No.2280, CUTTACK, THURSDAY, DECEMBER 15, 2016/MARGASIRA 24, 1938

STEEL & MINES DEPARTMENT

NOTIFICATION

The 14th December, 2016

ODISHA MINOR MINERAL CONCESSION RULES, 2016

S.R.O. No. 601/2016— In exercise of the powers conferred by sub-section (1) of Section 15 of the Mines and Minerals (Development and Regulation) Act, 1957 (67 of 1957) and in supersession of the provisions contained in the Odisha Minor Mineral Concession Rules, 2004, except as respects things done or omitted to be done before such supersession, the State Government hereby makes the following rules for regulating the grant of mineral concessions in respect of minor minerals and for the purposes connected therewith, namely:—

CHAPTER-I PRELIMINARY

1. Short title and commencement:— (1) These rules may be called the Odisha Minor Mineral Concession Rules, 2016.

(2) They shall come into force on the date of their publication in the *Odisha Gazette*.

2. Definitions:— (1) In these rules, unless the context otherwise requires,—

- (a) "Act" means the Mines and Minerals (Development and Regulation) Act, 1957;
- (b) "Additional charge" means the amount payable by a successful bidder on unit quantity of minerals towards auction money in addition to other charges leviable under these rules;
- (c) "Authorized Officer" means the Director of Mines or Director of Geology or any officer of the Directorate of Mines or Directorate of Geology duly authorized by the Government in writing for the purpose;
- (d) "Captive use" means use of the entire quantity of mineral(s) extracted from the mining lease in a mineral processing unit or mineral beneficiation unit owned by the lessee excluding the mineral of substandard quality or mineral rejects;
- (e) "Collector" means the Chief Officer-in-Charge of the revenue administration of a district and also includes the Additional District Magistrate;

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Correction – Nil,
Insertion – Nil,
Deletion – Nil

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SCHEDULE - II

[See Rule 25(5) and 32(2)]

Royalty

Rate of Royalty
Per tonne/cubic meter

1. Agate	Twelve percent of average sale price on ad valorem basis
2. Ball Clay	
Crude	Eight percent of average sale price on ad valorem basis
Processed	Twelve percent of average sale price on ad valorem basis
3. Barytes	Six and half percent of average sale price on ad valorem basis
4. Calcareous Sand	Twelve percent of average sale price on ad valorem basis
5. Calcite	Fifteen percent of sale price on ad valorem basis
6. Chalk	Twelve percent of sale price on ad valorem basis
7. China clay	
Crude	Eight percent of average sale price on ad valorem basis
Processed	Twelve percent of average sale price on ad valorem basis
8. Clay (Others)	Rupees seventy per cubic metre
9. Corundum	Twelve percent of average sale price on ad valorem basis
10. Diaspore	Twelve percent of average sale price on ad valorem basis
11. Dolomite	Seventy five rupees per tonne
12. Dunite or Pyroxenite	Thirty rupees per tonne
13. Felsite	Twelve percent of average sale price on ad valorem basis
14. Feldspar	Fifteen percent of average sale price on ad valorem basis
15. Fireclay	Twelve percent of average sale price on ad valorem basis
16. Fuschite Quartzite	Twelve percent of average sale price on ad valorem basis
17. Gypsum	Twenty percent of average sale price on ad valorem basis
18. Jasper	Twelve percent of average sale price on ad valorem basis
19. Kaolin	
Crude	Eight percent of average sale price on ad valorem basis
Processed	Twelve percent of average sale price on ad valorem basis
20. Laterite	
Non-metallurgical grade (Other than in shape of slabs)	Twenty five percent of average sale price on ad valorem basis
Metallurgical grade (Other than for those despatched for use in alumina and aluminium metal in shape of slabs) extraction.	Zero point six zero percent of London Metal Exchange laterite price chargeable on the contained aluminium metal in ore produced

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Insertion – Nil,
Deletion – Nil

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21. Limekankar (Other than that used in kilns for manufacture of lime used as building material)	Rupees one hundred thirty per tonne
22. Mica	Four percent of average sale price on ad valorem basis
23. Ochre	Twenty four rupees per tonne
24. Pyrophyllite	Twenty percent of average sale price on ad valorem basis
25. Quartz	Fifteen percent of average sale price on ad valorem basis
26. Quartzite	Twelve percent of average sale price on ad valorem basis
27. Sand (Others)	Rupees seventy per tonne
28. Shale	Eighty rupees per tonne
29. Silica Sand	Ten percent of average sale price on ad valorem basis
30. Slate	Forty five rupees per tonne
31. Steatite or Talc or Soapstone	Eighteen percent of average sale price on ad valorem basis
32. Ordinary sand	Rupees thirty five per cubic meter
33. Ordinary clay, slit, rehmatti, brick-earth, ordinary earth, moorum	Rupees thirty five per cubic meter
34. Sandstone, Laterite and Slate in shape of slabs and tiles	Rupees one hundred and eighty per cubic meter
35. Bentonite, Fuller earth	Rupees four hundred and forty five per cubic meter
36. Chalcedony, shingles, gravels, pebbles of all types	Rupees one hundred and eighty per cubic meter
37. Ordinary boulders used for road and civil constructions.	Rupees one hundred and thirty per cubic meter
38. Road materials including ballast and chips.	Rupees one hundred and thirty per cubic meter
39. Bajri and crusher fines	Rupees thirty five per cubic meter
40. Stones used for household utensils	Rupees two hundred and seventy per cubic meter
41. Limestone and limekankar used in kilns for manufacture of lime used as building material and limeshell	Rupees one hundred and eighty per cubic meter
42. Stones chips and bajri other than of marble used as mosaic in flooring	Rupees two hundred and fifteen per cubic meter
43. (a) Marble blocks and slabs	Rupees one thousand and six hundred per cubic meter
(b) Marble chips and power	Rupees two hundred and seventy per cubic meter

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Correction – Nil,
Insertion – Nil,
Deletion – Nil

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44. Decorative stone:

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|-------|---|--|
| (i) | Black granite exceeding 0.50 cum. | Rupees three thousand nine hundred and twenty five per cubic meter |
| (ii) | Coloured and multi-coloured granite exceeding 0.50 cum. | Rupees three thousand two hundred and fifteen per cubic meter |
| (iii) | Cut or dressed granite blocks useful for tiles for size less than 0.50 cum. | Rupees one thousand four hundred and thirty per cubic meter |
| (iv) | All other rocks when used for decorative and monumental purposes. | Rupees five hundred and thirty five per cubic meter |
| (v) | Limestone other than classified as major minerals. | Rupees one thousand and seventy per cubic meter |

41. PRESERVATION AND CONSERVATION MEASURES

(i) Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services, if any, encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. In case the same are to be removed and diverted, expenditure incurred in doing so shall be payable to the contractor. The contractor shall work out the cost, get the same approved by Engineer-in-charge before taking up actual execution. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.

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

42. RESPONSIBILITY OF CONTRACTOR

(i) He shall protect and indemnify the CPWD and its officials & employees against any claim and /or liability arising out of violations of any such laws, ordinances, orders, decrees, by himself or by his employees or his authorized representatives. Nothing extra shall be payable on these accounts.

(ii) The fee payable to statutory authorities for obtaining the various permanent service connections and Building Use Certificate for the building shall be borne by the Client.

(iii) The Contractor shall assume all liability, financial or otherwise in connection with this contract and shall protect and indemnify the CPWD from any and all damages and claims that may arise on any account. The Contractor shall indemnify the Department CPWD 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.

43. CO-OPERATION WITH OTHER CONTRACTORS/SPECIALIZED AGENCIES/ SUB-CONTRACTORS

(iv) The contractor shall take all precautions to adhere by the environmental related restrictions imposed by any statutory body having jurisdiction over work site as well as prevent any pollution of streams, ravines, river bed and waterways. All waste or superfluous materials shall be transported by the contractor, entirely to the satisfaction of the Engineer-in-charge and disposed at designated places only. 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 claims whatsoever on account of site constraints mentioned above or any other site constraints, lack of public transport, inadequate availability of skilled, semi-skilled or unskilled workers in the near vicinity, non-availability of construction machinery spare parts and any other constraints not specifically stated herein, shall be entertained from the contractor. Therefore, the tenderers are advised to visit site and get first-hand information of site constraints. Accordingly, they should quote their tenders. Nothing extra shall be payable on this account.

(v) The contractor shall cooperate with and provide the facilities to the sub-contractors and other agencies working at site for smooth execution of the work. The contractor shall

indemnify the CPWD against any claim(s) arising out of any disputes. The contractor shall:

- Allow use of scaffolding, toilets, shed etc.
- Properly co-ordinate their work with the work of other contractors.
- Provide control lines and benchmarks to his sub-contractors and the other contractors.
- Provide electricity and water at mutually agreed rates.
- Provide hoist and crane facilities for lifting material at mutually agreed rates.
- Co-ordinate with other contractors for leaving inserts, making chases, alignment of services etc. at site.
- Adjust work schedule and site activities in consultation with the Engineer-in-charge and other Contractors to suit the overall scheduled completion.
- Resolve the disputes with other contractors/ sub-contractors amicably and the Engineer-in-charge shall not be made an intermediary or an arbitrator.

(vi) The work should be planned in a systematic manner so as to ensure proper co-ordination of various disciplines viz. water supply, drainage, rain water harvesting, electrical, fire fighting, information technology, communication & electronics and any other services.

(vii) Other Associated agencies may also simultaneously execute and install the works of sub-station / generating sets, air-conditioning, lifts, etc. for the work 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 at the time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account.

(viii) The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-In-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and in a proper coordinated manner and shall perform it in proper sequence to the complete satisfaction of others.

44. SUPERVISION OF WORK

The contractor shall depute Site Engineer & skilled workers as required for the work. He shall submit organization chart along with details of Engineers and supervisory staff. It shall be ensured that all decision making powers shall be available to the representatives of the contractor at work site itself to avoid any likely delays on this account. The contractor shall also furnish list of persons for specialized works to be executed for various items of work. 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 as mentioned in the bid document to complete the work with quality and within stipulated time limit.

45. SPECIALIZED AGENCIES

Any specialized component of work in the project, for which expertise is lacking with the main contractor the same, shall be carried out in association with a specialized agency to be approved by the Engineer-in-charge.

46. RATES

- (i) The amount quoted by the Contractor are deemed to be inclusive of site clearance, setting outwork, profile, setting lay out on ground, establishment of reference bench mark(s), installing various signage, taking spot levels, with total station, construction of all safety and protection devices, compulsory use of helmet and safety shoes, and other appropriate

Correction – Nil,
Insertion – Nil,
Deletion – Nil

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safety gadgets by workers, imparting continuous training for all the workers, barriers, preparatory works, construction of clean, hygienic and well ventilated workers housings in sufficient numbers, working during monsoon or odd season, working beyond normal hours, working at all depths heights, lead, lift, levels and location and any other unforeseen but essential incidental works required to complete this work. Nothing extra shall be payable on this account and no extension of time for completion of work shall be granted on these accounts.

- (ii) The amount quoted by the tenderer is inclusive of all taxes and levies including GST and nothing extra shall be payable.
- (iii) Ancillary and incidental facilities required for execution of work like labour camp, stores, fabrication yard, offices for Contractor, watch and ward, 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 from local bodies etc., protection works, 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 amount quoted by the Contractor. Nothing extra shall be payable on these accounts. Before start of the work, the Contractor shall submit to the Engineer-in-Charge, a site / construction yard layout, specifying areas for construction, site office, positioning of machinery, material yard, cement and other storage, steel fabrication yard, site laboratory, water tank, etc.

For completing the work in time, the Contractor might be required to work in two or more shifts (including night shifts). No claim whatsoever shall be entertained on this account, notwithstanding the fact that the Contractor may have to pay extra amounts for any reason, to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour and other statutory bodies regulations and the agreement entered upon by the Contractor with them. All material shall only be brought at site as per program finalized with the Engineer-in- Charge. Any pre- delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.

47. SAFETY MEASURES

- (i) 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.
- (ii) SIGN BOARDS: The Contractor shall provide and erect a display board of size and shape as required and paint over it, in a legible and workman like manner, the details about the salient features of the project, as required by the Engineer-in-Charge. The Contractor shall fabricate and put up a sign board in an approved location and to an approved design indicating name of the project, Client/Owner, Engineer-in-charges, Structural Consultants, Department etc. besides providing space for names of other Contractors, Sub-Contractors and specialized agencies within 15 days from issue of award letter. Nothing extra shall be payable on this account. In case of non compliance/delay in compliance in this, a penalty @ Rs. 500/- per day will be imposed which will be recovered from the immediate next R/A Bill of the Contractor.
- (iii) Necessary protective and safety equipments such as helmet, safety shoes, gloves etc shall

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Deletion – Nil

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be provided to the Site Engineer, Supervisory staff, labour and technical staff of the contractor by the Contractor at his own cost and to be used at site.

- (iv) 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.

48. QUALITY ASSURANCE

- i. Contractor shall have to engage well-experienced skilled labour and deploy modern T&P and other equipment to execute the work.
- ii. The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material / work beyond set out tolerance limit shall be summarily rejected by the Engineer-in-charge & contractor shall be bound to replace / remove such sub-standard / defective work immediately. 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.
- iii. In addition to the supervision of work, CPWD Engineers/Quality Control Unit, Chief Engineer, Bhubaneswar shall also be carrying out regular and periodic inspection of the ongoing activities in the work and deficiencies, shortcomings, inferior workmanship pointed out by them shall be communicated by CPWD engineers to the contractor. Upon receipt of instructions from Engineer in Charge these are also to be made good by necessary improvement, rectification, replacement up to his complete satisfaction. Special attention shall be paid towards line and level of internal and external plastering, exposed smooth surface of RCC members by providing fresh shuttering plates, rubberized linings to all the shuttering joints, accurate joinery work in wooden doors and windows, thinnest joints in stone/ tiling / cladding work, non-hollowness in floor and dado tiles work, protection of scratches over flooring by impounding layer of plaster of Paris, water tight pipe linings, absence of hollow vertical joints in brick masonry, proper compaction of filled up earth etc. to achieve an Institution of International standards and up keeping of quality assurance shall be of paramount importance, as such.
- iv. The Contractor shall submit, within 15 days after the date of award of work, a detailed and complete method statement for the execution, testing and Quality Assurance, of such items of works, as directed by the Engineer-in-Charge. All the materials to be used in the work, to make the finished work complete in all respects, shall comply with the requirements of the specifications and shall pass all the tests required as per specifications as applicable or such specifications / standards as directed by the Engineer-in- Charge. However, keeping the Quality Assurance in mind, the Contractor shall submit, on request from the Engineer-in-Charge, his own Quality Assurance procedures for basic materials and such items, to be followed during the execution of the work, for approval of the Engineer-in-Charge.
- v. The contractor shall at his own cost submit samples of all materials sufficiently in advance and obtain approval of Engineer-in-Charge. The materials to be used in actual execution of the work shall strictly conform to the quality of samples approved by the Engineer-in-Charge and nothing extra shall be paid on this account. The acceptance of any sample or material on inspection shall not be a bar to its subsequent rejection, if found defective.
- vi. 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 suggested list of brand names given in the tender document / particular specifications for approval of Engineer-In-Charge. For all other items, materials and fittings of ISI Marked 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 and use the same only after getting the approval of Engineer-In-Charge.

- vii. The Contractor shall procure and provide all the materials from the manufacturers / suppliers as per the list attached with the tender documents, as per the item description and particular specifications for the work. The equivalent brand for any item shall be permitted to be used in the work, only when the specified make is not available. This is, however, subject to documentary evidence produced by the contractor for non-availability of the brand specified and also subject to independent verification by the Engineer-in-Charge. In exceptional cases, where such approval is required, the decision of Engineer-in-Charge as regards equivalent make of the material shall be final and binding on the Contractor. No claim, whatsoever, of any kind shall be entertained from the Contractor on this account. Nothing extra shall be payable on this account. Also, the material shall be procured only after written approval of the Engineer-in-Charge. All materials whether obtained from Govt. stores or otherwise shall be got checked by the Engineer-in-Charge or his authorized supervisory staff on receipt of the same at site before use.
- viii. The contractor has to establish field laboratory at site including all necessary equipment for field tests as given in Schedule 'F'. All the relevant and applicable standards and specifications shall be made available by the contractor at his cost in the field laboratory. The contractor shall designate one of his technical representatives as Quality Assurance Engineer, who shall be responsible for carrying out all mandatory field/laboratory tests. The contractor shall also provide adequate supporting staff at his cost for carrying out field tests, packaging and forwarding of samples for outside laboratory tests and for maintaining test records.
- ix. The tests, as necessary and where no field laboratory facilities are available, shall be conducted in the laboratory approved by the Engineer-in-Charge. For materials for which field testing equipment is established at site, for those materials 90% of total tests shall be done at the laboratory established at site by contractor and remaining in the reputed laboratories approved by Engineer-in-charge. The samples shall be taken for carrying out all or any of the tests stipulated in the particular specifications and as directed by the Engineer-in-Charge or his authorized representative.
- x. All the registers of tests carried out at Construction Site or in outside laboratories and all material at site (MAS) registers including cement register shall be maintained by the contractor which shall be issued to the contractor by Engineer-in-charge. All the entries in the registers will be made by the designated Engineering Staff of the contractor and same should be regularly reviewed by AE/AEE/EE. Contractor shall be responsible for safe custody of all the registers.
- xi. The Contractor shall at his own risk and cost make all arrangements and shall provide all such facilities including material and labour, the Engineer-in-Charge may require for collecting, preparing, forwarding the required number of samples for testing as per the frequency of test stipulated in the contract specifications or as considered necessary by the Engineer-in-Charge, at such time and to such places, as directed by the Engineer-in-Charge. Nothing extra shall be payable for the above.
- xii. The Contractor or his authorized representative shall associate in collection, preparation, forwarding and testing of such samples. In case he or his authorized representative is not present or does not associate him, the result of such tests and consequences thereon shall be binding on the Contractor. The Contractor or his authorized representative shall remain in contact with the Engineer-in-Charge or his authorized representative associated for all such operations. No claim of payment or claim of any other kind, whatsoever, shall be entertained from the Contractor.
- xiii. The cost of test required for all the materials shall be borne by the Contractor.

Correction – Nil,

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Deletion – Nil

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In case of concrete and reinforced concrete work also the contractor shall be required to make arrangement for carrying out compression strength tests at his own cost. He shall render all assistance for the preparation of cubes, safe custody of the same, proper curing and carriage up to the laboratory where the test is to be performed.

- xiv. All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested as per the design conditions before covering and their measurements in computerized measurement book duly test checked shall be deposited with Engineer in charge or his authorized representative, prior to hiding these items.
- xv. The contractor shall have to execute guarantee bonds in respect of water proofing works as per Performa VI enclosed.
- xvi. The Contractor shall arrange electricity at his own cost for testing of the various electrical installations as directed by Engineer-in-Charge and for the consumption by the contractor for executing the work. Also all the water required for testing various electrical installations, fire pumps, wet riser / fire fighting equipments, fire sprinklers etc. and also testing water supply, sanitary and drainage lines, water proofing of underground sump, overhead tanks, water proofing treatment etc. shall be arranged by the contractor at his own cost. Nothing extra shall be payable on this account.
- xvii. In addition to the provisions of relevant clauses of the contract, the work shall also be open to inspection by Senior Officers of CPWD/CTE/ TPQA and their representatives. The contractor shall at times during the usual working hours and at all times at which reasonable notices of the intention of the Engineer-in-charge or other officers as stated above to visit the works shall have been given to the contractor, either himself be present to receive the orders and instructions or have a responsible representative duly accredited in writing, to be present for that purpose.

49. SUBMISSION AND DOCUMENTATION

- i) 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. He should also keep at site at least one set of latest version of BIS Codes and other relevant codes at site and produce the same if asked for by Engineer-In-charge. In case of non-compliance, these codes will be purchased from the market and actual cost of purchase will be recovered from the next RA Bill of the contractor.
- ii) The contractor shall make available four (04) sets of completed drawings, "As Built Drawings" along with literatures, manuals, warranty certificates etc. of various installed fittings, fixtures and equipment for the completed projects. This shall be the prerequisite for payment of final bill.
- iii) The Contractor shall make available three (03) sets of all drawings of internal and external services i.e. Water Supply, Sanitary line and Drainage lines. This shall be the prerequisite for payment of final bill. These drawings shall have the following information:
 - (a) Run off for all piping and their diameters including soil, waste pipes and vertical stacks.
 - (b) Ground and invert level of all drainage pipes together with locations of all manholes and connections, up to outfall.
 - (c) Run off for all water supply lines with diameters location of control valves, access panels etc.
- iv) The contractor will submit computerized measurement sheet for the work carried out by him for making payment as per the CPWD General Conditions of Contract (with correction slips upto the last date of submission of tender). For casting of RCC members and other hidden items the corrected and duly test checked measurement sheets of reinforcement or that of other hidden items shall be deposited with Engineer in charge or his authorized representative, before casting of RCC or other hidden items. The delay in submission of corrected and duly checked measurement sheet may, therefore, delay casting of RCC or execution of hidden item for which no hindrance shall be recorded.
- v) To avoid delay, contractor should submit all samples well in advance so as to give timely orders for procurement.

50. PROJECT PROGRAM CHART:

The Contractor shall prepare an integrated program chart (Bar chart) within **7 (Seven)** days as per clause-

Correction – Nil,		
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Deletion – Nil	AE(P)	EE-BBSR-II

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

- i) Apart from the above integrated program chart, the contractor shall be required to submit fortnightly progress report of the work in a computerized form on 1st and 16th of every month. The progress report shall contain the following, apart from whatever else may be required as specified above:
- ii) Construction schedule of the various components of the work through a bar chart for the next two fortnights (or as may be specified), showing the micro- milestone/milestones, targeted tasks (including material and labour requirement) and up to date progress. Digital photographs showing all the parts of construction site along with video of executions of different items whenever required in soft copy have to be submitted in every fortnightly progress report.
- iii) Progress chart of the various components of the work that are planned and achieved, for the fortnight as well as cumulative up to the fortnight under reckoning, with reason for deviations, if any in a tabular format.
- iv) Plant and machinery statement, indicating those deployed in the work.
- v) Man-power statement indicating:
 - Individually the names of all the staff deployed on the work, along with their designations.
 - No. of skilled workers (trade wise) and total no. of unskilled workers deployed on the work and their location of deployment i.e. blocks.
- iv). Financial statement, indicating the broad details of all the running account payment received up to date, such as gross value of work done, advances taken, recoveries effected, amount withheld, net payments details of advance payment received, extra/substituted/deviation items if any, etc.

51. TEMPORARY WATER/ ELECTRICITY/ TELEPHONE CONNECTION

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

- i) The Contractor shall be responsible for maintenance and watch and ward of the complete installation and water / electricity meter and shall also be responsible for any pilferage, theft, damage, penalty etc. in this regard. The Contractor shall indemnify the Department against any claim arising out of pilferage, theft, damage, penalty etc. whatsoever on this account. Nothing extra shall be payable on this account.
- ii) The Department shall in no way be responsible for either any delay in getting electric and/or water and/or telephone connections for carrying out the work or not getting connections at all. No claim of delay or any other kind, whatsoever, on this account shall be entertained from the Contractor. Also contingency arrangement of stand-by water & electric supply shall be made by the Contractor for commencement and smooth progress of the work so that work does not suffer on account of power failure or disconnection or not getting connection at all. No claim of any kind whatsoever shall be entertained on this account from the Contractor. Nothing extra shall be payable on this account.

51. CLEANLINESS OF SITE

- (i) The contractor shall not stack building material/ malba/ muck on the land or road of the local development authority or on the land owned by the others, as the case may be. So the muck,

Correction – Nil,
Insertion – Nil,
Deletion – Nil

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

- (ii) The contractor shall take instructions from the Engineer-In-Charge regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, services and compound walls are to be constructed.
- (iii) The site of work shall be always kept clean due to constraints of space and to avoid any nuisance to the users of buildings in the adjacent plots. The Contractor shall take all care to prevent any water- logging at site. The waste water, slush etc. shall not be allowed to be collected at site. It may be directly pumped into the creek with prior approval of the concerned authorities. For discharge into public drainage system, necessary permission shall be obtained from relevant authorities after paying the necessary charges, if any, directly to the authorities. The work shall be carried out in such a way that the area is kept clean and tidy. All the fees/charges in this regard shall be borne by the Contractor. Nothing extra shall be payable on this account.

52. REFUND OF PERFORMANCE GUARANTEE

The performance guarantee for the work shall be refunded to the contractor soon after the completion of the entire works under this agreement and recording of the completion certificate for such agreement and submission of completion plans and subjected to submission of performance guarantee for Schedule items as mentioned above.

53. DEFECT LIABILITY PERIOD (Refund of Security Deposit)

The defect liability / maintenance period shall be 12 months after the date of completion work for this contract agreement. The Security Deposit shall be released after the defect liability period of 12 months after completion of entire project work and for this the contractor shall have to produce a certificate stating that no defects are pending for rectification from the Engineer-in-Charge, but subject to other provisions specified elsewhere in the contract agreement.

54. GENERAL CLARIFICATIONS

- i) Wherever any reference to any Indian Standards occurs in the documents relating to this contract, the same shall be inclusive of all amendments issued thereto or revisions thereof, if any, up to the previous day of last date of submission of bids.
- ii) Unless otherwise specified in the schedule of quantities, the amount quoted shall be considered, as inclusive of pumping out or bailing out water, if required throughout the construction period for which no extra payment shall be made. This shall also include water encountered from any source such as rains, floods, sub soil water table being high and/or due to any other cause whatsoever.
- iii) All stone aggregate and stone ballast shall be of hard stone variety to be obtained from approved quarries.
- iv) The sand, Coarse sand/Pulverised Stone sand/ crushed stone sand should be obtained from approved sources. The same shall be clean and sharp angular grit type. The sand shall be screened before using, if required. If the sand brought to site is dirty, it must be washed in clean water to bring the sand to the required specifications. Nothing extra shall be payable on this account.
- v) The amount quoted for this work, shall unless clearly specified otherwise, include cost of all operations and all inputs of labour, material, T & P, scaffolding, wastages, watch and ward, other inputs, all incidental charges, all taxes, cess, duties, levies etc. required for execution of the work.

55.DE-WATERING

- vi) De-watering required, if any, shall be done conforming to BIS Code IS: 9759 (guide lines for de-watering during construction) and / or as per the specifications approved by the Engineer-in-Charge. Design of an appropriate and suitable dewatering system shall be the Contractor's responsibility. Such scheme shall be modified / augmented as the work proceeds based on fresh information discovered during the progress of work, at no extra cost. At all times during the construction work, efficient drainage of the site shall be carried out by the Contractor and especially during the laying of plain cement concrete, taking levels etc. The Contractor shall also ensure that there is no danger to the nearby
- vii) properties and installations on account of such lowering of water table. If needed, suitable precautionary measures shall be taken by the Contractor. Also the scheme of dewatering adopted shall have adequate built in arrangement to serve as stand-by to attend to repair of pumps etc. and disruption of power / fuel supply. Nothing extra shall be payable on this account.
- viii) In trenches where surface water is likely to get into cut / trench during monsoons, a ring bund of puddle clay or by any other means shall be formed outside, to the required height, and maintained by the Contractor. Also, suitable steps shall be taken by the Contractor to prevent back flow of pumped water into the trench. Nothing extra shall be payable on this account.

56.INSURANCE POLICIES

Before commencing the execution of 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, at site of work. The Contractor shall obtain and submit to the Engineer-in-Charge proper Contractor All Risk Insurance Policy for an amount equivalent to contract value for this work, with Engineer-in- Charge as the first beneficiary. The insurance shall be obtained in joint names of Engineer-in-Charge and the Contractor (who shall be second beneficiary). Also, he shall indemnify the Department from any liability during the execution of the work. Further, he shall obtain and submit to the Engineer-in-Charge, a third party insurance policy for maximum Rs.10 lakh for each accident, with the Engineer-in-Charge as the first beneficiary. The insurance shall be obtained in joint names of Engineer-in-Charge and the Contractor (who shall be second beneficiary). The Contractor shall, from time to time, provide documentary evidence as regards payment of premium for all the Insurance Policies for keeping them valid till the completion of the work. The Contractor shall ensure that Insurance Policies are also taken for the workers of his Sub-Contractors / specialized agencies also. Without prejudice to any of its obligations and responsibilities specified above, the Contractor shall within 10 days from the date of letter of acceptance of the tender and thereafter at the end of each quarter submit a report to the Department giving details of the Insurance Policies along with Certificate of these insurance policies being valid, along with documentary evidences as required by the Engineer-in-Charge. No work shall be commenced by the Contractor unless he obtains the Insurance Policies as mentioned above. Also, no payment shall be made to the Contractor on expiry of insurance policies unless renewed by the Contractor.

Nothing extra shall be payable on this account. No claim of hindrance (or any other claim) shall be entertained from the contractor on these accounts.

57.Applicable Permits

- i. The contractor(s) shall give to the Municipality, police and other authorities all necessary notices etc. that may be required by law and obtain all requisite licenses for temporary obstructions, enclosures etc. and pay all fee, taxes and charges which may be levied on account of these operations in executing the contract. He shall make good any damage to the adjoining property whether public or private and shall supply and maintain lights either for illumination or for cautioning the public at night.
- ii. The contractor shall ensure that applicable permits mandated by the local bodies and in case warranted for this work are obtained as required under the Applicable Laws.

58.Public Procurement (Preference to Make in India) Policy:-

To encourage Make in India and promote manufacturing and production of goods and services in India with a view to enhancing income and employment, the Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, pursuant to Rule 153(iii) of the GFR 2017, have issued orders for procurement through local suppliers vide order no. P-45021/2/2017-PP(BE-II) dt:04.06.2020 & latest amendments. As per the provisions of these orders, purchase preference shall be given to locally manufactured goods and locally provided services as applicable in compliance to the NIT. The agency shall submit list of makes of materials proposed to be used on the work from suppliers as per these order for approval of the department out of the approved make kept in the tender.

Correction – Nil,
Insertion – Nil,
Deletion – Nil

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PARTICULAR SPECIFICATIONS CIVIL WORK

1.1 Earthwork :

1.1.1 General :

All types of excavation work shall be done in accordance with CPWD specifications Volume - I & II with correction slips up to the last date of submission of tender documents. Any trenching and digging for laying sewer lines / water lines /cables etc. shall be commenced by the contractor only when all men, machinery's and materials have been arranged and closing of the trench(s) thereafter shall be ensured within the least possible time.

1.1.2 Setting Out:

The contractor shall be responsible for accurately setting out the works to the specified positions, dimensions, levels, and building lines and also checking the site survey for dimensional and level accuracy and reporting any discrepancies before any commences. Any errors in position, level, dimension or alignment of any part of the works at any time shall be rectified by the contractor at his own expense. The contractor shall provide the Engineer with all facilities, equipments and labourers to enable him to check the setting out and levels of the works at all times. The checking of any setting out point, line or level by the engineer shall not in any way relieve the contractor of his responsibility. All setting out points, benchmarks, site rails, pegs and other survey points shall be clearly marked and protected from damage or disturbance during the execution of the works as per CPWD specifications.

1.1.3 Applicable Standards:

The contractor shall ensure to follow the applicable BIS and IS standards related to the excavation and local building regulations and statutory regulations.

1.1.4 Labour and Equipments:

The contractor shall provide all labourers, equipments, materials and any incidentals necessary to complete all aspects of work included in the drawings and specifications. The contractor shall submit Earth Management Plan which is to be approved by the Employer or Engineer's representative before commencing the work.

1.1.5 Related Works:

- a) Clearing, grubbing, and removing all vegetation from the site.
- b) Basement mass excavation
- c) Excavation including getting out and necessary dressing to make surface ready to receive blinding.
- d) Filling and back filling and compaction of fills
- e) Removal and disposal of surplus material.
- f) Dewatering, shoring and strutting.
- g) Road and Compound Wall Works
- h) Landscape or Horticulture Works

1.1.6 Disposal of Surplus earth:

All excavated material including excavated earth declared as surplus and not useful, shall be removed from the site by the contractor within the scope of agreement. The removal of surplus Material shall only be undertaken by the contractor when instructions in this regards are obtained from Engineer in charge.

Dumping shall be at designated place identified by the contractor. Contractor shall also obtain necessary permissions / approvals / authorization from the competent authority of local body / traffic / police as the case may be for removal of excavated earth/materials. No payment/fees on this account shall be entertained by the department.

1.2 Concrete work :

1.2.1 Plain Cement Concrete / Lean Concrete:

Plain Cement Concrete / Lean Concrete in required thickness as per design shall be laid below the raft and all type foundation works, below kerb stone, under floors or wherever required as per CPWD Specifications Volume - I & II with correction slips up to the last date of submission of tender documents.

Correction – Nil,

Insertion – Nil,

Deletion – Nil

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1.2.2 Reinforced Cement Concrete Work:

The work shall be done as per CPWD specifications Volume - I & II with correction slips up to the last date of submission of tender documents. IS:456-2000 Code of Practice for Plain and Reinforced Concrete (as amended up to date) shall be followed in regard to Concrete Mix Proportion and its production as under:

- (i) The Concrete Mix Design shall be done as “Design Mix Concrete” as prescribed under Clause-9 of IS:456-2000 mentioned above.
- (ii) Concrete shall be manufactured in accordance with Clause-10 of above mentioned IS:456-2000 covering all measures for achieving said Quality Assurance parameters. Contractor shall also depute a qualified Concrete Technologist during the manufacturing of concrete for certifying the quality of concrete produced either on site or at RMC plant.
Minimum M25 grade or as specified in the structural design of concrete shall be used in all structural elements of RCC, both in load bearing and framed structure.

- 1.2.3** The mechanical properties such as modulus of elasticity, tensile strength, creep and shrinkage of concrete using fly ash blended cements (PPCs, PSC) are not likely to be significantly different and their values are to be taken same as those used for concrete made with OPC.
- 1.2.4** To control higher rate of carbonation in early ages of concrete in PPC based concrete, water/binder ratio shall be kept as low as possible, which shall be closely monitored during concrete manufacture. If necessitated due to low water/binder ratio, required workability shall be achieved by use of chloride free chemical admixtures conforming to IS:9103. The compatibility of chemical admixtures and super plasticizers with each set PPC received from different sources shall be ensured.
- 1.2.5** In environment subjected to aggressive chloride or sulphate attack in particular, PPC based concrete is recommended. In case, where structural concrete is exposed to excessive magnesium sulphate, fly ash content shall be limited to 18% by weight. Special type of cement with low C3A content may also be alternatively used. Durability criteria like minimum binder content and maximum water/binder ratio also need to be given due consideration in such environment.
- 1.2.6** Wet curing period shall be enhanced to a minimum of 10 days or its equivalent. In hot and arid regions, the minimum curing period shall be 14 days or its equivalent.
- 1.2.7** Subject to general guidelines detailed out as above, PPC manufactured conforming to IS:1489, PSC:IS 455:2015 (Part-I) shall be treated at par with OPC for manufacture of Design Mix Concrete for structural use in RCC.
- 1.2.8** Till the time, BIS makes it mandatory to print the percentage of fly ash on each bag of cement, the certificate from the PPC manufacturer indicating the same shall be supplied by the contractor.
- 1.2.9 While using PPC for structural concrete work, no further admixing of fly ash shall be permitted.**
- 1.2.10** If the quantity of cement actually used in the work is found to be more than the theoretical quantity of cement including authorised variation, nothing extra shall be payable to the contractor on this account. The allowable variation shall be as per clause 38.
- 1.2.11** For non-scheduled items, the decision of the concerned Chief Engineer or Superintending Engineer (stipulated in station-wise respective Schedule-F) regarding theoretical quantity of the cement which should have been actually used shall be final and binding on the contractor.
- 1.2.12** Cement brought to site and cement remaining unused after completion of work shall not be removed from site without written permission of the Engineer-in-Charge.

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

1.2.14 REINFORCED CEMENT CONCRETE:

- a) CPWD Specifications and latest IS codes shall be followed.
- b) The RCC work shall be done with RMC of Design Mix Concrete, unless otherwise specified in the nomenclature of items, wherever letter M has been indicated, the same shall imply for the Design Mix Concrete. The Ready Mix Concrete shall be as per IS: 4926 and as per CPWD specification and guide lines. For the nominal mix in RCC, CPWD specification shall be followed. The Design Mix Concrete will be designed based on the principles given in IS:456, 10262 and SP 23. The contractor shall carry out design mixes for each class of concrete indicating that the concrete ingredients and proportions will result in concrete mix meeting requirements specified. **Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.** The cement shall be actually weighed as presumption of each bag having 50 kg shall not be allowed. In case of use of admixture, the mix shall be designed with these ingredients as well. **While using PPC for structural concrete work, no further admixing of fly ash shall be permitted.** The specification mentioned herein below shall be followed for Design Mix Concrete.

Ingredients :

- (i) Coarse Aggregate :As per CPWD specifications
- (ii) Fine Aggregate : As per CPWD specifications
- (iii) Water : As per requirements laid down in IS 456-2000 and CPWD specifications.
- (iv) Cement :Cement arranged by the contractor will be PPC (in bags) conforming to IS: 1489: Part-I.
- c) The concrete mix design with and without admixture shall be got done by contractor at his own cost and will be carried out at IITs/NITs/NABL accredited laboratory as approved by Engineer-In-Charge.
- d) The contractor shall submit the mix design report from any of above approved institutions for approval of Engineer-in-Charge within 30 days from the date of issue of letter of acceptance of the tender. No concreting shall be done until the mix design is approved by the Engineer-in-charge.
- e) In case of change of source or characteristic properties of the ingredients used in the concrete mix during the work, a revised mix design report shall be conducted from approved Government institutions and shall be submitted by the contractor as per the direction of the Engineer-in-Charge.
- f) **Materials Specifications for RCC Works:**

Water: -

- (i) Water shall be tested in accordance with the relevant IS Code. IS:456-2000 and as per CPWD specifications.

- (ii) The contractor shall make its own arrangements for storing of water. Care shall be taken to ensure that water is not contaminated anyway.

- (iii) For RMC concrete, quality of water shall be got tested at concrete producing plant at every 2 months intervals from the reputed approved laboratory/any Government institutions as mentioned in para 3.2.13 or as approved by Engineer in charge.

Cement:

Cement arranged by the contractor will be conforming to IS 456: 2000 as mentioned in the additional condition for cement attached with tender documents.

Admixture:

The admixture shall be as per relevant BIS code and as per CPWD specifications.

The contractor shall not be paid anything extra for admixture required for achieving desired workability without any change in specified water cement ratio for RCC / PCC work.

g) Additional Conditions and Particular Specifications FOR RCC WORK (DESIGN MIX CONCRETE):

(i) Grade of Concrete: -

The characteristic compressive strength of various grades of concrete shall be given as below:

Sr. No	Grade	Compressive Strength on 15cm cubes minimum 7days (N/mm ²)	Specified characteristic compressive strength at 28days (N/mm ²)	Minimum cement content* (Kg per cum)	Maximum Water cement ratio
(i)	M-25	As per Design	25	330	0.4
(ii)	M-30	As per Design	30	350	0.4
(iii)	M-35	As per Design	35	370	0.4
(iv)	M-40	As per Design	40	390	0.4
(iv)	M-45	As per Design	45	410	0.4

The Concrete mix will be designed for minimum workability as specified in para 7 of IS-456-2000. In the designation of concrete mix letter M refers to the mix and the number to the specified characteristic compressive strength of 15 cm-cube at 28 days expressed in N/mm².

(ii) Workability of Concrete (Unless otherwise specified elsewhere or as decided by Engineer-in-charge):

Placing Conditions	Degree of Workability	Slump (mm)
(1)	(2)	(3)
Mass concrete, Lightly reinforced sections in slabs, beams, walls, columns, floors, hand placed pavements, canal lining, strip footings	Low	25-75
Heavily reinforced section in slabs, beams, walls, columns	Medium	50-100
Slipform work, pumped concrete	Medium	75-100

The recommended values of slump for various members to confirm IS 456: 2000 with amendments.

(iii) Approval of Design Mix:

The mix design for a specified grade of concrete shall be done for a target mean compressive strength $T_{ck} = F_{ck} + 1.65s$

Where F_{ck} = Characteristic Compressive Strength at 28 days

M, s = Standard deviation which depends on degree of quality control.

The degree of quality control for this work is “good” for which the standard deviation(s) obtained for different grades of concrete shall be as per relevant IS Standards/Codes. Out of the six specimen of each set, three shall be tested at seven days and remaining three at 28 days. The preliminary tests at seven days are intended only to indicate the strength to be attained at 28 days.

(iv) Charges for Design Mix:

Correction – Nil, Insertion – Nil, Deletion – Nil	AE(P)	EE-BBSR-II
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All cost of mix designing and testing connected therewith including charges payable to the Government institutions shall be **borne by the contractor**.

(v) Production of Concrete:

The concrete shall be RMC produced in a central batching and mixing plant (either installed at site or procured from outside approved RMC plant) with, computerized printing for contents and admixture dosage. The batching plant shall be fully automatic. Automatic batcher shall be charged by devices which, when actuated by a single starter switch will automatically start the weighing operation of each materials and stop automatically, when the designated weight of each materials have been reached. The batching plant shall have automatic arrangements for dispensing the admixture and shall also be capable of discharging water in more than one stage. A print out from the batching plant for every lot shall be submitted.

The batching plant shall be capable of determining and controlling the prescribed amounts of various constituent materials for concrete accurately i.e. water, cement, sand, individual size of coarse aggregates etc. The accuracy of the measuring devices shall fall within the following limits. (Refer IS:456-2000 para 10.2.2)

Measurement of Cement	$\pm 2\%$ of the quantity of cement in each batch
Measurement of Water	$\pm 3\%$ of the quantity of water in each batch
Measurement of Aggregate	$\pm 3\%$ of the quantity of aggregate in each batch
Measurement of Admixture	$\pm 3\%$ of the quantity of admixture in each batch

(vi) Mixing Concrete:

The mixer in the batching plant shall be so arranged that mixing action in the mixers can be observed from the operator's station. The mixer shall be equipped with a mechanically or electrically operated timing, signalling and metering device which will indicate and assure completion of the required mixing period. The mixer shall have all other components as specified in IS: 4925.

(vii) Transportation, Placing and Compaction of Concrete:

Mixed concrete from the batching plant shall be transported to the point of placement by transit mixers or through concrete pumps or steel closed bottom buckets capable of carrying 6 cum concrete. In case the concrete is proposed to be transported by transit mixer, the mixer speed shall not be less than 4 revolution/minute of the drum nor greater than a speed resulting in a peripheral velocity of the drum as 70 meter/minute at its largest diameter. The agitating speed of the agitator shall be not less than 2 revolution/minute nor more than 6 revolution/minute of the drum. The number of revolutions of the mixing drum or blades at mixing speed shall be between 70 to 100 revolutions for a uniform mix, after all ingredients, have been charged into the drum. Unless tempering water is added, all rotation after 100 revolutions shall be at agitating speed of 2 to 6 revolution/minute and the number of such rotations shall not exceed 250. The general construction of transit mixer and other requirements shall conform to IS: 5892. Time & transportation of RMC from plant to site (upto placing / laid in position) shall be less than 2 hours. If the RMC is transported from the outside approved RMC plant to the site of works, then nothing extra on this account will be payable and contractor has to quote the rate accordingly. In case concrete is to be transported by pumping, the conduit shall be primed by pumping a batch of mortar / thick cement slurry through the line to lubricate it. Once the pumping is started, it shall not be interrupted (if at all possible) as concrete standing idle in the line is liable to cause a plug. The operator shall ensure that some concrete is always there in the pump-receiving hopper during operation. The lines shall always be maintained clean and shall be free of dents.

Materials for pumped concrete shall be batched consistently and uniformly. Maximum size of aggregate shall not exceed one-third of the internal diameter of the pipe. Grading of aggregate shall be continuous

Correction – Nil,
Insertion – Nil,
Deletion – Nil

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and shall have sufficient ultra fine materials (materials finer than 0.25mm). Proportion of fine aggregates passing through 0.25mm sieve shall be between 15 and 30% and that passing through 0.125 mm sieve shall not be less than 5% of the total volume of aggregate. When pumping long distances and through hot weather, set-retarding admixtures may be used. Admixtures to improve workability can be added. Suitability of concrete shall be through pumping shall be verified by trial mixes and by performing pumping tests.

(viii) Preparation of Mixes as per approved design mix and conducting confirmatory test at field lab:

The contractor shall make the cubes of trial mixes as per approved Mix design at site laboratory for all grades, in presence of Engineer in charge using sample of approved materials proposed to be used in the work prior to commencement of concreting and get them tested in his presence to his entire satisfaction for 7 days and 28 days. **Test cubes shall be taken from trial mixes as follows:**

For each mix, a set of six cubes shall be made from each of the three consecutive batches. Three cubes from each set of six shall be tested at age of 7 days and remaining three cubes at age of 28 days. The cubes shall be made, cured, transported and tested strictly in accordance with specifications. The average strength of nine cubes at the age of 28 days shall exceed the specified target mean strength for which design mix has been approved. The evaluation of test results will be done as per IS : 456-2000.

(ix) Work Strength Test:

Test Specimen:

Work strength test shall be conducted in accordance with IS: 516 on random sampling. Each test shall be conducted on six specimens, three of which shall be tested at 7 days and remaining three at 28 days. Additional samples shall be prepared, if required, as per direction of Engineer in charge for testing samples cured by accelerated method as described in IS: 9103.

Test Results of Sample:

The test results of the sample shall be the average of the strength of three specimens. The individual variation shall not be more than $\pm 15\%$ of the average. If more, the test results of the sample are invalid. 90% of the total tests shall be done at the laboratory established at site by the contractor and remaining 10% in the laboratory of Government Engineering colleges or in any other approved laboratory as directed by the Engineer-in-charge.

Standard for acceptance criteria:

Standard of acceptance shall be same as specified in clause 16 of IS 456-2000.

In order to keep the floor finish as per direction of Engineer-in-charge and as per Architectural drawings and to provide required thickness of the flooring as per specification, the level of top surface of RCC shall be accordingly adjusted at the time of its centering, shuttering and casting for which nothing extra shall be paid to the contractor.

h) Ultrasonic Pulse Velocity method of Test for RCC:

- (i) The underlying principle of assessing the quality of concrete is that comparatively higher velocities are obtained when the quality of concrete in terms of density, homogeneity and uniformity is good. The consistency of the concrete as regards its general quality gets established. In case of poorer quality lower velocities are obtained. If there are cracks, voids or flaws inside the concrete which come in the way of transmission of pulse, lower velocities are obtained.
- (ii) The quality of concrete in terms of uniformity, incidence or absence of internal flaws, cracks and segregation etc. indicative of the level of workmanship employed, can thus be assessed using the guidance given in table below, which have been evolved for characterizing the quality concrete in structure in term of the ultrasonic pulse velocity.

(iii) Velocity criterion for Concrete Quality Grading:

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

Note: In Case of “doubtful” quality it may be necessary to carry further tests.

- (iv) Pulse velocity method of test of concrete is to be conducted for CPWD works as a routine test. The acceptance criteria as per the above table will be applicable which is as per IS 13311 (part-1): 1992. From the above “Good” and “Excellent” grading are acceptable and below these grading the concrete will not be acceptable.
- (v) 5% of the total number of RCC members in each category i.e. beam, column, slab and footing may be tested by UPV test method for establishing quality of concrete. It is suggested that test be conducted on RCC beam near joint with column, on RCC column near joint with beam, in RCC footings and rafts. On RCC rafts a suitable grid can be worked out for determining number of tests. In addition doubtful areas such as honeycombed locations, where continuous seepage is observed, construction joints and visible loose pockets will also be tested.
- (vi) The test results are to be examined in view of the above acceptance criteria “Good” and “Excellent” and wherever concrete is found with less than required quality as per acceptance criteria, repairs to concrete will be made. Honeycombed areas and loose pockets will be repaired by grouting using Portland Cement Mortar/Polymer Modified Cement Mortar /Epoxy Mortar, etc. after chipping loose concrete inappropriate manner. In areas where concrete is found below acceptance criteria and defects are not apparently visible on surface, injecting approved grout in appropriate proportion using epoxy grout / acrylic Polymer modified cements slurry made with shrinkage compensating cement / plain cement slurry etc. will be resorted to for repairs.(refer relevant chapters from CPWD Hand Book on Repairs and Rehabilitation of RCC Buildings).Repair to concrete will be done till satisfactory results are obtained as per the acceptance criteria by retesting of the repaired area. If satisfactory results are not obtained dismantling and relaying of concrete will be done.
- (vii) **Tolerances:**As per CPWD specifications.
 - (a) In case of rejection of concrete on account of unacceptable compressive strength, governed by para ‘Standard of Acceptance’ as above, the work for which samples have failed shall be redone at the cost of contractors. However, the Engineer in charge may order for additional 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.
 - (b) 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. The landing level of mummy / staircase cabin shall be kept one riser level higher than adjoining slab level so as to accommodate water proofing treatment over terrace slab. In case of kitchen slab the portion of floor trap below kitchen platform is kept at lower level as per drawings. Nothing extra is payable on this account.
 - (c) For the execution of centering and shuttering, the contractor shall use propriety “Reebol” chemical mould release agent of FOSROC or equivalent as shuttering oil as approved by Engineer-in-charge.

i) Cover/Spacer Block:

Correction – Nil,
Insertion – Nil,
Deletion – Nil

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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 cast well in advance with approved proprietary pre-packed free flowing mortars (Conbextra as manufactured by M/S Fosroc Chemicals India Ltd. or equivalent as approved by the Engineer-in-charge at his discretion) of high early strength and same colour as surrounding concrete, pre-cast cement mortar/concrete blocks/blocks of polymer shall not be used as spacer blocks unless specially approved by the Engineer-in-charge, rate of RCC items is inclusive of cost of such cover blocks.

1.3 Form Work:

All the specifications for formwork/shuttering shall be as per CPWD Specifications. Centering and shuttering for all concrete and reinforced concrete wherever required shall be in steel mainly used for concrete purpose to produce a smooth straight level and sharp profiles shall be used for the works for uniform finish on all exposed surfaces. Panels to be in largest practicable sizes to reduce the number of joints, form work material shall have strength adequate to withstand pressure of newly placed concrete. However, all props, bracings, scaffolding etc., shall be in steel. In some restricted places where it is not feasible to use steel formwork, marine ply shall be used with the approval of engineer in charge. The entire responsibility of planning, design, erection and safety of formwork shall lie with the contractor.

Form work shall include all temporary or permanent forms or moulds required for forming the concrete which is cast-in-situ, together with all temporary construction required for their support.

1.4 Seismic/Separation/Expansion Joint Treatment:

1.4.1 General:

Seismic/separation/expansion joints shall be provided where it is shown on the drawings. The contractor shall ensure that no debris is allowed to enter and be lodged in seismic and separation joints. Seismic or separation joints shall be provided with approved system appropriate to the design. Shop drawings to be submitted to Engineer in charge for approvals before executing the work.

Work shall be carried out with specialized contractor as per preferred make list. Cost of expansion Joint accessories both horizontal and vertical is in the scope of this tender. Treatment to be done to all floor to floor joints, Wall to wall joints, and Roof to Roof Joints. Expansion joint treatment to be done as approved by Engineer in Charge as per design requirement.

1.4.2 Horizontal Joints:-

These joints shall be provided as continuous extruded aluminum frame assemblies of suitable profile to receive free floating center plates of design as per shop drawings to be submitted to Engineer-in-charge for approval. The joints system will be of extruded aluminum base members, self-aligning / self-centering arrangement etc. as per ASTM B221-02. Cover plate to be held in place and kept centered throughout movement cycle by spring loaded stainless steel turn-bar. Centre plate design to accommodate floor finish to match décor and withstand during full seismic movement without any damage to cover. Cover assemblies to have design to accommodate +/- ½ thermal movement and 50% horizontal movement during seismic event. Moisture Barrier Membrane shall be provided in the joint system to have complete water tight joint.

1.4.3 Vertical Joints:-

These joints shall be provided with surface-mounted metal wall cover designed to match select metal floor covers with the self-centering aluminum center plate, which spans the joint and slides between the retainer assemblies to allow movement as and when required. Grade of material shall be ASTM B 221-02. Turn shall be of Stainless steel with circular sphere, which allow movement without any deterioration to base assemblies. Moisture Barrier Membrane in the joint system shall be provided to have complete water tight joint.

1.5 Masonry Works:

The Fly ash brick masonry shall be carried out with good quality as per CPWD Specifications.

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 lift 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.

Wherever required RCC Bands of required thickness shall be provided by the contractor in the masonry walls as a part of scope of work. RCC bands shall be properly anchored in columns for stability as directed by Engineer in charge. For low height Masonry Walls in parapets etc, RCC coping of required sizes shall be provided as per approved architectural drawings, if required. The work of masonry walls, coping etc shall be done in accordance with CPWD specifications Volume - I & II with correction slips up to the last date of submission of tender documents.

1.6 Doors:

All doors shall be as per broad schedule of finishes and technical specification given in this document and as per CPWD Specification 2019 Volume-I&II. Contractor shall prepare the detailed architectural drawings, interior drawings, door detail sheets, hardware schedules etc through its consultants. Accessories for fixing of door frame, doors shall be of HILTI or equivalent make and inclusive in scope of work.

Fire Rated Doors:

All the fireFrame and door will be as per item no. 9.161, 9.162 and 9.164 of DSR-2023. The cost of S.S. Ball, Bearing, Hinges etc.is included in the item. Nothing shall be paid on this account extra and any other areas. The Glazing door should be making of SAINT GOBAINor any other equivalentincluding fittings with panic bar / latch lock and door closer of. The inactive leaf should be fixed to the frame using tower bolt at meeting edge at top or as per the tested evidence. The system profiles shall offer C4 level of wind resistance when tested as per EN 12210, Class 4 level of air permeability when tested as per EN 12207, Class 5 Impact Resistance when tested as per EN 13049 and shall have 8Aclass of water tightness when tested as per EN12208. All hardware and fittings such as, door closer, hinges as per fire norms is included in scope of work.

1.6.1 Door Frames:

All doors frames shall be as per broad schedule of finishes and technical specification given in this tender document and as per CPWD Specification 2019 Volume-I&II. Contractor shall prepare the detailed architectural drawings, interior drawings, door detail sheets, hardware schedules etc through its consultants. Door frames shall be fixed with expandable fasteners of HILTI or equivalent make of specified size with necessary plastic sleeves and galvanized M.S. screws including drilling holes complete as per the instruction of Engineer in charge. Size of fastener to be 10mm dia x 140mm long.

1.6.2 Glazed Doors and Flush Doors:

The contractor needs to refer indicative architectural drawings attached with this document and same shall be developed in detail by consultants of contractor as per broad schedule of finishes and specifications attached with tender document.

All Works will be done in accordance with CPWD specifications Volume - I & II with correction slips up to the last date of submission of tender documents with provision of IS Codes listed in CPWD specifications shall form a part of this document with all latest codes.

1.6.3 TESTING / INSPECTION AND GUARANTEE:

During the process of manufacturing of the door, the contractor shall arrange an inspection of the factory by the Engineer-in-charge or his authorised representative for approval. After installing the door, the specialized agency/sub-contractor shall test the performance of the door frame and shutter in the presence of Engineer-in-charge. The doors shall be smoothly operable under all ambient conditions. All control hardware's and locking devices shall give fault free performance.

Engineer-in charge or his authorized representative shall select the door on random basis from each lot received at site and shall get the required tests conducted at an approved laboratory for testing all required specifications. The contractor shall arrange for such tests of doors (lot wise) with specified hardware. The contractor shall ensure that the door should comply to all the set out criterion and technical specifications stipulated in the tender documents. Contractor shall accordingly quote the rates and nothing extra shall be payable on this account. Contractor shall also provide a Guarantee Certificate and Test certificate for the tested door in an acceptable format on a stamped paper to the Engineer-in-Charge.

1.6.4 GUARANTEE BOND for fire doors:

The work shall be guaranteed for a period of five years from the date of completion of defect liability period mentioned in this NIT document or N.O.C. issued by the Fire Services Department which ever is later.

If any defect is noticed during the guarantee period, it shall be rectified by the contractor along with any incidental repairs to structure, flooring, finishing, fixtures and any other related damaged work within fifteen days of receipt of intimation of such defects in the work. If the defects pointed out are not attended to with the specified period, the same shall be got done from another contractor at the risk and cost of the contractor and the cost of attending such repairs shall be deducted from any dues payable to the contractors.

1.6.5 Door Hardware:

Contractor will submit all samples for hardware proposed of all makes to Engineer in charge for approval of selection of make. Hardware includes fixings, striker plates, shims, and escutcheons for a complete installation, whether indicated or not. All hardware to be Satin Stainless Steel finish. All Hardware's to be installed as per the instruction of manufactures guideline, copy of same to be submitted to be Engineer in charge.

1.6.6 Special condition for Aluminum Doors windows and sliding sections:

- It should be factory made.
- Should be made of Aluminum profile of T5/T6 tempered 6060/6063 alloy.
- Should be mechanically mitred and jointed using casted/ aluminum corner/ connector cleats.
- Sliding Systems should have hardware like 7"/8" concealed lock, single or multi point locking arrangement, single or double wheel fixed or adjustable rollers, nylon anti-rattlers, stand weather strip siliconised brush gasket.
- Casement Systems- Windows having hardware like butt/fiction hinge, single/multi-point lock handles, restrictor arm/stay and casted/aluminum corner /connector cleats.
- Casement Systems - Doors having hardware like butt hinge, mortise lock and casted/ aluminum corner/ connector cleats.

1.7 Structural Steel Work:

The scope include design and built structural steel frame and trusses frame of covered walkways, entrance gates, compound wall fence, structural steel canopies, trusses for solar roof panels and miscellaneous work using structural steel. The staircase railing, balcony railings, closing of ducts etc shall be of stainless steel. It also include, labour, fabrication, delivery, assembly, erection, lifting, painting / finishing, supervision and Non-destructive testing of welded steelwork. All other incidental works not specified herein mentioned but necessary for the satisfactory completion of the works, shall be deemed to be included. All the specifications for structural steel works shall be as per CPWD Specifications Volume - I & II with correction slips up to the last date of submission of tender documents.

1.8 Plastering work:

The work shall be done in accordance with CPWD specifications Volume - I & II with correction slips up to the last date of submission of tender documents.

Wherever directed by the Engineer in Charge, all joints between concrete frames and masonry in filling shall be expressed by a groove cut in the plaster. Where grooves are not called for, the joints

between concrete members and masonry in filling shall be covered by fibre mesh over junctions of concrete and masonry or two dissimilar materials about 200mm wide fixed with GI wire nails etc. which shall be in position before plastering.

1.8.1 Internal/External cement mortar plaster:

Cement mortar plaster 1:4 (1 cement: 4 coarse sand) mixed with water proofing compound on walls which are in contact with water/wet areas shall be provided and finished with wallputty of approved brand and manufacture to make surface smooth as per directions of Engineer-in-charge.

1.8.2 Premixed formulated Gypsum lightweight Plaster:

Internal walls /internal masonry work which are not in contact with water shall be on both sides be plastered with 12mm thick with premixed formulated gypsum lightweight plaster having additives and light weight aggregates as vermiculite/ perlite respectively confirming to IS – 2547 (part I & II) 1976 on hacked / uneven surface such as bare brick/ block / RCC work except the wet areas. Ceiling which is not covered with false ceiling shall be plastered with 6mm thick gypsum plaster of approved makes as per the direction of Engineer-In-Charge.

1.9 Water Proofing Works:

1.9.1 General:

- a) The contractor shall be responsible for the water proofing design, proper installation and performance of waterproofing systems to make the sub grade and superstructure completely watertight.
- b) The contractor shall engage a qualified waterproofing specialist sub-contractor, preferably manufacturer authorized applicator to install or supply & install the waterproofing system, all in accordance with the manufacturer's recommendations & approved water proofing details. For the quality assurance and quality of workmanship, waterproofing specialist applicator should be proficient in handling and installing water proofing membrane and the applicator shall be approved by CPWD qualification criteria.

Waterproofing specialist applicator should have the proven track record, technical reliability, capability and agreement to supply full technical assistance, expert supervision during installation and performance guarantee. The contractor shall submit the name of specialist waterproofing contractor (waterproofing applicator) for approval alongwith work experience certificate of satisfactorily completion of similar nature of three works each costing not less than 40% of estimated cost of water proofing work at that concerned station or two works or one work each costing not less than 60% or 80% respectively of estimated cost of water proofing work at that concerned station. The determination of estimated cost of water proofing work under this item shall be done by the contractor on prevailing market rates and submit it to the respective Engineer-in-charge whose decision shall be final and binding on the contractor.

- c) All basements and sub-structures in contact with earth or water (including foundations, footings, pile caps if required, lift pits, water tanks, fuel tanks, all sunken pits, trenches, etc.) shall be protected by a waterproofing system on all exposed surfaces. Retaining walls forming part of an enclosed usable space and in contact with earth or water shall similarly be waterproofed by an approved membrane system.

1.9.2 Shop Drawings:

The contractor shall prepare and submit shop drawings to the Engineer-In-Charge. Comprehensive shop drawings showing all the details and procedures for the relevant parts of the works, waterproofing shop drawings shall incorporate all interface details for all drain types. The manufacturer's standard application details shall be used only as a guide for the preparation of shop drawings. The contractor is deemed to have given due consideration to the particular requirements of this contract. Wherever necessary, the contractor is expected to improve upon the manufacturer's standard details to suit the project requirements and such amendments shall be shown in the shop drawings for approval of the Engineer in Charge.

1.9.3 Systems for Waterproofing:

1.9.3.1 Horizontal Waterproofing Below Raft/Footings/Water tanks/Underground Sumps:

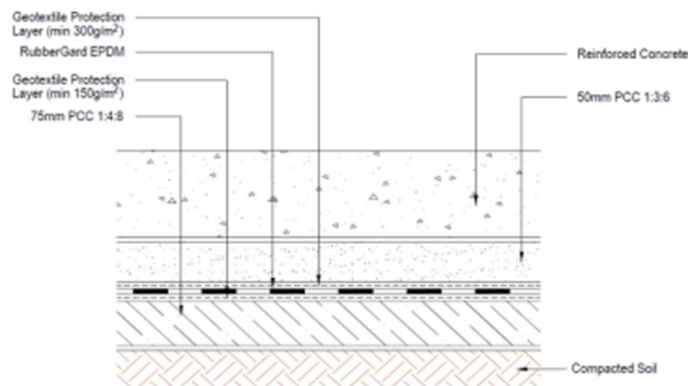
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Providing and laying waterproofing treatment on compacted, levelled, cleaned lean concrete surface using following materials as per manufacturer specification and as per direction of engineer in charge:

- Providing and laying 150 g/sqm geotextile loose laid over lean concrete surface with 75 mm overlap at joints. The overlapping joint may be secured by stitching or bonding adhesive or hot air gun.
- Providing and laying EPDM membrane 1.5 mm thick loose laid over the geotextile layer. The EPDM sheet should be as large as possible but not less than 6 m unspliced width (no manual joints upto 6 m). Adjacent sheet shall be laid in similar fashion with an overlap of minimum 100 mm. Minimum 75 mm wide rubber polymers butyl splice double sided tape with synthetic rubber polymer prime plus should be used to make watertight quick seam between 2 EPDM membranes. Insertion, corners etc. will be finished using uncured EPDM wherever required.
- Providing and laying a layer of geotextile 300 g/sq.m all over the EPDM membrane. The geotextile membrane must be overlapped for 75 mm (The work shall be carried out from manufacturer approved applicator. The EPDM membrane and its accessories should be from the same manufacturer.)

PROTECTION: Above treatment to be protected by min 50 mm screed all over the treatment. Any civil activity to be carried only after EPDM treatment has been protected by 50mm screed.

METHOD OF LAYING EPDM BELOW RAFT/FOOTINGS



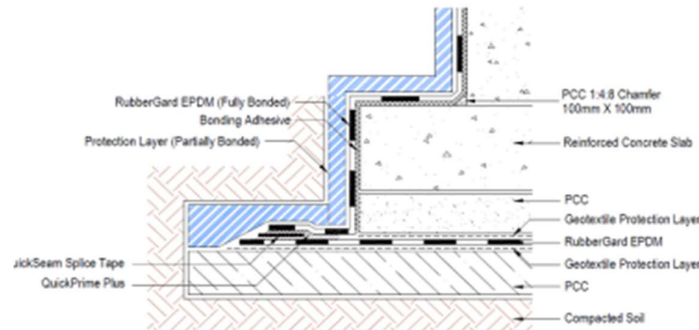
1.9.3.2 Vertical waterproofing in retaining wall/ walls with Raft/Vertical columns/Water tanks/Underground sumps:

Providing and laying waterproofing treatment on smooth, hard, dry and free from dust vertical surface using following materials as per manufacturer specification and as per direction of engineer in charge.

- 1.1mm thick EPDM MEMBRANE is fully bonded to the RCC surface using FM approved neoprene base bonding adhesive. Bonding adhesive is used to adhere the membrane to the retaining wall. The adjacent EPDM membrane should be overlapped for 100 mm. Overlap joints will be sealed using double sided splice tape 75 mm wide and quick prime plus primer. Membrane to have intermediate anchoring after every 3 meters peripherally. All the insertions shall be treated using uncured EPDM. The treatment to be terminated at least at the height of 300 mm above the ground level using termination bar and fasteners. Water block sealant should be used on top edge behind membrane and lap sealant should be applied.

- b) A protective layer of approved make dimpled/studded membrane having weight 500g/sq.m is spot stuck on the EPDM treatment with approved neoprene base bonding adhesive. (The work shall be carried out from manufacturer approved applicator. The EPDM membrane and its accessories should be from the same manufacturer.)

METHOD OF LAYING EPDM in retaining wall/ walls with Raft/Vertical Columns.



1.9.3.3 TERRACE SLAB/PODIUM SLAB WATER PROOFING :

RCC substrate should be hard dry and free from dust, grease and sharp protrusions. This EPDM is to be laid at the top of over deck insulation. Over deck insulation shall be designed for appropriate thickness complying in U-value as per the latest guidelines of ECBC.

Providing and laying waterproofing treatment on smooth, hard, dry and free from dust RCC roof surface with 1.1 mm thick EPDM membrane fully bounded to the RCC surface using factory mutual approved neoprene based bonding adhesive. The sheet should be as large as possible but not less than 6m unspliced width (nominal joints up to 6 m). EPDM membrane to be loose laid over a layer of geotextile 200 g/sqm loose laid with over lap of 100 mm joint spot stuck with bonding adhesive or stitched. Minimum 75 mm wide rubber polymers butyl double sided tape with synthetic rubber polymer quick prime should be used to make water tight quick seam between two EPDM membranes. Insertions & corners etc. to be finished with using quick seam uncured EPDM wherever required. All the insertions shall be treated. The treatment to be terminated as per site situations and as per direction of Engineer-in-charge. For esthetic purpose, the top of EPDM membrane is to be finished with heat resistant tiles as per attached particular specifications. EPDM is to be taken up to the height of 300 mm, which will be fully bonded & terminated with aluminum termination bar using water block sealant and lap sealant and fasteners as per manufacturer. Over the membrane 500 g/sqm to be loose laid joint spot stuck with bonding adhesive. (The work shall be carried out from manufacturer approved applicator. The EPDM membrane and its accessories should be from the same manufacturer). Terrace slab to be protected with heat resistant tiles (300mmx300mm) as per particular specifications given in this document.

Method of Laying EPDM, Insulation and HR Tiles on Terrace Slab (Figure-X)

Heat Resistant Tiles (300x300) as per attached Specifications
Geotextile Protection layer > 500 gsm
EPDM Membrane
Geotextile Protection layer > 200gsm
Over deck Insulation as per attached specifications
RCC Structural Slab/Deck

Standards and Tests (Certificates must be submitted):

The testing shall confirm the manufacturer's specifications and results.

1.9.3.4 Crystalline Waterproofing:

- Water proofing of all water retaining structures such as Underground Tanks / Sumps, STP sumps, overhead tanks etc. shall be done by using crystalline chemical by mixing it in concrete. These structures shall be waterproofed by providing internal waterproofing layer by integral crystalline admix as per DSR 2021. Crystalline admixtures a cementations dry powder to be added minimum @ 0.8% (Dosage) by weight of cement or higher in designed concrete mix of the entire thickness of raft and retaining wall.
- Water proofing of all water bodies / water falls etc. shall also be done by using crystalline waterproofing chemical by mixing it in concrete.
- Crystalline chemical shall be mixed in manufacturer's dosage at the time of production of concrete in plant.
- Controlling specifications shall be of original manufacturer shop drawings (Private Label Supplier Shop Drawings not acceptable) and Original Manufacturer Method Statement (Pvt Label Supplier Method Statement not acceptable) after due approval of Engineer-in-charge.

1.9.3.5 Toilet / Balcony / Kitchen/Canteen/Pantry Area Waterproofing System:

Cement slurry mixed with waterproofing cement compound system as per CPWD specifications and as per direction of Engineer in Charge

1.10 Construction Joint:

Providing and placing in position suitable Synthetic Rubber swelling water stop specially designed for construction joints in concrete with the help of suitable adhesive. It should be capable to swell 1000% of its original volume to seal the construction joint and stop water. It should be trapezoid, flexible rubber strip of size 5x20mm having density of 1.2-1.25gm/cm³ having tensile strength more than 3mpa. It should be capable to withstand water pressure resistance more than 0.8mpa (8bar).

1.11 Pressure-Release Pipes penetrations:

Contractor shall provide pressure-release pipes penetrations in raft, min 50 mm diameters or as per design requirement for water pressure of soil. Pipes shall be sealed all around on the laid membrane with a 2 component liquid membrane as per system requirement and as per instruction of Engineer in charge. All systems to be installed as per system requirement, etc. complete

1.12 Aluminum extrusions (Wherever applicable):

Accepted aluminum extrusions and / or sheet of alloy and grades suitable for the structural requirements and project conditions having required strength and durability of the alloy and designated in the relevant standards. Details including proposed alloy types with supporting justification data shall be submitted by the contractor for approval. Minimum wall thickness for the structural members shall be 2.5mm & non-structural member shall be 1.5mm thick. Extruded

profiles shall be free from die lines, pressure marks, scratches or graphite lines. Solid Aluminum sheet shall be of Alloy 5005 H14 Series.

1.12.1 Finishes to Aluminum:

Different types of coatings / finishes applicable to Aluminum shall be used as per the approval of consultant appointed by the contractor in consultation with respective Engineer-in-Charge, CPWD.

1.12.2 Welding of Aluminum:

All welding work to be carried out, including detailing of all joints, welding procedures, appearance and quality of welds, and correction of defective work in accordance with approved samples. Finished welds shall be de-scaled, free of any surface & internal cracks and free of porosity.

1.12.3 EPDM Gasket:

All unexposed weather gaskets shall be of EPDM micro wave cured gaskets confirming to CPWD specifications.

1.12.4 Nuts, Bolts, Screws and Fasteners:

All Bolts & Nuts for non-visible area shall be Stainless steel A2 grade (304 Grade).

All Bolts & Nuts for visible area shall be Stainless Steel A4 Grade (316 Grade).

1.12.5 Sealants:

Comply with minimum dimensional requirements for edge clearance, edge cover, front clearance, back clearance as per CPWD specifications/ manufacturer specifications. Sealant manufacture shall be providing testing for adhesion, compatibility & non-staining where sealants are used to seal movement joints, movement capability of sealant shall be appropriate to expected maximum deflection or movement. All required accessories recommended by sealant manufacturer, including backing rods, bond breaker tape details to be submitted for review and acceptance to Engineer in Charge. Deglazing should be used as method of quality inspection for units which are structurally glazed.

1.12.6 Backer Rods:

Backer rods shall be silicone compatible, non-gassing, non-staining and non-combustible. They are to be compressed to limits specified by the manufacturer and shall be located in a manner which prevents them from dislodging from the rebate that is being sealed. Backer rods shall not inhibit movement joints from allowing the designed movement of the joint from occurring.

1.12.7 Setting Block/ Side Block/ Pads:

Setting blocks shall comply with CPWD specifications/ manufacturer specifications

1.12.8 Hardware for openable vents and windows:

All fasteners shall be MS hot dip galvanized. Facade contractors shall submit technical catalogue including the test results of each hardware for approval to Engineer in charge. Friction / Casement hinges in SS 316 shall be self-balancing type with provision to hold open up to 150mm. It should comply with manufacturer specifications.

1.12.9 Glass for Structural Glazing / Windows / Railings / Canopy:

The glass will comply with ECBC 2017 and CPWD specifications.

1.12.10 Tests for Structural Glazing (If applicable):

Testing of structural glazing system shall be as per CPWD specifications/ manufacturer specifications/ECBC 2017 and relevant BIS codes.

1.12.11 Exterior Grade Aluminium Composite Panels and Horizontal Louvers:

The work of Exterior grade Aluminium Composite Panels (Fire Retardant) and Louvers work shall be got executed by a specialized contractor as approved by the Engineer-in-charge. Necessary shop drawings for the exterior aluminium composite panels shall be prepared by the specialized contractor and submitted to Engineer-in-charge for approval. Only after approval from the Engineer-in-charge, the specialized contractor will go ahead with procuring and installing the exterior grade perforated or Aluminium Composite Panels and Louvers works.

- a) The Contractor shall be responsible for the detailed engineering design development of entire work and the provisions of all labourers, materials, fabrication, assembly, packing, installation, coordination with adjacent construction. Exterior grade Aluminium Composite Panels and Louvers shall be as per the Architectural drawings prepared by the architect of the contractor duly approved by Engineer-in-Charge of CPWD.
- b) This work shall be got executed through specialized contractor. The engagement of specialized contractor shall be as per condition number 1.29 for engagement of contractor for specialized works under chapter A. Only specialized contractor approved by Engineer-in-charge in accordance with terms and conditions will be allowed to execute this item/work.

The CPWD specifications shall be followed as per DSR 2021 for this work.

1.12.12 RCC Jali:

RCC Jali shall be 75 mm thick with M30 concrete and shall be smooth finished on both side with texture paint all over. Detailed drawings and design shall be prepared by consultant appointed by the contractor and as approved by Engineer –in-charge.

1.12.13 SS railing :

SS railing shall be of SS 304 grade and top of railing shall be 1200 mm from finished floor level, maximum centre to centre spacing between members shall not exceed 125 mm. Size of members should be not less than 50 mm dia. and thickness of members not less than 3 mm. Detailed drawings, pattern, design and fixing arrangements shall be prepared by consultant appointed by the contractor and as approved by Engineer –in-charge.

1.12.14 Plastered Surface:

The work shall be done in accordance with CPWD Specifications Vol. I to Vol. II with upto date Correction slips and IS Codes listed in CPWD specifications shall form a part of this document with all latest codes. Ceiling plaster shall be completed before commencement of wall plaster. Plastering shall be started from the top and worked down towards the floor. All putlog holles shall be properly filled in advance of the plastering as the scaffolding is being taken down. To ensure even thickness and a true surface, plaster about 15 × 15 cm shall be first applied, horizontally and vertically, at not more than 2 metres intervals over the entire surface to serve as gauges. The surfaces of these gauged areas shall be truly in the plane of the finished plaster surface. The mortar shall then be laid on the wall, between the gauges with trowel. The mortar shall be applied in a uniform surface slightly more than the specified thickness. This shall be brought to a true surface, by working a wooden straight edge reaching across the gauges, with small upward and side ways movements at a time. Finally the surface shall be finished off true with trowel or wooden float according as a smooth or a sandy granular texture is required. Excessive troweling or over working the float shall be avoided. All corners, arrises, angles and junctions shall be truly vertical or horizontal as the case maybe and shall be carefully finished. Rounding or chamfering corners, arrises, provision of grooves at junctions etc. where required shall be done without any extra payment. Such rounding, chamfering or grooving shall be carried out with proper templates or battens to the sizes required. Where the thickness required as per description of the item is 20 mm the average thickness of the plaster shall not be less than 20 mm whether the wall treated is of brick or stone. In the case of brick work, the minimum thickness over any portion of the surface shall be not less than 15 mm while in case of

stonework the minimum thickness over the bushings shall be not less than 12 mm. Curing shall be started as soon as the plaster has hardened sufficiently not to be damaged when watered. The plaster shall be kept wet for a period of at least 7 days. During this period, it shall be suitably protected from all damages at the contractor's expense by such means as the Engineer-in-Charge may approve. The dates on which the plastering is done shall be legibly marked on the various sections plastered so that curing for the specified period thereafter can be watched. The plaster shall be finished to a true and plumb surface and to the proper degree of smoothness as required. The work shall be tested frequently as the work proceeds with a true straight edge not less than 2.5 m long and with plumb bobs. All horizontal lines and surfaces shall be tested with a level and all jambs and corners with a plumb bob as the work proceeds. Any cracks which appear in the surface and all portions which sound hollow when tapped, or are found to be soft or otherwise defective, shall be cut out in rectangular shape and redone as directed by the Engineer-in-Charge.

1.13 Flooring Works:

1.13.1 General:

Various types of flooring, skirting, dado and window sill work shall be carried out by the contractor as per broad schedule of finishes attached in this NIT document and as per detailed drawings prepared by the consultant architect of the contractor and approved by Engineer-in-Charge of CPWD. Contractor needs to refer various rooms in each building as per indicative attached architectural drawings in this NIT document.

- 1) Contractor will submit all material or finishing samples to Engineer in charge for approvals before executing the respective jobs.
- 2) Contractor shall need to protect the finished floor surface during execution of other activities using Cello or approved equivalent bubble guard of minimum 500 GSM thick (minimum size 8' x 4'), fixing the same over floor surface with mastic tape or other approved adhesives. Removing protective layer during handing over, disposal of all debris out of site, cleaning the entire covered flooring area as directed by the Engineer-in-charge.
- 3) All flooring, skirting, dado and window sill works will be done in accordance with CPWD specifications Volume I & II with correction slips up to the last date of submission of tender documents. The provision of IS Codes listed in CPWD specifications shall form a part of this document with all latest codes.
- 4) Pattern for any type of flooring / dado shall be as per detailed drawings to be submitted. The cost of flooring work is inclusive of all materials, workmanship, labourers, pattern, colour, style, skirting etc. complete in all respect. No extra payment on this ground shall be entertained. The joints for all flooring to run in a straight line and should follow as mentioned below:
 - a) For Marble stone flooring and dado: 0mm (Zero mm) joint filled with approved adhesive other and else specified.
 - b) For any type of Tile / Granite / Kota Stone floor & dado: 3mm joint shall be maintained with spacer and joint filled with epoxy grout.

Contractor shall need to protect the finished floor surface during execution of other activities using Cello or approved equivalent bubble guard of minimum 500 GSM thick (minimum size 8' x 4'), fixing the same over floor surface with mastic tape or other approved adhesives. Removing protective layer during handing over, disposal of all debris out of site, cleaning the entire covered flooring area as directed by the Engineer in charge.

1.13.2 Window / Glazing Sill:

Stone for window / glazing sill to be in approved premium quality as mentioned in broad finishes details attached in the NIT document. Stone for sill to be minimum 16mm thick and all exposed edges of sills shall be chamfered, half or full bull nosing with mirror polishing should be factory finished and brought to site. All polishing work and laying details for stone work shall be as per CPWD specifications and as directed by Engineer in charge.

1.13.3 Granite Stone Work:

This can be read for Flooring / Skirting / Dado / Cladding works. Machine cut granite stone slabs shall be of thickness not less than 16mm thick. Color of granite shall be uniform and the slabs free from all defects. The granite color shall be proposed by the consultant architect of contractor in consultation with Engineer-in-Charge of CPWD. Stone slabs used at site shall be machine-cut. The slabs shall be made from selected stock, which are hard, sound, homogeneous and dense in texture and free from flaws, angles and edges shall be true, square, and free from chipping and surface shall be plane. The slabs shall preferably to machine cut the required dimensions. In machine-cut slabs, edges shall be protected from any damages in transit. No breakage shall be permitted. All edges shall be sharp, perfectly rectangular. Edges shall be pencil-rounded and polished for exposed corners and faces. Test for stone slabs shall be conducted in accordance of relevant BIS codes / CPWD specifications for stone properties. Stone sealer of approved makes which give excellent repellence against water and oil based stains is to be applied on top surface of the stone. One coat will be applied on the unpolished cut to size before installation and then the cut to size stones are installed. After the final polish the second coat of stone sealer will be applied on top side and a buffing done after about 24-36 hours. Laying of granite stone work shall be carried out as per CPWD specifications.

1.13.4 Glazed Vitrified tiles matt finish and Rectified Glazed Ceramic Tile Work:

The Vitrified tiles shall be matt finish and Ceramic tiles shall be Rectified Glazed Ceramic Tiles of 1st quality. The work shall be carried out in areas as mentioned in broad schedule of finishes attached with the NIT document and as approved by Engineer-in-Charge of CPWD and as per the latest CPWD specifications Volume-I and II with correction slips up to the last date of submission of tender. The tiles shall be confirming to the related BIS codes up to the latest revisions. The testing shall also be got done from approved labs in accordance with the BIS codes for the various parameters and as referred. The contractor has to obtain prior approval of Engineer in charge for tiles makes, sizes, shades and colours as per Architectural drawings before bringing it to site.

1.14 Finishing work:

The finishing work shall be executed as per the drawings prepared by the architect of the contractor and approved by Engineer-in-Charge of CPWD. The contractor shall provide minimum three samples for each finishing items to Engineer in charge for approvals prior to execute the work.

All types of paints, polishes, primers to have low VOC content as per the GHAR–Green Plus rating requirements. The contractor will need to submit all relevant documents to satisfy GHAR–Green Plus rating norms to Engineer in charge pertaining to the finishing work.

The quantity of paint required as per the theoretical consumption including wastages, if any, shall be procured from the approved manufacturer or his authorized dealers and deposited with the representative of the Engineer-in-Charge at site. The paint shall be obtained in smaller packing (around 20 litre). The paint shall be kept in the joint custody of the Department and the Contractor and day-to-day account of receipt and issue shall be maintained. However, the safe custody and watch and ward shall remain to be the responsibility of the Contractor. Nothing extra shall be payable on this account. The name of the manufacturer, manufacturer's product identification, manufacturer's mixing instructions, warnings and instructions for handling and application, toxicity and date of manufacturing and shelf life shall be clearly and legibly mentioned on the labels of each container. These details shall be kept in record. The material shall be consumed in the order of material brought to site, first come first consume basis. The Contractor shall obtain and submit to the Department the manufacturer's certificate for compliance of the various characteristics of the materials as per the manufacturer's specifications and also copy of the manufacturer's test report for the record. Empty containers of the paints shall not be removed from site till the completion of the work unless otherwise permitted and shall be removed only with the permission of the Engineer-in-Charge or his authorized representative at site of work. All arrangements for measuring, dosing etc. at site shall be made by the Contractor. Nothing extra shall be payable on this account. The Contractor shall apply samples of each kind of paint for the approval of shade and colour as per the directions of the Engineer-in-Charge before procuring

Correction – Nil,

Insertion – Nil,

Deletion – Nil

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the paint in mass. All incidental charges of cartage, storage, wastage, safe custody, scaffolding, cost of samples and mock ups etc. shall be borne by the Contractor and no claim, whatsoever, shall be entertained on this account.

1.15 SANITARY WORKS:

1.15.1 Fixture & installation:-

- 1) Work under this section shall consist of providing and fixing and installing all sanitary fixtures, chromium plated fittings and accessories as required as per drawings to be prepared by contractor and approved by E-in-C/Architect of CPWD.
- 2) Without restricting to the generality of the foregoing the sanitary fixtures & fittings shall include the following:
 - a) Sanitary fixtures
 - b) Chromium plated fittings
 - c) Stainless steel sinks
 - d) Accessories e.g. toilet paper holders, coat hook, dispenser etc.
- 3) Whether specifically mentioned or not all fixtures and appliances shall be provided with all fixing devices, nuts, bolts, screws, hangers as required.
- 4) All exposed pipes within toilets and near fixtures shall be chromium plated brass or copper unless otherwise specified.

1.15.2 General:

- 1) All materials, sanitary fixtures and fittings shall be new and of best Premium quality confirming to CPWD specifications and subjected to the approval of Engineer in charge. Wherever particular makes are mentioned, the choice of selection shall remain with the Engineer in charge.
- 2) All appliances, fixtures and fittings shall be provided with all such accessories as are required to complete the item in working condition whether specifically mentioned or not in terms of specifications, and drawings. Accessories shall include proper fixing arrangements, brackets, nuts, bolts, screws and required connection pieces.
- 3) Fixing screws shall be half round head chromium plated brass screws with C.P. washers where necessary.
- 4) Porcelain sanitary ware shall be glazed vitreous china of first quality free from warps, cracks and glazing defects confirming to I.S. 2556.
- 5) Sinks for pantry or kitchen shall be stainless steel or as specified in the Drawings.
- 6) Chromium plated fittings shall be cast brass chromium plated of the best quality approved by Engineer in charge.
- 7) All Appliances, fittings and fixtures shall be fixed in a neat workmanlike manner true to level and heights shown on the drawings and in accordance with the manufacturer's recommendations. Care shall be taken to fix all inlet and outlet pipes at correct positions at proper locations and heights. Faulty locations shall be made good and any damages to the finished floor, Filing Plaster, Paint, insulation shall be made good by the Contractor at their own cost.
- 8) Sanitary appliances, subject to the type of appliance and specific requirements, shall be fixed in accordance with the relevant standards and the following :
 - a) Contractor shall, during the entire period of installation and afterwards protect the appliances by providing suitable cover or any other protection so as to absolutely prevent any damages to the appliances until handing over. (The original protective wrapping shall be left in position for as long as possible).
 - b) The appliances shall be fixed in a manner such that these will facilitate subsequent removal if necessary.
 - c) All appliances shall be securely fixed. Manufacturers' brackets and fixing methods shall be used wherever possible. Compatible rust- proofed fixings shall be used. Fixing shall be done in a manner that minimizes noise transmission.

- d) Pipe connections shall be made with demountable unions. Pipe work shall not be fixed in a manner that it supports or partially supports an appliance.
 - e) Appliances shall be fixed so that water falls to the outlet.
 - f) Appliances shall be fixed true to level firmly fixed to anchor or supports provided by the manufacturer and additional anchors or supports where necessary.
- 9 Sizes of Sanitary fixtures given in CPWD specifications or in the Drawings are for identification with reference to the catalogues of makes considered. Dimensions of similar models of other makes if allowed will not vary more than 2% of dimensions and the same shall be provided and no claim for extra payment shall be entertained nor shall any payment be deducted on this account.

1.15.3 Sanitary Fixtures:

- 1) WC, Urinal, partition, was basins, sinks, showers, toilet paper holder, towel rail, hand drier etc. shall be of premium quality of approved makes, as per architectural drawings prepared by the architect of contractor and approved by architect of CPWD, requirement of space, location complete in all respects including accessories, labour, workmanship etc.
- 2) Colour shades, shapes, sizes shall be selected and approved by the architect of the CPWD.
- 3) All appliances, fixtures and fittings shall be tested as per CPWD specifications. The contractor shall block the ends of waste and ventilation pipes and shall conduct an air test.

1.15.4 Fixture and Flow rates:

Supplying, installation testing and commissioning of all fixtures of given flow rates as per GHAR-Green Plus star norms shall be followed including SITC of all accessories, bottle trap, WC pan connector etc. Makes and models shall be got approved by Engineer in charge. Auto/ sensor operated faucets/ traps/ urinals/ WC etc. wherever required shall be adopted as GHAR-Green Plus star norms and drawings prepared by Architectural consultant of the contractor.

1.15.5 Internal Drainage:

- 1) Internal drainage shall be designed by the contractor and got approved by Engineer-in-charge. The shop drawings shall be prepared by the architect of the contractor and got approved by the Engineer-in-charge..
- 2) Work under this section shall consist of providing and fixing all labourers, materials, equipment's and appliances necessary and required to completely install all soil, waste, vent, rain water pipe and fittings as per relevant BIS code and CPWD specifications.
- 3) Without restricting to the generality of the foregoing, the soil, waste, vent, rain water pipe system shall include the following:-
 - a) Soil, waste and vent pipes, Vertical and Horizontal and fittings, joints, clamps and connection to sewer line as shown on the drawings at Ground Floor level.
 - b) Floor and Urinal traps, Cleanout plugs and inlet fittings.
 - c) Waste pipe connection from all fixtures e.g. washes basins, sinks, urinals, kitchen equipments and plant room equipments.
 - d) Rain water pipes & fitting (Terrace Rain Water and Balcony Drain).
 - e) All pipe fittings exposed or on wall shall be painted with two or more coat of desired shade and color. All sanitary fittings, hanger where no sunken floor provided.
 - f) Testing of all pipes as per relevant codes from external labs.
- 4) The scope also include access doors/opening for clean out, accessible for maintenance i/c MS ladder, platform etc. at suitable locations with primer and paints complete.

1.15.6 SOIL, WASTE & VENT PIPE SYSTEM:

The soil, waste system above ground has to be planned as "Two Stack System" [Double Stack System] as defined in IS : 5329 having separate pipes for waste for wash basins, showers, bath tub, kitchen sinks, Floor drains, AHU's, condensate drain and separate pipe for soil discharge. All piping work shall be executed as per CPWD specification and shall be got tested. All soil waste,

vent, sanitary pipes of required diameter as per design shall be hubless centrifugally C.I.(Span) pipe epoxy coated inside & out side as per IS-15905.

1.15.7 CCI HUB-LESS PIPE :

- 1) Soil, waste, vent, anti-siphonage and sanitary pipes, fittings and accessories like P-traps, bends, wye's, elbows, Tee's, swept tee's etc. shall be of HublessCentrifugily cast (spun) iron pipes epoxy coated inside & outside including SS-304 grade coupling with EPDM rubber gasket of appropriate diameter conforming to IS:15905. All pipes shall be straight and smooth and their inside free from irregular bore, blow holes, cracks and other manufacturing defects.
- 2) All vertical stack shall be 100 mm away from the wall by providing adjustable clamps/angle etc whichever required.
- 3) All indirect water pipes inside toilet from wash basin, Sink, Urinal shall be GI heavy class.
- 4) CI Hubless Pipes and Fittings shall be conforming to IS: 15905. All pipes supports and clamps shall be as per specifications and recommendations of the manufacturer.

1.16 WATER SUPPLY:

1.16.1 Work under this section consists of providing and fixingstainless steel pipes and fittings as per DSR 2021 with all labourers, materials, equipments and appliances necessary as required to complete the water supply system (Domestic Water Supply + Dual Flushing Water Supply) as required as per design and water supply system. The contractor shall submit plan of water supply distribution system of the building both internal and external in accordance with relevant BIS Code and duly approved by Engineer in charge.

1.16.2 Without restricting to the generality of the foregoing, the water supply system shall include the following:-

- a) Hydro-pneumatic supply from Domestic / Flushing/ Soft Water/ Irrigation Water UGT to all fixtures/appliances.
- b) Thermal insulation to hot water pipes & valves.
- c) Connections to all fixtures etc.
- d) Ball valve/butterfly valve/Non Return valve/Pressure Reducing Valve/Water Meter.
- e) All supports made of galvanized iron.

1.16.3 All concealed pipes fittings bends for water supply shall be of stainless steel 316 grade of required diameter as per drawing and design. The scope includes smooth flow of water supply pipes with equitable and proper distribution of pressure.

1.16.4 Valves and other appurtenances shall be located as to provide easy accessibility for operations, maintenance and repairs.

Pipe shall be securely fixed to wall and ceiling by suitable and adjustable clamps at intervals specified.

1.16.5 Stainless Steel Pipes: - Domestic, Flushing Water, Soft Water running in shafts, inside toilets, on terrace, in basement and in Pump Room.

1.16.6 Supplying, installing testing and commissioning of Stainless Steel 316 grade pipes including all bends, tee, union, coupling, adaptor, etc. Pipes supplied shall have a smooth outer surface, with external weld bead removed. Pipes to be supplied with ends capped to prevent ingress of deleterious material. Pipes shall be horizontally marked:

- a) Brand
- b) Standard
- c) Size – OD x thickness
- d) Pipe Fittings Brand:All pipe fittings shall like bends, tees, union, coupling, adaptors etc. Shall be of stainless steel 316 grade with press ends and shall be made as per relevant code suitable for hot and cold water applications and be capable of withstanding pressures up to 16 bar.

1.16.7 GI Pipes:- Including Fittings and Valves (Sump Risers, Pipes Running in Trenches):

- (i) All pipes inside the buildings and outside the building shall be galvanized steel tubes conforming to IS: 1239.
- (ii) Fittings shall be of malleable galvanized iron of approved make. Each fitting shall have manufacturer's trade mark stamped on it. Fittings for G.I pipes shall include couplings, bends, tees, reducers, nipples, unions, bushes etc. fittings etc. shall conform to IS : 1879. (Part 1 to X) 1987.
- (iii) All excavation, trenching, painting, sand filling, pipe protection and pipe installation shall be as per CPWD specifications and directions of engineer in charge.

1.16.8 Ball Valves:

All ball valves shall be heavy duty of approved make. Valves shall have suitable for test pressure of 25 Kg/Sqcm. Ball valves shall conform to the following specifications.

Size	Construction	Ends
15 to 50 mm	Bronze body S.S. Working Part stainless steel balls, spindle, teflon seating and gland packing, steel handle.	Screwed

1.16.9 Butterfly Valves:

All butterfly valves shall be heavy duty cast iron of approved make. The valves shall be suitable for 15 Kg/Sqcm test pressure & shall conform to the following specifications Butterfly valve shall be of best quality conforming to IS: 13095:

Butterfly Valves shall be cast iron body with following details:-

- a) Disc shall be CI heavy duty electrolyses nickel plated abrasion resistant.
- b) The shaft be EN-8 Carbon Steel with low friction nylon bearings.
- c) The seat shall be drop tight constructed by bonding resilient elastomer inside a rigid backing.
- d) Built in flanged rubber seals.
- e) Actuator to level operated for valves above ground and T Key operated for valves below ground.
- f) Built in flanges for screwed on flanged connections.
- g) Manufacturer's details on fixing and installation will be followed.

1.16.10 Ductile Iron (DI) Pipes: - (For Water Line from Municipal line to UGT):

- a) Pipe laid in ground for water supply from municipal connection shall be laid in trenches/underground shall be of DI class K-9 of required dia and size as per drawing/design including trenching necessary fittings like collar bends and tees with titan joints. The technical specification of ductile iron pipe confirm to indianstandardIS : 8329-1994, IS : 2531-1998.
- b) The ductile from pipe shall be strong, both inner and outer surfaces are smooth, free from lumps, crakes blister and scares.
- c) The ductile iron fitting shall confirm to IS: 9523-1980.
- d) The joints for ductile iron pipe shall suitable for rubber gasket conforming to IS :5383
- e) Laying and jointing shall be similar to cast iron pipes.
- f) The test pressure shall be 1.5 times the maximum sustained operating pressure and the test pressure shall be as per IS: 8329-1994.
- g) Slotted angles/ channels shall be measured per linear metre of finished length and shall include support bolts and nuts, length embedded in the cement concrete blocks of 1 : 2 : 4 (1 cement : 2 coarse sand : 4 stone aggregate 20mm nominal size) formed in the masonry walls; nothing extra shall be paid for the cement concrete block and making good the masonry wall, anchor fastners etc. complete.

1.16.11 Non-Return Valves:

- a) All non-return valves shall be provided as shown in the drawings conforming to relevant Indian Standards and in accordance with the following specifications.

Size	Construction	Ends
Upto 50 mm.	Gun metal	Screwed
65 mm and above	Gun metal/cast iron	Flanged

Non-return valves shall be of approved make.

1.16.12 GI Pipes and Fittings:

Supply, installation, testing & commissioning of garden hydrant main pipe shall be of G.I. Pipes Class 'C' (Heavy grade) conforming to I.S. 1239 with G.I. Fittings conforming to IS: 1879 (Part I to X) such as tees, crosses, plug, socket, elbows, reducers, flange, check nut, flanges & clamps, hanger, structural steel supports as required/directed at Site.

1.17 External Sewer, Storm Water Drainage and Rain Water Harvesting Pits:

- 1) All underground Storm Water Drainage Pipe of the building shall be laid in proper slope and required pipe and material capable to smooth flow of water in accordance with designed system.
- 2) The scope includes all catch basin, storm manholes, gully chambers, gratings.
- 3) All underground Storm Water Drainage work include earth work in excavation for all type of soils, disposal, and compaction, pipe laying, pipe embedment and back filling, testing complete.
- 4) Submit shop drawings details and descriptive literature showing pipe dimension, joint and fitting details, recommended method of cutting pipes and other relevant detail etc. all complete for the approval of engineer incharge.
- 5) Taking approvals and all liaiseing work shall be the responsibility of the contractor.

1.18 SANITARY INSTALLATIONS /WATER SUPPLY / DRAINAGE:-

The contractor shall be responsible for the protection of the sanitary and water supply fittings and other fittings and fixtures against pilferage and breakage during the period of installation and thereafter until the building is handed over. The contractor shall furnish all labour, materials and equipment, transportation and incidental necessary for supply, installation, testing and commissioning of the complete Plumbing / Sanitary system as described in the Specifications and as shown on the drawings. This also includes any material, equipment, appliances and incidental work not specifically mentioned herein or noted on the Drawings/Documents as being furnished or installed, but which are necessary and customary to be performed under this contract. The Plumbing / Sanitary System shall comprise of following:

- a. Sanitary Fixtures and Fittings.
- b. Internal and External Water Supply.
- c. Internal and External Drainage.
- d. Balancing, testing & commissioning.
- e. Test reports and completion drawings.

For the work of water supply and sanitary installations, the contractor shall engage the approved licensed plumbers and submit the name of proposed plumbing agencies with their credentials for approval of the Engineer-in-Charge. For quality control & monitoring of workmanship, contractor shall assign at least one engineer who would be exclusively responsible for ensuring strict quality control, adherence to specifications and ensuring top class workmanship for the installation.

The work in general shall be carried out as per CPWD Specifications with up-to-date correction slips. 14.5 The tendered rates shall include the cost of cutting holes in walls, floors, RCC slabs etc. wherever required and making good the same for which nothing extra shall be paid.

Nothing extra for providing & fixing CP Brass caps /extension pieces wherever required for CP Brass fittings shall be paid beyond the rates payable for corresponding CP Brass fittings.

Correction – Nil,
Insertion – Nil,
Deletion – Nil

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The contractor shall examine all architectural, structural, plumbing, electrical and other services drawings and check the as-built works before starting the work, report to the Engineer In-Charge any discrepancies and obtain clarification. Any changes found essential to coordinate installation of his work with other services and trades, shall be made with prior approval of the Engineer In-Charge without additional cost to the department.

1.18.1 General Requirements:

- (i) All materials shall be new and of the best quality conforming to CPWD specifications.
- (ii) Establish and maintain quality control to assure compliance with contract document and local codes (Local municipal bye Laws).
- (iii) All Storm Water Drainage Line/Open Drain Channel shall be laid to the required gradients and profile as per cpwd specifications.
- (iv) All drainage work shall be done in accordance with Local Municipal bye laws.

1.18.2 Manholes and Chambers:

All manholes, chambers and other such works as specified shall be constructed in brick masonry as per CPWD specification or as specified in the drawings.

1.18.3 Engagement of contractor for specialized civil works:

Contractor has to engage specialized associate agencies for specialized items of works separately.

Contractor after executing these specialized works through its associated specialized agencies/specialized firm has to submit the guarantee bonds for 05/10 yrs (Five/Ten years) from date of completion of defect liability period mentioned in this NIT document for removal of any defects cropping up in these specialized works executed by them during the said guarantee period. The various forms of these guarantee bonds to be executed by both contractor and specialized agency are given at Annexure-VI & VII. The various specialized items of works under this agreement in respect of civil construction are as under:-

1. Water proofing treatment works (on roof, basement, UG tanks, toilets etc)
2. Exterior grade Aluminium Composite Panel & Louvers (If applicable)
3. Structural Glazing System (if applicable)

As mentioned above 05/10 years (Five/Ten years) guarantee bond shall be submitted by the contractor which shall also be signed by both the specialized agencies and the contractor to meet their liability / liabilities under the guarantee bond. However, the sole responsibility about efficiency of above mentioned specialized works shall rest with the contractor.

10% (Ten percent) of amount of the estimated cost of above mentioned specialized works shall also be retained as Security Deposit and the amount so deducted shall be released after completion of guarantee period from date of completion of defect liability period mentioned in this NIT document/ agreement, if the performance of the said executed items are found satisfactory by respective Engineer-in-Charge.

If any defect is noticed during the guarantee period, the contractor shall rectify it within 07 days of receipt of intimation of defects in the work. If the defects pointed out are not attended to within the specified period, the same will be got done from another contractor at the risk and cost of contractor. Further this security deposit can be released in full after expiry of defect liability period, if bank Guarantee of equivalent amount for Full 5/10 (Five/Ten) years after completion of defect liability period mentioned in this NIT document, is produced and deposited with the respective Engineer-in-charge.

- 1.19 Approval of the specialized agencies for each specialized work at shall be obtained from the respective Engineer-in-Charge within one month of award of work. Even if, such specialized items of work shall be executed by the specialized agencies at later date the work shall be deemed to be executed by the tenderer for all purposes and the responsibility of the quality of items of works executed etc. shall continue to be that of the tenderer only.

List of References:

- Hand book of Water Supply and Drainage, Bureau of Indian Standards.
- SP-35 (S&T) 1987.
- Manual of water supply & Treatment–1997, Central Public Health and Environmental Engineering Organization.
- Manual on Sewerage and Sewage Treatment revised upto 1993 (Ministry of Urban Development, New Delhi), (Govt. of India)
- Schedule of specifications of C.P.W.D. revised upto 2019, (Govt. of India) with all latest amendments issued from time to time
- National Building Code -2016 by Bureau of Indian Standards.
- Code of practice for provision and maintenance of water supplies for firefighting IS: 9668:1990
- Other relevant ISI codes.
- Code of basic requirement for water supply, drainage and sanitation IS:1172:1983 by Bureau of Indian Standards.

1.19SPECIAL CONDITION FOR PILING WORKS

- (i) The tenderer shall inspect the site of work before tendering and acquaint him self with site condition. He should submit his offer on the schedule of quantity attached with the tender for bored cast-in-situ concrete piles only and not for any other type of pile.
- (ii) The soil investigation data attached with the tender papers represent the information available with the Department. The tenderer shall satisfy himself about the complete characteristics of the soil and Underground water at site. No claim on the basis of alleged inadequacy or incorrectness of the soil data supplied by the department would be entertained.
- (iii) The tenderer shall quote his rate for piling items indicated in the schedule of quantities considering departmental design.
- (iv) The tenderer shall quote all-inclusive rates against the items in the schedule of quantities and nothing extra shall be payable on account of the condition and specification mentioned in the tender documents.
- (v) All concreting works shall be done in presence of the Engineer-in-Charge or his authorised representative.
- (vi) The contractor shall himself arrange for necessary installation and supply of electricity and power required for the work and the Department will neither bear nor reimburse expenditure on this account.
- (vii) The contractor shall supply and maintain at his own cost all-light either for illumination or for cautioning the public at night.
- (viii) In order to indemnify the department for any claim on account of damage to adjacent properties/structure the contractor shall at his own cost, insure against such claim arising out of or due to piling work done by him. The contractor shall also ensure all precautionary measures to avoid such happenings at his own cost.
- (ix) Licenses – The contractor shall give to the Municipal, Police or other authorities all notices that may be required by law and obtain all requisite licenses for temporary constructions/enclosures and pay all fees, taxes and charges which may be leviable on account of his/their operations in executing the contract at his own cost.
- (x) In case of piles where the strength of the concrete is less than the stipulated strength as per revised CPWD Specification 2019 for Cement mortar, Cement Concrete and RCC work such piles will be summarily rejected and no payment for such rejected pile shall be made.
- (xi) Acceptance criteria for the safe load capacity of the pile determined by the load test will be governed by IS-2911, Part-IV of latest edition.

- (xii) (1) The piles, which do not satisfy the acceptance criteria, shall be summarily rejected and no payment for such rejected pile shall be made.
(2) The contractor shall pull or leave in place such rejected piles at his own option. The contractor shall be required to submit new proposal / measures against the rejected piles which shall be carried out as approved by the Engineer-in-Charge at the sole risk and cost of the contractor.
- (xiii) The successful tenderer is required to bring at least **2 (Two) nos. rigs/** suitable equipments that may have to be deployed depending on the stipulated time for completion of the work.
- (xiv) The working piles shall be executed only after acceptance of initial load test result by the Department.
- (xv) The contractor shall make his own arrangement for discharging the surface/pond water into the Municipal mains for which he/they shall obtain proper approval from the municipality /any other statutory body in this regard. Nothing extra shall be paid either on this account or for bailing out of water from surface/pond in the form of seepage water, subsoil water, spring water or whatever may be required to be bailed out during the execution time period.
- (xvi) After completing the boring operation, the depth of boring for the piles shall be got checked up and recorded by the authorised representatives of the Department under joint signature before the concreting for the piles are started.
- (xvii) Surplus excavated earth is to be disposed off day-to-day from the site of works by the contractor as per direction of the Engineer-in-Charge at contractor's own cost.
- (xviii) The contractor shall remove the slush regularly, which will come out during boring of bored pile. The slush is required to be removed during execution of the work every day and no claim, whatsoever on this account shall be entertained by the Department.
- (xix) The contractor should possess all the required T & Ps, equipments and specialized workers etc. for execution of the piling and other related works. Nothing extra on this account shall be payable by the Department.
- (xx) The contractor should associate with specialized agency for pile work in case agency is not having experience in pile work himself and shall indicate the detailed particulars of specialized agency that are acceptable to Engineer-in-charge.

1.20 ADDITIONAL SPECIFICATIONS FOR BORED CAST-IN-SITU PILES.

1. **Definition:-** The definition of terminology shall be as per (IS-2911 Part I/Section 2 of latest edition).
2. The construction of bored cast-in-situ concrete piles shall be carried out in all respects as per the provision stipulated in the agreement, as per IS-2911 Part- I/Section-2 (latest edition) and as per direction of Engineer-in-Charge.
3. The piles shall be bored cast-in-situ concrete piles and shall carry a safe load as mentioned against the item for piling work in the schedule.
4. **The permissible positional deviation from the true position of pile: -**
 - a. No pile shall be more than 75 mm out of the true position as shown in the approved plan/drawing at the level of bottom of pile cap. In case the pile is displaced by more than 75 mm from its true position, the contractor shall be required to submit modified design based on actual displacement for approval of the Department. Any extra cost in the work involved on account of such modification shall be borne by the contractor.
 - b. No error in verticality of the pile exceeding 1.5% (One decimal Five percent) from the true vertical shall be permitted. In case the deviation in verticality exceeds this limit, the pile shall be liable for rejection. The contractor in such case may be permitted to re-design the pile as a battered pile or he may provide extra pile/piles to satisfy structural requirements at his own risk and cost.
5. The contractor shall be responsible for any adverse effect due to providing such extra pile on other piles.
6. The distance between centre to centre of piles shall not normally be less than 2.75 to 3 times the diameter of the pile and 2.5 times under exceptional cases. In case different sizes of piles are used the diameter of biggest pile shall be the guiding factor.
7. A minimum length of one meter of temporary casing shall be inserted in each bored pile. Boring shall be done by rotary type drilling rigs/machine using direct mud circulation method. No auger or cutter boring will be permitted. Stabilisation of edges shall be done by use of bentonite solution having specific gravity. 1.1 to 1.2 and conforming to Specification detailed in, Appendix A of IS2911 (Part-I/Section-2) 1979 or latest edition. The specific gravity of the mud suspension near about the bottom

Correction – Nil,

Insertion – Nil,

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of the hole shall whenever practicable be determined by suitable slurry sampler in a first few piles and at suitable intervals of piles and recorded. Consistency of the drilling mud suspension shall be controlled through out the boring as well as concreting operation in order to keep the hole stabilised as well as to avoid concrete getting mixed up with thicker suspension of the mud. The bentonite solution shall be used at least from the level of subsoil water and hole shall then be always kept almost full with bentonite solution, which shall preferably be kept in motion. Where the Engineer-in-Charge is satisfied that it is necessary to do so, he can permit the contractor to use a suitable casing, which may not be left, in place. Such permission shall be given only on the application of the contractor and after the other methods have failed to produce satisfactory results. No extra payment shall be made to the contractor for such alternate method. The bottom of the boreholes shall be cleaned of the spoils and sediments before placing of concrete and after placing of cage reinforcement so that the base of the pile shall be free from loose material.

8. In case of boring with casing, the casing shall be used at least from the level of subsoil water. The casing shall be kept ahead of boring in case where there is danger of caving due to subsoil water entering into the borehole or where the soil is loose. While boring below subsoil water level, precaution shall be taken so that no boiling at the bottom of the hole occurs due to difference of hydrostatic head.

9. Concreting: -

a. Concreting of boreholes shall start as soon as possible after its completion. Should a borehole, which is not cased, be left unconcreted for more than two hours, it shall be cleaned thoroughly before concreting. The concreting under water shall be done in one operation. Where concreting under water, a temporary casing should be installed to the full depth of the borehole or 2 metres into the non-collapsible stratum, so that fragments of ground cannot drop from the sides of the hole into the concrete as it is placed.

b. Concrete shall be placed by means of a tremie pipe (Sec. IS 456-2000, Para 14-2-4a). It shall be ensured that concrete entering the tremie pipe does not get mixed up with the slurry. One of the methods of achieving this is by pouring $\frac{1}{4}$ Kg. of granulated vermiculite in the tremie pipe before pouring concrete. The vermiculite granules will form a plug separating concrete from the fluid below. Any other approved method of plugging may also be adopted. The tremie pipe shall extend up to the bottom of the bore hole at the start and may be withdrawn in sections as the level of concrete rises in the bore holes, but the discharge end shall at all times be kept at a level below the top of concrete in the bore holes to a minimum depth of one metre. The placing of concrete should be continuous and the tremie pipe should be held concentric in the hole.

10. Withdrawal of Casing: -

a. Extraction of casing (if used) shall be done in such a way that no knocking or shearing of the concrete in the shaft takes place. Care should be taken to ensure that water does not enter the tremie pipe. At all times, after concreting is started, the lower end of the casing pipe shall remain below the tremie pipe at least 60 cm, till concreting is completed.

b. During the extraction of casing, slumping of concrete shall be observed and when required, additional quantity of concrete shall be poured so that the pile is formed, above the cut off level as per Clause 7.7 and 7.8 of IS – 2911 (Part-I/ Sec. 2) 1979 or latest edition for which nothing extra shall be paid. During extraction of the casing, special slump records shall be maintained. The slump in any case shall not exceed the permissible limit as laid down in IS-2911 (Part-I/Sec 2)/1979 with amendments or latest edition.

11. Splicing of Reinforcement of Piles:-

a. The longitudinal reinforcement and spiral/ rings of the piles should be provided in pile (as per drawing.) for entire length of piles. The splicing of longitudinal reinforcement should have full development length/bond length of $46 \times d$, where “d” is the diameter of the bar or as shown in drawing.

b. When the splicing of longitudinal reinforcement is provided in lap joints with necessary arc welding as per I.S. 9417-1989 or latest edition, the development length/bond length should be provided for a length of $15 \times d$ or 200 mm whichever is more. The welding in lap joints of reinforcement of pile should be strictly done as per provision of para 10.5 to para 14 of I.S.9417-1989 or latest edition. Prior to production of welding in the aforesaid reinforcement, “Initial tests” as per para 12.1 and “Quality control tests” as per para 13.2, 13.2.1 and 14 of I.S 9417- 1989 or latest edition

Correction – Nil,

Insertion – Nil,

Deletion – Nil

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- should be carried out at any approved laboratory and the results of testing should be submitted to the Engineer-in-charge.
12. The longitudinal reinforcement of the piles should be anchored to the pile cap for a length of 41 times the diameter of reinforcement or as shown in drawing, from top of pile.
 13. The piles shall be measured from the underside of the pile cap to the bottom of tip of the pile.
 14. The length of the pile embedded in the pile cap shall not be measured as a part of the pile for the purpose of payment. No deduction, however, shall be made from the pile cap due to length of pile embedded in the pile cap. This should include all cost of labour and materials required for installation of the piles including the length of pile to be embedded in the pile cap for which no extra payment will be made but excluding the cost of reinforcement.
 15. The contractor shall have to satisfy the Engineer-in-Charge for every pile that is concreted by making accurate observations of the consumption of cement and quantity of concrete that has actually gone into the pile and record for the same shall be maintained by the contractor indicating the reduced level of the bottom and top of the pile. All other data about boring of the pile shall be recorded as directed by the Engineer-in-Charge. Concreting of each pile shall be done on the same day. Concreting in water shall not be carried out without written permission of the Engineer-in-Charge.
 16. When concrete is placed by tremie method, Concrete shall be cast to the piling platform level to permit overflow of concrete for visual inspection or to a minimum of one metre above cut off level. No payment will be made for this concrete over the cut off level.
 17. Cost of dismantling the concrete of pile from GL upto the cut-off level of the pile and the cost of removal of the dismantled concrete shall be done by the contractor from the site and no payment shall be admissible on this account. No extra payment for the empty boring from the average ground level to the cut-off level of the pile shall be entertained.

LOAD TEST

- a. **Initial Load Test :-** Contractor shall carry out such load test before execution of the main piling work outside the pile layout as per the direction of the Engineer-in-Charge. The rate for initial load test shall include the construction of test cap and cost of all items of works necessary for testing and dismantling the test cap after the test is completed.
- b. **Routine Load Test :-** Routine load test shall be carried out on any particular pile or group of piles in the pile layout, selected by the Engineer-in-Charge. The rate of routine load test shall include construction of test cap and all items of works necessary for testing and dismantling the test cap after the test is completed.
- c. All the records of load test data as per agreement item and quantities should be submitted to the Engineer-in-charge as soon as the tests are completed. The related structural drawings shall be released for execution in phased manner after 3 weeks from the date of respective tests reports i.e. pile layout details after receipt of initial load test reports and details of pile cap after receipt of routine load test reports. The time specified in clause-5 of schedule “F” for execution of work is inclusive of the aforesaid time schedule for issue of structural drawings.
- d. The load test on pile/piles of standard length shall not be carried out earlier than 4(four) weeks from the time of casting of the piles. Initial load test and routine load test shall be carried out as per IS2911 (Part- IV) of latest edition. For the purpose of load test, the pile shall be kept free from any lateral contact with the soil upto a depth of 2000 mm below the ground level/formation level i.e. approximately upto cut off level. The test cap for such tests shall be so constructed that even when the pile had settled fully under load test, the cap would not touch the ground surface below it. The Engineer-in-Charge will have the liberty to direct the contractor to conduct the load test at any stage of piling work.
- e. Rate for testing shall include the extra length of pile required to be constructed for carrying out the tests and any other work considered necessary for that test and the Department will not incur any expenditure in this regard.
- f. Before any load test is carried out the proposed apparatus and loading structure to be used for the load test shall be got approved by the Engineer-in- Charge. The dial gauges and pressure gauge shall be got calibrated. The calibration certificate in original should be submitted to the Engineer-In-Charge which shall be returned after verification.

- g. The contractor shall arrange the necessary kentledge and RSJ's etc. for applying the load in the load test and shall remove the kentledge, RSJ and bags of ballast etc. from the site after the test is completed to the satisfaction of the Engineer- in-Charge. Rate quoted for testing shall include the cost of all the items of the work necessary for such test and submission of the test report as per the direction of Engineer- in-Charge.
- h. Determination of safe load carrying capacity of piles shall be governed by the provision of IS2911 (Part-IV) latest edition.
- i. The contractor shall be paid for the load tests at his quoted rates. If the results of such tests are found to be erratic and inconclusive, the contractor will be required to carry out additional tests at his own cost to prove the satisfactory performance of the piles.
- j. In case it becomes necessary to increase the length of the pile beyond the standard length, the payment for the additional length shall be limited to a permissible increase of 10% of the standard length of the piles. The extra length of piles beyond the permissible limit of 10 percent shall be provided by the contractor at his own cost. For the variation within the permissible limit of ten percent, the payment shall be made at pro-rata basis of the quoted rates. If it is found that the length of pile is to be installed at a lesser length than that of specified in the respective item of works, necessary deduction will be done on prorata basis from the quoted rates in the relevant item of works.
- k. In case the piles which fail in the load test does not come upto the stipulated load capacity, the contractor shall submit his proposal for bringing up the load capacity of the foundation upto the required level by providing extra piles or other corrective measures which shall be provided by the contractor at his own risk and expense. For all such modifications for strengthening and corrective measure, the contractor shall obtain prior approval of the Engineer-in-Charge before execution.
- l. If the safe load bearing capacity of the piles based on the load test data is found to be lower than the designated load capacity guaranteed in tender, the contractor shall modify the foundation system by increasing the length of the pile or by increasing the numbers of pile or by combination of both for which necessary load, moments etc., of the columns shall be supplied by the Engineer-in-charge. The additional payment on account of such strengthening due to revision of design shall be limited to the amount arrived at by multiplying the number of piles "N" (Where "N" is the number of piles required by providing piles of capacity guaranteed by tender) the permissible increase of ten percent in the length "L" specified in the description of the item in the contract at the rate "R" quoted for such type of pile. (That is the additional payment shall be limited to $N \times L \times 1R/10$). Any extra cost over and above, the permissible increase shall be borne by the contractor and the Department shall not be required to pay for the same.
- m. Testing of piles of different categories shall be done in presence of Engineer- in-Charge or his authorized representative.
- n. The agency has to make the full arrangement for non destructive integrity testing of piles (NDT) as per IS 14893:2001 and it shall be carried out on selected piles atleast on 5% of total piles or as decided by the Engineer-in- Charge, in case of doubt regarding soundness of cement concrete work(RCC work) on piles as per direction of Engineer-in-Charge and his decision shall be final and binding. However, testing charges shall be born by the department provided test results meet the acceptance criteria otherwise payment for testing as well as cost of pile shall be born by the agency.

1.21 Furniture Works:

- a. The main firm should submit the willingness from eligible OEM/Authorised Distributor to get associated with them for execution of the furniture works in wholesome manner and as per the conditions set out in the MOU to be entered into, between the one who is awarded the work and the associated eligible OEM/Authorised Distributor.
- b. **The contractor shall submit manufacturer authorization:** Wherever Authorized Distributors are supplying furniture, Manufactures Authorization Form (MAF)/Certificate with OEM details such as name, designation, address, e-maill ID and Phone No or OEM authorization form for seller with complete details required to be furnished by the contractor.

Correction – Nil,

Insertion – Nil,

Deletion – Nil

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- c. **Test reports and certifications:** (Greenguardgold/Greenguard UL/GreenPro, Bifma, ISO 45001-50001-9001-14001, Indoor air quality certified) of the product to be enclosed which are offered by the seller.
- d. An undertaking from the OEM that the equipment is of the latest technology and till date no revised or amended version has been launched and the spare parts will remain available for at least next 10 years, to be submitted by the agency.
- e. Details of after sale services support should be provided which will include the followings details required from OEM side.
 - Corresponding address of service center.
 - Telephone No. (Office).
 - Name of Authorized Service Engineers along with mobile Number & E-mail address.
- f. The contractor must provide security bond on judicial bond paper for 1 year warranty of concerned products. Warranty period of the supplied products shall be 1 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at site location. OEM warranty certificates must be submitted by the contractor.

ADDITIONAL CONDITIONS

1.0 COMPLIANCE WITH LOCAL BYE-LAWS, RULES AND REGULATIONS

The work shall be carried out in the manner complying in all respects with the requirements of relevant bye-laws of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-Charge and nothing extra shall be paid on this account. The contractor shall give due notices to the Municipality, Gram Panchayat, Police and /or other authorities as may be required under the law / rules under force and obtain all requisite licenses / permissions to carry out the work 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.

In the event of any restrictions being imposed by security and traffic agencies or any other authority having jurisdiction in the area on the working or movement of labour / material, the contractor shall strictly follow such restrictions and nothing extra shall be payable to the contractor on this account. The loss of time on this account, if any, shall have to be made up by generating additional resources etc.

2.0 PROTECTION OF EXISTING STRUCTURES / SERVICES AND INTERFERENCE WITH OTHER WORKS

The contractor shall protect existing drains, pipes, cables, overhead wires, sewer lines, water lines and other services encountered in the course of execution of the work, and shall repair any damage caused by him at his own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.

The contractor shall carry out his work so as not to interfere with or hinder the progress or completion of the work being performed by other contractor (s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose of the materials being used or removed, so as not to interfere with the operations of other contractors. He shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of Engineer-in-Charge.

3.0 JURISDICTION OF COURT

Courts at Bhubaneswar, Dist: Khordaa alone shall have the jurisdiction to decide any dispute arising out of or in respect of this contract.

4.0 SAFETY PRACTICES AND SUPERVISION

- (i) Necessary protective and safety equipment shall be provided to the Site Engineer, Supervisory staff, labour and technical staff of the contractor by the Contractor at his own cost and to be used at site.
- (ii) 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.
- (iii) In addition to the supervision of work by CPWD engineers, the safety teams deployed by the client if any (Authority), shall also be carrying out regular and periodic inspection of the ongoing activities in the work and deficiencies, shortcomings, inferior workmanship pointed out by them shall be communicated by CPWD engineers to the contractor. Upon receipt of instructions from Engineer-in-Charge these are also to be made good by necessary improvement, rectification, replacement upto his complete satisfaction.
- (iv) All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested as per the design conditions before covering and their record measurements in computerized measurement book duly checked shall be deposited with Engineer-in-Charge or his authorized representative, prior to hiding these items.

Correction – Nil,
Insertion – Nil,
Deletion – Nil

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- (v) The contractor shall follow “Safety, Health and Environment Handbook- 2019” issued by CPWD in 2019.

5.0 Maintenance of Register: Site Order Book shall be kept at site. All test registers, and MAS registers issued by the Engineer-in-Charge shall be maintained by the contractor which will be reviewed by the officers of CPWD at regular intervals.

Maintenance of Register of Tests –

- (i) All the registers of tests carried out at Construction Site or in outside laboratories shall be maintained by the contractor which shall be issued to the contractor by Engineer-in-Charge.
- (ii) All Samples of materials including Cement Concrete Cubes shall be taken jointly with Contractor by JE/AE and out of this at least 50% samples shall be taken in presence of AE in charge. If there is no JE, all Samples of materials including Cement Concrete Cubes shall be taken by AE jointly with Contractor. All the necessary assistance shall be provided by the contractor. Cost of sample materials is to be borne by the contractor and he shall be responsible for safe custody of samples to be tested at site.
- (iii) All the test in field lab setup at Construction Site shall be carried out by the Engineering Staff deployed by the contractor which shall be 100% witnessed by JE/AE. At least 10% of the tests are to be witnessed by the Executive Engineer / Executive Engineer and Senior Manager.
- (iv) Minimum 10% test should be conducted in outside approved lab as directed by Engineer-in-Charge.
- (v) All the entries in the registers will be made by the designated Engineering Staff of the contractor and same should be regularly reviewed by JE/AE/AEE/EE.
- (vi) Contractor shall be responsible for safe custody of all the test registers.
- (vii) Submission of statement of all test conducted at site/lab, material at Site Register along with each alternate Running Account Bill and Final Bill shall be mandatory.

Maintenance of Material at Site (MAS) Register –

- (i) All the MAS Registers including Cement and Steel Registers shall be maintained by Contractor which shall be issued to the contractor by Engineer-in-Charge in the same manner as being issued to CPWD field staff. Authenticated copies of bills / vouchers of materials which has to be entered in the MAS register are to be submitted by the contractor to CPWD before making payments.
- (ii) Each of the entry of receipt of material at site shall be 100% test checked by JE or by AE/AEE if there is no JE.
- (iii) Each MAS Register shall be checked by JE at least twice a week and at least once a week by AE/AEE. If there is no JE then MAS registers will be checked by AE at least twice a week.
- (iv) Cement Register shall be reviewed by EE at least once in a month.
- (v) It will be deemed that work so measured, checked and paid is of the required quality and standard, both in respect of ingredients as well as the intended functions it is supposed to perform. In other words, the work would not only meet the required specifications but also the workmanship as per sound engineering practices.
- (vi) The Superintending Engineer shall also have to check and sign these reports at suitable intervals in token of his ensuring compliance of the ‘Quality Assurance Plan’ for the work.
- (vii) Copies of bills: Agency will provide authenticated copies of itemize bills of materials which has to be entered in the MAS Register viz steel, cement, bitumen, paint, water proofing or any other item suggested by the Engineer-in-Charge.

31.0 Quality Assurance: Quality of work is of paramount importance. Contractor will be required to engage well-experienced supervisors, engineers, skilled labour and deploy modern T&P and other equipments to execute the work in a time bound manner. Many items like exposed finish form work, specialized flooring work, factory made door-window shutters, proper slope maintaining in toilet units, sanitary-water supply installation, textured finishing, aluminium and glass work and water proofing treatment will specially require engagement of skilled workers having experience particularly in execution of such items.

Correction – Nil,

Insertion – Nil,

Deletion – Nil

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

In addition to the supervision of work by CPWD engineers, the third party quality assurance representatives / Quality Assurance of CPWD and/ or Clients representatives shall also be carrying out regular and periodic inspections of the on-going activities in the work and deficiencies, shortcomings, inferior workmanship pointed out by them shall be communicated by CPWD engineers to the contractor. Upon receipt of instructions from Engineer-in-Charge these are also to be made good by necessary improvement, rectification, replacement upto his complete satisfaction. Special attention shall be paid towards line and level of internal and external plastering, exposed smooth surface of RCC members by providing fresh shuttering plates, rubberized linings to all the shuttering joints, accurate joinery work in wooden doors and windows, thinnest joints in stone/ tiling / cladding work, non-hollowness in floor and dado tiles work, protection of scratches over flooring by impounding layer of Plaster of Paris, water tight pipe linings, absence of hollow vertical joints in brick masonry, proper compaction of filled up earth and up keeping of quality assurance shall be of paramount importance.

Method Statement: The Contractor shall submit within 15 (fifteen) days after the date of award of work, a detailed and complete method statement for the execution, testing and Quality Assurance. All the materials to be used in the work to give the finished work complete in all respects, shall comply with the requirements of the specifications and shall pass all the tests required as per specifications as applicable or such specifications / standards as directed by the Engineer-in-Charge. However, keeping the Quality Assurance in mind, the Contractor shall submit, on request from the Engineer-in-Charge, his own Quality Assurance procedures for basic materials and such items, to be followed during the execution of the work, for approval of the Engineer-in-Charge.

Checklist

- (i) As and when any important item is taken up for execution, the Contractor shall submit the specifications and invariably make a checklist. This checklist should be got approved from the Executive Engineer, and should be shown to the inspecting officers. The important items inter-alia include foundation work, including reinforcement and shuttering, brickwork, cast-in-situ mosaic flooring, doors & windows, plumbing, including water supply pipe lines, roof treatment, earth filling etc. which are a few illustrative items for checklist purpose.
- (ii) Sample checklists for items of concrete for raft, columns/beams/slabs, water supply lines, brick work and plastering are given in CPWD Specification 2019 with correction slip upto last date of submission of bid. In addition to this all other important items such as flooring, door windows, sanitary, painting etc. shall be made on these guidelines in consultation with Engineer-in-Charge.

The tests, as necessary, shall be conducted in the laboratory approved by the Engineer-in-Charge. The samples shall be taken for carrying out all or any of the tests stipulated in the particular specifications and as directed by the Engineer-in-Charge or his authorized representative.

All the registers of tests carried out at Construction Site or in outside laboratories and all material at site (MAS) registers including cement register shall be maintained by the contractor which shall be issued to the contractor by Engineer-in-Charge. All the entries in the relevant registers will be made by the designated Engineering Staff of the contractor and same should be regularly reviewed by JE/AE/AEE/EE/ of CPWD. Contractor shall be responsible for safe custody of all the registers.

The Contractor shall at his own risk and cost make all arrangements and shall provide free of cost all such facilities including material and labour, the Engineer-in-Charge may require for collecting, preparing, forwarding the required number of samples for testing as per the frequency of test stipulated

in the contract specifications or as considered necessary by the Engineer-in-Charge, at such time and to such places, as directed by the Engineer-in-Charge. Nothing extra shall be payable for the above. The Contractor or his authorized representative shall associate in collection, preparation, forwarding and testing of such samples. In case he or his authorized representative is not present or does not associate him, the result of such tests and consequences thereon shall be binding on the Contractor. The Contractor or his authorized representative shall remain in contact with the Engineer-in-Charge or his authorized representative associated for all such operations. No claim of payment or claim of any other kind, whatsoever, shall be entertained on this account.

TESTING CHARGES:

Samples of all materials required for testing is included in the cost of work. Similarly expenditure for testing in house or through **outside laboratory approved by the Engineer-in-Charge shall be borne by the contractor** Frequency of testing of material will be as per frequency laid down in CPWD Specifications or otherwise specified. No reimbursement of testing charges shall be done.

If any load testing or special testing is to be done for any sample whose strength is doubtful, the cost of the same shall also be **borne by the contractor**. All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested as per the design conditions before covering.

Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should confirm to bylaws and municipal body / corporation where CPWD Specifications are not available. The contractor should engage licensed plumbers for the work and get the materials (fixtures/fittings) tested by the Municipal Body/Corporation authorities wherever required at his own cost. The contractor shall give performance test of the entire installation(s) as per the standing specifications before the work is finally accepted and nothing extra whatsoever shall be payable to the contractor for the test.

The contractor shall have to execute guarantee bonds in respect of specified items mentioned in tender document.

The Contractor shall arrange electricity at his own cost for testing of the various electrical installations as directed by Engineer-in-Charge and for the consumption by the contractor for executing the work. Also, all the water required for testing various electrical installations, fire pumps, wet riser / fire fighting equipments, fire sprinklers etc. and also testing water supply, sanitary and drainage lines, water proofing of underground sump, overhead tanks, water proofing treatment etc. shall be arranged by the contractor at his own cost. Nothing extra shall be payable on this account.

A third party quality assurance agency from Govt. departments/institutes shall be engaged for this work. If third party is not engaged, Quality Assurance is to be done by CPWD team of ADG-Region Hyderabad office. Contractor shall co-operate with the third party / Quality Assurance team of CPWD for quality assurance of the construction work. The third party / Quality Assurance team of CPWD will collect the samples of construction materials/reinforcement for necessary tests. The samples would be collected jointly in the presence of the representatives of contractor and Engineer-in-Charge. The cost of sample materials/reinforcement, packaging, transportation charges shall be borne by contractor. All necessary test records shall be produced and maintained by the quality engineer of contractor.

Rate quoted by contractor is inclusive of GST and Labour Cess, nothing is payable on this account.

SPECIAL CONDITIONS FOR CEMENT AND STEEL
CONDITIONS FOR CEMENT

- a) Cement required for the work shall be procured by the contractor.
- b) The contractor shall procure PPC conforming to IS: 1489(Part-I) / OPC conforming to IS:8112 as per **List of Preferred Makes for Civil Works.**
- c) The supply of cement shall be taken in 50 kg bags / or in bulk for storage in cement silos for batching plant bearing manufacturer's name and ISI marking. Samples of cement arranged by the contractor shall be taken by the Engineer-in-Charge and got tested in accordance with provisions of relevant BIS codes. In case the test results indicate that the cement arranged by the contractor does not conform to the relevant BIS codes, the same shall stand rejected, and it shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-in-Charge to do so. Supply of cement shall be taken in 50 kg bags bearing manufacturer's name, or his registered trade marks if any and grade and type of cement as well as ISI marking. The packing of the cement bags shall be as per CPWD specifications 2019 with correction slips upto last date of submission of bid.
- d) The cement shall be brought at site in bulk supply of approximately 50 tonnes or more or as decided by the Engineer-in-Charge.
- e) The cement godowns of the capacity to store a minimum of 2000 bags of cement shall be constructed by the contractor at site for which no extra payment shall be made.
- f) Double lock provision shall be made to the door of the cement godown. The keys of one lock shall remain with the Engineer-in-Charge or his authorized representative and the keys of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement godown. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-Charge at anytime.
- g) The cement shall be got tested by the Engineer-in-Charge and shall be used on the work only after satisfactory test results have been received. The contractor shall supply free of cost the cement required for testing including its transportation cost to testing laboratories. The cost of tests shall be borne by the contractor.
- h) The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in clause 38 of the General Condition of Contract 2023 for Construction work and shall be governed by conditions laid there in.
- i) The cement brought to the site and the cement remaining unused after completion of the work shall not be removed from site without the written permission of the Engineer-in-Charge.
- j) The damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in writing from the Engineer-in-Charge. If he does not do so within 3 days of receipt of such notice, the Engineer-in-Charge shall get it removed at the cost of the contractor.

CONDITIONS FOR STEEL REINFORCEMENT

- i. The contractor shall procure **ISI marked TMT Bars** of appropriate grade from the steel manufacturer such as **List of Preferred Makes for Civil Works**. Or their authorized dealer having valid BIS License for IS 1786-2008 (latest AMENDMENT). If TMT bars of any dia of above mentioned make is not available in market at any time then the contractor on producing non availability certificate from the manufacturers may procure TMT bars of that dia from Steel manufacture as decided by the Engineer-in-Charge.
- ii. As per CSQ CPWD OM issued by file no. CSQ/SE(TAS)/Steel/2024/262(H) dt:14.08.2024 Steel bars classified as “Bar Set-I” Shall be used in the works. As per Annexure-I(C) of the said OM.
Testing requirement for individual reinforcement bar diameter of Particular Grade of steel:

Tests required for Fe 415D, Fe500D, Fe550D grade of steel and Low alloy steel reinforcement bars:

A. FOR BAR SET-I

1. Tests as per IS 1786 (latest version) and specified therein.

1.1 Chemical Properties

Ladle analysis of steel for above grades for maximum percentage of constituents.

- i. Carbon (C), (ii) Sulphur (S) and (iii) Phosphorous (P) and (iv) Nitrogen and Carbon Equivalent.

1.2 Physical Properties.

- i. 0.2 percent proof stress / yield stress, minimum, N/mm².
- ii. Ratio of Tensile Strength (Ts) to Actual Yield Strength (or 0.2 % of yield stress (Ys)) of the test piece N/mm².
- iii. Elongation, percent, Minimum, on gauge length $5.65\sqrt{A}$, where A is the cross-sectional area of the test piece.
- iv. Total elongation at maximum force, percentage, minimum on gauge length $5.65\sqrt{A}$, where A is the cross-sectional area of the test piece.
- v. Bend test and re-bend test.
- vi. The mean area of ribs (in mm²) per unit length (in mm) above the core of the bar, projected on a plane normal to the axis of the bar.
- vii. Pull-out testing in accordance with IS 2770 (Part 1)

2. Additional requirement

2.1 Permissible limit for Manganese and Copper as follows:

Constituent	Permissible Limit (% of cast metal quantity)		
	Fe 415 D	Fe 500 D	Fe 550 D
Manganese (Mn)			
Maximum	1.60	1.60	1.60
Copper (Cu)			
Maximum	0.80	0.80	0.80
Minimum	0.20	0.20	0.20
Notes: The above composition shall be obtained as per latest version of IS 228			

Correction – Nil,
 Insertion – Nil,
 Deletion – Nil

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|--|
| 1. Manganese using Periodate Spectrophotometric Method (Part'12), and
2. Copper using Thiosulphate Iodide Method (Part'15) or Spectrophotometric (Diethyl Dithiocarbonate) Method (Part 21) |
|--|

2.2 Tempered Martensite Ring Test as per Annexure-I (d) of OM no. CSQ/SE(TAS)/Steel/2024/262(H) dt:14.08.2024.

2.3 The process of manufacturing steel shall comply with the provisions of ISO9001: 2015 and ISO14001: 2004.

B. FOR BAR SET-II.

The test requirements given in para 1.1 and 1.2 above.

- iii. Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time or written orders from the Engineer-in-Charge to do so.
- iv. The steel reinforcement bars shall be brought to the site in bulk supply of 10 tonnes or more, or as decided by the Engineer-in-Charge.
- v. The steel reinforcement bars shall be stored by the contractor at site of work in such awayas 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.
- vi. For checking nominal mass, tensile strength, bend test & re-bend test etc. specimen of sufficient length shall be cut from each size of the bar at random at frequency not less than the specified below:

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

- vii. The contractor shall supply free of charge the required steel bars for testing including its transportation to testing laboratories. **The cost of tests shall be borne by the contractor.**
- viii. 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 38 of the contract and shall be governed by conditions laid therein. In case the consumption is less then theoretical consumption including permissible variations leading to under designing of the structure, the work shall be summarily rejected. In case of excess consumption no adjustment need to be made.
- ix. Steel brought to site and remaining unused shall not be removed from site without the written permission of Engineer- in-Charge.
- x. The standard sectional weights referred to shall be as given in Table 5.4 in para 5.3.4 in CPWD Specification 2019 Vol.-I and will be considered for conversion of length of various sizes of TMT Bars in to standard weight. Record of actual sectional weights shall also be kept dia. And lot wise. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel

Correction – Nil,
Insertion – Nil,
Deletion – Nil

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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 terms as Derived Actual Weight.

- a) If the derived weight is less than the standard weight, then the Derived Actual Weight shall be accepted if it is within the tolerances specified in IS:1786-2008, otherwise whole lot will be rejected.
- b) If the derived actual weight is found more than the standard weight, then nothing shall be paid extra for the difference in derived actual weight and standard weight.
- c) The contractor shall submit original vouchers from the manufacturer for the total quantity of steel supplied under each consignment to be used 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.

CEMENT/PAINT REGISTER

NAME OF WORK:
AGREEMENT NO.

DIVISION
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 work for 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	J.E.'s Initial		Periodical Check	
						By AE	By EE
12	13	14	15	16		17	18

Correction – Nil,
Insertion – Nil,
Deletion – Nil

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CONDITIONS SPECIFIC TO GREEN BUILDING PRACTICE

The contractor shall get rating of “Green” Qualifying point 55 -70 marks as per green rating manual 2021.

2.3 Ratings

The building shall be rated based on the total marks obtained in the criteria given in clause 2.4. Minimum 50% marks are required in each criterion to be eligible for green rating. The rating once awarded shall be valid for a period of five years. The buildings shall be classified as Super Green, Green Plus, and Green, depending on the total marks scored, as given in Table 1.

Table 1: Ratings

Certification	Qualifying marks
Super Green	86-100
Green Plus	71-85
Green	55-70

2.4 Criteria and marking system

The criteria and maximum marks for rating of buildings are given in Table 2.

Table 2: Criteria and Marking System for Rating of Buildings

Criterion	Criterion subhead	Criterion name	Maximum marks
1. Architectural Planning and Design Total Marks: 16	1.1	Solar passive architectural design strategy	4
	1.2	Accessibility in built environment	2
	1.3	Availability of integrated architectural drawings	5
	1.4	Layout/site planning	3
	1.5	New and innovative design approach	2

2. Quality and Safety Total Marks: 12	2.1	Availability of quality assurance plan	4
	2.2	Availability of safety plan	4
	2.3	Availability of structural drawings	4
3. Sustainable Building Materials Total Marks: 16	3.1	Use of fly ash bricks/AAC blocks/recycled C&D waste products	2
	3.2	Use of alternatives to natural timber	2
	3.3	Use of fly ash in cement or cement concrete	2
	3.4	Use of local materials	2
	3.5	Use of recycled materials	3
	3.6	Adherence to Make in India Policy	2
	3.7	Use of non-toxic and non-hazardous materials	3
4. Green Construction Measures Total Marks: 14	4.1	Use of air pollution and noise control measures	2
	4.2	Use of trenches for integrated services	2
	4.3	Use of new technologies for green construction	3
	4.4	Use of equipment to avoid generation of C&D waste	3
	4.5	Use of new technologies for speedy construction	4
5. Water Conservation Measures Total Marks: 7	5.1	Recycling of water	3
	5.2	Rain water harvesting	2

	5.3	Use of water efficient fixtures	2
6. Energy efficiency Measures Total Marks: 22	6.1	Energy efficient building envelope	4
	6.2	Energy efficient lighting, fans, ACs, and controls	4
	6.3	Energy efficient pumps, lifts & other equipment	2
	6.4	Integration of controls with IBMS and sensors for light fixtures	3
	6.5	Generation of renewable energy	8
	6.6	Innovation in energy efficiency	1
7. Waste Management Total Marks: 4	7.1	Waste management policy	1
	7.2	Sewage treatment plant or Organic waste converter	2
	7.3	Waste segregation facilities	1
8. Welfare Measures Total Marks: 4	8.1	Toilet and health check-up facilities during construction	2
	8.2	Welfare measures for workers during construction	2
9. Landscape and horticulture Total Marks: 5	9.1	Trees protection and transplantation	3
	9.2	Irrigation features	1
	9.3	Reuse of excavated soil	1

In case any specific criterion is not applicable, the same will not be considered and the marks will be proportioned by excluding the marks of such criteria/criterion from 100 marks. For example, if after excluding a particular criterion, marks obtained are 65 out of maximum marks 95, the same will be proportioned as $65 \times 100 / 95 = 68.42$ rounded off to next full number that is 69.

PREFERRED MAKE OF MATERIALS (FOR CIVIL WORKS)**NOTE: -**

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

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

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

Sl. No.	Material Description	Material	
		Brand	Makes *
	RMC		
1	AAC Blocks	A B Dinesh	A B Dinesh
		Fastbuilt	Fastbuilt
		ABC Ashpro	ABC Ashpro
2	Acoustic Insulation	Anutone	Anutone Acoustics Ltd.
		HimalyanAccoustics	HimalyanAccoustics
		Lloyd Insulation	Lloyd Insulation (India) Ltd.
3	Actativ polypropylene (APP) Modified water proof membrane	Ardex endure	Ardex endure
		Bitumat Co Ltd	Bitumat Co Ltd
		Ferrous crete	Ferrous Crete (India) Pvt Ltd
		Hydrotech Ltd	Hydrotech Ltd
		Pidilite	Pidilite industries
		Asian	Asian Paint Limited
		Berger	Berger paints India ltd
4	Acrylic emulsion	Asian	Asian Paint Limited
		Berger (BISM)	Berger Paints
		Nerolac (Beauty Gold)	Nerolac
5	Acrylic smooth exterior paint	Berger	Berger
		Asian	Asian Paint Limited
		Nerolac	Nerolac
6	Acrylic exterior Texture	Asian	Asian Paint Limited
		Berger	Berger paints India ltd
7	Adhesive	CICO	CICO Industries
		Finical	Pidilite Industries
		Proofex of Adhesive	FOSROC India
		Berger	Berger paints India ltd
		NEWCRETE	NEWCRETE Building Solutions Pvt. Ltd

Correction – Nil,

Insertion – Nil,

Deletion – Nil

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		Asian	Asian Paint Limited
		Sika	Sika India Pvt. Ltd
8	Adhesive for AAC Block/Tiles	NEWCRETE	NEWCRETE Building Solutions Pvt. Ltd
		Ramco Hard Worker	The Ramco Cements Limited
		MYK	MYK Arment
9	Air release valve	Kartar	Kartar valves private Ltd.
		Kirloskar	Kirloskar brothers Ltd.,
		RBM	AFS Ltd
10	Aluminium doors/windows sections	Hindalco	Hindalco Industries Ltd..
		INDAL	Indian Aluminium Ltd.,
		Jindal	Jindal Aluminium Ltd ,
	Aluminum Door & Window Manufacturers	Schuco /Reynaers/ Alvmil / Reklad or equivalent approved by Chief Engineer.	
11	Aluminium system/ Anodised Aluninium fittings for doors/windows	Everite	Everite Agencies
		Kawneer	Kawnear India
		Schueco	Schueco India Pvt. Ltd.,
		Pulse	Pulse
		Sysmac	Sysmac
		Aluaplha	Aluaplha
12	Aluminium composite panels/Sheets/HPL	Alstone	Alstone
		Eurobond	Euro Panel Products Limited
		Virgo	Virgo Aluminium Limited
		Viva	Viva Composite Panel Pvt. Ltd.
13	Anchor/ SS Stone Cladding Clamps/ Dash fasteners	Anchor	Anchor Ltd.
		BOSCH	BOSCH Ltd.
		Fischer	Fischer India
		Hilti	Hilti India Pvt. Ltd.
		Trixel	Axel India Pvt. Ltd.
		Wurth	Wuerth India Pvt. Ltd.
14	Butt Hinges openable window shutters	Alu Alpha	Alu Alpha India
		Dorma	Dorma India Pvt. Ltd.
		Eare Bihari	Eare Bihari India Pvt. Ltd.
		Hafela	Hafele India Pvt. Ltd.
		Helix	Helix India
15	Bamboo Wood Flooring and wall paneling.	AMITEX	AMITEX Enterprises, Delhi.
		Eco green Flooring	Jupiter Traders Bangalore.
		Epitome Bamboo wood Products	Mutha Industries Pvt.,Ltd., Mumbai.
		Floor India	Flooring India Company, Panipat, Haryana.
		FLOSTO Tanks	Devi Polymer Pvt.Ltd. Chennai.
		VIVANTA	VIVANTA Enterprises, Mumbai.
16	Cement	ACC	ACC Cements Ltd
		Jindal Panther Cement	Jindal Panther Cement(JSPL)

Correction – Nil,

Insertion – Nil,

Deletion – Nil

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	OPC / PPC/PSC/SRPC	Ramco	The Ramco Cements Limited
17	Cement Concrete Parking Tiles/ Paver Blocks/Chequered	Parmeshwari	M/s Parmeshwari Enterprises
		BHUASUNI PRECAST	BHUASUNI PRECAST PVT LTD.
		Lakshmi Tiles	Lakshmi Tiles
18	Cement based wall putty	Berger	Berger paints India ltd
		JK Wall Putty	JK Wall Putty
		Asian	Asian Paint Limited
		NEWCRETE	NEWCRETE Building Solutions Pvt. Ltd
		Ramco	Ramco Hard Worker
19	Cement Board	Bison	Bison Group
		Everest	Everest Techno polis
20	Cement Primer	Asian	Asian Paint Limited
		Berger	Berger paints India Ltd.
		JK Primaxx	JK Cement Ltd
21	Centrifugal Hubless Cast Iron Pipe & Fittings	Bengal Iron Corporation	M/s. Bengal Iron Corporation ,Kolkata
		NECO	Jayaswal NECO Ltd.
		SKF	SinghaliornFoundaryPvt.,Ltd.
22	Centrifugally (Spun) cast Iran	Electrosteel	Electrosteel castings Ltd.
		Jindal	Jindal saw Ltd.
		Kesoram	Kesoram Industries Ltd.
23	Centrifugally Caste (Spun) Iron Soil Pipe	Bengal Iron Corporation	Bengal Iron Corporation
		Neco	Jayaswal Neco Ltd
		SKF	SKF industries
24	Chemical water proofing system	Dr. Fixit	Pidilite industries
		Ferrous Crete	Ferrous Crete (India) Pvt Ltd.
		Fosroc	Fosroc India
		Sika	Sika India
		Berger	Berger paints India ltd
		Asian	Asian Paint Limited
		MYK	MYK Arment
25	Chloropyriphos	DURSBANTCT	DE-NOCIL Ltd.
		HILBAN	Hindustan Insecticides Ltd.
		NOBAN	Chemtts Wets & Flows Pvt. Ltd
		Piramid	Amvac Agri RasayanPvt. Ltd.
		Premise Agenda	Bayer Ltd.
		Sarups Pest Control	Sarups Pest Control Ltd.
26	CI double flange sluice valve	Kirloskar	Kirtoskar brothers Ltd. ,
		Leader	Leader
		Zoloto	Zoloto Industries
27	CI double flangad non return valve	Fluidtech	Fluidtech
		Kirloskar	Kirloskar Brothers Ltd.

Correction – Nil,

Insertion – Nil,

Deletion – Nil

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		Leader	Leader
		Zoloto	Zoloto Industries
28	CI Manhole cover	BIC	M/s. Bengal Iron Corporation ,Kolkata
		Neco	Jayaswal Neco Ltd..
		SKF	SKF Industries
29	Clamp, Rebar, Chemical fastener	Fischer	Fischer India
		Hilti	Hilti India Pvt.Ltd.
		Wurth	Wuerth
30	C.P.Brass Fittings	CERA	M/s Cera Sanitaryware Ltd.
		Hindware	HSIL Ltd.
		Kingston	Kingston Brass India Pvt., Ltd.
		Prayag	Prayag Polymers Private Limited
		Asian (ESSESS Bathsense& Royal)	Asian Paint Limited
		VARMORA	VARMORA Granito Ltd
		Somany	Somany Ceramics Ltd.
31	C.P.Brass Fittings Premium Category	Jaquar	Jaquar Group
		KOHLER	KOHLER
		Asian (Canvas)	Asian Paint Limited
		ROCA	ROCA
32	CPVC pipe and fittings	AKG	M/s. AKG Extrusions Pvt. Ltd.
		Astral	Astral Polytechnik Ltd..
		Prayag	Prayag Polymers Private Limited
		ORI PLAST	ORI PLAST LIMITED
		Sudhakar	Sudhakar PVC Products Private Limited
		JAIN	JAIN IRRIGATION SYSTEMS LIMITED
		Flowkem	Flowkem Poly Plast Pvt. Ltd
33	Damp Proof material	BASF	BASF India Ltd.
		Dr. Fixit	Pidilite Industries
		PIDILITE	Pidilite Industries
		Berger	Berger paints India ltd
		SC Damp Proof	Asian Paint Limited
		MYK	MYK Arment
34	DI Pipe Fittings	Electro steel	Electro steel
		Jindal	Jindal
		Tata Ductura	Tata Ductura
		Kejriwal	Kejriwal
35	DI Pipes	Electrosteel	Electrosteel
		Jindal	Jindal
		Keshoram	Keshoram
		Tata Ductura	Tata Ductura
36	EPDM Gaskets	Anand	Anand NVI-I products (P) Ltd.,
		Hanu	Hanu Industries
		OSAKA	OSAKA
37	EPDM water proofing Membrane	Ferrous Crete	Ferrous Crete (India) Pvt Ltd
		Pidilite	Pidilite Industries

Correction – Nil,

Insertion – Nil,

Deletion – Nil

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		Berger	Berger paints India ltd
		Asian	Asian Paint Limited
		MYK	MYK Arment
38	Epoxy	Ferrous Crete	Ferrous Crete (India) Pvt Ltd.
		Fosroc	Fosroc India
		Laticrete	MYK Laticrete India
		Asian	Asian Paint Limited
		NEWCRETE	NEWCRETE Building Solutions Pvt. Ltd
		Ramco Hard Worker	The Ramco Cements Limited
39	Epoxy Paint	Asian	Asian Paint Limited
		Berger	Berger paints India Ltd.
40	Epoxy tile joint cements	Ferrous Crete	Ferrous Grete (India) Pvt. Ltd
		Fosroc	Fosrocindd
		Berger	Berger paints India ltd
		NEWCRETE	NEWCRETE Building Solutions Pvt. Ltd
		Asian	Asian Paint Limited
		Laticrete	MYK Laticrete India
		Ramco Hard Worker	The Ramco Cements Limited
41	False Ceiling	Diamond Ceilings	Diamond International Inex Pvt Ltd
		Armstrong	Armstrong Wond Indusvies
		Hi-STEEL	M/s. P R Produts
42	False ceilings Members (Perimeter, Ceiling section, intermediates, angles etc.,)	Aerolite	Andhra Polymers Pvt. Ltd./Aerolite Industries Pvt. Ltd
		Armstrong	Amstrong World Industries
		Hi-STEEL	M/s. P R Produts
43	Fire Rated hardware	Dorma	Dorma India Pvt. Ltd.
		Geze	Geze GMBH
		ASES	ASES SECURITY PVT LTD
44	Fire retardant paint	Akzonobel	DulexAkzonobel Paints
		Asian paints	Asian Paints
		Jotun	Jotun paints
		STPL Ltd.	STPL Ltd.
		Berger	Berger
45	Float Glass	Saint Gobain	Saint Gobain India Pvt. Ltd.
		Modiguard	Gujarat Guardian Ltd.
46	Float Valve (Ball valve)	Arco	Arco valve Pvt ltd
		Leader	Leader valve Ltd
		Zoloto	Zoloto industries
		Somany	Somany
		KSB	KSB
47	Floor spring (For non DSR Items)	Dorma	Donna India Pvt Ltd.
		OZONE	Ozone Hardware.
48	Flushing Cistern	CERA	CERA Sanitary ware Ltd.,

Correction – Nil,

Insertion – Nil,

Deletion – Nil

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		Hindware	HSIL Ltd,
		Jaquar	Jaquar Group
		Kohler	Kohler
		Somany	Somany
		Basthsense	Asian Paint Limited
		Prayag	Prayag Polymers (P) Ltd
49	Fly ash cement bricks/K.B bricks	Concerned CE will approve based on local availability.	
50	FRP Door Frames shutter	Durasleek	M/s Fibrespace Composites Pvt. Ltd.
51	Galvolume sheet for roofing, cladding, sandwich panel	Bhushan	Bhushan steel
		Essar	Essar Group
		JSW	JSW
		Tata Blue Scope	Tata Blue Scope
55	G I Pipe fittings	TATA	TATA Steel Ltd.,
		Jindal	Jindal Pipes Ltd.,
53	G.I. Pipes	Jindal	Jindal Pipes Ltd.,
		TATA	TATA Steel Ltd.,
54	Glass door hardware	Dorma	Dorma India Pvt. Ltd.
		Godrej	Godrej
		Ozone	Ozone Hardware
55	Glass mosaic tiles	Bisazza	Bisazza Italy
		Mridul	Mridut tiles
		Palladio	Palladio Mosaics
		OPIO	OPIO
56	Glazed Ceramic tiles (Also wall tiles)	Jonson	Prism Jonson Ltd.
		Kajaria	Kajaria Ceramic Ltd.
		RAK	RAK Ceramic India Pvt. Ltd.
		Oasis	M/s Oasis Vitrified Pvt.Ltd.
		VARMORA	VARMORA Granito Ltd
		NITCO	NITCOLimited.
57	GRC Jali & Tile	Concerned CE will approve based on local availability	
58	Chamical Grout	Berger	Berger paints India ltd
		CICO	CICO Industries
		SIKA	Sika India Pvt.Ltd.
		Asian	Asian Paint Limited
		NEWCRETE	NEWCRETE Building Solutions Pvt. Ltd
		Ramco Hard Worker	The Ramco Cements Limited
59	Gun metal Valves	Zoloto	Zolota Industries
		Leader	Leader
60	Gypsum Board	Armstrong	Armstrong world Industries
		Lafarge	Lafarge Gypsum India Pvt. Ltd.

61	Gypsum plaster	Ferrous crete (Ferro-500, Gypsum) Plaster)	Ferrous crete manufacturers
		Gyproc Saint Gobain (Elite 90)	The Saint-Gobain group
62	High Desity (HDF) Prelaminated board	Armstrong	Armstrong world industries Ltd.
		Green ply	Green Ply Industries Ltd.
		Centuray	Centuray
		Pergo	Red Floor India
63	Hydraulic door closers/ Floor springs	Dorma	Dorma India Pvt. Ltd.
		Godrej	Godrej locking solutioin& systems
		Hardwyn	Hardwyn hardware
64	Interlocking Concrete Paver Blocks/Precast Items	Parmeshwari	M/s Parmeshwari Enterprises
		Bhuasuni Precast Pvt Ltd	Bhuasuni Precast Pvt Ltd
		Lakshmi Tiles	Lakshmi Tiles
		Any alternative tiles as approved by CE based on local availability.	
65	Laminate	Archid ply	Archid ply industries ltd.
		Green Ply	Green Ply Industries Ltd.
		Merino	Merino laminates
		Virgo	Virgo Laminate Limited.
		Royal touche	Royal touche laminates
66	Locks & Latches	Godrej	Godrej locking solution & systems
		Dorma	Dorma
67	Masking Tapes	3M	3M
		Roop	Roop Polymer Ltd.
		Sun	Sun
		Wonder polymer	Wonder Tape Industries
68	Melamine Polish	Asian	Asian Paint Limited
		Melamine Gold Wudfin	Pidilite industries
		Polycure	Polycure Malaysia
		Dulux	
69	Mechanical coupler for reinforcement	Dextra	Dextra India Pvt Ltd.
		Sanfield	Sanfield India Ltd.
		Tata	Tata
		G-Tech	G-Tech
70	Membarane water proofing system	MYK	MYK Arments
		STP Ltd	Shalimar tar products
		Berger	Berger paints India ltd
		Asian (Smart Care)	Asian Paint Limited
		Fosroc	Fosroc
71	Non Metallic/Metalic / Glass/Steel Fire Door	4C	4C Fire Protection Pvt. Ltd
		Bhawani Fire	Bhawani Fire Protection Pvt. Ltd.
		ASES	ASES Security Pvt. Ltd.
72	Metal Deck Sheet	Essar	Essar Steel Ltd.
		JSW	JSW Structural Metal Decking Ltd
		SAIL	SAIL

Correction – Nil,

Insertion – Nil,

Deletion – Nil

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		TATA	TATA steel
		Lloyds	Lloyds
73	Mild Steel Butt Hinges/ Piano hinges	Hafcle	Hafcle
		Geze	Geze
		Dorma	Dorma
74	Mirror	AIS Mirror	Asahi India Glass Ltd.
		Modi Guard	Gujarat Guardian Ltd
75	Modular kitchen/ wardrobes/Hardware and Accessories	Evoke	Evoke
		Godrej	Godrej & Boyce co
		Spacewood	Spacewood
76	M.S. Pipe, Tubes	JINDAL	JSW
		SAIL	SAIL
		TISCO	TATA STEEL
77	Multi walled polycarbonate roofing sheets	Danapalon	Danapal Light architecture
		Lexan GE	GE lexan
		Gallina	Gallina
78	Non Asbestos Sheets	Everest	Everest Industries
		HIL	HIL Ltd.
		RAMCO	RAMCO Industries Ltd.
79	Non Metallic floor surface hardness	CICo	CICO Technologies ltd
		Fosroc	Fosroc India
		Pidilite	Pidilite Industries ltd
		Sika	Sika India
80	Oil Bound Distemper	Berger (BISOM)	Berger Paints
		Dulux	Dulux
		Asian	Asian Paint Limited
		Tractor Aqalock	Asian Paint
81	Overdeck insulation with extruded polystyrene board (XPS board)	Dowcorning	Dowcorning
		Owen scoring	Owen scoring
		Supreme Petrochemical Ltd.	Supreme Petrochemical Ltd.
82	Pink primer	Berger	Berger Paints
		Asian	Asian Paint Limited
		Wood primer	Asian paint
83	Plasticiser & Super Plasticiser	Berger	Berger paints India ltd
		Asian	Asian Paint Limited
		CICO	CICO Industries
84	Poly carbonate Sheet	Alcox	Hindeggan Alcox Ltd.
		Danapalan	Danapal Light architecture
		GE Lexon	GE Silicones
		Gallina	Gallina
85		Dr. Fixit	Pidilite industries

Correction – Nil,

Insertion – Nil,

Deletion – Nil

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	Poly sulphide sealant	Pidilite	Pidilite Industries
		STP Ltd	Shalimar tar products
		Sika	Sika
		Berger	Berger paints India ltd
		Asian (Smart Care)	Asian Paint Limited
		Dowcorning	Dowcorning
86	Polyurea Ultra	BASF	BASF
		Ferrous	Ferrous Crete (India) Pvt Ltd
		Pidilite	Pidilite Industries
		Berger	Berger paints India ltd
		Asian (Smart Care)	Asian Paint Limited
		MYK	MYK
87	Powder coating	Akzonoble	Akzonoble Coating Ltd.
		Berger	Berger Paints India Ltd.
		Asian	Asian Paint Limited
		Nerolac	Nerolac
88	Prelaminated particle board Exterior Grade	Archid ply	Archid Ply Industries Ltd.
		Green Ply	Green Ply Industries Ltd.
		Merino	Marino laminates
89	Premium Acrylic smooth exterior Paint with silicon additives	Berger	Berger
		Asian	Asian Paint Limited
90	PTMT/PVC pipes sanitary fittings, bibcocks, pillar cock Angle valve,	Prayag	Prayag Polymers (P) Ltd
		ORI PLAST	ORI PLAST LTD
		Asian (ESSESS Bathscenc Royal)	Asian Paint Limited
91	PT Strands	DP Wires	DP Wires Ltd.
		TATA wiron	TATA STEEL LTD.
		Usha Martin	Usha Martin Ltd.
92	PVC Doors and Frames	RajshriPlastiwood	Rajshri Productions Pvt. Ltd.
		Alstone	Alstone Ltd.
93	PVC / HDPE water storage tanks	MANGALAM	M/s. MOHIT UDYOG
		Prayag	Prayag Polymers Private Limited
		Sudhakar	Sudhakar PVC Products Private Limited
		ORI PLAST	ORI PLAST LIMITED
94	PVC flooring	Armstrong	Armstrong world Industries
		Ger flor	Ger flor flooring
		LG Hausys	LG Hausys
		Tarkett	Tarkett
95		Fosroc	Fosroc India

Correction – Nil,

Insertion – Nil,

Deletion – Nil

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	PU Coating (UV resistant Liquid Applied coating)	Pidilite	Pidilite industries
		SIKA	SIKA India
		Berger	Berger paints India ltd
		Asian	Asian Paint Limited
		MYK	MYK
96	PU Enamel Metallic Paints on MS Structure & Epoxy paints (Premium Quality)	Akzonobel	Akzonobel
		Asian	Asian Paint Limited
		Berger	Berger paints India Ltd.
		MRF	MRF paints
97	RCC Pipes	Parmeshwari	M/s Parmeshwari Enterprises
98	Ready mix cement plaster	Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		Read Plast	Ultratech cements Ltd
		NEWCRETE	NEWCRETE Building Solutions Pvt. Ltd
		Asian (Smart Care)	Asian Paint Limited
		Ramco Hard Worker	The Ramco Cements Limited
99	Red Oxide Zinc Chromate primer	Berger	Berger Paints
		Dulex	ICI dulex
		Asian	Asian Paint Limited
100	Reflective glass	Asahi	Asahi India Glass ltd.
		Glaverbel	Glaverbel India
		Pilkinton	Pilkinton India
101	RMC plants (Ready Mix Concrete)	DURAMIX	Duramix Concrete India Pvt. Ltd.
		AB Dinesh Concrete	AB Dinesh Concrete India Pvt Ltd
		AKP HYMX	AKP CONFRA PVT. LTD
		MIX MASTERS	Mix Masters RMC (India) Pvt. Ltd
		RDC Concrete	RDC Concrete (India) Limited.
102	Rockwool/Glass wool insulation	Supreme	Supreme
		Twigafiber	Twigafiber glass ltd
		Roxul Rockwool	
103	Sandwich PUF panelled roofing sheets	MYK	MYK
		Pidilite	Pidilite Industries ltd
		Smart care	Asian paints
		Supreme	Supreme ltd
104	Sensor based Auto flush systems	AOS System	AOS System
		Somany	Somany
		TOTO	TOTO ltd.
105		KK	KK Manhole and gratings Co Pvt Ltd.,

Correction – Nil,

Insertion – Nil,

Deletion – Nil

AE(P)

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	SFRC Cover and grating	Parmeshwari	M/s Parmeshwari Enterprises
		Bhuasuni Precast Pvt Ltd	Bhuasuni Precast Pvt Ltd
106	Silicon coating	BASF	BASF India Ltd.
		Dow Corning	Dow corning Indd
		GE	GE Silicones
		Wacker	Wacker silicones
107	Solar studs/ Median markers	3M	3M Science
		Avery Dennison	Avery Donnison India Pvt Ltd.
		Nikkalite	Nippon carbide Industires (USA)
108	Spider patch fittings for structural glazing	Dorma	Dormakaba
		Hafele	Hafele Ltd.
		Kich	Kich india
		Ozone	Ozone Ltd.
		Sevax	Saint Gobain Glass India ltd
109	Spun cast iron fittings	Neco	JayaSwal Neco Ltd
		Tata	Tata
		Electrosteel	Electrosteel
		Kapilansh Centrifugal	Kapilansh Dhatu Udyoo (P)Ltd.
		SKF brand	SinghalironFounoaryPvt. Ltd.
110	Spun cast iron covers & gratings	Kapilansh Centrifugal	Kapilansh Dhatu Udyoo{P)Ltd.
		Neco	Jayaswal Neco Ltd
		SKF brand	SinghalironFounoaryPvt. Ltd.,
111	Stainless Steel	Jindal	JSW
		Salem	SAIL
		SAIL	SAIL
112	Stainless steel Butt hinges	Dorma	Dorma India Pvt. Ltd.
		Prayag	Prayag Polymers (P) Ltd.
		Ozone	Ozone Hardware
113	Stainless steel friction hinges	Hetich	Hetich India
		Haffle	Haffle India Pvt. Ltd.
		Dorma	Dorma
		Geze	Geze
114	Stainless Steel Kitchen sink	Kingston	Kingston/Cobra
		Kingston	Kingston/Cobra
		Asian (Bathsense)	Asian Paint Limited
		Prayag	Prayag polymers Pvt Ltd ,
115	Steel Windows/ Pressed steel frames	Accucel	Accura polytech Pvt ltd.
		Madhu industries	Madhu industries, San Harvic, NCL
		NCL	NCL Industries
		San Harvic	San Harvic
116	Structural Steel	JSW	JSW
		SAIL	SAIL
		TISCO	TATA STEEL
		VIZAG	RINL

Correction – Nil,

Insertion – Nil,

Deletion – Nil

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117	Structural sealant	BASF	BASF India Ltd.
		MYK	MYK
118	Synthetic enamel Paint	Berger	Berger Paints
		Dulux	ICI dulex Ltd
		Premium gloss enamel	Asian paint Ltd
		Nerolac	Nerolac Paints Ltd
		Nippon	Nippon Paint India Ltd.
119	Synthetic Sports Flooring	Armstrong	Armstrong flooring
		Gerflor	RMG Polyvinyl India Ltd.
		LG Wondorfloor	LG Hausys India
120	SWR PVC Pipes & fittings	Astral	Astral poiytechnik Ltd.
		ORI PLAST	ORI PLAST LTD
		Sudhakar	Sudhakar PVC Products Private Limited
		JAIN	JAIN IRRIGATION SYSTEMS LIMITED
		AKG	AKG Extrusions Pvt Ltd
		Flowkem	Flowkem Poly Plast Pvt. Ltd
121	Tempered reflective/ clear glass	Modiguard	Gujarat Guardian Ltd.
		Pilkington	Pilkington India Pvt. Ltd.
123	Thermal Insulation treatment	Asian	Asian Paints Ltd.
		Elastospray	BASF
		Pidilite	Pidilite Industries
		Weather Kool & Seal	Berger Paints India Ltd.
124	TMT Bars	JSW	JSW Steel Ltd.
		SAIL	Steel Authority of India Ltd.
		TATA	TATA STEEL LTD.
		RINL	Rastriya Inspat Nigam Ltd.
		JSPL	Jindal Steel and Power Limited
125	UPVC Pipes and fittings (Rain water pipes)	Prayag	Prayag Polymers Private Limited
		ORI PLAST	ORI PLAST LIMITED
		Sudhakar	Sudhakar PVC Products Private Limited
		JAIN	Jain Irrigation Systems Limited
		AKG	AKG Extrusions Pvt Ltd
		Flowkem	Flowkem Poly Plast Pvt. Ltd
126	UPVC doors, door frames and windows	Rajshri Plastiwood	Rajshri Productions Pvt. Ltd
		SIMTA ASTRIX	M/S. Simta Clear Coats Pvt Ltd.
		MARG	DE Vicino System Solutions
		PSP	PSP Dynamic Limited
		EUMAX	Eureka Windoor Systems Pvt. Ltd.

Correction – Nil,

Insertion – Nil,

Deletion – Nil

AE(P)

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		Duroplast	M/s. Duroplast India Private Limited.
		Sudhakar	Sudhakar PVC Products Private Limited
127	UPVC Hardware	MARG	DE Vicino System Solutions
		PULSE	LGF SYSMAC (India) Pvt.,Ltd.
		PSP	PSP Dynamic Limited
128	Vitreous Commodes/ Washbasin	CERA	CERA Sanitaryware Ltd.,
		Jaquar	Jaquar Group
		Kohler	Kohler world Wide
		Parryware	ROCA Bath Pvt. Ltd.,
		Roca	ROCA Bath room products
		Somany	Somany Ceramics Ltd.
129	Vitrified paving tiles	Durostone	Ever stone International
		Johnson	Johnson India
		Kajaria	Kajaria Ceramics
		PAVIT	PAVIT Ceramics Pvt. Ltd.
130	Vitrified Tiles	Johnson	Prism Johnson Ltd.
		RAK	RAK Ceramic India Pvt. Ltd.
		Oasis	M/s Oasis Vitrified Pvt.Ltd.
		VARMORA	VARMORA Granito Ltd
		NITCO	NITCO Limited
131	Water Proof Plywood, Commercial ply, Fire retardant ply and Block boards / Shuttering ply	Archidply	Archid Ply Industries Ltd.
		Century ply	Century Flush Doors
		SYLVAN PLY	Sylvan Plyboard (India) Limited
132	Water Proof cement paint	Asian exterior wall primer	Asisn paint
		Berger	Bergar Paints
133	Water supply Valves	ARCO	Arco valves Pvt. Ltd ,
		leader	leader valves Ltd ,
		Nanda	Nanda Miller company
		Somany	Somany
		Zoloto	Zoloto Industries
134	Welding rods	Advani	Advani oerlikon Ltd.
		ESAB	ESAB India Pvt. Ltd.
		Modi	Modi
135	Water supply fixtures like bibcock, Shower panels	Johnson	Prism Jhonson Ltd
		Kingston	Kingston brass India
		Parryware	ROCO bath roam products Pvt. Ltd,
		Prayag	Prayag polymers Pvt Ltd ,

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

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		ROCA	ROCA
		Jaquar	Jaquar
		Kohler	Kohler
		CERA	CERA
		Somany	Somany Ceramics Ltd.
136	Water proofing Compound	Dr. Fixit	Pidilite industries
		Ferrous Crete	Ferrous Crete (India) Pvt Ltd.
		Fosroc	Fosroc India
		MYK Schomburg	MYK Schomburg range of products
		Sika	Sika India
		Asian (Smartcare)	Asian Paint Limited
		Berger	Berger paints India ltd
137	Water stops	Ardex Endura	Ardex Endura Ltd.
		BASF	BASF India Ltd.
		MYK	MYK
		Ferrous Crete	Ferrous Crete (India) Pvt Ltd.
		Hydrowell	Sika India
		Hydrotite	Sika India
		Kryton	M/s Kryton Building Co. Pvt, Ltd.
138	Water proofing materials/ GP Grouts	BASF	BASF
		Care	Care
		Ferrous crete	Ferrous Crete (India) Pvt Ltd
		Home shield Super grout	Berger Paints Ltd.
		Pidilite	Pidilite Industries
		NEWCRETE	NEWCRETE Building Solutions Pvt. Ltd
		SIKA	SIKA India
		Berger	Berger paints India ltd
		Asian	Asian Paint Limited
		Kryton	M/s Kryton Building Co. Pvt, Ltd.
		Ramco Hard Worker	The Ramco Cements Limited
139	Weather silicon make and grade	Down corning	Down corning india
		Momentive (GE)	GE silicones
140	White Cement	Birla	Birla Corporation Ltd.
		J.K.	JK Cement Ltd.

141	Wood Polymer composite material for door frames and shutters, Jali, plain/pre laminated boards for wall linings etc.	Alstone	Alstone Industries Pvt. Ltd.
		Green Ply	Green Ply Pvt Ltd
		Rajshri Plastiwood	Rajshri Production Pvt. Ltd.
		Falcon	Falconggreen Solutions Pvt. Ltd.
		Duroplast	M/s. Duroplast India Private Limited.
142	Wooden Flush door shutters	Green Ply	Green Ply Industries Ltd.
		Mayur	Mayur Ply
		Indoprime	Falcon Green & Indoprime
		SYLVAN PLY	Sylvan Plyboard (India) Limited

NOTE: Brands other than mentioned in above approve list (SL No. 1 to 142), can be approved by Chief Engineer based on proposal of Engineer-in-charge.

Part D: Schedule of quantities

Correction – Nil,
 Insertion – Nil,
 Deletion – Nil

AE(P)

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ABSTRACT OF COST - ORIGINAL ESTIMATE						
Name of Work		A/R & M/O of Non-Residential Building of CPWD campus, Nirman Bhawan at Pokhariput, Bhubaneswar, Odisha during the financial year 2026-27. S.H.: Civil day to day Annual Repairs & maintenance works.				
Item No.	DSR 2023 Item No.	Sub-Head and Item of works	Unit	Quantity	Rate	Amount
1	2	EARTH WORK				
1.1	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50m outside the periphery of the area cleared.	Sqm	348.40	17.60	6132.00
2	4	CONCRETE WORK				
2.1	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level:				
2.1.1	4.1.3	1:2:4 (1 cement: 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	2.34	7878.50	18436.00
2.1.2	4.1.10	1:5:10 (1 cement : 5 coarse sand (zone- III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	Cum	3.00	6518.60	19556.00
3	5	REINFORCED CEMENT CONCRETE				
3.1	5.1	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 :				
3.1.1	5.1.2	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)	Cum	4.00	9045.75	36183.00

Correction – Nil,
 Insertion – Nil,
 Deletion – Nil

AE(P)

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3.2	5.2	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:				
3.2.1	5.2.2	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)	Cum	0.46	10852.95	4992.00
3.3	5.9	Centring and shuttering including strutting, propping etc. and removal of form for:				
3.3.1	5.9.1	Foundations, footings, bases of columns etc. for mass concrete.	Sqm	3.60	392.15	1412.00
3.3.2	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	Sqm	3.00	927.25	2782.00
3.4	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
3.4.1	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	480.00	107.85	51768.00
4	9	WOOD AND P. V. C. WORK				
4.1	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
4.1.1	9.21.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	6.00	2172.10	13033.00
4.2	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				

Correction – Nil,
 Insertion – Nil,
 Deletion – Nil

AE(P)

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4.2.1	9.48.2	Fixed to openings /wooden frames with rawl plugs screws etc.	Kg	68.00	238.35	16208.00
4.3	9.127	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.				
4.3.1	9.127.2	1.0 mm thick	Sqm	31.50	897.30	28265.00
4.4	9.168	Providing and fixing cupboard shutter with 19mm thick one side decorative and other side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand including 2mm thick PVC edge banding tape with hot glue by edge bending machine etc. with auto closing spring loaded hinges (hydraulic type) etc. complete as per direction of Engineer-in-charge.(Payment of providing and fixing auto closing hinges shall be paid separately)	Sqm	43.50	2829.25	123072.00
5	10	WOOD AND P. V. C. WORK				
5.1	10.14	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:				
5.1.1	10.14.1	Profile B				
5.1.1.1	10.14.1.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	Meter	10.00	570.40	5704.00

Correction – Nil,
 Insertion – Nil,
 Deletion – Nil

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5.2	10.25	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
5.2.1	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	Kg	221.20	172.60	38179.00
6	13	FINISHING				
6.1	13.4	12 mm cement plaster of mix :				
6.1.1	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	70.25	343.65	24141.00
6.2	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
6.2.1	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	34.20	395.35	13521.00
6.3	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
6.3.1	13.61.1	Two or more coats on new work	Sqm	19.90	155.90	3102.00
6.4	13.81	Distempering with 1st quality acrylic distemper (ready mixed) having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and of required shade and colour complete to give an even shade.				
6.4.1	13.81.1	Old work (one or more coats)	Sqm	300.00	62.70	18810.00
6.5	13.82	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture,cluding applying additional coats wherever required, to achieve even shade and colour.				
6.5.1	13.82.1	One coat.	Sqm	1000.00	92.00	92000.00
6.5.2	13.82.2	Two coats	Sqm	200.00	137.45	27490.00
6.6	13.99	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade				
6.6.1	13.99.1	One or more coats on old work.	Sqm	118.50	102.80	12182.00
6.7	13.111	Finishing walls with Acrylic Smooth exterior paint of required shade :				
6.7.1	13.111.1	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface).	Sqm	296.40	120.75	35790.00

Correction – Nil,
 Insertion – Nil,
 Deletion – Nil

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7	14	REPAIRS TO BUILDING				
7.1	14.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
7.1.1	14.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	Sqm	20.00	547.40	10948.00
7.2	14.5	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:				
7.2.1	14.5.1	Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	Sqm	2.70	1090.65	2945.00
7.3	14.75A	Cleaning of terrace/loft water storage tank (inside surface area) upto 2000 litre capacity at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre) (if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)	lit	22000.00	0.50	11000.00
7.4	14.79	Disconnecting damaged overhead/terrace PVC water storage tank of any size from water supply line and removing from the terrace including shifting at ground level as per direction of Engineer-in-charge.	Each	2.00	433.75	868.00

Correction – Nil,
 Insertion – Nil,
 Deletion – Nil

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8	15	DISMANTLING AND DEMOLISHING				
8.1	15.7	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.				
8.1.1	15.7.4	In cement mortar	Cum	0.98	2060.20	2019.00
8.2	15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
8.2.1	15.12.1	Of area 3 sq. metres and below	Each	4.00	367.20	1469.00
8.3	15.18	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead.	Kg	50.00	5.65	283.00
8.4	15.28	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:				
8.4.1	15.28.1	G.S. Sheet	Sqm	16.00	164.95	2639.00
8.5	15.60	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	Cum	120.00	263.95	31674.00
9	19	DRAINAGE				
9.1	19.4	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design				
9.1.1	19.4.1	100x100 mm size P type				

Correction – Nil,
Insertion – Nil,
Deletion – Nil

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9.1.1.1	19.4.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	2.00	2707.65	5415.00
10	21	ALUMINIUM WORK				
10.1	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
10.1.1	21.1.1	For fixed portion				
10.1.1.1	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	22.00	530.90	11680.00
10.1.2	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
10.1.2.1	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	30.00	634.45	19034.00
					Total	692732.00
	Modified Estimated Cost after using Correction factor on DSR'2023 on account of GST @ 0.973 as per OM issued by Superintending Engineer (TAS) vide No. 158/SE(TAS)/GST/2024/02-E Dated 08/08/2024 (A) =					674028.00
	Add Cost Index @ 8.20% on DSR item				674028.00	55270.00
				(A)	Total	729298.00

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

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11	NS	NON-SCHEDULE ITEMS				
11.1	MR	Supply of Materials				
11.1.1	MR	Stainless Steel curtain rod 20 mm dia 1.25mm thick	Mtr	30.00	187.75	5633.00
11.1.2	MR	Stainless steel (grade 304) sliding door bolts 300x16 mm of Prayag make (Cat. No. PHW-11) or equivalent	Each	10.00	1730.60	17306.00
11.1.3	MR	Anodised Aluminium sliding door bolt 300x16 mm	Each	10.00	219.30	2193.00
11.1.4	MR	Stainless steel (grade 304) tower bolts 250x10 mm of Prayag make (Cat. No. PHW-79) or equivalent	Each	10.00	452.95	4530.00
11.1.5	MR	Anodised Aluminium tower bolt (barrel type) 250x10 mm	Each	10.00	69.20	692.00
11.1.6	MR	Anodised Aluminium handles 125 mm with plate 175 x 32 mm	Each	20.00	45.90	918.00
11.1.7	MR	Anodised Aluminium hanging type twin rubber door stopper	Each	20.00	28.80	576.00
11.1.8	MR	Flushing Cistern P.V.C. 10 litre capacity (low level) (White) (with fittings, accessories and flush pipe)	Each	4.00	851.10	3404.00
11.1.9	MR	White plastic seat (solid) with lid C.P.brass hinges and rubber buffers	Each	4.00	618.15	2473.00
11.1.10	MR	Mirror of superior make glass 60x45 cm	Each	5.00	616.75	3084.00
11.1.11	MR	PTMT Towel Rail (600MM)	Each	5.00	1481.60	7408.00
11.1.12	MR	Unplasticised P.V.C.connection pipe with brass union 45 cm long 15 mm bore	Each	10.00	52.10	521.00
11.1.13	MR	15 mm PTMT bib cock	Each	20.00	1277.40	25548.00
11.1.14	MR	C.P. Brass long nose bibcock 15 mm	Each	5.00	1713.20	8566.00
11.1.15	MR	PTMT Ball Cock 20mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	Each	2.00	164.45	329.00
11.1.16	MR	C.P brass two way bib cock of Jaguar (Cat no. CON-041 KN) make or equivalent	Each	3.00	1481.60	4445.00
11.1.17	MR	Hand shower (Health Faucet) with 8mm dia., 1.00m long flexible tube and wall hook of JAQUAR make (Cat. No. ALD-573) or equivalent.	Each	3.00	1887.30	5662.00
11.1.18	MR	C.P. Brass pillar cock long neck with aerator of Jaquar make (Cat. No. CON-021KN) or equivalent.	Each	5.00	1916.10	9581.00
11.1.19	MR	P.V.C. flexible waste pipe of 40mm dia. for sink or wash basin.	Each	30.00	52.10	1563.00

Correction – Nil,
Insertion – Nil,
Deletion – Nil

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11.1.20	MR	Aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width from 700 mm), with necessary accessories and screws etc. complete.	Each	10.00	958.00	9580.00
11.1.21	MR	Double action hydraulic floor spring for door weight upto 125 kg, for doors with stainless steel cover plate minimum 1.25 mm thickness	Each	6.00	2213.50	13281.00
11.2	NS	Half brick masonry with non modular fly ash bricks of class designation 7.5, conforming to IS : 12894, in super structure above plinth and upto floor V level with Cement mortar 1:4 (1 cement :4 coarse sand).	Sqm	8.00	1070.10	8561.00
11.3	NS	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 7.5 average compressive strength in foundation and plinth with Cement mortar 1:6 (1 cement : 6 coarse sand).	Sqm	11.09	6347.60	70395.00
11.4	NS	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 7.5 average compressive strength in super structure above plinth level up to floor V level with Cement mortar 1:6 (1 cement : 6 coarse sand).	Cum	6.60	8178.70	53979.00
11.5	NS	Supplying, stitching and installing Vertical Roman Blinds of Vista/Marble or equivalent manufacturer and of approved shade fixed to wall including required fittings all complete as per direction of Engineer-in-charge.	Sqm	67.50	5648.10	381247.00
11.6	NS	Credit for taking away of dismantled unserviceable materials from site by the contractor upto all leads and clean the site as per the direction of Engineer-in-charge. (Dismantled materials shall be the properties of the contractor for which credit will be made from the bill of the contractor by the department)				
11.6.1	NS	M.S. grill, G.I. pipe of various dia, G.I. fly proof wire mesh etc.	Kg	50.00	-23.45	-1173.00

Correction – Nil,
Insertion – Nil,
Deletion – Nil

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11.7	NS	Day to day maintenance and upkeeping of all internal and external assets of CPWD Quarters at Pokhariput, Bhubaneswar on plinth area basis in all complete at all floor levels and all heights as directed by the Engineerin- charge. (The quoted rates are inclusive of all labours and T & P but exclusive of material except for masonry work and computer consumable and software/hardware etc. as required to carry out the following category of day to day CPWD Sewa Minor repairs and other repairs/services falls under this category as directed by the Engineer-in-Charge). This item is to be operated on all days including Sunday and any general holidays but excluding National holidays as per the terms and conditions of contract with the following operations:-				
		Day to day maintenance of all types of existing sewerage and drainage systems (i/c rainwater drainage) at all floor levels, leads and all eights by means of de-silting of gully traps, manholes, drains etc, opening/cleaning of chocked sewer pipes/lines, drains, manholes, gully traps, water closets, wash basins, floor traps etc and all complete, to keep the sewerage and drainage systems as functional and efficient. It includes disposal of silt, malba, waste, garbage etc. to the authorized dumping ground to the entire satisfaction and as per the direction of Engineer-in-Charge.				
		Day to day maintenance and operation of all water Supply system / grid and all of its accessories i/c valves within the campuses and to keep the water supply system efficient and operational at all floor levels and all eights for 24x7 basis and all complete to the entire atisfaction and as per direction of the Engineer-in- Charge.				

Correction – Nil,
 Insertion – Nil,
 Deletion – Nil

AE(P)

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		Day to day maintenance carpentry nature of complaints by means of repairing and re-fixing of damaged doors, windows, ventilators of steel/wood/PVC/any material along with its all accessories/fittings etc. at all floors and all heights to keep them in proper functional conditions to the entire satisfaction and as per direction of the Engineer-in-Charge				
		Day to day maintenance and repair of plumbing system within entire campuses including stopping leakages in the system or over flows of water from PVC/RCC overhead tanks and water cisterns and replacement of the bib cock, stop cock, pillar cock, fittings, ball cocks etc. and setting right all other plumbing related complaints at all floor levels and all heights to keep the entire water supply system efficient and functional to the entire satisfaction and as per direction of the Engineer-in- Charge				
		Day to day maintenance and repair of internal and external plaster, flooring, masonry work, pointing on roof tiles, RCC work, plaster up to an area of 2.5 sqm ,CC gola, sealing of leakages from roofs, floor, traps, W.C./ P traps and joints of pipes & fittings, gully traps and manholes and restoration of existing finishings in the repair works at all floor levels and all heights to the entire satisfaction and as per direction of Engineer-in-Charge. (All Necessary materials for repair works, labour and T&P shall be arranged by the agency) (Area of the Office Building = 2,672 Sqm)	Month	12.00	7943.15	95318.00
		Total		(B)		735620.00
		G.Total		(A) + (B)		1464918.00

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

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Part E: Proforma for Quoting Rates

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

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NIT No: 33/NIT/EE-BBSR-II/CPWD/2026-27					
Name of Work: A/R & M/O of Non-Residential Building of CPWD campus, Nirman Bhawan at Pokhariput, Bhubaneswar, Odisha during the financial year 2026-27. S.H.: Civil day to day Annual Repairs & maintenance works.					
Estimated cost put to Tender					Rs.14,64,918/-
PERFORMA FOR QUOTING THE RATES					
Name of Contractor					
Sr. No.	Name of component	Estimated cost (Rs.)	Percentage above/ below the Total Estimated Cost	% in figures	Total Cost (Rs.)
1	CIVIL PART	Rs.14,64,918/-			
Total Estimated Cost		Rs.14,64,918/-			

Correction – Nil,
 Insertion – Nil,
 Deletion – Nil

AE(P)

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Part F: Latest Amendments

Correction – Nil,
 Insertion – Nil,
 Deletion – Nil

AE(P)

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केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

No. DG/CON/Maintenance 2023/02

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 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:- (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 remedy available 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

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	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 as specified 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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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 v. No provision	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 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. 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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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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	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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(EE (Contact))

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Correction – Nil,
Insertion – Nil,
Deletion – Nil

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	The end date of such events shall be recorded by Engineer-in-Charge either during acknowledgment of notice or subsequent to acknowledgement if end date of hindrance is after the date of acknowledgement of notice. In absence of notice by the contractor, Engineer-in-Charge or his representative(s) may record the events causing delay within 05 (five) days of occurrence of hindrance on ERP portal provided further that not recording of events causing delay by the Engineer-in-Charge does not ipso facto entitle the contractor for any hindrance.
Such extension of time or rescheduling of milestone/s shall be without prejudice to any other right or remedy of the parties in contract or in law, provided further that for concurrent delays under this sub clause and sub clause 5.2 to the extent the delay is covered under sub clause 5.2 the contractor shall be entitled to only extension of time and no damages.	Such extension of time or rescheduling of milestone(s) shall be without prejudice to any other right or remedy of the parties in contract or in law, provided further that for concurrent delay(s) under this sub clause and sub clause 5.2 to the extent the delay is covered under sub clause 5.2, the contractor shall be entitled to only extension of time and shall have no claim of damages.
5.4 Request for rescheduling of Mile stones or extension of time, to be eligible for consideration, 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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R.K. JAIN
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Correction – Nil,
Insertion – Nil,
Deletion – Nil

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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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(EE (Contact))

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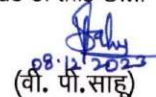
action against subsequent mile stone. Such extension or rescheduling of the milestones shall be communicated to the Contractor by the authority as indicated in Schedule 'F' in writing, within 21 days of the date of receipt of such request from the Contractor in prescribed form. In event of non-application 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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	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: i. 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) 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)	PROFORMA OF SCHEDULES (Separate Performa for Civil, Elect. & Hort. Works in case of Composite Tenders) SCHEDULE 'F' Clause 5 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. 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 (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.


 (वी. पी. साहू)

अधीक्षण अभियंता (सी.एंड एम.)

Issued from file No. CSQ/CM/17(1)/2023/ Maintenance 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)।


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 (EE (Contact))

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केन्द्रीय लोक निर्माण विभाग

कार्यालय ज्ञापन

No. DG/CON/Maintenance 2023/03

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI

Dated: 18.12.2023

Subject: Modifications in Conditions of Contract, Clause 12 and Schedule E and F of GCC 2023 for Maintenance Works

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

Existing provision	Modified provision
CONDITIONS OF CONTRACT	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:-	Definitions 2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:-
(i) to (x)(a)	(i) to (x) (a) No change
(x) (b) Schedule(s) referred to in these conditions shall mean the relevant schedule(s) annexed to the tender documents or the standard Schedule of Rates of the government mentioned in Schedule 'F' hereunder, with the amendments thereto issued upto the date of receipt of the tender.	(x) (b) Schedule(s) referred to in these conditions shall mean the relevant schedule(s) annexed to the tender documents or the standard Schedule of Rates of the government mentioned in Schedule 'F' hereunder, with the amendments thereto issued previous day of the last date of submission of the tender.
(xi) to (xv)	(xi) to (xv) No change
(xvi) No provision	(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) No provision	(xvii) Completion cost: The completion cost includes gross amount of work done, amount of extra item(s) and deviation(s) and escalation amount admissible as per agreement etc.

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R.K. JAIN 14/12/23
(EE (Contact))

Correction – Nil,
Insertion – Nil,
Deletion – Nil

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times of contract amount with recorded reasons and take suitable corrective action.	Engineer-in-Charge will verify and confirm the alerts before assigning deviation(s) and / or extra item(s) 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 claim(s) 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 deviation(s) and extra item(s) 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 Extra items are those which are not available in the contract. For percentage rate tenders, the extra item(s) which are available in the standard schedule of rates specified in Schedule F, shall be paid as per the said schedule rate plus cost index (considered in the estimated cost put to tender) plus/minus percentage above/below quoted on estimated cost put to tender. For item rate tenders, the extra item(s) which are available in the standard schedule of rates specified in Schedule F, shall be paid as per the said schedule rate plus cost index (considered in the	12.2 Deviation, Extra Items and Pricing Deleted Deleted

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(EE (Contact))

estimated cost put to tender) plus/minus percentage above/ below worked out on the basis of overall contract amount and estimated cost of the work put to tender.

In the case of extra item(s) which are not available in the standard schedule of rates specified in Schedule F, 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.

(a) Non Schedule Extra Item(s) - The contractor, shall within fifteen days of the receipt of order to execute extra item(s) or occurrence of the item(s), submit analysis of rate of extra item(s) based on the rate(s) of material(s) available in basic rate of Standard Schedule of Rate mentioned in schedule F and rate(s) of the material(s) based on tax paid bills which are not available in standard Schedule of Rate mentioned in schedule F. For this purpose, the basic rate of material(s) available in Schedule of Rate(s) mentioned in Schedule F will be enhanced or reduced by the applicable cost index, as the case may be.

The rate(s) of the material(s) which are not available in Standard Schedule of Rates, mentioned in Schedule F, shall be based on, tax paid bill(s) for the material(s) as defined in manufacturer's specification.

Material rate(s) from Standard Schedules of Rate(s) shall be given priority in the analysis of rate(s).

The rate of extra item will be

- i. Analyzed rate(s) as above multiplied by (Contract amount divided by estimated cost put to tender), if tendered amount is below the estimated amount put to tender.
- ii. Analyzed rate, if the Contract 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.


R.K. JAIN
(EE (Contact))

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 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.	Where the contractor submits analysis of rate(s) of extra item(s) 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 item(s). The contractor shall be paid in accordance with the rate(s) so determined. However provisional rate(s) on the basis of invoice will be allowed by the Engineer-in-Charge. Invoice shall be accepted only for material(s) not available in the Standard Schedule of Rates mentioned in Schedule F. The contractor while submitting the tax paid bill of purchased material(s) shall ensure that rate(s) of the materials are reasonable and lowest available in the market. If Engineer-in-Charge feels rates in tax paid bill(s) submitted by contractor are not reasonable then he can modify the rate(s) after giving a notice to the contractor. Engineer-in-Charge is the final authority to decide applicable rate(s) of material(s).
(b) No Provision	(b) Scheduled Extra Items i. For percentage rate tender, 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 tender, the extra item(s) shall be paid as per the said schedule rate enhanced or reduced by the applicable cost index and multiplied by (Contract amount divided by estimated cost put to tender).


R.K. JAIN
(E.E. (Contact))

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.	The rate(s) of extra item(s) so determined by the Engineer-in-Charge shall be final and binding on the contractor.
12.3 Deviation, Deviated Quantities, Pricing All the deviated quantities shall be paid at agreement rates	12.3 No change
12.4 The case of any operation incidental to or necessarily has to be in contemplation of tenderer while quoting filing tender, or necessary for proper execution of the item included in the Schedule of quantities or in the schedule of rates mentioned above, whether or not, specifically indicated in the description of the item and the relevant specifications, shall be deemed to be included in the rates quoted by the tenderer or the rate given in the said schedule of rates, as the case may be. Nothing extra shall be admissible for such operations.	12.4 No Change
12.5 No provision	12.5 Cost index Latest available Cost index at the time of beginning of execution of extra item(s) shall be used in sub-clauses 12.2 (a) and 12.2 (b) for calculation of rate(s) of extra item(s).
12.6 No provision	12.6 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 'E' Reference to General Conditions of Contract	PROFORMA OF SCHEDULES (Separate Performa for Civil, Elect.& Hort. Works in case of Composite Tenders) SCHEDULE 'E' Reference to General Conditions of Contract : (GCC EPC Projects 2022/ GCC Maintenance Works 2023/ GCC Construction Works 2023)


R.K. JAIN
 (EE (Contact))

	Applicable GCC is as modified & corrected upto previous day of the last date of submission of the tender. (NIT approving authority to mention one GCC in the space provided above)
SCHEDULE 'F' GENERAL RULES & DIRECTIONS: Officer inviting tender Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3. See below	SCHEDULE 'F' GENERAL RULES & DIRECTIONS: No Change Deleted
9 (ii) Standard CPWD contract Form GCC 2020, CPWD Form 7/ 8 as modified & corrected upto	9(ii) Standard CPWD contract Form General Conditions of Contract Maintenance Works 2023 , CPWD Form 7/ 8 as modified & corrected upto previous day of the last date of submission of the tender.
Clause 12 12.2 Deviation Limit beyond which clauses 12.2 shall apply for building work	Clause 12 Deleted

This issues with the approval of DG CPWD.


18.12.2023
(वी. पी. साहू)

अधीक्षण अभियंता(सी.एंड एम.)

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

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


R.K. JAIN
(EE (Contact))

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

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:- (i) to (xix) (xx) No provision (xxi) 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 (xix) No change (xx) Adolescent Person: A person who has completed his/her fourteenth year of age but has not completed his eighteenth year. (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 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

**Central Public Works Department
Office Memorandum**

No. DG/CON/Maintenance 2023/05

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD 61.03.2024

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))

Correction – Nil,
 Insertion – Nil,
 Deletion – Nil

AE(P)

EE-BBSR-II

(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.	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, 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.

[Signature] 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)

[Signature]
29/04/2024
R.K. JAIN
(EE (Contact))

**Central Public Works Department
Office Memorandum**

No. DG/CON/Maintenance 2023/06

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI

Dated: 01.03.2024

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

The following amendments are made in the GCC 2023 for Maintenance 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. Five lac or less till after the whole of the work shall have been completed and certificate of completion given. calendar month of the measurements recorded upto previous month as per clause 6.	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).

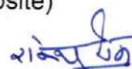
This issues with the approval of DG CPWD.


(V.P. Sahu)

Superintending Engineer (C&M)

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

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


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

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

**Central Public Works Department
Office Memorandum**

No. DG/CON/Maintenance 2023/07

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI

Dated: 05.03.2024

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

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

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


R.K. JAIN
 (EE (Contact))

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

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

This issues with the approval of DG CPWD.


05.03.2024
(V.P. Sahu)

Superintending Engineer (C&M)

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

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


21.03.2024
R.K. JAIN
(E.E (Contact))

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

Central Public Works Department

Office Memorandum

No. DG/CON/Maintenance 2023/09

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 Maintenance Works

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

General Rules and Directions:				
Existing provision	Modified provision			
General Rules and Directions Sl. No. 1 to 16 No Provision	General Rules and Directions No Change 17. <u>Price Preference to SC/ST individual contractor for</u> <table><tr><th>item</th><th>rate/percentage</th><th>rate</th></tr></table> tender: 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 pretence 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.	item	rate/percentage	rate
item	rate/percentage	rate		
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.

(Signature)
03.06.2024
(V.P. Sahu)

Superintending Engineer (C&M)

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

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

(Signature)
R.K. JAIN
EE (Contract)

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/CON/Maintenance 2023/10

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI

Dated: 09.10.2024

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

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

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


 R K SINGH
 EE(Manual)

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Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

Appendix-XX
REGISTER OF MATERIAL AT SITE (MAS)

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

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

This issues with the approval of DG, CPWD.


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

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

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


 R.K. SINGH
 EE(Manual)



केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/CON/Maintenance-2023/11

ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Nirman Bhawan, New Delhi

Dated: 29.10.2024

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

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

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

R K SINGH
EE(Manual)

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Correction – Nil,
Insertion – Nil,
Deletion – Nil

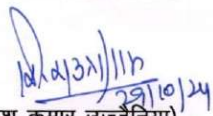
AE(P)

EE-BBSR-II

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.


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

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

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


 R K SINGH
 EE(Manual)

**केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन**

No. DG/CON/Maintenance 2023/12

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI

Dated: 03.01.2025

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

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

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


 R K SINGH
 EE (Manual)

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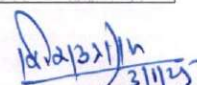
Correction – Nil,
 Insertion – Nil,
 Deletion – Nil

AE(P)

EE-BBSR-II

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

This issues with the approval of DG, CPWD.


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

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

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


R.K SINGH
EE(Manual)

केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

No. DG/CON/Maintenance 2023/13

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI

Dated: 31.01.2025

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

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

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

This issues with the approval of DG, CPWD.

Issued from file No. CSQ/CM/17(1)/2023/Maintenance e-file 9184028 (DFA/9313089)
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)

EE-BBSR-II

Central Public Works Department
Office Memorandum
No. DG/CON/Maintenance 2023/14
ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI

Dated: 10.02.2025

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

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

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

R K SINGH
R K SINGH
EE(Manual)

Page 1 of 3

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

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.

RKS 10.2.25
R K SINGH
EE (Mandari)

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, completion certificate, final extension of time case, mandatory tests statement, dismantled materials account and other documents as mentioned in clause-7 A etc.
- iv. An undertaking along the final bill will be submitted by the contractor that "I / we hereby under take that all the measurements/claims payable under this contract have been included in the final bill and will not submit any other bill/claims in future under this agreement thereafter".
- v. No further claims shall be entertained from the contractor after submission of the final bill and these shall be deemed to have been waived and extinguished. Payments of those items of the bill in respect of which there is no dispute and of items in dispute, for quantities and rates as approved by Engineer in

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

This issues with the approval of DG, CPWD.

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

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

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

R K SINGH
R K SINGH
EE(Manual)

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केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन

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

NIRMAN BHAWAN, NEW DELHI

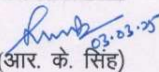
Dated: 03.03.2025

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

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

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

This issues with the approval of DG, CPWD.


(आर. के. सिंह)

कार्यपालक अभियन्ता (एम.)

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

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

(केलोनवि वेबसाइट के माध्यम से)

R K SINGH
EE(Manual)

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

**केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन**

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

VIDYUT BHAWAN, NEW DELHI

Dated: 27.02.2026

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

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

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


 D.P. Jindal
 EE (Contract)

Correction – Nil,
Insertion – Nil,
Deletion – Nil

AE(P)

EE-BBSR-II

Sl. No. (iii)	the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.
	No change

This issues with the approval of DG, CPWD.

चन्द्रपाल (सी.एण्डएम.)
(सी.एण्डएम.)

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

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


D.P. Jindal
EE (Contract)