



**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
Office of the Executive Engineer-Sambalpur
CPWD, Sambalpur (Odisha)**



NOTICE INVITING TENDER

NIT No: 12/NIT/EE/SD/CPWD/2026-27

Name of the Work: Construction of Boundary wall Covering Agriculture field of CCBF, Chiplima, Sambalpur. (Phase-I)

Estimated Cost: **Civil: ₹ 88,92,120/-**
 Total: ₹ 88,92,120/-

Period of Completion: 06 (Six) Months

Earnest Money: ₹ 1,77,842.00 (to be refunded after receiving the Performance Guarantee).

Last date and time Of Online submission of bid: 10.09.2026 upto 15:00 Hrs

1.0 INDEX

Name of Work: **Construction of Boundary wall Covering Agriculture field of CCBF, Chiplima, Sambalpur. (Phase-I)**

NIT No.: **12/NIT/EE/SD/CPWD/2026-27**

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Certified that this NIT amounting to ₹ 88,92,120/- (Civil: 88,92,120/-) contains Page 1 to 83.

Approved by:

**Executive Engineer, Sambalpur
CPWD, Sambalpur**

2.0 GLOSSARY

CPWD	Central Public Works Department, Government of India (GoI)
GoI	Government of India
INR/ Rs.	Indian Rupees (Currency of India)
BIS	Bureau of Indian Standards
C & D Waste	Construction & Demolition Waste
CPI	Consumer Price Index
DBR	Design Basis Report
DLP/DNP	Defects Liability Period/Defect Notification Period
DSR	Delhi Schedule of Rates, published by CPWD, as mentioned in Schedule-F of this NIT
DAR	Delhi Analysis of Rates, published by CPWD, as mentioned in Schedule-F of this NIT
E&M	Electrical and Mechanical Component
EMD/BS	Earnest Money/ Bid Security
PG	Performance Guarantee/Performance Security
GCC	CPWD General Conditions of Contract as mentioned in Schedule-F of this NIT
HSE	Health Safety & Environment
IGBC	Indian Green Building Council, GoI
IRC	Indian Road Congress Publications
IS	Indian Standard of GoI
MAS	Material at Site
MEP	Mechanical Electrical Plumbing
MoRTH	Ministry of Road Transport and Highway
MT	Metric Tonne
MTC	Material Testing Certificate
NBC	National Building Code of India
NGT	National Green Tribunal

NIT	Notice Inviting Tender Document (also referred as “Bid Document”)
OEM	Original Equipment Manufacturer
PPE	Personal Protection Equipment
SAP	Safety Action Plan
BOQ	Bill of Quantities/Schedule of Quantities
STP	Sewage Treatment Plant
TDS	Tax Deduction at Source
TPQAA	Third Party Quality Assurance Agency
WPI	Wholesale Price Index
E&M	Electrical and Mechanical Component
GFC	Good For Construction
SE	Superintending Engineer
CE	Chief Engineer

3.0 FOREWORD

- 1) In this tender document, unless otherwise the context requires or specifically stated otherwise:
 - a) “NIT” or “Tender Document” or “Bid Document” or “Contract” or “Agreement” or similar phrase shall always mean these tender documents along with all parts, drawings, documents, annexures, GCC, corrigendum, addendum, special conditions, additional conditions, BOQ, etc., forming part of this NIT, which shall become part of the Contract with the successful bidder;
 - b) “*Base Date*” shall mean the previous day of the last date of submission of bid (including extension if any);
 - c) all publications like *CPWD Specifications*, *MoRTH Specifications*, *IS Codes*, *National Building Code of India*, etc. shall always mean the latest editions of these documents/publications with all correction slips upto the Base Date;
 - d) ‘Approved scheme’, ‘approved drawing’, ‘approved design’, ‘approved programme chart’ ‘*as approved*’ or similar phrase shall always mean scheme/drawing/design/documents/programme charts etc., as the case may be, as approved by the *Engineer-in-Charge*;
 - e) “*Engineer-in-Charge*” or “*Engineer*” mentioned in the tender document or any of the referred documents, publications, etc. shall always mean Engineer-in-Charge defined in Schedule-F;
 - f) “Schedule-F” shall mean Schedule-F in the Proforma of Schedules of this NIT.
 - g) “NIT Approving Authority” shall mean “The Superintending Engineer -Rourkela, CPWD or his successor”; and
 - h) “Division Officer” means the Engineer-in-Charge as defined in this NIT;
 - i) “GFC” means Good For Construction Drawings, issued to the Contractor either specifically with “GFC” name or in any other name or form or shape (like pdf/AutoCAD format) through Register/Mail/Hand or otherwise, unless stated otherwise.
- 2) Order of Precedence:
 - i) Various documents, parts, chapters, GCC, Special Conditions, additional conditions, etc., forming the Contract, are to be taken as mutually explanatory of one another. If there is any conflict, ambiguity or discrepancy, following order of precedence shall be observed:
 - a) Foreword
 - b) Special Conditions;
 - c) Proforma of Schedules-A to F;
 - d) GCC;
 - e) Additional Conditions;
 - f) Description of items as given in Schedule of quantities;
 - g) Particular specifications;
 - h) GFC Drawings;
 - i) CPWD Specifications;
 - j) Indian Standards Specifications of B.I.S;
 - k) ASTM, BS, or other foreign origin codes mentioned intender document;
 - l) Manufacturer’s specifications and as decided by the Engineer-in-Charge; and
 - m) Sound Engineering practices or well-established local construction practices.

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- ii) If a Contractor finds an ambiguity or discrepancy or needs any further clarity on any issue whatsoever in the documents, the Contractor shall promptly give a Notice to NIT Approving Authority, describing the ambiguity or discrepancy or clarity. After receiving such Notice, the NIT Approving Authority shall issue the necessary clarifications and/or instructions to the Contractor, which shall be final, binding and non-arbitrable.
 - 3) The work has to be carried out within the allotted land only. No additional land or space for working/machinery/stacking of materials/labour hutment, etc., whatsoever, shall be made available to the Contractor by the Department. No hindrance or extension of time shall be considered on any such grounds. Therefore, Bidder is advised to visit the site before quoting their rate as it will be assumed that Bidder has considered all such practical issues, if any, in their quoted rate.
 - 4) It will be deemed that the Bidder has bid for this work knowing fully well all the terms and conditions of this Bid Document. Therefore, all subsequent actions of the Contractor during the currency of the work will also be deemed as are their willful conduct knowing all the terms and conditions of the Contract without any demur.

2. NOTICE INVITING e-TENDER

The Executive Engineer-Sambalpur, CPWD, Sambalpur (Odisha) (E-mail-spdcpwd@gmail.com) on behalf of the President of India invites online **percentage rate bids** from **CPWD enlisted contractors of appropriate class of Buildings & Roads category** for the following work:

Name of Work: Construction of Boundary wall Covering Agriculture field of CCBF, Chiplima, Sambalpur. (Phase-I)

NIT No.: 12/NIT/EE/SD/CPWD/2026-27

Estimated Cost putto Tender	As stated in Schedule 'F' of this NIT
Earnest Money	As stated in Schedule 'F' of this NIT
Period of Completion	As stated in Schedule 'F' of this NIT
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.	10.09.2026 upto 15:00 Hrs

The tender forms and other details can be obtained from the website <https://etender.cpwd.gov.in>.

Further modifications/corrigendum to NIT, if any, can be seen in the above stated tender web site only.

PART A

1.0 INFORMATION & INSTRUCTIONS FOR BIDDERS FOR e-TENDERING

The **Executive Engineer-Sambalpur, CPWD, Sambalpur (Odisha)** (E-mail-spdcpwd@gmail.com) on behalf of the President of India invites online **percentage rate bids** from **CPWD enlisted contractors of appropriate class of Buildings & Roads category** for the following work:

NIT No	12/NIT/EE/SD/CPWD/2026-27
Name of Work	Construction of Boundary wall Covering Agriculture field of CCBF, Chiplima, Sambalpur. (Phase-I)
Location	CCBF Campus, Chiplima, Sambalpur, Odisha
Estimated cost put to bid	As stated in Schedule 'F' of this NIT
Earnest Money	As stated in Schedule 'F' of this NIT
Period of Completion	As stated in Schedule 'F' of this NIT
Last date & time of uploading/submission of Bid, EMD, copy of receipt for deposition of original EMD and other documents as specified in NIT	10.09.2026 upto 15:00 Hrs
Time and date of opening of financial bid	10.09.2026 at 15:30 Hrs

- 1) The intending bidder must read the terms and conditions of CPWD-6 and whole NIT Document carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
- 2) This information and instructions for bidders posted on website shall form part of bid document.
- 3) Intending bidder enlisted in Class-III, IV & V category must be enlisted by ADG Patna, ADG Guwahati or SDG Kolkata. Contractors of Odisha State enlisted in ADG (Hyderabad) region are also allowed to participate in bidding process.
- 4) 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.
- 5) The bid can only be submitted after deposition of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission and uploading the mandatory scanned documents such as Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed) 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
- 6) Engineer (including NIT issuing EE), 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 bid sheets.
- 10) Bidder 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).
- 12) 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.
- 13) The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
- 14) The contractor submitting the bid should read the NIT document before quoting rates. The set of drawings and NIT will be available with the Tender Inviting Authority. The contractor should also visit the site of work and acquaint himself with the site conditions before tendering.
- 15) 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.
- 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 contractor's bills and will be remitted by the department.
- 17) Applicants are advised to keep visiting the <https://etender.cpwd.gov.in> web-site 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 Bid complete in all respects including updates thereof, if any. An incomplete bid 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-I, 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
- 19) Engineer (including NIT issuing EE) shall issue a receipt of deposition of Earnest Money deposit to the bidder in a prescribed format.
- 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 and/resultant agreement including dispute related to**

encashment of any Bank Guarantee/ FDR etc., whatsoever, shall be subject to the jurisdiction of courts at Sambalpur only.

24) List of Mandatory Documents to be scanned and uploaded within the period of bid submission: -

- (i) EMD documents in shape of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed) issued by a Commercial Bank in favour of Executive Engineer, BCD-I, CPWD, Bhubaneswar.
- (ii) Copy of receipt for deposition of original EMD issued from division office of any Executive Engineer, (including NIT issuing EE), CPWD.
- (iii) **Enlistment Order of the Contractor. (Intending bidder enlisted in Class-III, IV & V category must be enlisted by ADG Patna, ADG Guwahati or SDG Kolkata. Contractors of Odisha State enlisted in ADG (Hyderabad) region are also allowed to participate in bidding process).**

~~(iv) Electrical license from competent authority in the name of Contractor or undertaking that "I, hereby confirm that I will either obtain valid electrical license at the time of execution of electrical work or associate CPWD registered contractor having valid electrical license of eligible class."~~

- (v) A Declaration from the bidder that

"We declare that the following will be our complete Postal Address, email-ID with Name of Nodal Person with Phone No for correspondence/quick communication for this work throughout the Contract period. In case there is any change, we will inform the Engineer-in-Charge within 7 (days) the modified Address and/or Contact details of Nodal Person.

- a) Postal Address:
- b) Email ID:
- c) Name of Nodal Person & Contact No:."

Note: This document submitted by the bidder will become part of Agreement

- (vi) Certificate of ERP Training issued through LMS (Learning Management System) in ERP from any of the CPWD Regional Training Institutes (RTIs), National CPWD Academy (NCA) Ghaziabad, or through any other special training arranged by ERP unit of CPWD. Or, for newly enlisted contractor, they shall submit an undertaking that *"I/We shall complete the ERP training within 45 days of the date of issue of the enlistment order as per Enlistment Rule 2026"*.

~~(vii) Declaration about site inspection by the eligible bidder enclosed at Annexure IV of Part A.~~

Note: This document submitted by the bidder will become part of Agreement

~~(viii) Undertaking on structural stability and soundness as per prescribed format given at Annexure V of Part A.~~

- (ix) GST Registration Certificate of the state in which the work is to be taken up, if already obtained by the Bidder. If the bidder has not obtained GST registration in the state in which the work is to be taken up, or as required by GST authorities, then he shall scan and upload following undertaking along with bid documents.

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

Note: This document submitted by the bidder will become part of Agreement

Note: The Postal address of **Executive Engineer, CPWD inviting the tender** may be noted as below for correspondence and submission of Physical documents.

**O/o The Executive Engineer-Sambalpur
Central Public Works Department
Plot No. 1399 To 1403, Kainsir Road
Ainthapalli, Sambalpur,
Odisha, Pin-768 004
e-mail: spdcpwd@gmail.com**

2.0 BRIEF PARTICULARS OF THE WORK

Note: This is brief particulars of work. In case of any discrepancy, the Schedule of Quantity and GFC drawings shall prevail.

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

Sr. No.	Name of Work	Estimated Cost	Period of completion
1.	Construction of Boundary wall Covering Agriculture field of CCBF, Chiplima, Sambalpur. (Phase-I)	As stated in Schedule 'F' of this NIT	As stated in this bid document

B. The site of work is situated at CCBF Campus, Chiplima, Sambalpur, Odisha.

C. Brief Particulars: - Construction of Boundary wall Covering Agriculture field of CCBF, Chiplima, Sambalpur. (Phase-I)

Following provisions have been kept in the estimate:

- 1) **RCC Framed structure Isolated footing Boundary wall of span length 3 m from column to column has been kept in this Estimate.**
- 2) **The height of the boundary wall will be 1.40 meter excluding depth of grade beam.**
- 3) **The finishing of boundary wall will be of 12mm and 15 mm plaster and Acrylic smooth exterior paint.**

D. Specifications (Civil Work)

Note: These specifications are for guidance. In case of discrepancy, BOQ item and direction of Engineer-in-Charge shall precede.

No.	Description	Brief Specification
1 (a)	FOUNDATION	
1.1	Foundation and Super Structure	Isolated Footing of 1:1.5:3 grade nominal mix concrete. Plinth beam of (300x250mm) at NGL level will be provided.
1 (b)	SUPER STRUCTURE/MASONARY WORK	
		Boundary wall will be of 1.40 meter high above plinth beam with filler materials of fly ash brick of thickness 230 mm.
4.2	Internal / external finishing	External finishes shall be covered as per plastering work and exterior paint as per BOQ.

CPWD – 6

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

The **Executive Engineer-Sambalpur, CPWD, Sambalpur (Odisha)** (E-mail-spdcpwd@gmail.com) on behalf of the President of India invites online percentage rate bids from CPWD enlisted contractors of appropriate class of Buildings & Roads category for the following work:

Construction of Boundary wall Covering Agriculture field of CCBF, Chiplima, Sambalpur. (Phase-I)

1. 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.
2. The work is estimated to cost: **As stated in this Bid Document**. This estimated cost, however, is given merely as a rough guide.
3. 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.
4. The time allowed for carrying out the work will be: **As stated in this Bid Document** 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.
 - i. **The site for the work is available.**
 - ii. **The architectural and structural drawings shall be made available at the time of commencement of the work as per approved programme chart. For any additional drawings/details, if required so by the Contractor, the Contractor shall inform the same to the Engineer-in-charge at least 30 days in advance of the concerned stage of construction so that work progress does not get hampered due to such details/drawings/clarifications.**
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 or withdraw it before last date and time of submission of bid as notified. No post-tender modification is allowed by the tenderers except through negotiations, if required. In case, any tenderer does so, the tender will be rejected and the tenderer will be debarred for future tendering in CPWD for two years by the concerned enlisting authority (in case of CPWD enlisted Contractor) and by the concerned CE/SE (in case non-enlisted Contractor).
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. ~~When bids are invited in three stage system and if it is desired to submit revised financial bid then~~

~~it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.~~

9. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed) issued by any of the Commercial Bank (**drawn in favour of Executive Engineer, BCD-I, 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) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format attached with this NIT.

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

EMD shall be made / issued only from the account of the bidder / tenderer submitting the bid/tender. EMD made/ issued from the account other than that of the bidder/ tenderer submitting the bid, shall not be accepted.

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

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

The bid submitted shall be opened at stipulated time mentioned herein before.

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. 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 mandatory documents as stipulated in the bid document at Sl. No. 22/INFORMATION & INSTRUCTIONS FOR BIDDERS FOR e-TENDERING/PART-A of this 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 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.

(v) The Bidder does not furnish the Performance Guarantee of work as per NIT condition.

11. The contractor whose bid is accepted will be required to furnish performance guarantee of 5% (Five percent) of the bid amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10,000/-) or Deposit at Call receipt of any scheduled bank/Banker's Cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay order of any Scheduled Bank of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule "F" including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee.
The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work within the period specified in Schedule F.
12. 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. 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.
13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected
14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
15. In case of Non-submission of Hard copies within the stipulated time by the lowest bidder and or any discrepancy is noticed between the documents as uploaded at the time of submission of the bid online and hard copies as submitted physically in the office of the Executive Engineer, then

the bid submitted shall become invalid and the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit the EMD. Further, the tenderer shall not be allowed to participate in the retendering process of the work.

16. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
17. GST or any other tax applicable in respect of inputs procured by the contractor for this contract shall be payable by the Contractor and the Department will not entertain any claim whatsoever in respect of the same. However, the component of GST at time of supply of service (as provided in CGST Act 2017) provided by the contract shall be varied if different from that applicable on the last date of receipt of tender including extension if any.
18. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazette officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
19. No Engineer of gazette rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be 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 (30) days from the date of opening of bids. Further
 - i) If any tenderer withdraws his tender within 7 days after last date and time (24 hours basis) of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - ii) If any tenderer withdraws his tender after expiry of 7 days after last date and time (24 hours basis) of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - iii) Withdrawal of the tender, by the tenderer, shall only be made through e-tender portal. Any other method i.e. through letter/e-mail etc. shall not be considered.
 - iv) 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:

- 22.1. The Executive Engineer in charge of the major component will call bids for the composite work.
- 22.2. The eligible bidders shall quote rates for all items of major component as well as for all items of minor components of work.
- 22.3. After acceptance of the bid by competent authority, the Executive Engineer 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-in-charge of minor component. One such signed set of agreement shall be handed over to EE-in-charge of minor component. EE of major component will operate Part-A, B, D, E and F of the agreement. EE-in-charge of minor component shall operate Part A, C, D, E & F of the agreement.
- 22.4. Entire work under the scope of the composite bid including major and all minor components shall be executed under one agreement.
- 22.5. Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.
- 22.6. Running payment for the major component shall be made by EE of major discipline to the main contractor. Running payment for minor components shall be made by the Engineer-in-charge of the discipline of minor component directly to the main contractor. The CMB shall be maintained independently by Engineer-in- Charge of major and minor components.
- 22.7. The composite work shall be treated as complete when all the components of the work are complete. The completion certificate of the composite work shall be recorded by Engineer-in-Charge of major component after record of completion certificate of all other components by the respective Engineers-in-Charge.
- 22.8. Supervision of various components of works will be carried out by concerned wings of the department under the overall coordination of the NIT approving authority.
- 22.9. Final bill of whole work shall be finalized and paid by the EE of major component. Engineer-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.
- 22.10. It will be obligatory on the part of bidder to sign the contract document for all components before the first payment is released.
- 23. **In case of reduction in scope of work no claim on account of reduction in value of work, loss of expected profit, consequential overheads etc. shall be entertained.**

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

Information and instructions for Executive Engineer/Division for receipt/release of Original EMD

- (i) The Executive Engineer of all Divisions including NIT issuing Division of CPWD should receive the original EMD for tender of other division.
- (ii) 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 as below. The receipt can also be issued by the AE (P)/AE/AAO **from the Division Office.**
- (iii) The Executive Engineer receiving original EMD shall also intimate tender inviting Executive Engineer about deposition of EMD by the agency by email/fax/telephonically.
- (iv) The original EMD receiving Executive Engineer shall release the EMD after verification from the e-tendering portal website that the particular contractor is not L-1 tenderer and work is awarded.
- (v) The tender inviting Executive Engineer will call for original EMD of the L-1 tender from EMD receiving Executive Engineer immediately.
- (vi) 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 (To be issued from Division Office)

(Receipt No. date.....)

Name of Work: Construction of Boundary wall Covering Agriculture field of CCBF, Chiplima, Sambalpur. (Phase-I)

NIT No.: 12/NIT/EE/SD/CPWD/2026-27

1.	Estimated Cost:	₹ 88,92,120.00
2.	Amount of Earnest Money Deposit:	₹ 1,77,842.00
3.	Last date of submission of bid	10.09.2026 upto 15:00 Hrs
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.

CPWD- 7

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

State: Odisha

Circle: SE-Rourkela

Branch: B & R

Division: Executive Engineer –Sambalpur

COMPOSITE PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

Percentage Rate Tender for the work of “Construction of Boundary wall Covering Agriculture field of CCBF, Chiplima, Sambalpur. (Phase-I) ”

- (i) To be uploaded upto **10.09.2026 upto 15:00 Hrs** on <https://etender.cpwd.gov.in> or <https://eauction.cpwd.gov.in> as applicable.
- (ii) To be opened in presence of tenderers who may be present at, **15:30 Hrs, 10.09.2026** in the office of Executive Engineer -inviting the tenders.

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 bid 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.

I/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 prescribed) issued by a Commercial Bank is scanned and uploaded. If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that President of India or the successors in office shall without prejudice to any other right or remedy

available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and 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 of the tender form.

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

Telephone No -----**

** To be filled by contractor/witness.

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 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-Part-E

SCHEDULE 'D' Extra schedule for specific requirements/ document for the work, if any.	As mentioned in this Bid Document
SCHEDULE 'E' Reference to General Conditions of Contract	General Conditions of Contract-2023(Construction Work) modified and amended upto the Base Date.
Name of Work	Construction of Boundary wall Covering Agriculture field of CCBF, Chiplima, Sambalpur. (Phase-I)
Estimated cost of work	₹ 88,92,120.00
i) Earnest money	₹ 1,77,842.00
ii) Performance guarantee	a) 5% of Tendered Value or Estimated Cost Put to Tender (ECPT) (whichever is higher) b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.
iii) Security deposit	2.5% of Tendered Value
SCHEDULE 'F'	
GENERAL RULES & DIRECTIONS:	
Officer inviting tender	Executive Engineer -Sambalpur, CPWD, Sambalpur (Odisha) or successor thereof.
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2(c)	As per Clause 12 mentioned below
Definitions:	
2(vi) Engineer-in-Charge	i) Executive Engineer- Sambalpur, CPWD, Sambalpur (Odisha) or his successor.
2(viii) Accepting Authority	Executive Engineer- Sambalpur, CPWD, Sambalpur or successor thereof.
2(x) Percentage on cost of materials and labour to cover all overheads and profits:	15%
2(x)(b) Standard Schedule of Rates	1.DSR-2023 (Civil works) with correction slip(s) issued upto the Base Date.
2(xi) Department	Central Public Works Department i.e. CPWD
9(ii) Standard CPWD Contract Form	General Conditions of Contract-2023(Construction Work), CPWD Form 7 as amended upto the Base Date.
Clause 1	
(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.		07 days	
(ii) Maximum allowable extension with late fee at 0.1% per day of performance guarantee amount beyond the period provided in (i) above		03 days	
Clause 2			
Authority for fixing compensation under clause 2		Superintending Engineer-Rourkela, CPWD, Rourkela or successor thereof.	
Clause 5			
Time allowed for execution of work:		06 (Six) Months	
Number of days from the date of issue of letter of acceptance for reckoning date of start		7 days	
Table of Milestones		As given herein later	
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.
All parts	Portion without any hindrance	The full site for the work is available.	Full Site is available from Day 1
Schedule of issue of designs & drawings including those for E&M works		The architectural and structural drawings shall be made available at the time of commencement of work as per approved programme chart. For any additional drawings/details, if required so by the Contractor, the Contractor shall inform the same to the Engineer-in-charge at least 30 days in advance of the concerned stage of construction so that work progress does not get hampered due to such details/drawings/clarifications.	
Clause 5.1 (iv)	Recovery to be made in case of failure to submit Time and Progress chart within stipulated time	Rs. 5,000/-	
Authority to decide rescheduling of Milestones		Superintending Engineer-Rourkela, CPWD, Rourkela or Successor thereof.	
Authority to convey the decision of Shifting of Milestones		Executive Engineer-Sambalpur, CPWD, Sambalpur or Successor thereof.	
Shifting of date of start in case of delay in handing over of site		Superintending Engineer-Rourkela, CPWD, Rourkela or Successor thereof.	
Authority to decide extension of time		Executive Engineer-Sambalpur, CPWD, Sambalpur or Successor thereof.	
Clause 6		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		For Civil work: Rs. 10 Lakh	

Clause 7A Whether Clause 7A shall be applicable		Yes Applicable No Running Account Bill shall be paid for the work till the applicable labour licenses, Registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-in-charge.	
Clause 8 Competent Authorities to inspect and issue part/final completion certificate		There will not be any part completion. Only Final Completion Certificate will be issued by: 1) If the ECPT is more than Rs. 10 Crore, the Superintending Engineer-Rourkela or his successor 2) If the ECPT is less than Rs. 10 Crore, the Engineer-in-Charge of the major component after recording of final completion certificate by the Engineer-in-charge of the minor component.	
Clause 8A			
Authority		Executive Engineer-Sambalpur, CPWD, Sambalpur or Successor thereof	
Limit		Rs.10,000/-	
Clause 10A List of testing equipments to be provided by the contractor at site		As per Table-1 given herein later.	
Clause 10 B (ii) Whether clauses 10 B (ii) shall be applicable		Not Applicable	
Clause 10C Components of labour expressed as percent of value of work:		Applicable. Components of labour expressed as percent of value of work: a) Civil Component: 25%	
Clause 10CC		Not Applicable	
A. For construction Period		Applicable	
Sl. No.	Relevant components of Material/ Labour for Price Escalation	Percentage of Total Value of Work	
1	Component of Cement		
2	Component of Labour		
3	Civil Component of Other Construction Materials		
4.	Electrical and Mechanical (E&M) Components of Construction Materials		
5	POL (Diesel Component)		
6	Reinforcement steel bars / TMT bars / Structural Steel (including strands & cables)		
	Total		
Clause 11			
Specifications to be followed for execution of work		Civil Work: CPWD Specifications- 2019 (Vol-I & Vol-II) with correction slips issued upto the Base Date will be followed in general and where CPWD specification is silent, relevant BIS codes shall be followed.	
BIM is applicable and BIM professional to be deployed by the Contractor		Not Applicable	

Clause 12					
Type of work			Construction Work		
12.2 (c) Deviation limit beyond which clauses 12.2(c) shall apply for building work. For all items of the work			100%		
Clause 16 Competent authority for deciding reduced rates.			Superintending Engineer-Rourkela, CPWD, Rourkela or successor thereof.		
Clause 18 List of mandatory machinery, tools & plants to be deployed by the contractor at site			As per Table-2 given herein later.		
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					
Cl. 25.1 Conciliator			SDG-Kolkata, CPWD, Kolkata or successor thereof.		
Cl. 25.2 Arbitrator Appointing Authority			Superintending Engineer-Rourkela, CPWD, Rourkela or successor thereof.		
Cl. 25.7 Place of Arbitration			Sambalpur (Odisha)		
Clause 32					
Requirement of technical representative(s) and recovery rate (Civil & Electrical)					
Sl. No.	Requirement of Technical Staff		Minimum experience (Years)	Designation of Technical Staff	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 32
	Qualification	Number (of major + minor component)			
1	Graduate Engineer Or Diploma Engineer	1	2 or 5, respectively	Project Planning/ Quality/ Billing Engineer	Rs. 15,000/- per month per person

Note:

1) Executive Engineers/Assistant Engineers retired from Government services who are holding Diploma will be treated at par with Graduate Engineers.

2) 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.

3) Technical staff for Minor Component (i.e for E&M work) may not be required from the beginning of the project and shall be deployed as per instruction of Engineer-in-Charge of minor component at required stage.

4) ~~Minimum recovery for not deploying Building Information Model (BIM) professional shall be Rs. Two lakh per month.~~

Clause 38			
(i)	(a)	Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of “Delhi Schedule of Rates” as mentioned in this NIT	
(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

Table for Milestones (Ref. Clause 5 of GCC)

Sl No.	Description of mile stone	Period for completion from date of start in days/ months	Withheld amount for nonachievement of mile stone.
1	Site cleaning, Mobilisation of materials, 30% of scope of work except finishing work.	2 months	1.5%
2	Completion of all RCC work and Brick work upto total height of boundary wall	4 months	2%
3	Completion of all items as per BOQ and handing over to client	6 months	1.5 %

*** Note: Level 1 means Ground Floor Roof Slab. Accordingly, Level 2 means First Floor Roof Slab and so on.**

(TABLE-1)

(Ref. Clause 10A of GCC)

Equipments for Testing of Materials at Site Laboratory

As per requirement of work and direction of Engineer-in-Charge

All necessary equipment for conducting all necessary tests shall be provided at the site in the well-furnished site laboratory of minimum 25 sqm area by the contractor at his own cost. The following minimum laboratory equipments shall be set up at site office laboratory: -

Sl. No.	Equipment	Numbers (Minimum)
1.	Cube testing machine - 100MT compression testing machine, - manually operated	1
2.	Slump cone	2
3.	Graduated glass measuring cylinder	As per requirement
4.	Sets of sieves for coarse aggregate	2
4.	Sets of sieves for fine aggregate	2
6.	Cube moulds size 150mmx150mmx150mm	6
7.	Electronic balance 100 kg	1
8.	Physical balance weight upto 5kg	1
9.	Measuring jars 100ml, 200ml, 500ml	3 Nos. each
10.	Any other equipment for site tests as outlined in BIS and as directed by the Engineer-in-charge.	As per requirement

Note:

1. A site laboratory with temporary structure of minimum 25 sqm area may be fabricated at site by the contractor for accommodating above instruments and for conducting of various tests for which no extra payment shall be made to the contractor.
2. One sample keeping room of minimum area of 20 sqm should also be fabricated at site for keeping various material brought by the contractor at site and approved by the Engineer-in-charge. No extra payment on account of this shall be made to the contractor.

(TABLE-2)**(Ref. Clause 18 of GCC)****LIST OF MANDATORY MACHINERY, TOOLS & PLANTS TO BE DEPLOYED BY THE CONTRACTOR
AT SITE**

As per requirement of work and direction of Engineer-in-Charge

Sl. No.	Equipment	Numbers (Tentative)
1.	Excavator cum loader (JCB 3D model or equivalent).	1 No.
2.	Needle Vibrators.	2 Nos
3.	Reinforcement cutting machine.	2 Nos
4.	Concrete Mixer	1 No.
5.	Water Tanker	1 No.
6.	Tractor with trolley	1 No.

ANNEXURE -I**Form of Bank Guarantee for Earnest Money Deposit/Performance Guarantee/Security
Deposit/Mobilization Advance****On non judicial stamp paper of minimum Rs. 100.****(Guarantee offered by Bank to CPWD in connection with the execution of contracts)
Form of Bank Guarantee for Earnest Money Deposit/Performance Guarantee/Security
Deposit/Mobilization Advance**

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

OR**

Whereas the Executive Engineer (name of division)CPWD on behalf of the President of India (herein after called "The Government") has entered into an agreement bearing number with(name and address of the contractor) (herein after 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 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:

1.

Signature.....

Name and address

2.

Signature.....

Name and address

Authorized signatory

Name:

Designation:

Staff code no:

Bank seal:

* Date to be worked out on the basis of validity period mentioned in this NIT.

** 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**

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 is days, will be reckoned from (**...days as mentioned in Schedule F of NIT**) 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

Annexure-III**Sample letter for Commencement of works**

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

Annexure-IVDECLARATION ABOUT SITE INSPECTION

To,

The Executive Engineer
CPWD,Division

Subject: _____ NIT No. _____ for the work of
“.....”

Dear Sir,

It is hereby declared that as per **CPWD-6 for e-Bidding**, I/we the bidder 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 circumstance 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 specially 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 made myself /ourselves aware of the scope and specification 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)

Annexure-V

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

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

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

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

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

Signature of Notary with Seal

~~Signature of Bidder(s) or an
authorized person of the Firm
with stamp, name and
designation and date~~

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

1.0 SPECIAL CONDITIONS

1.0 General

1.1 Specifications & Order of preference:

- 1.1.1 Except for the items, for which Particular Specifications are given or where it is specifically mentioned otherwise in the description of the items in the schedule of quantities, the work shall generally be carried out in accordance with the “CPWD Specifications 2019 Vol. I & II”, additional / Particular Specifications, Architectural / structural drawings and as per instructions of Engineer-in-Charge.
- 1.1.2 The several documents forming the tender are to be taken as mutually complementary to one another. Detailed drawings shall be followed in preference to small scale drawings and figured dimensions in preference to scaled dimensions.
- 1.1.3 If there is 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, Special Conditions and Additional conditions, if any.
 - (iii) Drawings.
 - (iv) CPWD Specifications.
 - (v) General conditions of contract for CPWD works.
 - (vi) Indian Standard Specifications of B.I.S.
 - (vii) Manufacturers’ specifications & as decided by Engineer-in-Charge.
 - (viii) Sound Engineering practices.
 - (viii) Decision of Engineering in Charge
- 1.1.4 In the event of any variation/ discrepancy in the drawings, specifications and tender documents etc. the decision of the Engineer-in-charge shall be final binding and conclusive on the contractor and in the case the contractor have any doubt and the same should be got clarified immediately from the Engineer-in-charge and no claim of the contractor shall be entertained thereafter. Moreover, the agency is not allowed to take benefit out of any clerical/ grammatical mistake in the standard clauses/Schedule of Quantities/Specifications etc. being used in the agreement

1.2 Scope:

- 1.2.1 The works to be governed by this contract shall cover delivery and transportation up to destination, safe custody at site, insurance, erection, testing and commissioning of the entire works.
- 1.2.2 The works to be undertaken by the contractor shall inter alia include the following:
- i. Preparation of detailed SHOP drawings and AS BUILT drawings wherever applicable.
 - ii. Obtaining of Statutory permissions wherever applicable and required.

- iii. Pre-commissioning tests as per relevant standard specifications, code of practice, Acts and Rules wherever required.
 - iv. Warranty obligation for the equipment and/or fittings/fixtures supplied by the contractor.
- 1.2.3 Contractor shall provide all the shop drawings or layout drawings for all the co-ordinated services before starting any work or placing any order for any of the services etc. These shop drawings/layout drawings shall be got approved from Engineer-in-charge before implementation and this shall be binding on the contractor. The contractor shall submit material submittals along with material sample for approval of Engineer-in-charge prior to delivery of material at site.
- 1.2.4 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.

1.3 Deployment of Technical staff & skilled labour:

- 1.3.1 The quality of work is of paramount importance. Contractor shall have to engage well experienced skilled labour and deploy modern T&P and other equipments to execute the work to provide the desired quality.

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 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 to complete the work with quality and in stipulated time limit. The Project Manager, Site Engineer along with all technical staff of the contractor should have experience in similar nature of work as mentioned in the clause 32 of the GCC, and they shall always be available at the site during execution of work.

1.4 Removal of Machinery, Tools & Equipment:

- 1.4.1 Removal of machinery, tools & equipment shall be allowed to be moved away from the site only when, in written opinion of Engineer-in-Charge, the same are no longer required at site of work.

1.5 Soil conditions of site:

- 1.5.1 Contractor(s) shall study the soil and satisfy himself about complete characteristics of soil and other parameters at site. No claim whatsoever on account of any discrepancy between the sub-surface strata conditions that may be actually encountered at the time of execution of the work and those given in soil report, in-accuracy or interpretation thereof shall not be entertained from the Contractor under any circumstances. The ground water table is in variable condition and it may vary from time to time.

1.6 Site condition:

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

1.7 Precautionary measures:

- 1.7.1 Temporary barricading shall be provided at Site by the contractor at his own cost. The barricading physically defines the boundaries of the plot for restricted entry to only those involved in the work and also to prevent any accident and also not causing any inconvenience to the traffic. The barricading panels shall be painted and “CPWD” mark should be made in suitable size, shapes and number as directed by Engineer-in-charge without any extra cost. It shall be dismantled and taken away by the contractor after completion of the work at his own cost with the permission of Engineer-in-charge.
- 1.7.2 Contractor shall take all precautionary measures to avoid any damage to adjoining property. All necessary arrangement shall be made at his own cost. The contractor shall take all precautions to prevent his workmen and employees from removing and damaging any Flora (plant/vegetation) from the campus/site.
- 1.7.3 The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night, speed limit boards, red flags, red lights and providing barriers. He shall be responsible for all damages and accidents caused to work due to negligence on his part. No hindrances shall be caused to traffic during the execution of the work. In case of any accident of the labours/ contractual staff, the entire responsibility will rest on the contractor and any compensation under such circumstances, if becomes payable, shall be entirely borne by the contractor.
- 1.7.4 The contractor, his authorized representative, workmen etc. shall strictly observe orders pertaining to fire precautions prevailing in the area.
- 1.7.5 The Contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupants of the adjacent properties and to the public in general. The Contractor shall take all care, as not to damage any other adjacent property or other services running adjacent to the plot. If any damage is done, the same shall be made good by the Contractor at his own cost and to the entire satisfaction of the Engineer-in-Charge. The Contractor shall use such methodology and equipments for execution of the work, so as to cause minimum environmental pollution of any kind during construction, to have minimum construction time and minimum inconvenience to road users and to the occupants of the buildings on the adjacent plot and public in general, etc. He shall make good at his own cost and to the entire satisfaction of the Engineer in Charge any damage to roads, paths, cross drainage works or public or private property whatsoever caused, due to the execution of the work or by traffic brought thereon, by the Contractor. Further, the Contractor shall take all precautions to prevent any pollution of streams and waterways. All waste or superfluous materials shall be carried away by the Contractor, entirely to the satisfaction of the Engineer-in-Charge. Utmost care shall be taken to keep the noise level to the barest minimum so that no disturbance as far as possible is caused to the occupants / users of adjoining buildings. No claim what so ever on account of site constraints mentioned above or any other site constraints not specifically stated here, shall be entertained from the Contractor. Therefore, the

Contractors are advised to visit site and get firsthand information of site constraints. Accordingly, they should quote the rate in the tender. Nothing extra shall be payable on this account.

1.8 General cleanliness of the site and Stacking & Storage of Materials:

- 1.8.1 The site of work shall be always kept clean in general strictly adhering to approved job layout and green building parameters. The Contractor shall take all care to prevent any water-logging at site. The waste water shall not be allowed to be collected at site. It may be directly pumped into the public drainage system with prior approval of the concerned authorities. For discharge into public drainage system, necessary permission shall be obtained from concerned authorities after paying the necessary charges, if any, directly to the authorities. The work shall be carried out in such a way that the area is kept clean and tidy. All the fees/charges in this regard shall be borne by the Contractor. Nothing extra shall be payable on this account.
- 1.8.2 The contractor shall take instructions from the Engineer-in-Charge regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, compound wall, services etc. are to be constructed.
- 1.8.3 For construction works which are likely to generate malba / rubbish, contractor shall dispose of malba, rubbish & other unserviceable materials and wastes at his own cost to the notified/specified dumping ground and under no circumstances these shall be stacked / dumped even temporarily, outside the construction premises.
- 1.8.4 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.

1.9 Lab Equipment:

The contractor shall provide at his own cost suitable weighing, surveying and levelling and measuring arrangements as may be necessary at site for checking. All such equipments shall be got calibrated in advance from laboratory, approved by the Engineer-in-Charge. Nothing extra shall be payable on this account. A site laboratory with the minimum equipments as specified in NIT shall be established, made functional and maintained within 21 days from the award of the work without any extra cost to the department.

1.10 Setting Out

- 1.10.1 The contractor shall establish, maintain and assume responsibility for grades, lines, levels and bench marks. He shall report any errors or inconsistencies regarding grades, lines, levels, dimensions 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.
- 1.10.2 In order to set the alignment of buildings / foundations and to mark the same on the ground, the agency is to adopt "total station" surveying method. The agency is to engage a well versed and well experienced surveyor in "total station" survey. Nothing extra for this total station survey is payable

If at any time, any error in the respect of setting out appears 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.

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

- 1.10.3 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 instructions and satisfaction of the Engineer-in-Charge.
- 1.10.4 The Contractor shall carry out survey of the work area at his own cost, setting out the layout of building in consultation with the Engineer-in Charge & proceed further. Any discrepancy between the architectural drawings and actual layout at site shall be brought to the notice of the Engineer-in-charge. It shall be responsibility of the Contractor to ensure correct setting out of alignment. Total station survey instruments only shall be used for layout, fixing boundaries, and centre lines, etc., along with the modolites. Nothing extra shall be payable on this account.
- 1.10.5 Contractor shall provide permanent bench marks, flag tops and other reference points for the proper execution of work and these shall be preserved till the end of work. All such reference points shall be in relation to the levels and locations, given in the Architectural and plumbing drawings.

1.11 Temporary Water, Electricity & Telephone Connections:

- 1.11.1 The contractor shall make his own arrangements for water including boring of tube wells etc. if necessary and for electricity by obtaining electric connections and by providing diesel generators of adequate capacity if required and make necessary payments directly to the State Govt. departments concerned. Necessary approval shall be taken by the contractor from the ground water department for boring of tube wells. Nothing extra shall be paid on these accounts. Contractor shall get the water tested from laboratory approved by the Engineer-in-charge at regular interval as per the CPWD Specifications. All expenses towards collection of samples, packing, transportation except testing charges etc. shall be borne by the contractor. The contractor shall obtain environmental and pollution clearance for the diesel generators. Nothing extra shall be paid on this account.
- 1.11.2 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 / firefighting 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.

- 1.11.3 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.
- 1.11.4 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. Security deposit for the work shall be released only after **No Dues Certificates** are obtained from the local Authorities from whom temporary electric/ water / telephone connection have been obtained by the Contractor. Nothing extra shall be payable on this account.
- 1.11.5 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 & electrical supply shall be made by the Contractor commencement and smooth progress of the work so that work does not suffer on account of power failure or disconnection or not getting connection at all. No claim of any kind whatsoever shall be entertained on this account from the Contractor. Nothing extra shall be payable on this account.

1.12 Architectural and structural Drawings:

- 1.12.1 **Architectural drawings and structural drawings will be issued based on the approved work programme and requirement of the work. For any additional drawings, Contractor is obligated to place his demand for drawings/details at least 30 days in advance to the Engineer-in-Charge so that work progress is not hampered. If Contractor fails to raise its demand for drawings/details in advance as said, no hindrance on this account shall be considered.**
- 1.12.2 The information and site data shown in the drawings and mentioned herein and also elsewhere in the tender documents are being furnished for general information and guidance only. The department shall not bear responsibility for lack of such knowledge and also the consequences thereof. The Engineer-in-charge in no case shall be held responsible for the accuracy thereof or any interpretation/ or conclusions drawn there from by the contractor.
- 1.12.3 Drawings/Details, if not provided already by the Department, shall be provided in phases to the Contractor as and when asked so by the Contractor, for which the Contractor has to give notice to Engineer-in-charge at least 30 days in advance.
- 1.12.4 **Shop Drawings/working drawings:** - Contractor to note clearly that the necessary working/shop drawings for all the works as listed below will have to be prepared by the Site

Engineers/architects/concerned vendors of the Contractors based on the basic drawings/instructions provided by department and/or as per actual site conditions. These drawings shall be submitted by the Contractor well in advance to the Engineer-in-Charge to obtain approval and actual work shall be executed strictly as per the approved drawings and/or instructions of Department.

- a) External/internal Painting 3D view showing various colour options/painting shades
- b) Aluminium/UPVC windows, glazings, etc. shop drawings showing sections/profiles, type, etc.
- c) External development works like sewer line, storm water drain network, water distribution line
- d) Plumbing drawings alongwith sanitary/fixture details/drawings for Bathrooms, toilets, kitchen, etc. and all other places as per scope of work
- e) Site development works drawings with layout, levels, etc. for roads, pavement, etc.
- f) Any other work of this nature as per instructions of the Engineer-in-charge.

No extra cost or time shall be given to the Contractor for this work and it will be assumed as included in the overall scope of the works and quoted rates by the Contractor.

1.13 Scaffolding & Staging:

- 1.13.1 Wherever required for the execution of work, all the scaffolding shall be provided and suitably fixed, by the contractor. The scaffolding 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.
- 1.13.2 The contractor should submit the shop drawings of staging and shuttering for approval of Engineer-in-Charge before actually commencing the execution of work under the item. Nothing extra shall be payable on this account.

1.14 Co-ordination with other agencies:

- 1.14.1 The Contractor shall conduct his work so as not to interfere with or hinder the progress of the work being performed by other Contractors or by the Engineer-in-Charge. As far as possible, he shall arrange his work and place, so as not to interfere with the operations of other Contractors or shall arrange his work with that of the others, in an acceptable and coordinated manner and shall perform it in proper sequence.
- 1.14.2 Other agencies may also simultaneously execute and install the works and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings, trenches etc. as may be required for such related works (for which inserts, sleeves, brackets, conduits, base plates, clamps etc. shall be available as specified elsewhere in the contract) and the contractor shall fix the same at the time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account.
- 1.14.3 The Contractor shall cooperate with and provide the facilities to the associate-Contractors and other agencies working at site for smooth execution of the work. The Contractor shall –

- (i) Allow use of scaffolding already erected, toilets, sheds etc.
- (ii) Properly co-ordinate their work with the work of other Contractors.
- (iii) Provide control lines and benchmarks to his associate-Contractors and the other Contractors.
- (iv) Provide electricity and water at mutually agreed rates.
- (v) Provide hoist and crane facilities for lifting material at mutually agreed rates.
- (vi) Co-ordinate with other Contractors for leaving inserts, making chases, alignment of services etc. at site.
- (vii) Adjust work schedule and site activities in consultation with the Engineer-in-Charge and other Contractors to suit the overall schedule completion.
- (viii) Resolve the disputes with other Contractor amicably and the Engineer-in-Charge shall not be made intermediary or arbitrator. The contractor shall indemnify the Department against any claim(s) arising out of such disputes.

1.15 Procurement of materials:

- 1.15.1 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.
- 1.15.2 The contractor shall procure the required materials in advance so that there is sufficient time for testing of the materials and approval of the same before use in the work.

1.16 Protection of Existing Services & buildings and Materials:

- 1.16.1 Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services. In case temporary supporting of such services is required to facilitate the work, the same shall be done by the contractor at no extra cost.
- 1.16.2 In case the existing services are to be shifted permanently, then before dismantling the existing services, alternate/diversion of service lines has to be laid by the contractor so that there is no interruption in use of existing services. The contractor has to plan the alternate suitable route for diversion/shifting of service lines and get the same approved from the Engineer-in-Charge before starting shifting of services. Nothing extra shall be paid except the payment of dismantling and laying of new service lines as per conditions of contract.
- 1.16.3 All fossils, coins, articles of value of antiquity, structures and other remains or things of geological or archaeological interest discovered on project location during excavation/construction shall be the property of the Government, and shall be dealt with as per provisions of the relevant legislation. The contractor will take reasonable precaution to prevent his workmen or any other persons from removing and damaging any such article or thing. He will, immediately upon discovery thereof and before removal acquaint the Engineer-in-charge of such discovery and carry out the official instructions of Engineer-in-

charge for dealing with the same, till then all work shall be carried out in a way so as not to disturb/ damage such article or thing.

- 1.16.4 The contractor shall be responsible for the watch and ward / guard of the buildings, safety of all fittings and fixtures including sanitary and water supply fittings and fixtures provided by him against pilferage and breakage during the period of installations and thereafter till the building is physically handed over to the client department. No extra payment shall be made on this account.
- 1.16.5 The contractor shall be fully responsible for the safe custody of materials brought by him/ issued to him even though the materials may be under double lock key system.

1.17 Rates and other conditions for payment:

The rates quoted by the Contractor are deemed to be inclusive of the following--

- 1.17.1 Site clearance, setting out work, profile, establishment of reference bench mark(s), taking spot levels, construction of all safety and protection devices, barriers, barricading, signage, labour safety, welfare & training measures, preparatory works, working during monsoon, working at all depths, height, lead, lift and location etc. until / unless specified otherwise, etc. and any other incidental works required to complete this work. Nothing extra shall be payable on this account. Payment for centring & shuttering, however, if required to be done for floor heights greater than 3.50 m shall be admissible at rates arrived in accordance with clause 12 of the agreement if not already specified.
- 1.17.2 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 it and nothing extra shall be paid except otherwise provided in the items of schedule of quantities.
- 1.17.3 Any legal or financial implications resulting out of disposal of earth shall be sole responsibility of the contractor. Nothing extra over the schedule shall be paid on this account.
- 1.17.4 All labour, material, tools and plants and other inputs involved in the execution of the item.
- 1.17.5 Providing sunk flooring in bath-rooms, kitchen, etc.
- 1.17.6 Performance test of the entire installation(s) before the work is finally accepted.
- 1.17.7 Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been built in the items.
- 1.17.8 The percentage quoted by the tenderer, shall be inclusive of all taxes including GST and levies applicable in respect of this contract shall be payable by the contractor and Department will not entertain any claim whatsoever in respect of the same.
- 1.17.9 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.

- 1.17.10 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 the statutory bodies shall be adhered to, by the contractor, during the execution of work. The Contractor shall also adhere to all traffic restrictions notified by the local authorities. The water charges (for municipal water connection as well as tanker water) shall be borne by the contractor. Also, if the contractor obtains water connection for the drinking purposes from the municipal authorities or any other statutory body, the consequent sewerage charges shall be borne by the contractor. All statutory taxes, levies, charges (including GST, water and sewerage Charges, charges for temporary service connections and / or any other charges) payable to such authorities for carrying out the work, shall be borne by the Contractor. The Contractor shall arrange to give all notices as required by any statutory / regulatory authority and obtain all requisite licenses wherever required and shall pay to such authority all the fees that are required to be paid for the execution of work. He shall protect and indemnify the Department and its officials & employees against any claim and /or liability arising out of violations of any such laws, ordinances, orders, decrees, by himself or by his employees or his authorized representatives. Nothing extra shall be payable on these accounts. The fee payable to statutory authorities for obtaining the various permanent service connections and Occupancy Certificate for the building shall be borne by the Department.
- 1.17.11 Royalty or similar fees, whatsoever, shall be paid by the contractor as per the rules of the Government/local body/statutory authorities on materials such as stone aggregate, coarse or fine sand etc. collected by him for the execution of the work, directly to the revenue authority of the State Government concerned/other concerned authorities. Further, contractor needs to submit proof of submission of full royalty to the State Government or local authority. Nothing extra shall be payable on this account.
- 1.17.12 All ancillary and incidental facilities required for execution of work like labour camp, stores, fabrication yard, offices for Contractor, watch and ward, temporary ramp required to be made for working at the basement level, temporary structure for plants and machineries, water storage tanks, installation and consumption charges of temporary electricity, telephone, water etc. required for execution of the work, liaison and pursuing for obtaining various No Objection Certificates, completion certificates from local bodies etc., protection works, barricading, testing facilities / laboratory at site of work, testing charges as per mandatory tests at stipulated frequency as per CPWD specifications, facilities for all field tests and for taking samples etc. during execution or any other activity which is necessary (for execution of work and as directed by Engineer-in-Charge), shall be deemed to be included in rates quoted by the Contractor. 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.

- 1.17.13 The Contractor shall assume all liability, financial or otherwise in connection with this contract and shall protect and indemnify the Department from any and all damages and claims that may arise on any account. The Contractor shall indemnify the Department against all claims in respect of patent rights, royalties, design, trademarks of name or other protected rights, damages to adjacent buildings, roads or members of public, in course of execution of work or any other reasons whatsoever, and shall himself defend all actions arising from such claims and shall indemnify the Department in all respect from such actions, costs and expenses. Nothing extra shall be payable on this account.
- 1.17.14 The Contractor shall make all necessary arrangements for protecting from rain or likewise extreme weather conditions, the work already executed and for carrying out the further work, during monsoon including providing and fixing temporary shelters, protections etc. Nothing extra shall be payable on this account. Also, no claims for hindrance shall be entertained on this account.
- 1.17.15 In case of flooding of site on account of rain or any other cause and any consequent damage, whatsoever, no claim financially or otherwise shall be entertained notwithstanding any other provisions elsewhere in the contract agreement. Also, the Contractor shall make good, at his own cost, the damages caused, if any. Further, no claims for hindrance shall be entertained on this account.
- 1.17.16 No payment shall be made for any damage caused by fire, 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. The contractor shall maintain all the work in good condition at his own cost till the completion of the entire work.
- 1.17.17 The ESI and EPF contribution on the part of employer in respect of this contract shall be paid by the contractor. These contributions on the part of employer paid by the contractor shall be reimbursed by the Engineer in charge to the contractor on actual basis. The applicable and eligible amount of EPF& ESI shall be reimbursed preferably within 7 days but not later than 30 days of submission of documentary proof of payment which are in order.

1.18 Foreign Exchange:

- 1.18.1 No foreign exchange shall be made available by the Department for importing (purchase) of equipment, plants, machinery, materials of any kind or any other items if required to be carried out during execution of the work. No delay and no claim of any kind shall be entertained from the Contractor, on account of variation in the foreign exchange rate.
- 1.181.2 The contractors have to quote the corresponding imported items in “Indian Rupees” in the Schedule of Quantities which shall include all incidental charges including freight, taxes including GST, import duties, fluctuations in currency rates. No extra payment will be made over and above the quoted rates.

1.19 Tools & Plant:

- 1.19.1 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.

1.20 As Built & Service Drawings:

- 1.20.1 The contractor shall submit completion plans and as-built drawings (4 sets) as required in CPWD Specifications as applicable within thirty days of the completion of the work.

In case, the contractor fails to submit the completion plan and as-built drawings as aforesaid, he shall be liable to pay a sum of **0.1 % of Tendered Value or Rs.50,000/- whichever is more** as may be fixed by the SE-Rourkela or his successor and in this respect the decision of the SE-Rourkela or his successor shall be final and binding on the contractor.

The contractor shall submit completion plans for Internal and External Civil, Electrical and Mechanical Services within thirty days of the completion of the work, provided that the service plans having been issued for execution by the Engineer-in-Charge, unless the contractor, by virtue of any other provision in the contract, is required to prepare such plans.

2.0 RECORDING OF HINDRANCES: -

In addition to the provisions of Clause 5 of GCC of Contract, it is also a term of the Contract that the Contractor agrees the following: -

- 2.1 **No Hindrance register will be maintained at site. Whenever any hindrance comes to the notice of the contractor, he shall at once (and not later than 3 days after occurrence of that hindrance) bring it to the notice of Engineer-in-charge with copy to the Superintending Engineer-Rourkela (or his successor). If no copy/intimation is given to the Superintending Engineer as said above, that hindrance shall not be considered as valid hindrance even if the Contractor sends it to the Engineer-in-Charge.**

- 2.2 **It is the responsibility of the Contractor to apply for Extension of time (EOT) at least 30 days before the stipulated date of Completion/ Extended date of completion (as the case may be) if the Contractor assesses that they will fail to complete the work within stipulated (or extended) time and they need extension of time because of hindrances and/or any other reasons whatsoever. While submitting such EOT, revised work programme chart shall have to be submitted to the Engineer-in-Charge.**

3.0 LABOUR AND SECURITY

- 3.1 No payment shall be made for construction of labour housing.
- 3.2 The Contractor shall display all permissions, licenses, registration certificates, bar charts, other statements etc under various labour laws and other regulations applicable to the works, at his site office.
- 3.3 Contractor should provide his plan for labour huts as per his requirement and get it approved from the Engineer-in-Charge.
- 3.4 The contractors are required to provide such accommodation as it is acceptable to local bodies and nothing extra shall be paid on this account.

- 3.5 Normally contractor shall be allowed to carry out work between 7 AM to 6 PM. However, he may also be allowed to carry out the work beyond 6 PM & upto 7 AM, if the site conditions / circumstances so demand with prior written permission from the Engineer-in-charge. However, if the work is carried out in more than one shift or at night, no claim on this account shall be entertained.
- 3.7 In case if a separate entry has been allowed, the contractor has to make all arrangement for making a separate entry gate and barricading of the working area to segregate/separate the same from other areas. All these have to be done by the contractor at his own cost including safeguarding any untoward incident in the restricted area due to separate entry gate and barricading arranged by the contractor. No extra amount on this account shall be payable by the department.
- 3.8 In the event of any restrictions being imposed by the Security agency, CPWD, Traffic 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 such accounts. The loss of time on these accounts, if any, shall have to be made up by augmenting additional resources whatever required. Nothing extra shall be payable on this account.

4.0 FACILITY FOR DEPARTMENT: -

- 4.1 The contractor shall make arrangement for Helmets and leather shoes (meant of construction work at sites) for all field staff of the department during the entire period of construction for safety reasons. One helmet and two pairs of shoes per staff member (maximum 5 members) of the departments per year shall be arranged by the contractor.

5.0 DOCUMENTATION

The Contractor shall render all help and assistance in documenting the total sequences of this project by way of photography, slides, audio / video recording & other records etc. Nothing extra shall be payable to Contractor on this account. However, cost of photographs, slides, audio / video graph etc. shall be borne by the Department. The original films shall be the property of the Department. No copy shall be prepared without the prior approval of the Engineer- in – Charge.

6.0 WORK PROGRAMME CHART AND PROGRESS CHART: -

In addition to the provisions of Clause 5 of GCC of Contract, following are also to be complied by the Contractor: -

- 6.1 The contractor shall submit a Work Programme Chart for each mile stone. **The work programme shall include all details of balance drawings and decisions required to complete the contract with specific dates by which these details are required by contractor without causing any delay in execution of the work.** 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.
- 6.2 **Submission of Construction Programme by the Contractor is mandatory and non-submission of the same by the contractor/delay in submission of Construction**

Programme even after notice by the Engineer-in-Charge within 7(seven) days will constitute a material breach of Contract by the Contractor, for which the Contractor shall be liable to pay Rs. 5000/- per day delay for submission of the programme chart without any notice by the Engineer-in-charge. In addition to all such penal actions, Engineer-in-Charge may also initiate action under Clause 3 of GCC or any other actions under provisions of Contract,

6.3 The approval by the Engineer-in-charge of such programme shall not relieve the contractor of any of the **obligations** under the contract.

6.4 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 stipulated in Clause 5 of GCC and Schedule “F” shall be made.

Also, it is a term of the Contract that the Contractor shall submit all issues, pending drawings, decisions, claims, whatsoever, with this Progress Chart each month (in addition to any such issues the Contractor submitted through letters in the preceding months), failing which it will be considered that Contractor has no such pending issues/claims. For avoidance of doubt, it is a term of the Contract that mere such submissions/intimations of the issues/claims by the Contractor or silence thereto such claims/issues by the Department shall not mean that the Claims/issues are admitted by the Department and all such claims/issues shall be considered separately by the competent authority of the department on merit as per terms of the Contract.

6.5 The program chart should include the following: -

- a) Descriptive note explaining sequence of various activities.
- b) BAR CHARTS prepared in mutually agreed software or in other format decided by Engineer-in-charge which will indicate resources in financial terms, manpower and specialized equipment for every important stage.
- c) Program for procurement of materials by the contractor.
- d) Program for arranging and deployment of manpower both skilled and unskilled so as to achieve targeted progress.
- e) Program of procurement of machinery / equipment having adequate capacity, commensurate with the quantum of work to be done within the stipulated period, by the contractor. In addition, to the above to achieve the progress of work as per programme, the contractor must bring at site adequate shuttering material required for cement concrete and RCC works etc. The contractor shall submit shuttering schedule adequate to complete the structure work within the laid down physical milestones.
- f) Programme for achieving milestones.

6.6 The submission for approval by the Engineer-in-charge of such programme or such particulars shall not relieve the contractor of any of the duties or responsibilities under the contract. This

is without prejudice to the right of Engineer-in-charge to take action against the contractor as per terms and conditions of the agreement.

7.0 PROJECT REVIEW MEETINGS:

The contractor, immediately (at least within 7 days) on award of work shall submit details of his key personnel to be engaged for the work at site to the Engineer-in-Charge. In addition, he shall furnish the Engineer-in-charge detailed organization involved with the work. The contractor shall present the programme and status at various review meetings as required.

Review Meetings: The Contractor shall inform in writing within 7 days of award of work to the Engineer-in-Charge of Major & Minor Component and the NIT Approving Authority (i.e. SE-Rourkela or his successor) the names of the Key Personnel who are authorized person for this Contract and who will attend the Review Meetings to be taken by Senior Officers of CPWD. Review meetings shall be held regularly and shall be attended by such Key Personnel without fail. Failure to submit such names within 7 days or even after a notice by the Engineer-in-Charge within further 7 (seven) days shall render the Contractor to pay a sum of Rs. 1000/- for each day delay.

8.0 ENGAGING SPECIALISED AGENCIES FOR WORKS: -

8.1 The Contractor shall engage specialized agencies having adequate technical capability and experience of having executed at least one work of similar items for executing the following items of the work and/or any other items of work where specialized firm is required to be engaged as per contract conditions.

8.2 The Specialized agency for the work shall be got approved from the Engineer-in-Charge well before actual commencement of the item of work. The contractor shall submit the list of specialized agencies proposed to be engaged by him along with their technical capability and necessary performance certificates, within 30 days of the stipulated date of start to substantiate technical capability and experience of the agency for prior approval of the Engineer-in-Charge.

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

9.0 SAFETY MEASURES

9.1 The issue of construction safety & standards has gained utmost importance in recent times. This subject is to be dealt with in an integrated manner with an approach to developing and establishing a safety culture at work sites. Broadly, its components are:

- (i) Creating awareness.
- (ii) Education.
- (iii) Training.

- (iv) Implementation.
- (v) Enforcement measures.

All workers of contractor and associate agencies, invariably and at all the times, must follow all safety norms, adopt safe construction practices and use all required safety gadgets in their working throughout the project duration.

The contractor shall issue **Photo Identity Cards** with unique numbers containing salient information of workers for the labour & his staff. The Contractor shall monitor and achieve the objectives of construction safety continuously, progressively and through affirmative action, and shall oversee implementation of safety program over the entire construction period.

9.2 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.

9.3 Sign Boards

- I. Contractor shall provide and erect a display board of size and shape as required and paint over it, in a legible and workman like manner, the details about the salient features of the project, as required by the Engineer-in-Charge. The Contractor shall fabricate and put up a sign board in an approved location and to an approved design indicating name of the project, client / owner, architects, structural consultants, Department etc. besides providing space for names of other Contractors, Associate contractors and specialized agencies. Nothing extra shall be payable on this account.
- II. A display board shall be kept at site which would list the names of workers, teams and agencies following safety program in the best manner. This would be updated weekly.
- III. Necessary protective and safety equipments shall be provided to the Site Engineer, Supervisory staff, labour and technical staff of the contractor by the Contractor at his own cost and 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.

10.0 LIMITATIONS OF LIABILITY:

- i) It is a term of the Contract that under no circumstance, Department shall be liable to Contractor for loss of use of any Works, loss of profit, loss of overheads, loss of any contract or for any direct, indirect and/or consequential loss/damage, which may be (or is likely to be) suffered by the Contractor in connection with the extension of time, termination of contract, reduction in scope or any other event, whatsoever, related to or

arising out of this Contract.

- ii) Unless otherwise stated specifically in this Contract, it is also a term of the Contract that no Interest of any kind what so ever including Interest on withheld money, any amount determined as payable as per clause of Contract, Interest on Arbitral Award to the extent of pre-award and pendent lite interest shall be payable to the Contractor.

11.0 INSPECTION OF WORKS:

- a) In addition to the provisions of relevant clauses of the contract, the work shall also be open to inspection by SE-Rourkela or successors and other senior officers of CPWD, Authorities of Client Department, in addition of the Engineer-in-charge & his authorized representatives and Team of Third Party Quality Assurance engaged for the work. 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.
- b) The committee/consultant appointed by CPWD, shall be inspecting the works including workshops and fabrication factory to ensure that the works in general being executed according to the design, drawings and specifications laid down in the contract. Their observations shall be communicated by CPWD engineering staff and compliance is to be reported to CPWD. The committee/consultant appointed by CPWD shall certify on completion of particular building that it has been constructed according to the approved drawings design and specifications.
- c) Senior Officers of CPWD, Dignitaries from Central Ministry / Department, State Government and Client Department Authorities shall be inspecting the on-going work at site at any time with or without prior intimation. The contractor shall, therefore, keep updated the following requirements and detailing: -
 - (i) Display Board showing detail of work, weekly progress achieved with respect to targets, reason of shortfall, status of manpower, wages being paid for different categories of workers.
 - (ii) Entrance and area surrounding to be kept cleaned.
 - (iii) Display layout plan key plan, Building drawings including plans, elevations and sections.
 - (iv) Upto date displays of programme chart (Bar charts).
 - (v) Keep details of quantities executed, balance quantities, deviations, possible Extra item, substituted Item etc.
 - (vi) Keep plastic / cloth mounted one sets of building drawings.
 - (vii) Set of Helmets and safety shoes for safety.

12.0 UNFORESEEN DIFFICULTIES:

Except as otherwise specifically stated elsewhere in the Contract:

- (i) The Contractor shall be deemed to have obtained all necessary information as to risks, contingencies and other circumstances which may influence or affect the Works;
- (ii) By signing the Contract, the Contractor accepts total responsibility for having foreseen all difficulties and costs of successfully completing the Works; and
- (iii) The Contract Price shall not be adjusted to take account of any unforeseen difficulties or costs.

13.0 APPLICABLE PERMITS:

- a) 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 including GST 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.
- b) 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.

14.0 LOCAL BYE-LAWS:

- a) The building 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 and/or as directed by the Engineer-in-Charge and nothing extra shall be paid on this account.
- b) Some restrictions may be imposed by the local police etc. on the working time and for movement of labour, materials etc. the contractor shall be bound to follow all such restrictions/instructions and nothing extra shall be payable on this account.
- c) The contractor shall not stack building material/ malba on the road or on the land owned by any other authority, as the case may be. In case, the Contractor is found stacking the building material/ malba as stated above, he shall be liable to pay the stacking charges as may be levied by local body or authority and also to face penal action as per the rules, regulations and byelaws of the said body or authority. The Engineer-in-Charge shall be at liberty to recover the 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 or Retention Money in respect of this contract or any other contract.

15.0 FINAL TESTING OF THE INSTALLATION:

The Contractor shall demonstrate trouble free functioning of all the Civil and E & M installations and services. The Engineer-in-Charge or his authorized representatives shall carry out final inspection of the various Civil and E & M services and installations. Any defect(s) noticed during demonstration shall be rectified by the Contractor at his own cost to the entire satisfaction of the Engineer-in-Charge. Nothing extra shall be payable on this account.

16.0 DE-WATERING:

- (i) 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 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 for all the operations described in this paragraph.
- (ii) 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.
 - a. 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.
 - b. The Contractor shall make all necessary arrangements for protecting from rains, fog or likewise extreme weather conditions, the work already executed 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.
 - c. In case of flooding of site on account of rain or any other cause and any consequent damage, whatsoever, no claim financially or otherwise shall be entertained notwithstanding any other provisions elsewhere in the contract agreement. Also, the Contractor shall make good, at his own cost, the damages caused, if any. Further, no claims for hindrance shall be entertained on this account.
 - d. The contractor will take reasonable precautions to prevent his workman and employees from removing and damaging any flora (plant/vegetation) from the project area.

17. ROAD & SPACE

- a. **The contractor shall at his own expense and risk arrange land for accommodation of labour, setting up of office, the storage of materials, erection of temporary workshops,**

construction of approach roads to the site of the work including land required for carrying out of all jobs connected with the execution & completion of the work. If during construction, it becomes necessary to remove or shift the stored materials shed workshop, access roads, etc, to facilitate execution of any other work by any other agency, the contractor shall carry out the removal of shifting as directed by the Engineer – in – charge and no claim whatsoever, shall be entertained on this account.

- b. The site shall be handed over on as is where is basis and it shall be deemed that the contractor has satisfied himself as to the nature and location of the work, transport facilities, availability of land for setting up of camp, etc. **The department will bear no responsibility for lack of such knowledge & the consequences thereof.**

PART B

1.0 QUALITY ASSURANCE/TESTING OF MATERIALS

- 1.1 **Contractor shall do all the mandatory tests at stipulated frequency mentioned in CPWD Specifications (Vol-I & II) and costs of such tests and all associated expenditure shall be borne by the Contractor. If Engineer-in-Charge instructs the Contractor to carry out any additional tests beyond the provisions of CPWD Specifications, the same shall be done by the Contractor promptly and only the testing charges for such tests shall be reimbursed to the Contractor on actual basis if the materials pass the tests.**
- 1.2 Samples of materials required for testing shall be provided free of charge by the contractor for all tests. The contractor shall provide at his own cost suitable weighing and measuring arrangements at site for checking the weight / dimension as may be necessary. The sealed samples are to be handed over to the testing lab (approved by Engineer-in-charge) by the contractor in the presence of representative of Engineering in charge. **All expenditure to be incurred for testing of samples, materials, etc. e.g., packaging, sealing, transportation, loading, unloading etc. including testing charges (as mentioned in Sl. No. 1.1 above) shall be borne by the Contractor.**
- 1.3 With each Running Bill, the details of tests carried out vis-à-vis required as per mandatory frequency shall be submitted by the contractor.
- 1.4 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.
- 1.5 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.
- 1.6 **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 by contractor with representative of the Engineer in Charge. All the assistance shall be provided by the contractor.
 - (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 representative of the Engineer in Charge.

(iv) All the entries in the registers will be made by the designated Engineering Staff of the contractor and same should be regularly reviewed by Engineer in Charge or his representative.

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

- 1.7 **Some mandatory tests as mentioned above can be carried out at Field Laboratory set up by the Contractor. However, for tests for which facility is not available at field laboratory, the same shall be got done through outside approved laboratory as mentioned herein.**

All Govt. Institutes, Indian Institute of Technology, National Institute of Technology, Central and State funded laboratories stands approved. No approval is required for testing in these laboratories/institutes. However, the outside private laboratories shall be approved in the following manner: -

1. The SDG, Kolkata or Successor will approve the private lab irrespective of distance for tests accredited by NABL or any other similarly placed accrediting government body which operates in accordance with ISO/IEC 17011 and acridities labs as per ISO/IEC 17025.
2. A lab will have to submit details of space available, equipments, staff (Technical and Non-Technical), accreditation and approval from various department/institutes. Lab must be NABL approved.
3. Initial approval of lab should for one year and can be revalidated for further one year and so on.
4. Every lab will be audited for maintenance and calibration of equipment and employment of staff prior to approval/revalidation.

However, testing of material in any Govt., Lab / Public Undertaking Lab / IIT or NIT Lab / Govt. Engineering College may be allowed by Executive Engineer provided these labs have all necessary facility to carry out the required tests.

Also, for mandatory tests for which field-testing equipment is available at site laboratory, 10% of the total tests shall be done at the approved outside laboratories by the Contractor, for which no extra payment shall be made to the Contractor.

Also, the Contractor shall be solely responsible for obtaining the Test Results/Mix Design Reports/Job Mix etc. from the approved outside Laboratories in time and no delay/hindrane shall be considered on this account for extension of time.

- 1.8 Ultrasonic pulse velocity test shall be conducted on all RCC columns and at least 5% of the total number of other RCC members in each category i.e. beam, slab and footing for ensuring quality of concrete as per directions of Engineer- in charge. The cost of the same shall be borne by the contractor.
- 1.9 Water tanks, taps, sanitary, water supply & drainage pipes, fittings & accessories should conform to bye-laws of local body/corporation, where CPWD specifications are not available. The Contractor (s) should engage approved, 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 submit for the approval of the

Engineer-in-Charge, the name of the plumbing agency (along with their working experience in recent past) proposed to be engaged by him.

- 1.10 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.
- 1.11 In addition to the supervision of work by CPWD engineers, the Architects deployed by the Client/CPWD, CPWD Quality Control/ Assurance Team and Third-party Quality Control/ Assurance Team shall also be carrying out regular and periodic inspection of the ongoing activities in the work and deficiencies, shortcomings, inferior workmanship pointed out by them shall be communicated by CPWD engineers to the contractor. Upon receipt of instructions from Engineer in Charge these are also to be made good by necessary improvement, rectification, replacement upto his complete satisfaction. Special attention shall be paid towards line and level of internal and external plastering, exposed smooth surface of RCC members by providing fresh shuttering plates, rubberized linings to all the shuttering joints, accurate joinery work in wooden doors and windows, thinnest joints in stone/ tiling / cladding work, non-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.
- 1.12 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 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.

1.13 FIELD LABORATORY

The contractor has to establish within 30 days from the award of work a field laboratory at site including all necessary equipments and skilled manpower for the **Field Tests as indicated in the bid document** at his own cost to have proper quality control. **Rs.5,000/- per day shall be recovered from the contractor for any delay beyond the specified period. If contractor fails to establish lab within additional period of 15 days, the Engineer in charge shall initiate action as deemed fit under relevant clauses of the agreement.**

For performing the above tests, the **Field Testing Equipments and Instruments as indicated in the tender document** are to be arranged and maintained by the contractor at his own cost.

- 1.14 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.
- 1.15 The list of Laboratory/ Field equipment referred above is to be arranged and maintained by the contractor at the site of work. In case the equipment required for any test is not available at site, the department shall get the test conducted from the third party. However, in that event, besides providing free materials of sample, the cost of taking of sample, packing, transportation, testing charges etc. shall be borne by the contractor irrespective of the results.
- 1.16 **If the Contractor does not provide adequate supporting staff or labour or both or if the Contractor does not take due diligence for carrying out field tests or collecting and forwarding samples to outside laboratory or for maintaining test records, Engineer-in-Charge may carry out field tests or collect and forward sample to outside laboratory or appoint any person to maintain the registers at risk and cost of Contractor. The charges so incurred shall be entirely borne by contractor and shall be deducted from Running or final bill of contractor. Further, recovery of Rs. 5000/-, for each such default shall be levied to contractor, after affording one chance with 7 days notice to the Contractor for compliance, and final decision on levy of recovery of the Engineer-in-Charge in this regard shall be final, binding and not-arbitrable.**
- 1.17 **Design Mix of Concrete/Job Mix for Bituminous Road: Contractor shall arrange for Design Mix of Concrete/Job mix for bituminous road (as required as per Contract) done and approved from any of IITs, NITs of India, Central/State Govt. Engineering College of India. Design Mix of Concrete shall be done on the basis of IS 10262:2009, IS 456. Contractor shall bear all the costs of such mix designs/job mix, etc. including transport of samples/ materials to laboratories/institutes. Contractor shall be solely responsible for obtaining the approved Mix Design/Job Mix Report from the above institutes in time and no delay/hindrance shall be considered on this account for extension of time.**
- 1.18 **SAMPLE OF MATERIALS: -**
 - 1.18.1 All materials and fittings brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work. If a particular brand of material is specified in the item of work in Schedule of Quantity, the same shall be used after getting the same approved from Engineer-in-Charge. Wherever brand / quality of material is not specified in the item of work, the contractor shall submit the samples as per **List of Preferred Makes given in the tender document** for approval of Engineer-in-Charge. For all other items, ISI Marked materials and fittings shall be used with the approval of Engineer-in-Charge. Wherever ISI Marked material / fittings are not available, the contractor shall submit samples of materials / fittings manufactured by firms of repute conforming to relevant Specifications or IS codes for the approval of Engineer-in-Charge.
 - 1.18.2 The Contractor shall procure and provide all the materials from the manufacturers / suppliers as per the Preferred Make 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, prior approval of NIT Approving Authority to be taken and the decision 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 NIT Approving Authority.

- 1.18.3 To avoid delay, contractor should submit samples as stated above well in advance so as to give timely orders for procurement. If any material, even though approved by Engineer-in-Charge/other authority as per Contract, is found defective or not conforming to specifications shall be replaced / removed by the contractor at his own risk & cost. Samples including brand / quality of materials and fittings to be used in the work shall be got approved from the Engineer-in-Charge, well in advance of actual execution and shall be preserved till the completion of the work.
- 1.18.4 BIS marked materials except otherwise specified shall also be subjected to quality test besides testing of other materials as per the specifications described for the item/material. Wherever BIS marked materials are brought to the site of work, the contractor shall, furnish manufacturer's test certificate or test certificate from approved testing laboratory to establish that the material procured by the contractor for incorporation in the work satisfies the provisions of specifications relevant to the material and / or the work done.

BIS marked items (except cement & steel for which separate provisions have been made) required on the work shall be got tested, for only important tests, which govern the quality of the product, as decided by the Engineer-in-Charge.

2. 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.
- d) The cement shall be brought at site in bulk supply of approximately 50 tonnes or more as decided by the Engineer-in- Charge.
- e) The 1 No cement godowns, of the capacity to store a minimum of 2000 bags of cement shall be constructed by the contractor at site of batching plant for which no extra payment shall be made. In addition, 1No cement godown of required capacity (minimum 500 bags) has to be constructed at site to take care of day to day requirement.
- 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 2019 for Construction Works and shall be governed by conditions laid there in. In case the cement consumption is less than theoretical consumption including permissible variation, work shall liable to be rejected. In case of excess consumption no adjustment need to made.
- 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.
- k) In case cement is brought at site/cement store in a lot of lesser quantity of 50 MT, testing charges shall be borne by the contractor even if cement passes in test results.

3.0 CONDITIONS FOR STEEL REINFORCEMENT

- i. The contractor shall procure **ISI marked TMT Bars** of appropriate grade from the steel manufacturer from the ‘**List of Preferred Makes for Civil Works**’ and further confirming to the OM No. CSQ/SE(TAS)/Steel/2024/262(H) dt:14.08.2024 and No. CSQ/SE(TAS)/Steel/2024/85-(H) dated 09.04.2025. 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 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 away as to prevent their distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
- 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 than 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 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.

4.0 Execution of specialized civil works:

- 4.1 Contractor has to execute the specialized works by engaging approved specialized agencies meeting the eligibility criteria mentioned below for specialized items of works. Contractor after executing these specialized works through its approved 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 Sample forms of these guarantee bonds to be executed by both contractor and specialized agency are given herewith.
- 4.2 ~~The various specialized items of works and minimum eligibility criteria in respect of civil component are as under. Approval of the specialized agencies for each specialized work shall be obtained from the the Engineer in Charge before start of the particular specialized work.~~

Specialized Work	Estimated cost (In lakh)	Minimum eligibility Criteria	Bond period
Water proofing work	3.57 Lakh	The main contractor shall have to associate with agency fulfilling the following eligibility criteria having successfully completed during last seven years 7 years ending last day of the month previous to the one in which tenders are invited as given below with completion certificate issued by an officer not below the rank of Executive Engineer or equivalent duly attested. i) One similar completed work of value not less than 80% of estimated amount of this subhead. OR ii) Two similar completed works each of value not less than 60% of estimated amount of this subhead. OR iii) Three similar completed works each of value not less than 40% of estimated amount of this subhead. Similar work shall mean "Cement based water proofing roof treatment for any Central/State Government/PSU Buildings".	10 years

~~Note: The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum calculated from the date of completion to last date of submission of tender.~~

- 4.3 ~~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.~~

- 4.4 ~~10% (Ten percent) of amount of actual 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 15 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.~~
- 4.5 **Approval of the specialized agencies for each specialized work shall be obtained from the respective Engineer in Charge before start of the particular specialized work. Even if, such specialized items of work shall be executed by the specialized agencies, the work shall be deemed to be executed by the Contractor for all purposes and the responsibility of the quality of items of works executed etc. shall continue to be that of the Contractor only.**

**GUARANTEE BOND TO BE EXECUTED BY THE CONTRACTOR
FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT
OF WATER-PROOFING WORKS
(All Water - Proofing Items)**

Note: Similar format shall be developed and signed for other specialized works as per instructions of Engineer-in-Charge

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 building 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/leak proof for (10) **Ten years** from the date of completion of work.

NOW THE GUARANTOR hereby guarantees that work executed by him will render the structures completely leak proof and the minimum life of such water proofing treatment shall be **(10) Ten years** to be reckoned from the date after the expiry of maintenance period prescribed in the contract.

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

During this period of guarantee, the guarantor shall make good all defects and in case of any defect being found render the building water proof to the satisfaction of the Engineer-In-Charge 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 water proofing or commits breach thereunder, then the guarantor will indemnify the principal and his successor against all loss, damage, cost expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and / or cost incurred by the Government, the decision of the Engineer-in-charge will be final and binding on both the parties.

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

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

1. 2.
.....

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

1. 2.
.....

5.0 PREFERRED MAKE OF MATERIALS (FOR CIVIL WORKS)

NOTE: -

- 1) A List of Preferred Brands of Various Materials / Products are given below for usage in execution of Work. **Contractor must obtain approval of brand/makes and corresponding samples of materials from the Engineer-in-Charge before the same are used in the work.**
- 2) Other than the brands/makes mentioned in the Preferred Makes, equivalent brands/makes of the materials may also be used, in case it is established that the Brands specified below are not available in the market or because of some exigency, whatsoever, and **subject to approval of the alternate Brand/Makes by Engineer-in-Charge.**
- 3) 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 Engineer-in -Charge shall be obtained before use of such materials in the works.
- 4) Materials which are not mentioned in above list but required at site, shall be supplied with prior approval of Engineer-in-Charge. Materials not required at site as per scope of work, but mentioned in the list may not be considered.
- 5) The list given below does not absolve the Contractor from their responsibility for using these Brands/Makes. It is only after they are satisfied about the quality and performance, the Brands/Makes shall be used. To achieve this, proper check on the quality of the product, actually to be used, should be exercised.

LIST OF PREFERRED MAKES		
S.No.	Material	Preferred Makes/ Brands/Manufacturer
1	Portland Pozzolana Cement	Ultratech / JK Laxmi Cement /Jindal/JSW/NUVOCO
2	White Cement	BIRLA WHITE/J.K WHITE
3	TMT Bars	TATA TISCON / SAIL/ RINL/JINDAL STEEL & POWER LTD
4	Parallel Threaded Couplers	DEXTRA/G-TECH/SANFIELD
5	Re-barring Chemical	HILTI/3MINDIA
6	Structural Steel	TATA/ JINDAL STEEL/SAIL/RINL
7	Plasticizer, Super Plasticizer, Admixtures, Other construction chemicals	M.C. BAUCHEMIE /FOSROC/ SIKA/BASF/PIDILITE/CRYSO/ECMAS /STPLIMITED/BERGER/ASIAN
8	AAC Block	ULTRATECH/ AEROCON / BILTECH/ JKLAXMI/MAGICRETE/XTRALITE/ KON CRETE, JOYOUS/EXCEL/FIRSTBUILD
9	AAC Block Adhesive	ULTRATECH / FERROUS CRETE / BALENDURA/ AEROCON / J K LAXMI /SIKKA BLOCK JOINTING MORTAR/ FAST BUILT
10	Polymer modified Cementous grout	BAL ENDURA / WEBER / MYKLATICRETE/FERROUS-CRETE
11	List of RMC producers	ULTRATECH /SHRI GANESH 738/ ACC / LAFARGE(NUVOCO)/L&T

12	Curing Compound	FOSROC/SIKA/PIDILITE /STP/CICO /BASF
13	Expansion Joint-modular	HERCULES / Z-TECH / SANFIELD/ KANTAFLEX (INDIA) PVT. LTD.
14	Shuttering Ply	MERINO/ GREENLAM / CENTURY/ ARCHIDPLY/SYLVAN PLY

WATERPOOFING

1	Waterproofing Self Adhesive (HDPE)Membrane	GRACE / FOSROC / MYK SCHOMBURG/ STP LIMITED/ ULTRATECH
2	Single Component Liquid PU Elastomeric Membrane (spray applied) for Deck Waterproofing	BASF / SIKA / FOSROC/ MYK SCHOMBURG/ GRACE / STPLIMITED/ FERROUS CRETE/ASIAN/ ULTRATECH
3	Waterproofing Compound (Crystalline)and Swellable Bar	XYPEX / KRYTON / PENETRON /BASF/SIKA/FOSROC /MYK SCHOMBURG / GRACE/VENDEX /STPLIMITED/ FERROUS CRETE/ ULTRATECH
4	Polymeric Cementitious Coating	BASF / FOSROC/ GRACE/ STP/PIDILITE/ ULTRATECH
5	Elastomeric Acrylic UV resistant liquid applied coating	BASF/ FOSROC/ SIKA / GRACE /STPLIMITED/ASIAN/ ULTRATECH

DOOR, WINDOWS & WOODWORK

1	Laminated Particle Board / Particle board / Laminates /Plywood	MERINO/ GREENLAM/CENTURY/ARCHIDPLY /EUROPLY/SYLVAN PLY
2	Veneered Particle Board	MERINO/DURO/GREENLAM
3	SS Mesh	GKD /WMW
4	Flush door shutters	GREENPLY/ ARCHIDPLY / DURO / MERINO / CENTURY/ SWASTIK/ SYLVAN PLY
5	Glasswool Insulation	UPTWIGA/POLYGLASS/LLOYDS/OWENSCORNING
6	Rock Wool Insulation	LLOYDS/ROXUL ROCKWOOL
7	Polycarbonate Sheet	GE LEXAN/DANPALON/GALLINA
8	Decking Steel sheet	TATASTEEL/LLOYDS /JSW
9	Natural wood veneer	SONEAR / GREEN PLY / TRUWOOD /ARCHID/MIKASA
10	Anti-static high-pressure laminate	FORMICA/BAKELITEHYLAM/DECOLAM MERINO/KITMICA/MIKASA
11	Fire Sealant	HILTI/3M INDIA/FISCHER
12	PVC & UPVC doors, frames and windows	Fenesta/Encraft/LG/Sintex/ Aluplast/Duroplast/ Rajshri
13	WPC Frames and Shutters	Polyline/Qute/Rajshri/Alstone

FINISHING

1	Melamine Polish	ASIAN PAINTS/PIDILITE INDUSTRIES/DULUX/BERGER
2	Polyester Powder Coating Shades	NEROLAC/BERGER/AKZONOBEL
3	Wall Putty	BIRLA WHITE/JK WHITE
4	Oil Bound Washable Distemper	ASIAN PAINTS/BERGER/NEROLAC /ICI/AKZONOBEL DULUX
5	Acrylic Distemper	BERGER/ASIAN/DULUX/NEROLAC
6	Cement Primer	BP WHITE(BERGER)/DECO PRIME WT(ASIAN)/NEROLAC/AKZONOBEL(DULUX)

7	Steel/Wood Primer	AKZONOBEL(DULUX)/NEROLAC / BERGER / ASIAN PAINT
8	Adhesives	ANCHOR / DUNLOP / PIDILITE-FEVICOL
9	Premium paints Acrylic Emulsion	DULUX AKZONOBEL/ NEROLAC /ASIAN PAINTS /BERGER
10	Textured Exterior Finish	DULUX AKZONOBEL/ NEROLAC /ASIAN PAINTS /BERGER
11	Synthetic Enamel Paint	DULUX AKZONOBEL/ NEROLAC /ASIAN PAINTS /BERGER
12	Epoxy Paint	AKZONOBEL(DULUX)/NEROLAC /ASIANPAINTS/ICI/BERGER
13	Fire Paint	ASIAN PAINT/ BERGER PAINTS/SHALIMAR /JOTUN/AKZONOBEL
14	Gypsum Plaster	FERROUS CRETE /ULTRATECH /INDIA GYPSUM /GYPROC
15	Cement Plaster based Ready Mix	FERROUSCRETE /ULTRATECH/SAINT GOBAIN
16	Pre-Cast GR CJaali	UNISTONE/KERAKROMEGR
17	Polysulphide sealant	FOSROC / SIKA / TUFFSEAL / PIDILITE / WACKER/ DOW CORNING / GE/ STP/ASIAN PAINTS / FERROUS CRETE
18	Silicone / Weather Sealant	WACKER / DOW CORNING / GE
19	Wall Paper	EGO, VESCOM, ASIAN PAINTS, MURASPEC, MARSHALLS
20	Vinly Graphic	3M, AVERY DENNISON, LUMAR
STEEL & ALUMINIUMWORKS		
1	Stainless Steel	SALEM STEEL/JINDAL ALLOYS /SAIL
2	Dash/Anchoring Fasteners	HILTI / FISHER / BOSCH / AXEL / WUERTH
3	Anodised Aluminium Hardware (Heavy Duty)	HARDIMA/ALUALPHA/PULSEOFLGF SYSMAC/HINDALCO/EVERITE
4	Aluminium Structural Members – Windows, Glazing and Partitions	JINDAL/HINDALCO /NALCO /INDALCO
5	Stainless Steel Railing and Accessories etc (Grade SS304)	OZONE/GEZE/KICH/DORMA/HETTICH
6	G.I Steel door frame	SYNERGY THRISLINGTON /SHAKTIMET /NAVAIR
FALSE CEILINGS		
1	Gypsum Board and fixing systems	SAINT GOBAIN GYPROC / INDIA GYPSUM /USG BORAL
2	Metallic / Wooden Modular False Ceiling and fixing systems	ARMSTRONG/DURLUM/USG BORAL/AEROLITE DIAMOND CEILING/ HUNTER DOUGLAS
3	Acoustical Tile False ceiling and fixing systems	ARMSTRONG / SAINT GOBAIN/HUNTER DOUGLAS/USG BORAL/ DIAMOND CEILING
4	Calcium silicate ceiling tiles/Board and fixing systems	AEROLITE/HILUX/ DIAMOND CEILING

5	Aluminium Composite Panel	ALUCOBOND / ALPOLIC/ALUDECOR/REYNOBOND
6	Acrylic Solid Surfaces	HANEX /L.G-HIMAC /DUPONT
FLOORING/WALL TILES		
1	Glass Mosaic Tiles	BISAZZA, MRIDUL, OPIO, PALLADIO, ITALIA GLASS
2	Floor & Wall Tiles: Ceramic tiles	KAJARIA/SOMANY/RAK/NITCO
3	Floor & Wall Tiles: Vitrified tiles	KAJARIA/SOMANY/RAK/NITCO
4	PVC Flooring	ARMSTRONG/TARKETT/LG HAUSYS
5	Laminated flooring	ACTION TESA/PERGO
6	Engineered stone - Marble /Quartz	ASIAN / JOHNSON / KALINGA /QUTONE
7	Chequered Tiles, Paver Block & Kerb Stone	OVILITE / UNISTONE /HINDUSTAN/KK/ULTRA/DALALTILE S/NITCO/ GAVA
8	Tile/Stone Adhesive/Tile Grout	PIDILITE/ FERROUSCRETE
9	Floor hardener	PIDILITE/FOSROC / SIKA / IRONITE / FERROK /HARDONITE /FERROUS CRETE
10	Epoxy Flooring	FOSROC / SIKA / CICO / LATICRETE /BASF/ FERROUS CRETE
11	Heat Resistant Tiles	THERMATEK/NATIONAL/THERMAX/JOHNSON INDURA
12	FloorTrap (Rectangular)	JAYNA/CHILLI /NIRALI
13	Cool Roof Tiles	KAJARIA / SOMANY / RAK /H&R JOHNSON
14	Granite	(SHADE) MYSORE GOLD/Z- BROWN/LAKHA RED/JET-BLACK
GLAZINGS		
1	Glazing Structural / Suspended /Skylight/clear/float/frosted/	SAINT GOBAIN/PYROGUARD/ASAHI
2	Clear / Float / Frosted Glass /Mirror	ASAHI/MODIGUARD/SAINTGOBAIN
3	Glass Spider Fittings	DORMA/HAFELE/OZONE
4	Toughened Glass/Hermetically sealed performance glass	SAINT GOBAIN / MODIGUARD/ASAHI/SCHOTT
HARDWARE		
1	Nuts /Bolts &Screws	GKW /HILTI/ATUL
2	Clamp system for dry stone cladding	HILTI/FISCHER/BOSCH/AXEL
3	Hinges & Brassware	EARLBIHARI/KICH/ ASSA-ABLOY/HAFELE/GEZE/DORMA// BACKEN / KICH.
4	MDF Board	NUWOOD/DURATUFF
5	Accessible Toilet	JAQUAR/CERA/KOHLAR/HINDWARE

6	All type of stainless-steel hardware and fitting for all type of glazing / doors/windows etc. including mortise latch & lock, ball bearing butt hinges, friction stay hinges, lever handle, magic eye, door closer etc.	DORMA/ HAFELE / GEZE /BACKEN/HETTICH/ HELIX
7	Toilet Cubicles	MERINO/GREENLAM/DORMA
8	Hardware for Fire Check Door/panic bar/panic trim/door closer/hinges/mortise lock/ dead lock etc	DORMA/GEZE /HAFELE /BACKEN
9	EPDM Gasket	HANU/ANAND /OSAKA
PLUMBING & SANITARY		
1	HDPE/DWC pipes	JAIN/KAISTA/RELIANCE/ ALOM
2	Polypropylene pipes	REHAU / POLOPLAST / HULIOT /ASTRAL
3	GI Pipes	JINDAL(HISAR)/TATA/SURYA PRAKASH
4	GI Fittings	UNIK/ZOLOTO/SURYA
5	DI Pipes	ELECTROSTEEL (VEDANTA) /JINDAL/TATA DUCTURA
6	DI Fittings	ELECTROSTEEL (VEDANTA) /KALINGA/TATA DUCTURA
7	CI Double flanged sluice valve	KIRLOSKAR/SONDHI/KEJRIWAL
8	Float Valve	LEADER/ZOLOTO/KSB
9	Centrifugally Cast (Spun) Iron Pipes & Fittings	JAYSWALNECO/RIF/SKF/RPMF
10	Centrifugally Cast (Spun) Iron (Class LA) Pipes/Hub less Cast Iron Pipes	JAYSWAL NECO / ELECTRO STEEL /TATA
11	CI Manhole covers, Frames &GI Gratings	JAYASA WAL NECO/RIF/SKF
12	SFRC Manhole Covers & Gratings	KK/OCR/PARGATI /T-CON
13	Stoneware Pipes and Gully Traps	PERFECT /PARRY/BURN/ANAND/ RK / HIND
14	RCC Manhole covers &Frames	KKMANHOLE/GRATING CO.(P)LTD
15	Gun Metal Valves, Globes	ZOLOTO/CASTLE/KARTAR
16	Sanitary CP Fittings &Accessories	JAQUAR/ROCA/KEROVIT
17	Vitreous Chinaware	HINDWARE/ JAQUAR / ROCA / KEROVIT
18	Water Meter	PRIMA /ZOLOTO / LEADER /CAPSTAN
19	Brass Stop & Bib Cock	ZOLOTO / SANT / L&K / LEADER /ASTRAL
20	UPVC/CPVC Pipe & Fittings	ASTRAL/ SUPREME /FINOLEX /ORIPLAST/FLOWKEM
21	Non-Return Valve (Check valve) and other kind of Valves	ZOLOTO/SANT /LEADER
22	Brass Ferrules	DHAWAN SANITARY UDYOG /KALSI/ANNAPURNA

23	Insulation for hot water pipes	KAIFLEX/ARMAFLEX/CAREFLEX/ LLOYD
24	Insulation for external/exposed Hot water pipes	KAIFLEX/ARMAFLEX/CAREFLEX
25	Pipe protection for external Water supply pipes	PYPKOTE / ARMAFLEX /MAKPOLYKOTE
26	Stainless Steel Sink	NEELKANTH/NIRALI/CERA/JAYNA/KINGSTON
27	RCC Pipes	LAKSHMI/SOOD & SOOD/JAIN&CO. /PRAGATICONCRETE/ Any other ISI mark makes with prior approval of Engineer-in-charge
28	Precast RCC Cover	AMON TILES/ Any other ISI mark makes with prior approval of Engineer-in-charge
29	Bitumen	Indian Oil, Hindustan Petroleum, Bharat Petroleum

Part-C

Drawings

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Part-D

Schedule of Quantities

(Civil)

<u>GENERAL ABSTRACT</u>			
Name of Work: Construction of Boundary wall Covering Agriculture field of CCBF, Chiplima, Sambalpur. (Phase-I)			
SH	Description		Amount (Rs.)
1	Earth Work		564802.89
2	Concrete Work		501932.20
3	Reinforcement cement Concrete work		5012958.16
4	Masonry work		207094.29
5	Finishing Work		1229260.80
6	Non schedule item		1208961.22
	Total		8725009.55
	Total MR Items Civil	1208961.22	
	Add Cost Index @5.06% on DSR 2023 Items	7516048.00	380312.00
	Total (Civil)		9105321.55
	Add Correction Factor 0.973 on DSR 2023 Rate	7896360.33	7683158.60
	Total Civil+MR Items		8892119.82
	Say		8892120.00

Abstract of Cost						
Name of Work: -		Construction of Boundary wall Covering Agriculture field of CCBF, Chiplima, Sambalpur. (Phase-I)				
		SH: - 2 Earth Work				
Item No	DSR-23	Description of Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1.1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, for all lift including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m				
1.1.1	2.8.1	All kind of soil.	Cum	1020.60	260.30	265662.18
1.2	2.9	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.				
1.2.1	2.9.1	Ordinary work of above	Cum	103.90	632.95	65763.51
1.3	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lift	Cum	1190.70	196.00	233377.20
					Total=	564802.89
		SH:-4 Concrete Work				
2.1	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
2.1.1	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	77.00	6518.60	501932.20

					Total=	501932.20
		SH:-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	225.00	9045.75	2035293.75
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 source: 3 graded stone aggregated 20mm nominal size derived from natural source)	Cum	5.29	10852.95	57412.11
3.3	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
3.3.1	5.9.1	Foundations, footings, basis of columns, etc. For mass concrete	Sqm	353.00	392.15	138428.95
3.3.2	5.9.6	Columns, Pillars. Piers, Abutments, Postas and struts	Sqm	796.00	961.30	765194.80
3.3.3	5.9.5	Lintels, beams, Plinth beams, girders, bressummers and cantilevers.	Sqm	352.00	736.40	259212.80
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 Treat bars of grade Fe-500D or more.	Kg	15623.00	107.85	1684940.55
3.5	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				

3.5.1	5.22A.6	Thermo-Mechanically Treat bars of grade Fe-500D or more.	Kg	672.00	107.85	72475.20
					Total=	5012958.16
		SH:-4 Masonry Work				
4.1	6.32	Brick work with clay fly ash F.P.S. (non modular) brick of class designation 7.5 in superstructure above plinth level up to floor five level in :				
4.1.1	6.32.2	Cement mortar 1:6 (1 cement: 6 coarse sand)	cum	22.77	9095.05	207094.29
					Total =	207094.29
		SH:-13 Finishing Work				
5.1	13.4	12 mm cement plaster of mix:				
5.1.1	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	1029.00	343.65	353615.85
5.2	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
5.2.1	13.5.2	1:6 (1 cement: 6 coarse sand) sqm	Sqm	1029.00	395.35	406815.15
5.3	13.16	6 mm cement plaster of mix :				
5.3.1	13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	300.00	300.45	90135.00
5.4	13.46	Finishing walls with Acrylic Smooth exterior paint of required shade :				
5.4.1	13.46.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 liter/10 sqm)	Sqm	2358.00	160.60	378694.80
					Total=	1229260.80
		NON-SCHEDULE ITEM				
6.1	MR	Brick work with flyash F.P.S. (non modular) brick of class designation 7.5 in foundation and plinth in				
		cement mortar 1:6 (1 cement : 6 Coarse Sand)	CUM	187.34	6453.30	1208961.22
					Total=	1208961.22

PART – F

Proforma for Quoting Rates

NIT No: 12/NIT/EE/SD/CPWD/2026-27					
Name of Work: Construction of Boundary wall Covering Agriculture field of CCBF, Chiplima, Sambalpur. (Phase-I)					
Estimated cost put to Tender				₹ 88,92,120.00	
PERFORMA FOR QUOTING THE RATES					
Name of Contractor					
Sl. No.	Name of component	Estimated cost (Rs.)	Percentage above/ below the Total Estimated Cost	% in figures	Total Cost (Rs.)
1	CIVIL PART	₹ 88,92,120.00			
2	ELECTRICAL PART				
Total Estimated Cost		₹ 88,92,120.00			