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Name of work: - A/R & M/O of various Residential & Non-Residential buildings of CISF Campus, 5th RB Indirapuram, Ghaziabad (UP) during 2026-27 (SH:-Misc. Civil repair works and E&M Works).

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Certified that this NIT contains Page 1 to 122 (Including this page).

NIT approved for Rs. 95,11,432/- (Civil : Rs. 53,11,193/- + E&M : Rs. 42,00,239/-) (Rupees Ninety Five Lakhs Eleven Thousand Four Hundred Thirty Two Only).

Executive Engineer
Kaushambi Division,
C.P.W.D, Ghaziabad

PRESS NOTICE (E-TENDERING)

The Executive Engineer, Kaushambi Division, CPWD, Ghaziabad invites on behalf of the President of India, on line **Percentage Rate Tender** from approved and eligible contractors in appropriate class of CPWD by e-tendering process for the following work:

NIT No:- **05/EE/Kaushambi/NIT/2026-27**

Name of work **A/R & M/O of various Residential & Non-Residential buildings of CISF Campus, 5th RB Indirapuram, Ghaziabad (UP) during 2026-27 (SH:- Civil works and E&M Works).**

Estimated Cost **Rs. 95,11,432/- (Civil : Rs. 53,11,193/- + E&M : Rs. 42,00,239/-)**

Earnest Money **Rs. 1,90,229/-**

Period of Completion **12 (Twelve) Months**

Last date and time of submission of bid **On 15.07.2026 upto 15:00**

The bid forms and other details can be obtained from the website <http://etender.cpwd.gov.in> Press Notice is also available on (URL <http://etender.cpwd.gov.in>).

Note: Not to be printed below this line.

**Executive Engineer,
Kaushambi Division,
C.P.W.D, Ghaziabad**

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e- TENDERING
FORMING PART OF NIT AND TO BE POSTED ON WEBSITE

1. Information and instructions for Contractors will form part of NIT and to be uploaded on ITI website.
2. The intending bidder must have class-III digital signature to submit the bid.
3. The Contractor can deposit **original EMD either in the office of Executive Engineer, Kaushambi Division, CPWD, Krishna Block, NCA-T Campus, Kamla Nehru Nagar, Ghaziabad or division office of any Executive Engineer, CPWD within the period of submission.** The contractor shall obtain the receipt of EMD from the concern Executive Engineer **(including NIT issuing EE/AE)** in the prescribed format uploaded by **Executive Engineer, Noida Central Division, CPWD.** The bid document as uploaded can be viewed and downloaded free of cost by anyone including intending bidder. But the bid can only be submitted after 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 favor of Executive Engineer, Noida Central Division, CPWD copy of receipt of original EMD and other documents specified in the press notice.

Earnest Money can be paid in the form of **Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed) issued by a Commercial Bank** (drawn in favour of **Executive Engineer, Noida Central Division, CPWD** along with bank guarantee of any scheduled bank wherever applicable shall be scanned and uploaded to e-Tendering website within the period of bid submission.

The original EMD should be deposited either in the office of Executive Engineer, Kaushambi Division, CPWD, Krishna Block, NCA-T Campus, Kamla Nehru Nagar, Ghaziabad or division office of any Executive Engineer, CPWD within the period of submission. The EMD receiving Executive engineer shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format uploaded by Executive Engineer, Noida Central Division, CPWD.

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

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

4. Information and instructions for Contractors for e-tendering inviting **open bids** is enclosed as **Annexure - 20A.13.1.**

5. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
6. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
7. On opening date, the contractor can login and see the bid opening process. After opening of bids, he will receive the competitor bid sheets.
8. Contractor can upload documents in the form of JPG format and PDF format.
9. It is mandatory to fill details / upload scanned copies of all the documents **such as** Goods and Services Tax registration as stipulated in the bid document including the copy of receipt for deposition of original EMD. If such document is not uploaded his bid will become invalid.
10. If the contractor is found ineligible after opening of bids, his bid shall become invalid e-tendering processing fee shall not be refunded.
11. If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder the bid shall become invalid and e-tendering processing fee shall not be refunded.
12. 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).

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.

ANNEXURE 20A.13.1

(Amended as per DG/MAN/312 Dated 04-07-2014)
INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING FORMING
PART OF BID DOCUMENT AND TO BE POSTED ON WEBSITE
(Applicable for inviting open bids)

The Executive Engineer, Kaushambi Division, CPWD, Ghaziabad invites on behalf of the President of India, on line **Percentage Rate Tender** from approved and eligible contractors in appropriate class of CPWD by e-tendering process for the following work:

Sr. No.	NIT No.	Name of work & Location	Estimated Cost put to bid	Earnest Money	Stipulated Period of Completion of work	Last date of online submission of bid, copy of receipt of deposit of original EMD and other documents as specified in the bid documents	Date & Time of opening of Bid
1	2	3	4	5	6	7	8
1	05/EE/Kaushambi/NIT/2026-27	A/R & M/O of various Residential & Non-Residential buildings of CISF Campus, 5th RB Indirapuram, Ghaziabad (UP) during 2026-27 (SH:- Civil works and E&M Works).	95,11,432/- (Civil : Rs. 53,11,193/- + E&M : Rs. 42,00,239/-)	Rs. 1,90,229/-	12 (Twelve) Months	Up to 15:00 AM On 15.07.2026	At 15:30 AM. On 15.07.2026

1. The intending bidder must read the terms and conditions of **CPWD-6** carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
2. Information and Instructions for bidders posted on website shall form part of bid document.
3. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the

contract to be complied with and other necessary documents can be seen and downloaded from website <http://etender.cpwd.gov.in> or www.cpwd.gov.in free of cost.

4. But the bid can only be submitted **after depositing original EMD either in the office of Executive Engineer, Kaushambi Division, CPWD, Krishna Block, NCA-T Campus, Kamla Nehru Nagar, Ghaziabad 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 the Executive Engineer, Ghaziabad Central Division, CPWD, Ghaziabad as mentioned in NIT receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/AE) CPWD** and other documents as specified.
5. Those contractors who are not registered or have not updated their profile on the website mentioned above, are required to get registered /update their profile beforehand. The necessary training materials including the videos with step-to-step process are available on download section of <https://etender.cpwd.gov.in>.
6. The intending bidder must have valid class-III digital signature **certificate with the encryption key (combo type) to perform any operations / transactions on the e-tendering portal/ website and the bidder should download and install the eMSigner on their system as per instructions available on download section of <https://etender.cpwd.gov.in>.**
7. On opening date, the contractor can login and see the bid opening process. After opening of bids, he will receive the competitor bid sheets.
8. Contractor can upload documents in the form of JPG format and PDF format.
9. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in **pink** colour and the moment rate is entered, it turns **sky blue**.

In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).

However, if a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section/sub head in Percentage Rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

10. **List of documents to be scanned and uploaded within the period of bid submission.**
 - i. Copy of Account Payee Demand Draft of a Commercial Bank or Banker's Cheque of a Commercial Bank or Fixed Deposit Receipts (FDR) of a Commercial Bank or Insurance Surety Bonds or / and Bank Guarantee (for balance amount as prescribed) from a Commercial Bank against EMD.
 - ii. Copy of receipt for deposition of Original EMD to division office of any Executive Engineer, CPWD i/c Division inviting tender.

- iii. Enlistment order of contractor.
- iv. Certificate of ERP Training.
- v. Copy of PAN Card.
- vi. GST Registration Certificate, if already obtained by the bidder.

If the bidder has not obtained GST registration **as applicable**, then he shall scan and upload following undertaking along with bid documents.

“If work is awarded to me, I/we shall obtain GST registration Certificate, **as applicable**, within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is 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: 1: The Contractor/Agency participating in the Tender shall ensure the uploading of above mandatory documents in eligibility documents/additional documents portal so that the same can be free viewed & examined before opening the part of their financial bid).

FORMAT FOR RECEIPT OF DEPOSITION OF ORIGINAL EMD

<u>Receipt of deposition of original EMD</u> (Receipt No..... /Date.....)
Name of work: A/R & M/O of various Residential & Non-Residential buildings of CISF Campus, 5th RB Indirapuram, Ghaziabad (UP) during 2026-27 (SH:- Civil works and E&M Works). 1. NIT No: 05/EE/Kaushambi/NIT/2026-27 2. Estimated Cost: Rs. 95,11,432/- (Civil : Rs. 53,11,193/- + E&M : Rs. 42,00,239/-) 3. Amount of Earnest Money Deposit: Rs. 1,90,229/- 4. Last date of submission of bid: on 15.07.2026 upto 15:00
1. Name of 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)/AAO) along with office stamp (# to be filled by EMD receiving officer)

CPWD-6 FOR E-TENDERING

Online Percentage Rate tenders are invited on behalf of President of India from approved and eligible contractors of CPWD for the work of **“A/R & M/O of various Residential & Non-Residential buildings of CISF Campus, 5th RB Indirapuram, Ghaziabad (UP) during 2026-27 (SH:- Civil works and E&M Works)”**

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.
 - 1.1 The work is estimated to cost **95,11,432/- (Civil : Rs. 53,11,193/- + E&M : Rs. 42,00,239/-)** This estimate, however, is given merely as a rough guide.
 2. Agreement shall be drawn with the successful bidders on prescribed **Form No. CPWD 7** (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website **www.cpwd.gov.in**. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
 3. The time allowed for carrying out the work will be **12 (Twelve) Months** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
 4. (i) The site for the work will be available in parts as specified as per schedule A to F Clause 5.1.
(ii) The architectural and structural drawings for the work are available.
- OR**
- The architectural and structural drawings shall be made available in phased manner, as per requirement of the same as per approved programme of completion submitted by the contractor after award of work.
5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website **http://etender.cpwd.gov.in or www.cpwd.gov.in** in free of cost.
 6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
 7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
 8. 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 a Commercial Bank (drawn in favour of **Executive Engineer, Noida Central Division, CPWD** shall be scanned and uploaded to the e-tendering website with the period of bid submission. The original EMD should be deposited either in the office of **Executive Engineer, Kaushambi Division, CPWD, Krishna Block, NCA-T Campus, Kamla Nehru Nagar, Ghaziabad** within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by Executive Engineer, Kaushambi Division, CPWD in the NIT.

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

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

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 with in thirty 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 press notice shall be scanned and uploaded to the e-tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder only with physical EMD of the scanned copy of EMD uploaded within a week physically in the office of tendering opening authority.

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

- 9A. The Contractors registered prior to 01.04.2015 on e-tendering portal of CPWD shall have to deposit tender processing fee at existing rates, or they have option to switch over to the new registration system without tender processing fee any time.

The bid submitted shall be opened at **15:30 AM on 15.07.2026**

10. The bid submitted shall become invalid and e tender processing fee shall not be refunded if:

- (i) The bidder is found ineligible.

- (ii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.
 - (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.
 - (iv) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section/sub head in Percentage Rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
11. The contractor whose bid is accepted will be required to furnish performance guarantee (as per schedule-F) of the bid amount within the period specified in Schedule F. This guarantee shall be in the form of **Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed) issued by a Commercial Bank** 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 funds 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. The description of the work is as follows:

“A/R & M/O of various Residential & Non-Residential buildings of CISF Campus, 5th RB Indirapuram, Ghaziabad (UP) during 2026-27 (SH:- Civil works and E&M Works)”

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

stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

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. 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.
16. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Gazetted officer in the Central Public Works Department or in the Ministry of 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.
17. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
18. **The bid for the works shall remain open for acceptance for a period of Thirty (30) Days from the date of opening of tender.**
 - (i) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department within 7 Days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty **to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.**
 - (ii) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 Days after last date of submission of bids, then the Government shall without

prejudice to any other right or remedy, be at liberty **to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.**

- 19.** This notice inviting Bid shall form a part of the contract document. The successful bidders/contractor, on acceptance of his bid by the Accepting Authority shall within 15 Days from the stipulated date of start of the work, sign the contract consisting of:
- a) The Notice Inviting Bid, all the documents including additional conditions, specifications 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.**

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE	U.P.	Zone	Ghaziabad
BRANCH	B & R	DIVISION	Kaushambi Division
REGION	Lucknow	SUB-DIVISION	AE/III

Percentage Rate Tender & Contract for Works

- (A) Tender for the work of: **A/R & M/O of various Residential & Non-Residential buildings of CISF Campus, 5th RB Indirapuram, Ghaziabad (UP) during 2026-27 (SH:- Civil works and E&M Works).**
- (B) To be uploaded by **15:00 on 15.07.2026** to/ upload at **Executive Engineer, Kaushambi Division, CPWD, Ghaziabad.**
- (C) To be opened in presence of tenderers who may be present at **15:30 on 15.07.2026** in the office of **Executive Engineer, Kaushambi Division, CPWD, Ghaziabad.**

T E N D E R

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

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

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

A sum of **Rs. 1,90,229/-** is hereby forwarded the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed) issued by a Commercial Bank as earnest money.

A copy of earnest money deposit receipt of prescribed amount deposited in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed) issued by a Commercial Bank, is scanned and uploaded (strike out as the case may be) If I/We fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said President of India or his successors in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, If I/ We fail to commence work as

specified, I/We agree that President of India or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely, The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

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

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

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

Dated **

Signature of the Contractor

Postal Address ----- **

Telephone No.----- **

Witness:----- **

Address:----- **

Occupation:----- **

FAX ----- **

E-MAIL ----- **

**** To be filled by Contractor**

ACCEPTANCE

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

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

- (a) _____ *
- (b) _____ *
- (c) _____ *

For & on behalf of the President of India

Signature..... *

Dated *

Designation..... *

-*- To be filled by E.E.

PROFORMA OF SCHEDULES

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

SCHEDULE 'A'

Schedule of quantities, as attached in the NIT.

<u>SCHEDULE 'D'</u>	
Extra schedule for specific requirements/ document for the work, if any.	General conditions, Special Conditions, Particular Specifications etc. as attached in tender form

<u>SCHEDULE 'E'</u>	
Reference to General Conditions of contract.	General Conditions of Contract Maintenance Works 2023 for CPWD works (as modified and corrected up to previous day of the last date of submission of the tender.)
Name of Work	A/R & M/O of various Residential & Non-Residential buildings of CISF Campus, 5th RB Indirapuram, Ghaziabad (UP) during 2026-27 (SH:- Civil works and E&M Works).
Estimated cost of work	Rs. 95,11,432/- (Civil : Rs. 53,11,193/- + E&M : Rs. 42,00,239/-)
Earnest money	Rs. 1,90,229/- (to be returned after receiving performance guarantee)
Performance guarantee	(a) 05% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher). (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.
Security deposit	2.5% of tendered value

<u>SCHEDULE 'F'</u>	
GENERAL RULES & DIRECTIONS:	
Officer inviting tender	Executive Engineer, Kaushambi Division, CPWD, Ghaziabad
Price Preference to SC/ST individual contractor is valid Up to	31.12.2025 (As per DG/Manual 2022/14 dated 01.01.2024)

Definitions:	
2(vi) Engineer-in-Charge	Executive Engineer, Kaushambi Division, CPWD, Ghaziabad
2(viii) Accepting Authority	Executive Engineer, Kaushambi Division, CPWD, Ghaziabad
2(x) Percentage on cost of materials and labour to cover all overheads and profits:	15%
2(x)(b) Standard Schedule of Rates	DSR 2023 with up-to-date correction slips issued upto previous day from last date of submission of tender.
2(xi) Department	Central Public Works Department
9(ii) Standard CPWD Contract Form	General Conditions of Contract Maintenance Works 2023 CPWD form 7 as modified and corrected up to previous day of the last date of submission of the tender.
<u>Clause 1</u>	
(i) Time allowed for submission of performance guarantee, programme chart (time and progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance.	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

<u>Clause 2</u>	
Authority for fixing compensation under clause 2	Chief Engineer, Ghaziabad Zone, CPWD, Ghaziabad or successor thereof

<u>Clause 2A</u>	
Whether Clause 2A shall be applicable	Not Applicable

Clause 5	
Number of Days from the date of issue of letter of acceptance for reckoning date of start Mile Stone(s) as per below table:	10 Days

Mile stone(s) as per table given below:			
Mile ston e No.	Description of mile stone (Financial)	Period for completion (from date of start in months)	Withheld amount for non-achievement of mile stone.
1	1/8 th (of the whole work)	1/4 th (of the whole time)	In the event of not achieving the necessary progress as assessed from the running payments, 1.25% of the tendered value of work will be withheld for failure of each milestone.
2	3/8 th (of the whole work)	1/2 th (of the whole time)	
3	3/4 th (of the whole work)	3/4 th (of the whole time)	
4	Full work	Full time	
Note: The withhold milestone will only be released when subsequent milestone is achieved within the specified time.			

Time allowed for execution of work **12 (Twelve) Months**

Authority to decide:

- | | | |
|------|---|---|
| (i) | Authority to convey the decision of shifting of milestone and extension of time | Executive Engineer, Kaushambi Division, CPWD, Ghaziabad |
| (ii) | Authority to decide Rescheduling of mile stones and extension of time | Chief Engineer, Ghaziabad Zone, CPWD. Ghaziabad Or successor thereof |
| (ii) | Shifting of date of start in case of delay in handing over of site | Chief Engineer, Ghaziabad Zone, CPWD. Ghaziabad Or successor thereof |

<u>Clause 5.1</u>			
(a) Schedule of handing over of site			
Part	Portion of Site	Description	Time Period for handing over reckoned from date of issue of letter of intent
Part A	Portion without any Hindrance	30%	03 Days

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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Part B	Portions with Encumbrances	(i) 40% (ii) 30%	After completion of Part A After completion of Part B(i)
Part C	Portions dependent on work of other agencies		NIL
(b) Schedule of issue of Designs;			Not applicable
Part	Portion of Design	Description	Time Period for issue of design reckoned from date of receipt of tenders
Part A	Portion already included in NIT		
Part B-1	Portion of Arch. Drawings to be issued.	Working Drawings	On date of start
Part B-2	Portions of Civil Designs to be issued	Details of Foundation/ column/ Grade Beams/ Plinth Beams/ G.F. & Terrace Slabs/ Beams	On date of start
Part B-3	Portions of E&M Designs to be issued	-	On date of start, if any.

Clause 5.1

Schedule of rate of recovery for delay in submission of the monthly progress report

Rs. 1000/- per week

Clause 5.2

Nature of Hindrance Register (either Physical or Electronic)

Physical

Clause 5.4

Schedule of rate of recovery for delay in submission of the modified programme in terms of delay Days

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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S. No.	Contract Value	Recovery (Rupees)
I.	Less than or equal to Rs 1 Crore	Rs. 500/-
II.	More than Rs 1 Crore but less than or equal to Rs 5 Crore	Rs. 1000/-
III.	More than Rs 5 Crore but less than or equal to Rs 20 Crore	Rs. 2500 /-
IV.	More than Rs 20 Crore	Rs. 5000 /-

CLAUSE 5A

Whether Clause 5A shall be applicable

NOT APPLICABLE

Clause 6

Computerized Measure Book (CMB)/Electronic Measurement Book (EMB)

Mode of Measurement:

Electronic Measurement Book (EMB)

Clause 7

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

Rs. 5.00 Lakh or as per decision of Engineer-in-charge.

Clause 7A

Whether Clause 7A shall be applicable

Yes, Applicable

Clause 10A

List of testing equipments to be provided by the contractor at site lab. :

As required by Engineer in charge & Following equipments to be provided by contractor at site as

- i. Balances
 - a. 7 kg to 10 kg capacity, semi self indicating type – accuracy 10gm
 - b. 5 kg capacity, semi self indicating type – accuracy 1gm
 - c. Pan balance – 5 kg capacity

- ii. Sieve as per IS 460 : 1962
 - a. IS sieves – 450mm internal dia of sizes 100mm, 80mm, 63mm, 50mm, 40mm, 25mm, 20mm, 12.5mm, 10mm, 6.3mm, 4.75mm complete with lid and pan.
 - b. IS sieves – 200mm internal dia (brass frame) consisting of sizes 2.36mm, 1.18mm, 600 microns, 425 microns, 300 microns, 212 microns, 150 microns, 90 microns, 75 microns complete with lid and pan.
- iii. Graduated measuring cylinders 200ml capacity.

The contractor shall have the following field-testing instruments for checking of quality of work at field by him and by the officers of the department -

- i. Steel tapes – 3 metre / 10 metre
- ii. Vernier Calipers (one number – digital)
- iii. Screw gauge (one number – digital)
- iv. Good quality plum bobs
- v. Spirit levels minimum 30cms long with 3 bubbles for horizontal / vertical level.
- vi. Wire gauge (circular type) disc
- vii. Foot rule
- viii. Long nylon thread
- ix. Magnifying glass
- x. Screw driver 30cms long.
- xi. Hammer – 100gms

Clause 10C

Not Applicable

Clause 10CC

Not Applicable

Clause 11

Specifications to be followed for execution of work

CPWD Specifications 2019, Volume-I and II with up-to-date correction slips issued up to previous day of the last date of submission of e-tender (Herein after called CPWD specifications also) and manufacturer's specification wherever applicable.

<u>Clause 12</u>	
Type of work	Maintenance Works
12.3 Deviation, Deviated Quantities, Pricing	All the deviated quantities shall be paid at agreement rates.
However, over all completion cost of agreement shall not exceed 1.25 times of tendered amount.	

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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Clause 16

Competent authority for deciding reduced rates. **Chief Engineer, Ghaziabad Zone, CPWD, Or successor thereof**

Clause 18

List of mandatory machinery, tools & plants to be deployed by the contractor at site: **As per site requirement & direction of Engineer-in-Charge**

Clause 19 C

Authority to decide penalty for each default **Executive Engineer, Kaushambi Division**

Clause 19 D

Authority to decide penalty for each default **Executive Engineer, Kaushambi Division**

Clause 19 G

Authority to decide penalty for each default **Executive Engineer, Kaushambi Division**

Clause 19 K

Authority to decide penalty for each default **Executive Engineer, Kaushambi Division**

Clause 25

<u>Clause 25</u>	
(i) Conciliator	ADG (RL), CPWD or his successor thereof.
(ii) Arbitrator Appointing Authority	Chief Engineer, Ghaziabad, CPWD or his successor thereof.
(iii) Place of Arbitration	Ghaziabad

Clause 32**Requirement of technical representative(s) and recovery rate:**

S. No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical /Technical representative)	Minimum Experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36 (i)	
						Figures	Words
1	Graduate Engineer Or Diploma Engineer	Civil	Project Manager Cum Planning/Quality /Site/Billing Engineer	2 years for Graduate Engineer Or 5 years for Diploma engineer	1 (One) No.	Rs. 15,000 /- per month per person	Rs. Fifteen Thousand per month per person

NOTE:

1. Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers. Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.
2. Diploma holder with minimum 10year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers. Diploma holder with minimum 10year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

Clause- 38

(i)	Schedule/ statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2023 printed by CPWD.	DSR 2023 with up-to-date correction slips up to previous day of last date of submission of tender
(ii)	Variations permissible on theoretical quantities	
(a)	Cement for works with estimated cost put to tender not more than Rs. 25 lakhs	3% plus/minus
	For works with estimated cost put to tender more than Rs.25 lakh	2% plus/ minus

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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(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

PART-B

CIVIL WORKS

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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GENERAL CONDITIONS

- 1.0 The work in general shall be carried out in accordance with the CPWD Specifications 2019 Vol. I & II with up-to-date correction slips.
- 3.0 The order of preference in case of any discrepancy as indicated in condition no. 8.1 under "Conditions of Contract" given in the Standard CPWD Contract form may be read as the following:
 - a) Description of item as per Schedule of Quantities
 - b) Additional specifications, Particular specifications and special conditions for civil and road works.
 - c) General conditions for this works.
 - d) **Contract Clauses of General conditions of contract for CPWD Works 2023.**
 - e) CPWD Specifications for civil works.
 - f) Indian Standard Specifications of BIS
 - g) Sound engineering practice as per directions of the Engineer-in-Charge.
 - h) Manufacturer's specifications.

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

- 4.0 The sample of all the items shall have to be got approved by the contractor from Engineer-in-charge before the supply is commenced.
- 5.0 The contractor shall, if required, furnish the manufacturer's certificate that the materials supplied satisfy the requirements of the relevant specifications.
- 6.0 All the materials brought to the site by the contractor for use in the work as well as fabricated work shall be subject to the inspection and approval by the Engineer-in-charge. The contractor shall be required as directed by the Engineer-in-charge to get necessary tests carried out on materials and works. The samples of the materials shall be provided free of cost by the contractor. All other incidental expenditure to be incurred for testing of samples e.g. Packaging, sealing, transportation, loading, unloading etc. except testing charges for conducting tests as per specification, shall be borne by the contractor.
- 7.0 In case any material is rejected by the Engineer-in-charge, the same shall be removed from the site within 48 hours, failing which the same shall be got removed by the Engineer-in-charge at risk and cost of contractor.
- 8.0 Royalty, Octroi, Terminal Tax or any other taxes/charges etc. at prevalent rates shall have to be paid by the contractor himself and the rates quoted by him shall include these duties and nothing extra on this account shall be payable.

- 9.0** The contractor shall take all safety precautions to avoid accidents by exhibiting caution boards, red flags, red lights and by providing necessary barriers barricading at his own cost and all other measures required from time to time. The contractor shall be responsible for all damages and accidents due to negligence on his part.
- 10.0** The contractor shall give due notices to Municipality, Police and / or other authorities that may be required under the law/ rules under force and obtain all requisite permissions/ licenses for temporary obstructions/ enclosures and pay all charges which may be livable on account of his execution of the work under the agreement. Nothing extra shall be payable on this account.
- 11.0** All materials shall be got checked by the Engineer-in-Charge on receipt of the same at site before use.
- 12.0** The contractor shall carry out his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor (s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed, so as not to interfere with the operations of other contractors, or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of Engineer-in-Charge.
- 13.0** The contractor shall give the Engineer-in-charge on the 4th day of each month, a progress report of the work done during the previous month. The progress of work will be reviewed periodically by the Engineer-in charge with the contractor and shortfalls, if any, sorted out. The contractor shall thereupon take such action as may be necessary to bring back his work to schedule without any additional cost to the department.
- 14.0** **The contractor shall arrange carrying out of all tests required under the agreement through the laboratory as approved by the Engineer-in-Charge. Contractor shall bear all Testing charges, Packing Charges of samples, Carriage from site to Laboratory etc.**
- 15.0** The contractor shall prepare an integrated program chart with mile stones of completion of whole work except day-to-day maintenance. The program chart should include the following: -
- a)** Descriptive note explaining sequence of various activities.
 - b)** Network (PERT/CPM / BAR CHART) in MS Projects or any other approved program by the Engineer-in-charge.
 - c)** Program for procurement of materials by the contractor.

- d) Program of procurement of machinery/ equipments having adequate capacity, commensurate with the quantum of work to be done within the stipulated period, by the contractor.
 - e) If at any time it appears to the Engineer-in-Charge that the actual progress of the work does not conform to the approved program referred above, the contractor shall produce a revised program showing the modifications to the approved program to ensure completion of the work within the stipulated time for completion.
- 16.0** The submission for approval by the Engineer-in-Charge of such program or the furnishing of such particulars shall not relieve the contractor of any or his duties or responsibilities under the contract. This is without prejudice to the right of the Engineer-in-Charge to take action against contractor as per terms and conditions of the agreement
- 17.0** The contractor shall quote his rates considering the specifications; terms & conditions and particular specifications and special conditions etc., and nothing extra shall be payable whatsoever unless otherwise specified.
- 18.0** The contractor shall be responsible for coordinating the activities of all works and essential progress of works as per milestone and laid down program.
- 19.0** The contractor shall be responsible for the watch and ward of the site/ property/ material provided by him against pilferage and breakage during the period of execution and thereafter till the work is physically handed over to the department.
- 20.0** Samples of all building materials, fittings and other materials/ articles required for execution of the work shall be got approved from the Engineer-in-Charge. Materials/ articles manufactured by the Firms of repute as indicated in bid documents and approved by the Engineer-in-Charge shall only be used. Materials/ articles classified, as "First Quality" by the manufacturer shall only be used. All materials and articles brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work.
- 21.0** The contractor shall be required to produce samples of all materials i/c material like sand, stone aggregates & bricks etc. to be arranged and procured by him sufficiently in advance to obtain approval of the Engineer-in-Charge. Subsequently the materials to be used in the actual execution of the work shall be strictly of the same quality of the samples approved. In case of variation in the quality, such materials shall be liable to rejection. The rejected material shall be immediately removed from the site of work by the contractor at his own cost. If the contractor fails to remove the rejected material from the site within 48 hours of their rejection by the Engineer-in-Charge or his authorized representative i.e. AE/ JE the same shall be got removed at the risk and cost of the contractor. No claim financially or otherwise shall be entertained on account of any rejection whatsoever.

- 22.0** The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material or work beyond set out tolerance limits shall be summarily rejected by the Engineer-in-Charge.
- 23.0** The contractor shall require to make a sample flat each for up gradation works for approval of Engineer in charge.
- 24.0** Even ISI marked materials shall be subjected to quality test at the discretion of the Engineer-in-Charge besides testing of other materials as per the specifications described for the item/ material. Whenever ISI marked, materials are brought to the site of work; the contractor shall, if required by the Engineer-in-Charge, furnish manufacturer's test certificate to establish that the material procured by the contractor for incorporation in the work satisfy the provisions of IS Codes relevant to the material and/or the work done.
- 25.0** The contractor shall make his own arrangement of water including boring of tube-wells required for execution of work and nothing extra shall be paid for the same. The water used shall conform to the requirements as laid down in IS: 456-2000. The contractor shall obtain necessary permission from Central Ground Water Board of Govt. of India before actually starting the boring work for a tube well. Nothing shall be paid extra on this account.
- 26.0** The day-to-day receipt and issue accounts of different brands of cement shall be maintained separately in the standard performa by the Junior Engineer/Assistant Engineer-in-charge of the work and which shall be duly signed by the contractor or his authorized representative.
- 27.0** The contractor should maintain the registers for cement, paint, water proofing compound and other materials as required by the Engineer-in-Charge and these should be signed by the contractor or his authorized agent and the representative of the Engineer-in-Charge
- 28.0** The contractor shall make his own arrangements for temporary electric connection, if required and make necessary payment including electric charges for its use direct to the authority concerned. The department will not at all be responsible for making arrangements in these regards. The department will provide all possible assistance by way of reasonable recommendation for obtaining electric connection to the concerned authorities but bears no responsibility for the same. In case local body fails to sanction/provide the electric connection or delays it, the contractor shall make his own arrangement by providing diesel generators of adequate capacity at his own cost.

29.0 The contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupants of adjacent properties and to the public in general and to prevent any damage to such properties and any pollution of smoke, noise, streams and water-ways. He shall make good at his cost and to the satisfaction of the Engineer-in-Charge, any damage to roads, paths, cross drainage works or public or private property whatsoever caused thereon by the contractor. All waste or superfluous materials shall be carried away by the contractor without any reservation entirely to the satisfaction of the Engineer-in-Charge.

30.0 The rates quoted by the contractor are deemed to be inclusive of site clearance, setting out work, profile, establishment of reference bench mark, spot levels, construction of all safety and protection devices, barriers, preparatory works, working during monsoon, working at all depths, heights and locations etc. unless specified in the schedule of quantities

31.0 No inflammable materials including P.O.L. shall generally be allowed to be stored at site. However, reasonable quantity may be permitted for storage subject to the compliance of all rules/ instructions issued by the competent authorities and as per the direction of Engineer-in-Charge.

32.0 Movement of labour and traffic at site

32.1 In the event of any restrictions being imposed by the Security agency, CPWD, Traffic Police or any other authority having jurisdiction in the area on the working or movement of labour /material, the contractor shall strictly follow such restrictions and nothing extra shall be payable to the contractor on this account. The loss of time on this account, if any, shall have to be made up by generating additional resources etc. General Security restrictions are given as under:

- a) The movement of trucks and vehicles shall be regulated in accordance with rules and regulations as approved by competent authority.
- b) The contractor shall inform, in advance, the truck registration numbers, ownerships of the trucks, names and addresses of the drivers for necessary action by the Security agency.
- c) Labour huts /stay of workmen will not be allowed at site.
- d) Names and addresses of labour/ staff etc. working at site shall be furnished for security verification.
- e) The labour / staff should not be changed too frequently once the verification of the character and antecedents is done.

- f) After verification of antecedents of workers, identification badges will be issued to them by the contractor under the seal of the Engineer-in-Charge or his representative. The cost of badges would be borne by the contractor.
- g) As and when there will be security requirements, certain additional restriction (s) can be imposed as per the requirement of the situation.
- h) No claim whatsoever will be entertained by the department on account of any restriction (s) imposed by the security agencies in execution of work including temporary suspension of work due to VVIP movements.
- i) The contractor shall be responsible for behavior and conduct of his labour. No labour with doubtful integrity or having a bad record shall be engaged by the contractor.

33.0 The contractor shall have to engage well experienced skilled labour and deploy modern T&P and other equipments to execute the work. Many items like stone masonry & stone cladding work, stone flooring & other specialized flooring work, wood work, aluminium work, separation joints will specifically require engagement of skilled workers having experience particularly in execution of such items.

34.0 No payment shall be made for any damage caused by rain, snowfall, flood or any other natural calamity, whatsoever during the execution of the work. The contractor shall be fully responsible for any damage to the government property and work for which the payment has been advanced to him under the contract and he shall make good the same at his risk and cost.

35.0 Environmental Management Action Plan

The contractor is required to abide the following instructions of environmental management action plan.

35.1 Pre-construction stage

35.1.1 All vehicles, equipment and machinery to be procured for construction will confirm to the relevant Bureau of India Standard (BIS) norms.

35.1.2.1 Emission from the vehicles must conform to environmental norms.

35.1.3 Sprinkling of water can mitigate dust produce from the vehicular movement and other site activities.

36.0 Construction of bins for disposal of waste

36.1 The pre-identified dump locations will be a part of solid waste management plan to be prepared by the contractor in consultation with Engineer-in-Charge.

36.2 Contractor will get approved the location of disposal site prior to commencement of the excavation on any section of the project location.

36.3 Contractor will ensure that any spoils of material will not be disposed off in any municipality solid waste collection bins.

37.0 Pollution

37.1 Water Pollution

a The Contractor will take all precautionary measures to prevent the waste water during construction to accumulate anywhere.

b The wastewater arising from the project is to be disposed off in the manner that is acceptable to the Engineer-in-charge and conforming to Delhi Pollution Control committee norms.

37.2 Air and Noise Pollution

a Contractor will use dust screens and sprinkle water around the construction site to arrest spreading of dust in the air and surrounding areas.

b Contractor will ensure that all vehicles, equipment and machinery used for construction are regularly maintained and confirm that emission levels comply with environmental emission standards/norms.

c For controlling the noise from Vehicles, Plants and Equipments, the Contractor will conform the following:

d All vehicles and equipment used in construction will be fitted with exhaust silencers.

e Servicing of all construction vehicles and machinery will be done regularly and during routine servicing operations, the effectiveness of exhaust silencers will be checked and if found defective will be replaced.

f Noise emission from compactors (rollers) front loaders, concrete mixers, cranes (movable), vibrators and saws should be less than 75 db (A).

g As per the Standards/Guidelines for control of Noise Pollution from Stationary Diesel Generator (DG) Sets, noise emission in db (A) from DG set (15 – 500 KVA) should be less than $94 + 10 \log_{10} (\text{KVA})$. The standards also suggest construction of acoustic enclosure around the DG set and provision of proper exhaust muffler with insertion loss of minimum 25db(A) as mandatory.

38.0 Procurement of Construction Materials

- a** All vehicles delivering construction materials to the site will be covered to avoid spillage of materials and maintain cleanliness of the roads.
- b** Wheel tyres of all vehicles used by of the contractor, or any of his sub-contractor or material suppliers will be cleaned and washed clear of all dust/mud before leaving the project premises
- c** Contractor will arrange for regular water sprinkling at least twice a day (i.e. morning, and evening) for dust suppression of the construction sites and unpaved roads used by his construction vehicles.
- d** The unloading of materials which are required to be approved by the Engineer-in-Charge, at construction site will be restricted to daytime only. For this purpose, the information shall be given to the Engineer-in-Charge at least one day in advance.

38.1 Personnel Safety Measures for Labour

- a** This shall be ensured as per the CPWD Safety Code given in “General conditions of contract for CPWD works - 2020”.

38.2 Risks from Electrical Equipment

- A** The contractor will comply the relevant industrial electrical safety legislations.
- b** The Contractor will take adequate precautions to prevent danger from electrical equipment i.e. no material will be so stacked or placed as to cause danger or inconvenience to any person or the public.
- c** All necessary fencing and lights will be provided to protect the public.
- d** All electric machines to be used in the construction will conform to the relevant Indian Standards (IS) codes, will be free from patent defect, will be kept in good working order, will be regularly inspected and properly maintained as per IS provision and to the satisfaction of the Engineer-in-charge.
- e** The contractor will arrange for a first aid kit including an adequate supply of sterilized dressing materials and appliances to meet emergencies. He will also arrange suitable transport to take injured or sick person(s) to the nearest hospital.
- f** The contractor will provide, erect and maintain informatory/safety signs, hoardings written in English and Hindi wherever required or as suggested by the Engineer-in-charge.

38.3 Plantation/preservation/conservation measures

- a The contractor will take reasonable precaution to prevent his workmen and employees from removing and damaging any flora (plant/vegetation) from the project area.
- b All fossils, coins, articles of value of antiquity, structures and other remains or things of geological or archaeological interest discovered on any 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 inform 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 stopped.

39.0 The contractor shall use double scaffolding in the work.

40.0 The contractor shall make at his own cost all necessary arrangements for maintaining water level, in the area where works are under execution low enough so as not to cause any harm to the works or problems in carrying out with the execution and the rates for all items of work shall be considered as inclusive of pumping out or bailing out water, if required, for which no extra payment shall be made. This will include water coming from any source, such as rains, accumulated water, floods, leakages from sewer and water mains, sub-soil water table being high or due to any other cause whatsoever. The contractor shall make necessary provision of pumping, dredging, bailing out water coming from all above sources and excavation and other works shall be kept free of water by providing suitable system approved by Engineer-in-charge.

41.0 Cement: -

- 41.1 Every delivery of cement shall be accompanied by producer's certificate conforming that the supplied cement confirms to relevant specifications. These certificates shall be endorsed to the engineer in charge for his record.
- 41.2 The cement shall be brought at site with tax invoice in bulk supply or as decided by the Engineer-in-charge.
- 41.3 Cement bags shall be stored in two separate godowns, one for tested cement and the other for fresh cement (under testing) constructed by the contractor at his own cost as per sketch **of General conditions of contract for CPWD works-2014** with weather proof roofs and walls. The size of the cement godown is indicated in the sketch for guidance only. The actual size of godown shall be as per site requirements and as per the direction of the Engineer in charge and nothing extra

shall be paid for the same. The decision of the Engineer-in-charge regarding the capacity required/needed will be final. Each godown shall be provided with a single door with two locks. The keys of one lock shall remain with Engineer-in-charge or his authorized representative and that of other lock with the authorized agent of the contractor at the site of work so that the cement is issued from godown according to the daily requirement with the knowledge of both the parties. The account of daily receipt and issue of cement shall be maintained in a register in the prescribed Proforma and signed daily by the contractor or his authorized agent in token of its correctness.

- 41.4** Samples of cement arranged by the contractor shall be taken by the Engineer-in charge and got tested in accordance with provisions of relevant BIS codes. In case test results indicate that the cement arranged by the contractor does not conform to the relevant BIS codes, the same shall stand rejected and shall be removed from the site by the contractor at his own cost within three Days of written order from the Engineer-in-charge to do so.

41.4.1 The contractor shall supply free of charge the cement required for testing. The cost of tests shall be borne by the contractor.

- 41.5** The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract.

- 41.6** The theoretical, consumption of cement/bitumen shall be worked out as per procedure prescribed in clause 38 of the contract and shall be governed by conditions laid therein. No payment for excess consumption of cement will be allowed. However, for lesser consumption beyond permissible theoretical variation recovery shall be made in accordance with conditions of contract given in **Schedule A to F of CPWD-7** without prejudice to action for acceptance of work/item at reduced rate or rejection as the case may be.

- 41.7** For non-schedule items, the decision of the Superintending Engineer regarding theoretical quantity of cement, which should have been actually used, shall be final and binding on the contractor.

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

42.0 Reinforcement

- 42.1** The reinforcement shall conform to relevant BIS Specifications and it should be laid as per CPWD Specifications.

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

- 42.3** The contractor shall provide approved type of support for maintaining the bars in position and ensuring required spacing and correct cover of concrete to reinforcement as called for in the drawings, spacer blocks of required shape and size. Chairs and spacer bars shall be used in order to ensure accurate positioning of reinforcement.
- 42.4** To ensure proper cover, only factory-made round type cover blocks will be used to avoid displacement of bars in any direction.
- 42.5** The contractor shall procure thermo mechanically treated (TMT) steel reinforcement bars conforming to BIS 1786-2008 specifications of Fe 500-D grade and CPWD specifications from main producers as SAIL ,Tata Steel Ltd., RINL, Jindal Steel & Power LTD. and JSW Steel Ltd. or any other producer as approved by CPWD. The contractor shall have to obtain and furnish test certificate to 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 BIS codes, the same shall stand rejected and shall be removed from the site of work by the contractor at his own cost within three Days of written orders from the Engineer in charge to do so.
- 42.6** The steel reinforcement shall be brought at site as per direction of the Engineer-in-charge.
- 42.7** The steel reinforcement shall be stored by the contractor at site of work in such a way as to prevent distortion and corrosion and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
- 42.8** The contractor shall supply free of cost the required steel bars for testing. The cost of tests shall be borne by the contractor.
- 42.9** The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein.
- 42.9.1** Steel brought to site and remaining unused shall not be removed from site without the written permission of Engineer-in-Charge.
- 42.9.2** Reinforcement including authorized spacer bars and overlaps shall be measured in length of different diameters as actually (not more than as specified in the drawings) used in the work nearest to a centimeter. Wastage and unauthorized overlaps shall not be measured.
Record of actual sectional weights shall also be kept dia wise and lot wise. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site. The decision of the Engineer in charge shall be

final for the procedure to be followed for determining the average sectional weight of each lot. Quantity of each diameter of steel received at site of work each day will constitute one single lot for the purpose. The weight of steel by conversion of length of various sizes of bars based on the actual weighted average sectional weight shall be termed as Derived Actual Weight.

- (a) If the derived weight as in sub-para (iii) above is less than the standard weight as in sub-para (ii) above, than the Derived Actual Weight shall be taken for payment.
- (b) If the derived actual weight is found more than the standard weight, than standard weight as worked out in sub para (ii) above shall be taken for payment nothing shall be paid extra for the difference in Derived Actual Weight and standard weight.

42.10 Mixing different types of grades of bars shall not be allowed.

42.11 The reinforcing steel brought to site of work shall be stored on brick timber platform of 30 to 40 cm height, nothing extra shall be paid on this account.

43.0 Water:

43.1 The contractor shall make his own arrangement for providing water for construction and drinking purpose. Water charges shall not be recovered on account of it. Contractor shall get the water tested from any approved laboratory by the Engineer-in-charge at regular interval as per the CPWD specifications 2019 vol.-I & II. All expenses towards collection of samples, packing transportation and testing charges, etc. shall be borne by the contractor.

44.0 Form Work:

44.1 The work shall be done in general as per CPWD Specifications 2019 Vol-I & II.

44.2 Only M.S. centering / shuttering and scaffolding material unless & otherwise specified shall be used for all R.C.C. work to give an even finish of concrete surface. However, marine-ply shuttering in exceptional cases as per site requirement may be used on specific request from contractor to be approved by the Engineer-in-Charge.

44.2.1 Double steel scaffolding having two sets of vertical supports shall be provided for external wall finish, cladding etc. The supports shall be sound and strong, tied together with horizontal pieces over which scaffolding platform shall be fixed.

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

- 44.3** In order to keep the floor finish as per architectural drawings and to provide required thickness of the flooring as per specifications, the top level of RCC surface shall be accordingly adjusted at the time of its centering, shuttering and casting for which nothing extra shall be paid to the contractor.
- 44.4** As per general engineering practice, level of floors in toilet / bath, balconies, shall be kept 12 to 20mm or as required, lower than general floors shuttering should be adjusted accordingly. Nothing extra is payable on this account.
- 44.5** Steel shuttering as approved by the Engineer-in-Charge shall be used by the contractor. Minimum size of shuttering plates shall be 600mm x 900mm except for the case when closing pieces required to complete the shuttering panels.
- 44.6** Dented, broken, cracked, twisted or rusted shuttering plates shall not be allowed to be used on the work.
- 44.7** The shuttering plates shall be cleaned properly with electrically driven sanders to remove any cement slurry or cement mortar or rust. Proper shuttering oil or de-bonding compound shall be applied on the surface of the shuttering plates in the requisite quantity before assembly of steel reinforcement.
- 44.8** For the execution of centering and shuttering, the contractor shall use propriety "Reebol" chemical mould release agent of FOSROC or equivalent as shuttering oil as approved by Engineer-in-charge and nothing extra shall be paid on this account.
- 44.9** Work is mainly related to maintenance work.

45.0 Other Conditions:

1. The contractor shall not store/dump construction materials or debris on metaled road.
2. The contractor shall get prior approval from Engineer-in-charge for the area where the construction material or debris can be stored beyond the metaled road. This area shall not cause any obstruction to the free flow of traffic/inconvenience to the pedestrians. It should be ensured by the contractor that no accidents occur on account of such permissible storage.
3. The contractor shall take appropriate protection measures like raising wind breakers of appropriate height on all sides of the plot/area using CGI sheets or plastic and/or other similar materials to ensure that no construction material dust fly outside the plot area.
4. The contractor shall ensure that all the trucks or vehicles of any kind which are used for construction purpose/or are carrying construction materials like cement, sand and other allied material are fully covered. The contractor shall take every necessary precaution that the vehicles are properly cleaned and dust free to ensure that enroute their destination, the dust, sand or any other particles are not released in air/contaminate air.

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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5. The contractor shall provide mask to every worker working on the contraction site and involved in loading, unloading and carriage of construction material and construction debris to prevent inhalation of dust particles.
6. The contractor shall provide all medical help, investigation and treatment to the workers involved in the construction of building and carry of construction materials and debris relatable to dust emission.
7. The contractor shall ensure that C&D waste is transported to the C&D waste site only and due record shall be maintained by the contractor.
8. The contractor shall compulsorily use of wet jet in grinding and stone cutting.
9. The contractor shall comply all the preventive and protective environmental steps as stated in the MoEF guidelines, 2010.
10. The contractor shall carry out on-road - Inspection for black smoke generating machinery. The contractor shall use cleaner fuel.
11. The contractor shall ensure that all DG sets comply emission norms notified by MoEF.
12. The contractor shall use vehicles having pollution under control certificate. The emissions can be reduced by a large extent by reducing the speed of a vehicle to 20 kmph. Speed bumps shall be used to ensure speed reduction. In case where reduction speeds cannot effectively reduce fugitive dust, the contractor shall divert traffic to nearby paved areas.
13. The contractor shall ensure that the construction materials are covered by tarpaulin. The contractor shall take all other precaution to ensure that no dust particles are permitted to pollute air quality as a result of such storage.

ADDITIONAL CONDITIONS

- 1 In case there is any discrepancy between English Version and corresponding Hindi version, if provided, then the provisions in English Version will prevail.
- 2 Wherever any reference to any Indian Standard Specifications/ International standard occurs in the documents relating to this contract, the same shall be inclusive of all amendments issued there-to or revisions thereof, if any, up to the date of receipt of tenders.
- 3 Samples for particular items of work shall be prepared, where so specifically desired by Engineer-in- charge, for prior approval of the Engineer-in-charge, before taking up the same on mass scale and nothing shall be payable on this account.
- 4 Wherever desired by Engineer-in-charge, the contractor shall also construct a sample unit complete in all respect within time specified by the Engineer-in-charge & this sample unit shall be got approved from the Engineer-in-charge before mass construction is taken up. No extra claim, whatsoever beyond the payment due at agreement rates, will be entertained to the contractor on this account.
- 5 The contractor shall take instructions from the Engineer-in-charge for stacking of materials at site. No excavated earth or building materials shall be stacked on areas where the buildings, roads, services or compound walls or any other structure are to be constructed.
- 6 If as per municipal rules, or due to any other restrictions, the huts for labourers are not to be erected at the site of work by the contractors, then the contractors shall provide such accommodation at such locations as are acceptable to local bodies, or contractor shall make his own alternative arrangement for stay of labourers outside the site of work, for which nothing extra shall be payable.
- 7 Unless otherwise specifically provided in the Schedule of quantities, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing extra quoted rates in agreement shall be payable to him on this account. However, payment for centering, shuttering, if required to be done for floor heights greater than 3.5m, shall be admissible at rates arrived at, in accordance with clause 12 of the agreement, if not already specified otherwise.
- 8 The working drawings appearing at para 8.1(iii) of conditions of contract in the form CPWD-7, shall mean to include both architectural and structural drawings respectively. The structural and architectural drawings shall be properly correlated before executing the work. In case of any difference noticed between architectural and structural drawings, final decision, in writing of the Engineer-in-charge shall be obtained by the contractor before proceeding further.

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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- 9 If ISI marked products are available, the contractor shall use only ISI marked products. In other cases, the materials shall conform to CPWD specifications. In case a materials/product is neither covered by ISI nor by CPWD specification, the work shall be carried out as per sound engineering practice, in such case, the decisions of the Engineer-in-charge shall be final & binding. In such cases Engineer-in-charge shall satisfy himself about the quality of such materials and give his approval in writing. Only articles classified as first quality by the manufacturers shall be used, unless otherwise specified. All materials not bearing ISI mark shall be tested as per relevant ISI specifications. The Engineer-in-charge may relax the condition regarding testing if the quantity of the materials required for the work is small. In all cases of use of ISI marked materials, proper proof of procurement of materials from authentic manufacturers shall be provided by the contractor to the entire satisfaction of Engineer-in-charge.
- 10 Some restrictions may be imposed by the security staff etc. on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restriction / instructions and nothing extra shall be payable on this account.
- 11 Other agencies doing works related with this project will also simultaneously execute the work and the contractor shall afford necessary facilities for the same. The contractor shall leave such necessary holes, opening etc., for laying/burying in the work pipes, cables, conduits, clamps, boxes and hooks for fan clamps etc. as may be required for other agencies. Conduits for electrical wiring/cables will be laid in such a way that they leave enough space for concreting and do not adversely affect the structural members. Nothing extra over the agreement rates shall be paid for the same. The contractor shall extend necessary co-operation to other such agencies without any claim on this account.
- 12 Cast iron pipes and fittings without ear shall be used. However, pipes and fittings with ears may be accepted without any extra payment. In such cases, clamps are not required and no extra payment shall be made for fixing the pipes in a different manner.
- 13 Any cement slurry, required to be added over base surface for bond or for continuation of concreting, its cost shall be deemed to have been included in the respective items, unless specified otherwise and nothing extra shall be payable nor extra cement shall be considered in the cement consumption on this account.
- 14 Stacking of materials and excavated earth including its disposal shall be done as per the directions of the Engineer-in-Charge. Double handling of materials or excavated earth, if required, shall have to be done by the contractor at his own cost.

- 15 No claim for idle establishment & labour, machinery & equipments, tools & plants and the like, for any reason whatsoever, shall be admissible during the execution of work as well as after its completion.
- 16 (a) The building work will be carried out in the manner complying in all respect with the requirements of relevant bylaws of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-charge and nothing extra will be paid on this account.
- (b) The work of water supply, internal sanitary installations and the drainage work etc may require to be carried out as per local Municipal Corporation or such local body-Bylaws and the contractor in such cases shall produce necessary completion certificate from such authorities after completion of the work.**
- 17 The contractor shall give a performance test of the entire installation(s), as per standing specifications, before the work is finally accepted and nothing extra whatsoever shall be payable to the contractor for the test.
- 18 The work pertaining to the items of internal finishing should be started in consultation and with prior approval of Engineer-in-Charge as soon as the structure of two floors is completed.
- 19 Any damage to work resulting from weathering conditions, defacing or from any other cause such as negligent act on the part of contractor, until the work is taken over by the Department after completion of work, shall be made good by the contractor at his own cost .
- 20 Dismantling of cement concrete floors inside the quarters shall be done with the help of mechanized vibratory hammer, drills etc. The work shall be carried out in such a way that there should be least disturbance to the adjoining allottees and work should be completed within least possible time. The contractor must ensure that there should be no damage to the supporting RCC members.

21 **TESTING OF MATERIALS**

- (a) Samples of various materials required for testing shall be provided free of cost by the contractor. Cost of Sample of materials including testing charges is to be borne by the contractor & he/she is responsible for safe custody of Sample to be tested. All other expenditures required to be incurred for taking the samples; conveyance, packing etc. shall be borne by the contractor himself.
- (b) The contractor shall produce all the materials in advance so that there is sufficient time for testing and approval of the materials and clearance before use in work. The Engineer in charge shall be at liberty to test representative sample(s) of each item of schedule of quantity in any approved laboratory as

decided by him. The sample of testing shall be provided by the contractor free of cost. Any expenditure required to be incurred for taking sample; conveyance and packing shall be borne by the contractor. In case of any sample of particular lot fails in testing the contractor shall be bound to replace the entire lot with fresh material of prescribed specifications. The rejected lot shall be returned to the contractor only after fresh lot is supplied. Testing charge in respect of failed sample will be recovered from the contractor.

- (c) With a view to avoid controversy about quality of cement concrete as revealed in the test results of 7 Days cubes falling short of the prescribed standards by over 10% to 20% and pending testing of balance 3 cubes for 28 Days as final confirmatory acceptance tests, crushed samples of cement concrete from the failed 7 Days cubes should be preserved in a sealed bag.
 - (d) In case of concrete and reinforced concrete work, the contractor shall be required to make arrangement for carrying out crushing strength tests at his own cost. He shall render all assistance for the preparation of cubes, safe custody of the same, proper curing and carriage upto the laboratory where the test is to be performed. The cube test can be performed at any laboratory approved by the Engineer-in-charge.
- 22 No labour huts shall be allowed inside the campus of above said work. The contractor shall arrange for the stay of labour outside the campus including transport and nothing extra shall be payable on the account.
 - 22 The work is required to be executed in odd hours and the agency shall plan the work to be carried out accordingly.
 - 24 There may be some restrictions on free movement of labourers at site and restriction of working hours and the agency shall consider this fact while quoting the rates and executing the work. Photo passes if any required for worker shall be responsibility of the contractor.
 - 25 Existing drains, pipes, cables, overheads wires, sewer lines and water lines and similar services encountered in the course of the execution of the work shall be protected against the damage by the contractor at his expenses. 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.
 - 26 Malba received from site shall be removed to designated site (fixed by Engineer in charge) on same day, otherwise it will be removed and a penalty of Rs. 500/- shall be imposed on the contractor for each day of default
 - 27 **If the material as instructed is not brought to the site within 7 Days from the date of start of work, Earnest money shall be forfeited by Engineer in charge or his authorized representative by giving notice through site order book.**

- 28** Before dismantling the structure / item the contractor shall bring the entire material required for particular job at site after getting the sample approved from the Engineer in charge.
- 29** The Engineer employed by the contractor must attend the office of AE/JE in charge daily and note any instructions given on site order book.
- 30** For mixing of mortar, M.S. sheet must be used over the brick platform. Mortar should not be mixed on road or floor or on garden. In case mortar / concrete is mixed on floor or on road etc., a recovery of Rs. 1000/- shall be made for each default. Malba should not be dumped over green grass / plants.
- 31** Splashes on the floors, walls, glasses & other places must be removed after completion of work. Glass panes must be cleaned after completion of works. In the event of failure to clean splashes the work of cleaning will be got done at the risk and cost of the agency.
- 32** Due to restriction of driving slow moving vehicle / hand driven rickshaw in NDMC areas, it is required that contractor should not operate the hand driven rickshaw. Contractor has to make his own arrangement of desired transportation & nothing extra shall be payable on this account.
- 33** Before starting the work the contractor shall chalk out a programme in consultation with the Junior Engineer / Assistant Engineer in charge so as to inform the occupants in advance. The contractor shall have to adhere this programme, failing which he shall be held responsible for any inconvenience caused to the occupants. In order to ensure that the work is carried out according to the programme drawn up, the contractor shall ensure adequate supply of the material and employ required labour strength for execution of work. In case contractor fails to arrange / employ adequate labour and stick to the programme, the Engineer in charge may supplement the labour at the risk and cost of the contractor after issue of one day's notice to the contractor through site order book. No claim for idle labour shall be entertained. The contractor shall put his representative daily on site of work. His name & signature shall be attested by the contractor on the record for the department.
- 34** The contractor shall prepare one sample of all items which should be got approved from the Engineer in charge. Only after acceptance of sample work, contractor will be allowed to commence the work and sample is to be preserved by contractor till the whole work is completed. The quality of work should confirm to the approved samples.
- 35** The contractor should note that the items of work in any room shall be undertaken at one time, one after the other and completed at one stretch in reasonable time allotted for the same by Engineer in charge and got noted by the Junior Engineer in charge. Any item left over in any building will be got done at his risk and cost without any further notice (other than one entry in the site order book) to the contractor after one day from the date of entry in the site order book.

- 36 No T&P shall be supplied by the department.
- 37 Any damage done to the existing structure shall be made good by the contractor at his own risk and cost.
- 38 The contractor shall be responsible for behavior and conduct of his worker. No worker with doubtful integrity or having a bad record shall be engaged by the contractor.
- 39 The labour welfare fund / cess shall be deducted as per statutory norms.
- 40 The contractors are advised to get acquainted with the proposed work and its site and also study the Architectural Drawings, specifications and special conditions carefully before tendering. No claim of any sort shall be entertained on account of any site conditions and ignorance of specifications and special conditions.
41. The proposed work is a prestigious project and quality of work is of paramount importance. Contractor shall have to engage well-experienced skilled labour and deploy modern T&P and other equipment to execute the work.
42. The contractor shall make his own arrangements for electricity and water required for the execution of the work and nothing extra shall be paid for the same. However, for electrical connection, Engineer-in-Charge shall recommend the application to concerned authority for Electrical connection if required. Necessary payment shall be made by the contractor directly to the department concerned. In case the concerned authority fails to sanction the electric connection or delays the sanction of electric connection, the contractor shall make his own arrangements by providing diesel generators of adequate capacity at his own cost.
43. For water supply, contractor shall make his own arrangement including boring of tube well, if necessary, and nothing extra shall be paid by the Department for arrangement of water or on its treatment as per requirements laid down in IS: 456 / 2000.
44. The rates for all items of work shall, unless clearly specified otherwise, include cost of all labour, material, tools and plants and other inputs involved in the execution of the item and **nothing extra shall be payable on this account.**
45. The contractor(s) shall quote all-inclusive rates against the items in the schedule of quantities and **nothing extra shall be payable for any of the conditions and specifications** mentioned in the tender documents unless specifically mentioned otherwise.
46. No accommodation is available at the site of work. The labour huts shall not be erected on the plot and the Contractor shall make his own arrangements to provide such accommodation as per the rules of the local bodies. He shall make his own arrangements for stores, field office etc. Before tendering, he shall visit the site and assess the manner in which he is able to arrange the above facilities. The Engineer-in- Charge shall in no way be responsible for any delay on this account and no claim, whatsoever, on this account shall be entertained. Nothing extra shall be payable on this account.

47. The work shall be executed and measured as per metric dimensions given in the schedule of quantities, drawings etc. (FPS units wherever indicated are for guidelines only).
48. Even ISI marked materials shall be subjected to quality test at the discretion of the Engineer-in-Charge besides testing of other materials as per the specifications described for the item/ material. Whenever ISI marked, materials are brought to the site of work; the contractor shall, if required by the Engineer-in-Charge, furnish manufacturer's test certificate to establish that the material procured by the contractor for incorporation in the work satisfy the provisions of IS Codes relevant to the material and/or the work done.
49. The Contractors will associate himself with specialized electrical contractor.
50. The contractor shall take all precautions to avoid accidents by exhibiting caution boards, red flags, red lights and providing necessary barriers and all other measures required from time to time. The contractor shall be responsible for all damages and accidents due to negligence on his part.
51. 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.
52. Any of the item (whole or part) supplied under this contract may be subjected to test on site or sent to laboratory at the discretion of the engineer-in-charge. If the test result is not as per the standard requirements, the entire lot will be rejected and the contractor will remove the whole lot.
53. Minor variations (up to $\pm 2\%$) in the dimensions of items manufactured by approved brands, may be accepted. However, the decision of the Engineer-in-Charge, in this regard will be final and binding on the contractor.
54. For mixing of mortar, M.S. sheet must be used over the brick platform. Mortar should not be mixed on road or floor or on garden. In case mortar / concrete is mixed on floor or on road etc., **a recovery of Rs. 1000/-** shall be made for each default. Malba should not be dumped over green grass / plants.

PARTICULAR SPECIFICATIONS

1.0 GENERAL

- 1.1)** The work shall be executed and measured as per metric dimensions given in the Schedule of quantities, drawings etc. (F.P.S. Units wherever indicated are for guidance only).
- 1.2.1)** All stone aggregate and stone ballast shall be of hard stone variety to be obtained from approved quarries to be got approved from the Engineer-in-charge.
- 1.2.2)** Sand to be used for cement concrete work, mortar for masonry and plaster work shall be of standard quality and shall be obtained from approved source to be got approved from the Engineer-in-charge and screened as required. The same shall consist of hard siliceous material. It shall be clean sand.
- 1.2)** Unless otherwise specified in the schedule of quantities, the rate of all items of the work shall be considered as inclusive of pumping out or bailing out water, if required, for which no extra payment will be made. This will include water encountered from any sources such as rains, floods, sub-soil water table being high or due to any other cause whatsoever.
- 1.4)** All the materials required to be tested shall be tested as per provisions of the relevant I.S. Codes. Should there be any difference between acceptances CRITERIA given in I.S. Codes, C.P.W.D. specifications and special conditions, the acceptance CRITERIA shall be in the following order of precedence:
1. Special conditions
 2. C.P.W.D. Specifications
 3. B.I.S. Codes

2.0 EMBEDDING OF PIPES, CONDUITS ETC.

- 2.1** The brick work for the portions of external wall of W.C. through which pipes are taken, will be done after the pipes are fixed as far as practicable.
- 2.2** All crossings, embedment etc. in walls and floors for water supply, drainage and sanitary pipes, fittings etc. shall be provided as per previously prepared detailed drawings for individual walls and floors so as to avoid cuttings of brick work and floors. All such areas shall be made good during finishing and nothing extra shall be paid for this.

3.0 RCC WORK

- 3.1** The steel bars shall be stored about 30 to 45 cm above ground. A uniform coat of cement wash shall be given to steel reinforcement bars. In places where rainfall is heavy, steel bars shall be stored in protective environment to mitigate deterioration due to corrosion.

The cement for application of slurry on steel bars will be duly issued. However, no extra payment shall be payable for the application of slurry coating on steel bars.

4.0 WOOD WORK

- 4.1** Factory made shutter, as specified shall be obtained from factories to be approved by the Engineer-in-charge & shall conform to relevant Indian Standards. The contractor shall inform well in advance to the Engineer-in-charge, the names and address of the factory from which the contractor intends to get the shutters manufactured. The contractor will place order for manufacture of shutters only after written approval of the Engineer-in-charge in this regard is given. The contractor is bound to attend by the decision of the Engineer-in-charge & recommend a name of another factory from the approved list in case the factory already proposed by the contractor is not found competent to manufacture quality shutters. Shutters will, however, be accepted only if this meets the specified tests. The contractor will also arrange stage wise inspection of the shutters at factory to the Engineer-in-charge or is authorized representative. Contractor will have no claim if the shutters brought at site are rejected by Engineer-in-charge in part or in full lot due to bad workmanship and quality. Such shutters will not be measured & paid and the contractor shall remove the same from the site of work within **7 Days** after the written instruction in this regard are issued by Engineer-in-charge or his authorized representative.

5.0 FLOORING, SKIRTING, VENEERING, DADO, RISERS & STEPS, JAMBS, SILLS & SOFFITS

- 5.1** Nothing extra shall be payable for using combination of marble, granite, kota, sand stone slabs & ceramic tiles etc. in the required pattern at various locations.
- 5.2** Nothing extra will be paid for the additional thickness of bed mortar that will be required to achieve uniform finished surfaces on account of difference in specified thickness of marble, granite, kota stone, sand stone & ceramic tiles etc.
- 5.3** Flooring in toilets, verandah, kitchen, courtyard etc. shall be laid to the required slope/gradient as per the directions of the Engineer-in-Charge.
- 5.4** The pattern, spacing and locations of joints shall be as per drawings and direction of the Engineer-in-Charge.

6.0 STEEL WORK

- 6.1 The rate of T/L iron frame shall include the cost of materials & labour of the following.**
- (a)** M.S. tie of 10 mm dia. bar shall be welded to M.S. frames at the bottom to keep the frames in correct position. The tie shall be embedded in floor concrete. No tie shall be necessary for window frames.
 - (b)** M.S. frame for doors shall have 4 Nos. M.S. lugs 15 x 3 mm., 10 cm long, welded to each vertical member of the frame.

- (c) The M.S. plate cramps 15 x 6 mm thick for holding arrangements shall be provided and welded as per site conditions.

6.2 Steel windows/ventilators to be provided in the work shall be from ISI approved manufacturers or from the firms approved by the Engineer in-Charge.

7.0 WATER PROOFING TREATMENT

- 1 The work shall be got executed from the specialized agency as approved by the Engineer-in-Charge.
- 2 Contractor shall also submit the names of water proofing specialist along with information about their technical capabilities and list of similar works executed by the specialized agency in the past for the approval of Engineer -in-charge within 30 Days from the date of award of work.
- 3 Total quantity of the water proofing compound required shall be arranged only after obtaining the prior approval of the make by Engineer-in-charge in writing. Materials shall be kept under double lock and key and proper account of theater proofing compound used in the work shall be maintained. It shall be ensured that the consumption of the compound is as per specified requirements.
- 4 The finished surface after water proofing treatment shall have adequate smooth slope as per the direction of the Engineer-in-charge.
- 5 Before commencement of treatment on any surface, it shall be ensured that the outlet drain pipes / spouts have been fixed and the spout openings have been eased and rounded off properly for easy flow of water.
- 6 The approved specialized agency for the work of water proofing will have to execute a guarantee bond in prescribed Proforma enclosed at ANNEXURE I for removing any defects for at least 10 years. Guarantee bond shall be signed by both the specialized agencies as approved by the Engineer-in-Charge and the contractor to meet their liability under the guarantee bond. However, the sole responsibility about the efficiency of water proofing treatment shall rest with the building contractor.
- 7 10% of the cost of water proofing work shall be retained as additional security deposit and the amount so withheld would be released after ten years from the date of completion of the entire work under the agreement. If the performance of the work done is found unsatisfactory and any defects noticed during the guarantee period, they shall be rectified by the contractor within seven 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 agency at the risk and cost of the contractor.

7.1 INTEGRAL CEMENT BASED WATER PROOFING TREATMENT

- 7.1.1** The proprietary waterproofing compound shall preferably bear ISI mark or shall conform to I.S. 2645 (up to date amendments) Water proofing compound shall be brought to site prior to commencement of work, from which random sample would be got tested to ascertain its conformity to the relevant I.S. code. The proprietary waterproofing compound shall be added at the rate recommended by the manufacturing firm, but not exceeding 3 percent by weight of cement. Water proofing compound shall be kept under double lock and key & record of its issue shall be kept in the same manner as for issue of cement.
- 7.1.2** While doing treatment of roof surface, it shall be ensured that the outlet drain pipes have been fixed and mouths at the entrance have been eased and rounded off properly for easy flow of water.
- 7.1.3** The surface where the waterproofing is to be done, shall be thoroughly cleaned with wire brushes. All loose scales shall be removed and dusted off. The surface shall be treated with neat cement slurry admixed with proprietary water proofing compound, to penetrate into crevices and fill up all the pores in the surface. This cement slurry shall also be applied at the junction of parapet and terrace slab including the vertical face of the parapet.
- 7.1.4** After the slurry coat is laid, layer of well burnt brick bats shall be laid to required gradient and joints filled to half the depth, in cement mortar of mix as specified by the manufacturing firm, but not leaner than 1:5 (1 cement: 5 coarse sand) duly admixed with proprietary waterproofing compound. The brickbat layer shall be rounded at the junction with parapet and merged with the treatment to be provided on the parapet up to 300mm. height. Curing of this layer shall be done for 3 Days.
- 7.1.5** After curing, the surfaces shall be applied with a coat of cement slurry admixed with proprietary water proofing compound.
- 7.1.6** Joints of brick bats layer shall be filled fully with cement mortar of mix as specified by the specialist firm but not leaner than 1:4 (1 cement: 4 coarse sand) admixed with proprietary water proofing compound and finally top finished with average 20 mm thick layer of same mortar and finished smooth with cement slurry admixed with proprietary water proofing compound. The finished surface shall have marking of 300 x 300 mm false squares.
- 7.1.7** Curing of water proofing treatment, thus completed, shall be done for a minimum period of ten Days.
- 7.1.8** The finished surface, after water proofing treatment, shall have minimum slope of 1 in 80. At no point, shall the thickness of water proofing treatment, be less than 65 mm.

7.1.9 The measurements shall be taken along the finished surface of treatment including the rounded and tapered portion at junction of parapet wall. Length and breadth shall be measured correct to one centimeter and area shall be worked out to nearest 0.01 sqm. No deduction in measurements shall be made for either openings or recesses for chimneys, stacks, roof lights and the like for areas up to 0.40sqm. Nothing extra shall be paid, for forming such openings. For similar areas exceeding 0.40sqm. Deductions shall be made in measurements for full openings and nothing extra shall be paid for making such openings.

7.1.10 The rate shall include the cost of all labour and materials involved in all the operations described above.

7.1.11 APP Water Proofing Treatment: The membrane shall be laid as per manufacturers specification fully bonded to substrate with 10cm side laps, 15 cm end laps and 100x35cm base flushing. Material should be procured from the Authorized distributor accompanied with Test Certificate of the product with batch number & date etc complete as per the direction of Engineer –in- Charge.

8.0 CUT BRICK (MARUKONA)

Wherever cut brick (Marukona), as required under Para 6.2.4.7 of C.P.W.D. Specifications 2009 Vol. II, is not feasible, on account of available quality of bricks, the same shall be replaced by cement concrete 1:2:4 and no extra payment for the provisions of C.C. 1:2:4 shall be made nor would the quantity of C.C. 1:2:4 thus provided be deducted from measurements of brick work.

9.0 ALUMINIUM WORK

9.1 GENERAL

The following are applicable particularly to Aluminum Works as contained in these tender documents:

9.2 MANUFACTURER'S TEST CERTIFICATE

The contractor, if required by the Engineer-in-Charge, shall produce manufacturer's test certificates for any material or particular batch of materials supplied by him. The test carried out shall be as per relevant specifications / Indian standard codes.

9.3 APPROVAL OF SAMPLES

The contractor shall submit to the Engineer-in-charge, samples of all materials for approval and no work shall commence before such samples are approved. **Samples of un-anodised as well as anodised and electro-coloured aluminum sections, neoprene gaskets, thermal barrier sections, glass, screws, hardware and any other material components requiring approval of samples, in opinion of Engineer-in-charge shall be submitted for approval. The above samples will be retained as standards of materials and workmanship.**

9.4 ALUMINIUM SECTIONS.

- 9.4.1** Aluminum sections to be used for doors, windows, ventilators and fixed glazing etc. shall be manufactured by reputed companies & shall be appropriate to meet architectural designs of relevant components.
- 9.4.2** The aluminium extruded sections shall conform to I.S., Designations EIWP/HVIWP alloy, with chemical composition and technical properties as per I.S. 733 and I.S. 1285, respectively.
- 9.4.3** **Aluminum sections to be used for windows, ventilators and fixed glazing etc. shall be of Z section and be manufactured by reputed companies & shall be appropriate to meet architectural designs of relevant components. The aluminium extruded sections shall be of thickness 16 gauge (1.29mm)**
- 9.4.4** For sectional weight, tolerance limits shall be (-) 0.5%

9.5 FABRICATION

- 9.5.1** All joints shall be accurately fabricated and be hairline in appearance.
- 9.5.2** Taking into consideration varying profiles of aluminium sections being extruded by approved manufacturers, the contractor shall prepare detailed shop drawings of his proposal using suitable sections based on architectural design/drawings, adequate to meet the requirement/specifications laid down in this tender document and as proposed by the manufacturer and these detailed show drawings shall be subject to approval of the Engineer-in-Charge.
- 9.5.3** All doors, windows, ventilators and glazing etc. shall be completely leak proof against water and air with neoprene gaskets and silicon sealants to the best satisfaction of the Engineer-in-charge, for which no extra payment shall be made.
- 9.5.4** The frames shall be strictly as per Architectural drawings; the corners of the frame being fabricated to the true right angles. Both the fixed frames and open able shutter frames shall be fabricated out of sections, which have been cut to length, mitered and mechanically joined for satisfactory performance. All members shall be accurately machine milled and fitted to form hairline joints. The jointing accessories such as cleats, brackets, screws etc. shall be of such materials as not to cause any bimetallic action. Nothing extra shall be paid for jointing accessories.
- 9.5.5** Mitered joints of the doors, windows, ventilators shutters and frames shall be either corner crimped or fixed with self tapping stainless steel screws of approved make and quality with heavy duty extruded aluminium cleats and sealed with silicon sealant, for which nothing extra shall be paid.
- 9.5.6** Verticals of the frame shall be embedded in the floors, wherever required, up to 50 mm, by cutting and making good of the floor. Nothing extra shall be paid for the same.

9.6 FIXING

9.6.1 (a) The screws used for fixing aluminium frames to masonry walls/RCC members and aluminium members to another aluminium members shall be **Cadmium plated & of aluminium alloy or stainless steel** of approved make and quality. Threads of machine screws used shall conform to requirement of I.S. 4218.

(b) The gap between frames and supports and any gap in the various sections shall be filled with approved silicon sealant to ensure complete water tightness. The sealant shall be such approved colour and composition that it would not stain the masonry/RCC work. It should not sag or flow and shall not set hard or dry out under any conditions of weather. The SILICON sealant shall be used as required and shall match the colour of the aluminium sections. Any excess sealant shall be removed/cleared. Nothing extra shall be paid for the above.

9.7 ANODISING / ELECTRO COLOURING

9.7.1 Aluminium sections shall be anodized as per I.S. 7088-1973. Anodizing to be as per grade AC-15 and not less than 15 microns thick, when measured as per I.S. 6012, in matt Champagne electro colour with colour fastness rating No. 8 of I.S. 1868-1982. Colour anodizing would be done only by electro-colour process. No visual variation in colour shall be permitted.

9.7.2 The anodic coating shall be properly sealed by steam or by boiling in de-iodized water as per I.S. 1868 and / or I.S. 6057. Sealing quality shall be tested in accordance with the relevant standards. Nothing extra shall be paid for above.

9.7.3 The contractor should satisfy himself by 100% checking in the factory that the thickness of the anodic coating is found to be minimum 15 microns and sealing quality appropriate everywhere. The testing shall be done by EDDY CURRENT METHOD as per I.S. 6012 for thickness. If any material is found substandard, the same shall be totally rejected. Requisite tests shall also be required to be carried out at site as instructed by the Engineer-in-charge and the contractor shall arrange all the equipments required for these tests at site. Nothing extra shall be paid for above.

9.7.4 All anodized aluminium works shall conform to relevant I.S. standards relating to materials, workmanship & fabrications respectively. Codes including I.S. 1868-1982, I.S. 733-1983 I.S. 1948-1961, I.S. 7088-1973, I.S. 6012-1970, I.S. 1285-1975, I.S. 740-1975 respectively are considered relevant and applicable.

9.7.5 A thick layer of clear transparent lacquer based on methacrylates or cellulose sty rate shall be applied on the anodised sections, before they are brought at site. This lacquer shall be removed after installations are complete or as an alternative, the

exposed surface of the aluminium sections shall be provided with gummed paper tape protection. After fixing and assuring of proper functioning of doors, windows etc, such protective layer shall be cleaned out/removed. Nothing extra shall be paid for above to the Contractor.

9.8 GLAZING

9.8.1 All glass panes shall be retained within aluminium framing by use of exterior grade neoprene gaskets. No water leakage should occur on the interior even if water penetrates exterior neoprene gaskets. Use of glazing or caulking compounds around the perimeter of glass will not be permitted. All fixed glass panes shall be supported by setting blocks. There should be no whistling or rattling. Before installation of glass, contractors shall ensure the following:

- a) All glazing rebates shall be square, to plumb, true to plane, dry and free from dust.
- b) Glass edge shall be clean and cut to exact size.
- c) Glazing shall provide such thermal expansion and contraction of components, as will be caused by temperature variations inside and outside without causing buckling stress on glass or detrimental effect on and structural elements components.

9.8.2 Samples of typical glazing shall be made and got approved by the Engineer-in-charge before mass installation is taken in hand.

9.9. PROTECTION AND CLEANING

9.9.1 After erection and removal of protective layer, all aluminium works including glass panes shall be washed with a suitable thinner and water to give a uniform clear appearance free from all marks and blemishes.

9.10 MEASUREMENT AND RATES

9.10.1 For Aluminium frame work, the payment shall be made as per actual weight in accordance with the procedure prescribed by Engineer-in-charge.

9.10.2 For fixed glazing and fixed laminated inserts, length and breadth of the area where glass panes etc. are to be seated, shall be measured correct to half a centimeter and area to be calculated in square meters correct to two places of decimal.

9.10.3 For open able shutters portion for all types payable on the area basis, clear openings of shutter shall be measured at its closed position correct to half centimeter and area shall be calculated in square meter correct to two places of decimal.

9.10.4 Prefabricated anodized aluminium decorative protective grill (including frame work) shall be measured correct to half a centimeter in both the directions and area worked out correct to two places of decimal.

- 9.10.5** It is made clear that items such as cleats/angles, other fixtures, nuts, bolts, screws etc., which shall be required for fabrication and erection of aluminium work as per this tender document, shall not be considered for the purpose of measurements and payment of various items. The rate of various items as per schedule of quantities is however inclusive of above elements and nothing extra shall be paid for the same.

10.0 VARIATION IN CONSUMPTION OF PIG LEAD

The pig lead for caulking of joints of SCI/CI pipes shall be issued as per theoretical consumption for SCI/CI pipes of size 100 mm, 75 mm & 50 mm, @ 0.98 kg., 0.88 kg. and 0.77 kg. per joint respectively. Over and above the theoretical quantities of lead as worked out, a variation of 5% shall be allowed for wastage etc. Any difference between the actual consumption of pig lead and theoretical consumption worked out on the above basis, including the authorized variation shall be recovered at the rate mentioned under schedule "F". Where the pig lead is arranged by the contractor, variation of 5% will be allowed. In case variation is on lesser side, the quantity of less pig lead used shall be recovered from the contractor at market rate to be determined by the Engineer-in-charge, whose decision in the matter shall be final & binding.

11.0 PAINT BROUGHT BY THE CONTRACTOR

- 11.1** The contractors shall bring sufficient quantity of paint of brand & shade approved by Engineer-in-charge prior to the commencement of work & keep it in his stores at site of work under double lock & key
- 11.2** The paint shall be issued to the contractor from time to time according to requirements for the work in the same manner as followed for issue of cement
- 11.3** Empty containers shall not be removed without the written permission of the Engineer-in-charge.

12.0 FIXING OF SCI/CI PIPE

The SCI/CI pipes and G.I. pipes, wherever necessary, shall be fixed to RCC columns, beams etc. with rawl plugs, or appropriate fasteners as approved by Engineer-in-Charge, and nothing shall be payable on this account.

13.0 MULTICOAT-SYNTHETIC PLASTER:---

This shall consist of two parts---(1) SCRATCH-PLASTER & (2) TERRACOT respectively.
whose composition shall be as under :--

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

AE

EE

i) **SCRATCH-PLASTER:** It shall have two component which comes in liquid & powder form. These shall be mixed at site before application in the ratio 25kg. Powder in 1.0 litre of liquid. Powder shall be made-up of acrylic powder polymer, inert filler material in powder form, finally graded silica (450 micron to 1.00mm graded) particles, Anti-fungal agents, Emulsifying agent (Extender) to prevent lumping of powder during mixing, Titanium di-oxide pigments for making it water-proof from exterior while allowing trapped water vapour breathability & Thyrotrophic agent for maintaining consistency of mix. & to prevent flowing of mix during application **(EUROFIN or equivalent)**. The surface to be covered shall be pre-cured & shall be applied with surface stabilization primer before application of Scratch-plaster

ii) **TERRACOAT:** -- It shall be made-up of Acrylic Co-polymer emulsion, crushed & precisely graded silica particles (500 micron & down size), high quality rutile (Purest form) grade Titanium di-oxide, fungicide, plasticizers & anti-corrosive agent **(EUROFIN Or equivalent)**. This shall be applied over scratch-plaster in two or more coats to get approved shade & pattern

- 13.1 Measurement:** -- Area of surface covered shall be measured to the nearest Sq. cms...
- 13.2 Rate:** -- Rate shall be inclusive of all materials & labour involved in its application & appurtenant operations involved therein

14.0 **SANITARY INSTALLATIONS /WATER SUPPLY / DRAINAGE**

- 14.1 For the work of water supply and sanitary installations, the contractor shall engage the approved licensed plumbers and submit the name of proposed plumbing agencies with their credentials for approval of the Engineer-in-Charge.
- 14.2 The entire plumbing drawing and sanitary installation drawings / details shall be submitted by the contractor and got approved by the Engineer-in-Charge and nothing extra shall be paid for on this account.
- 14.3 The work in general shall be carried out as per CPWD Specifications - 2019 Volume I and II modified / corrected upto last date of receipt of tender. Rate includes all materials, labour and all the operations mentioned in the respective items unless and otherwise specifically mentioned.
- 14.4 The tendered rates shall include the cost of cutting holes in walls, floors, RCC slabs etc. wherever required and making good the same for which nothing extra shall be paid.
- 14.5 Vitreous China sanitary fittings procured from firms Neycer, Hindware, Cera, Parryware shall only be used subject to approval of samples by the Engineer-in-Charge unless otherwise specified in the items.

- 14.6 C.P. Brass pillar taps, bib cocks, flush valves, angle valves etc. shall be of make Gem / Jaguar / Kingston as per sample approved by the Engineer-in-Charge. C.P. Brass bib cocks / angle valves shall be fixed with heavy duty CP flange for which nothing extra shall be paid.
- 14.7 The Centrifugally spun cast iron pipe IS:3989-1984 wherever necessary shall be fixed to RCC columns, beams etc. with dash fastener of approved quality and nothing extra shall be paid for on this account.
- 14.8 P or S floor traps (long arm upto 90cm length) in WCs shall be of deep seal type of approved make and shall have a minimum water seal of 75mm. While for floor traps (long arm upto 90cm length) shall have a minimum water seal of 50mm.
- 14.9 The contractor shall be responsible for all the protection of sanitary water supply fittings and fixtures against pilferage and breakage during the period of installation until the completion / handing over of the work.
- 14.10 Sanitary fixtures shall be of the best quality and shall be of approved make and manufacture (wherever specified) as defined in the item of work or defined anywhere in this document or shall be as mentioned in the CPWD specifications failing which the same shall be of ISI mark subject to approval by the Engineer-in-Charge. All fixtures and fittings shall be provided with all such accessories as are required to complete the item in working condition whether specifically mentioned or not in the Schedule of Quantities, specifications, elsewhere in this tender document & drawings. The quoted rates shall be deemed to be all inclusive for a complete item fit for use including all materials, labour, T&P, specials, equipments, testing & commissioning etc. Accessories shall include proper fixing arrangement, brackets, nuts, bolts, screws and required connection pieces. All the accessories shall be of the arrangements required and recommended by manufacturer including testing and commissioning.
- 14.11 The entire responsibility for the quality of work will however rest with the building contractor only and he shall submit a guarantee bond as per performa.
- 14.12 The contractor shall submit completion plans for water supply, internal sanitary installations and building drainage work within thirty Days of the date of completion. These plans are to be submitted on drawings prepared through computers (1 original copy plus 3 Photostat and one soft copy) on suitable scales to show the general arrangement and desired details. Nothing extra shall be paid for on this account. In case the contractor fails to submit the completion plans as aforesaid, security deposit shall not be released.
- 15.0** The order of preference in case of any discrepancy as indicated in condition no 8.1 under "Conditions of Contract" given in General conditions of contract for Central P.W.D. works 2019 form may be read as the following:

- 15.1 Description of item nomenclature in the schedule of quantities.
- 15.2 Particular specifications for Repair and Rehabilitation works (if applicable)
- 15.3 Particular specifications.
- 15.4 Additional and Special conditions.
- 15.5 Contract Clauses of General conditions of contract for Central P.W.D. works-2020.
- 15.6 CPWD specifications as mentioned in Schedule 'F'.
- 15.7 Architectural Drawings, if any.
- 15.8 Indian Standard Specifications.
- 15.9 Sound Engineering Practice.5

16.0 The words "Equivalent", "Approval" and authorized" in these specifications shall imply and require written approval of the Engineer-in-Charge.

17.0 The rates shall include the following:

- 17.1 All necessary materials, bolts, nuts, fasteners, nails, screws, rawl plugs, etc. as may be necessary to complete the work detailed in the specifications, whether or not specifically mentioned. The tenderer should ensure that he has studied the drawings carefully and should seek any clarifications he may have room the Executive Engineer, in-charge of the work. No extra claims will be entertained later on.
- 17.2 Cutting, making and repairing of any holes/opening Junction Box for electrical purpose etc. required for any light fittings, loudspeakers, air-conditioning grills etc.

18.0 BORING OF TUBEWELL

- 1 The work shall be got executed from the specialized agency as approved by the Engineer-in-Charge.
- 2 Contractor shall also submit the names of Boring of Tubewell Specialized Agency along with information about their technical capabilities and list of Similar Works executed by the Specialized Agency in the past for the approval of Engineer-in-charge within 30 Days from the date of award of work.
- 3 Contractor shall submit the details of boring & pipe lowering in bore hole after completion of boring in tabular form with details of natural strata layers etc.

SPECIAL CONDITION FOR NGT:

The guidelines regarding preventive measures for Air Pollution from demolition & construction activities issued by Delhi Pollution Control Committee vide no. DPCC/EIA/Res-001 to 172 /NGT-21/2015/225-408 dated 17.04.2015 in compliance of Hon'ble National Green Tribunal directions are applicable to the contractor. All appropriate protection measures as per NGT & DPCC guidelines shall be taken by the contractor at his own cost. Nothing extra shall be payable to the contractor on this account.

Hon'ble National Green Tribunal in its order dated 04.12.2014 in respect of air pollution from dust resulting from demolition and construction activity inter-alia has directed as follows:

- I. No government, authority, contractor, builders or any person would be permitted to store/dump construction material or debris on metalled road.
- II. Beyond the metalled road the area where such the construction material or debris can be stored shall be physically demarcated by officers of all the concerned Authorities/Corporation ensuring that it would not cause any obstruction to the free flow of traffic/inconvenience to the pedestrians. It should be ensured that no accidents occur on account of such permissible storage.
- III. Every builder, contractor or person shall ensure that the construction material is covered by tarpaulin and all other precaution should be taken to ensure that no dust particles are permitted to pollute air quality as a result of such storage. It shall also be ensured that appropriate protection measures are taken by raising wind breakers of appropriate height on all sides of the plot/area using plastic and/or other similar material to ensure that no construction material dust fly outside the plot area and it will be the builder/contractor responsibility to ensure that their activity does not cause any air pollution during course of construction and/ or storage of material or construction activity. This condition shall be strictly adhered to by every builder, contractor, person or authority. In the event of default they shall be liable to be prosecuted under the law in force, as well as for causing environmental pollution and will be liable to pay compensation which would be determined by Tribunal in accordance with law.
- IV. All the trucks or vehicles of any kind which are used for construction purposes/ are carrying construction material like cement, sand and other allied material should be fully covered. The vehicles should be properly cleaned should be dust free and every necessary precautions is to be taken to ensure that enroute their destination, the dust, sand or any other particles are not permitted to be released in air/contaminate air. Any truck not complying with the above directions would not be permitted to enter NCR, Delhi.

Hon'ble National Green Tribunal in order Dated 10.04.2015 interalia has directed as follows:

1. Every builder or owner shall put tarpaulin on scaffolding around the area of construction and the building. No person including builder, owner can be permitted to store any construction material particularly sand on any part of the street, roads in any colony.
2. The construction material of any kind that is stored in the site will be fully covered in all respects so that it does not disperse in the Air in any form.
3. All the construction material and debris shall be carried in the trucks or other vehicles which are fully covered and protected so as to ensure that the construction debris or the construction material does not get dispersed into the air or atmosphere, in any form whatsoever.
4. The dust emissions from the constructions site should be completely controlled and all precautions taken in that behalf.
5. The vehicles carrying construction material and construction debris of any kind should be cleaned before it is permitted to ply on the road after unloading of such material.
6. Every worker working on the construction site and involved in loading, unloading and carriage of construction material and construction debris shall be provided with mask to prevent inhalation of dust particles.
7. Every owner and or builder shall be under obligation to provide all medical help, investigation and treatment to the workers involved in the construction of building and carry of construction material and debris relatable to dust emissions.
8. It shall be the responsibility of every builder to transport constructions material and debris waste to construction site, dumping site or any other place in accordance with rules and terms of this order.
9. All to take appropriate measures and to ensure that the terms and conditions of the earlier order and these orders should strictly comply with by fixing sprinklers, creations of green air barriers.
10. Compulsory use of wet jet in grinding and stone cutting.
11. Wind breaking wall around construction site.
12. All the builders who are building commercial, residential complexes which are covered under the EIA Notification 2006 shall provide green belt around the building that they construct. All authorities shall ensure that such green belts are in existence prior to issuance of occupancy certificate.
13. All builders shall ensure that C&D waste is transported in terms of this order to the C&D waste site only and due record in that behalf shall be maintained by the builders, transporters and NCR of Delhi.
14. Even if constructions have been started after seeking environmental clearance under EIA notification 2006 and after taking other travel but is being carried out without taking the preventive and protective environmental steps as stated in this order and MoEF guidelines 2010, the State Government, SPCB and any officer of any department as aforesaid shall be entitled to direct stoppage of work.

Environmental Impact Assessment Guidance Manual for Building, Construction, Township and area development Projects of February, 2010 is available on the website of MoEF & CC envisaging the following guidelines for mitigation measures in respect of dust control from Building, Construction Projects:

“Adopting techniques like, air extraction equipment, and covering scaffolding, hosing down road surfaces and cleaning of vehicles can reduce dust and vapour emissions. Measures include appropriate containment around bulk storage tanks and materials stores to prevent spillages entering water courses.

The others measures to reduce the air pollution on site are:-

- Sprinkling of water and fine spray from nozzles to suppress the dust.
- On-Road-Inspection should be done for black smoke generating machinery.
- Promotion of use of cleaner fuel should be done.
- All DG sets should comply emission norms notified by MoEF.
- Vehicles having pollution under control certificate may be allowed to ply.
- use of covering sheet to prevent dust dispersion at buildings and infrastructure sites, which are being constructed.
- Use of covering sheets should be done for trucks to prevent dust dispersion from the trucks, implemented by district offices.
- Paving is a more permanent solution to dust control, suitable for longer duration projects. High cost is the major drawback to paving.
- Reducing the speed of a vehicle to 20kmph can reduce emissions by a large extent.

Speed bumps are commonly used to ensure speed reduction. In cases where speed reduction cannot effectively reduce fugitive dust, it may be necessary to divert traffic to nearby paved areas.

Material storages/ warehouses- Care should be taken to keep all material storages adequately covered and contained so that they are not exposed to situations where winds on site could lead to dust/particulate emissions. Fabrics and plastics for covering piles of soils and debris is an effective means to reduce fugitive dust.”

By way of these orders/notice you are hereby notified for mandatory strictly adherence to and compliance of the directions contained in the order of Hon’ble Tribunal as well as MoEF guidelines, 2010 in relation to precautions required to be taken while carrying on construction activities.

Copy of NGT orders dated 04.12.2014; 10.04.2015 copy of MoEF guidelines 2010 and copy of notice issued are available at the DPCC website also i.e. “<http://dpcc.delhigovt.nic.in>.”

Please note that the non-compliance of Hon’ble NGT order will make you liable for action as per law including the directions for stoppage of work.

Additional Special Condition Regarding EPF and ESI:

Now building and construction workers (BACW) are covered in the schemes framed under Employers' Provident Funds and miscellaneous provisions (EPF & MP) Act, 1952. Therefore, agency should ensure that all such construction workers to get their entitled social security benefits. Therefore, following provision should be adhere by the Agency.

- (1) The contractor whose bid is accepted will require to provide:
 - (i) Provident Fund Code Number:
 - (ii) The Contractor should ensure that all workers deployed by him at works are enrolled as members of Provident Fund and should be given the Universal Account Number (UAN).
 - (iii) Before clearing the bills of contractor certificate will be given by him that workers deployed on work are registered for EPF and the due contribution have been credit into their account.
 - (iv) If contractor fail to provide social security benefits to the workers engaged by the contractor this will be treated an offence under EPF & MP Act.
 - (v) As per ESIC provision contractor should have ensure that all workers deployed at construction site should get all ESI benefits as per rule.
- (2) Wages due to every worker deployed shall be paid to him direct by the contractor through Bank or ECS or Online Transfer to his Bank Account. (Modified vide OM No. DG/SE/CM/CON/283 dated 05.05.2015)
- (3) Contractor should upload within seven (7) Days of award of work following details in WBPMS on CPWD website by using PAN No. as user ID.
 - (a) Address and contact details of the contractor.
 - (b) Number of labour employed for the work.
 - (c) Copy of labour license.
 - (d) Registration details with EPFO, ESIC, BOCW Welfare Board.
 - (e) ESI Smart Card for labour.
 - (f) Details and mode of payment made to the labour along with details of ESI and EPF contribution paid on the part of employer.
 - (g) Prosecutions launched by CIRM.

The contractor will also responsible for update above information's as and when required.

LIST OF APPROVED MAKES OF MATERIALS
(FOR CIVIL WORKS)

Approved makes of materials to be used in the work are as given in the table below. In case of non-availability of these makes, the Engineer-in-charge may allow use of alternative makes after seeking approval of TS authority. Only BIS marked materials shall be generally used in the work. Non-BIS marked materials may be permitted by the Engineer-in-charge only when BIS marked materials are not manufactured.

S. No.	Material	Preferred Make
1.0	Excavation	
	Anti-Termite Pesticides - (Imidacloprid)	Bayer, FMC India, Hindustan Insecticides
2.0	Concrete Work	
(i)	Ordinary Portland Cement / Portland Pozzolana Cement.	ACC, Ultratech, Ambuja, Birla, JK
(ii)	White Cement	Birla White, J K White, Ultratech
(iii)	Construction Chemicals / Admixtures / Plasticizers / Super Plasticizers	BASF, FOSROC, Pidilite, Ardex Endura, Mapei, MC Bauchemic, Weber (Saint Gobain), Sika, MYK, Ferrouscrete.
(iv)	Concrete Curing Compounds.	FOSROC, Sika, BASF, Pidilite, CICO, Weber (Saint Gobain), MC Bauchemie, Mapei, Ferrouscrete.
3.0	Reinforced Cement Concrete	
(i)	Low alloy/ CRS Steel TMT Reinforcement Bars	SAIL (TMT HCR), Tata Tiscon (CRS), RINL (CRM/HSCRM), JSPL (Jindal Panther CRS) and JSW (Neo Steel CRS)
(ii)	TMT Reinforcement Steel bars	SAIL, Tata Steel, RINL, JSPL and JSW
(iii)	Mechanical Couplers for Reinforcement	Dextra India, Halfen, Sanfield, G-Tech
(iv)	Anchor fastener, Rebar chemical/Mechanical Fastener, Core Cutting, Expandable Fastener	Hilti, Fisher, Bosch, Wurth, Canon, Trixiel, 3M India
(v)	Ready Mix Concrete Plants	ACC, Ultratech, JK, Prism RMC Plant
(vi)	Aluminium customized Shuttering	S-Form, MFE, Eins Technik Pvt. Ltd. ALFOAC, MFS
(vii)	Alccofine	Ambuja, Lafarge, Holci
(viii)	Architecture Expansion/ Seismic Joint System	Migua, Sanfield, Kantaflex , Construction Specialties , Vexcolt, Hercules, DECG (Deevin)
(vix)	Core cutting	Hilti , Fischer, Wuerth

4.0	Water Proofing	
(i)	Crystalline Water Proofing Compound	Penetron Admix, Kryton KIM, Xypex C2000 Admix, Ferrouscrete (Dosage as per manufacturer specification or that required to achieve performance criteria of DSR item 22.22 i.e. more than 90% permeability reduction and resistance to hydrostatic pressure up to 16 bar, whichever is more)
(ii)	Water Proofing swellable bar/ Liquid membrane/ single component applied (spray applied for deck water proofing/ Elastomeric acrylic UV resistant liquid applied coating	CICO, Ardex Endura, MYK Laticrete, Pidilite, BASF, Fosroc, Sika, MC Bauchemie, Kryton, Mapei
(iii)	Waterproofing PU / Polyurea/ Acrylic / Elastomeric Cementitious / SRI Coating/	Grace, BASF, Fosroc, Pidilite, Sika
(iv)	Polysulphide Sealant for Joints joint width 25mm	Fosroc, Pidilite, Sika, Dow Corning, Wacker
(v)	Water proofing membrane HDPE based waterproofing white composite sheet	Fosroc, Pidilite, W.R. Grace, BASF, Sika, Weber (Saint Gobain), Mapei
(vi)	APP Sheet	Fosroc, Sika, Asianpaints
(vii)	Water proofing compound	BASF, Fosroc, Pidilite, Penetron, Sika, Mapei, MC Bauchemie, MYK, Ferrouscrete.
(ix)	Food Grade Coating for Water Tanks	Grace, BASF, Fosroc, Pidilite, Penetron, Sika, Mapei, MYK, Weber (Saint Gobain), Asianpaints
(x)	Structural Silicon sealant, Pre pigmented Weather Silicone	Dow Corning, Momentive (GE), Tremco, Wacker
5.0	Masonry Work	
(i)	AAC Blocks	ACC, Tata Tiscobuild, JK Lakshmi, Jindal Air, Birla Aerocon, Modcrete, Firecrete, Instablock
(ii)	AAC Block adhesive	Ultratech, Ardex Endura, Ferrous Crete, Weber (Saint Gobain), Asianpaints
(iii)	Ready mix polymer cement mortar	UltraTech, MYK Arment, Saintgobin -weber, Sika, Fosroc
(iv)	Concrete Block made from C& D Watse	Ultratech, Ardex Endura

6.0	Steel Work	
(i)	Structural Steel Sections / Tubular Sections	SAIL, Tata Steel, RINL, JSPL and JSW
(ii)	Dash / Anchor Fasteners, Rawl Plug	HILTI, Fischer, Bosch, Wurth, Canon
(iii)	EPDM Gasket	Schuco, Hanu, Raven, Anand
(iv)	Metal deck profile sheet	Ezydeck of TATA / Lloyd Superdeck, JSW
(v)	Roofing Steel Sheet (Precoated)	Tata Bluescope Steel Ltd., Jindal Steel, JSW Steel
(vi)	Polycarbonate Sheet	GE-LEXAN, Polygal, TufliteDalphalon, Coxwell
7.0	Aluminium Work	
(i)	Aluminium Extrusions	Hindalco, Jindal, NALCO
(ii)	Anodised Aluminium Hardware (HeavyDuty)	HARDIMA, EVERITE, Alu Alpha, Hindalco, Pulse of LGF Sysmac
(iii)	Aluminium Door & Window Systems	Schuco, Technal, Deceuninck, Eternia-Hindalco, AIS Windows, Alupure, Axsys, Elixir Metform
(iv)	Aluminium Glass Facade & Structural Glazing Systems	Schuco, Technal, Eternia-Hindalco, Dow, Lindner AG, Art N Glass, Elixir Metform, AIS Window system
(v)	Aluminium Composite Panels / Honeycomb Composite Panels / Aluminium-HPL Panels	Allucobond, Alstone, Aludecor, Reynoarch, Alutech
(vi)	Metal (Aluminium) Facade Panels	Hunter Douglas, Novelise, Dwall Metallic, Lindner AG, BEMO, Anakon
(vii)	Silicone Sealant / Weather Sealant / Fire Sealant / Polysulphide Sealant	Alstone, Sika, Dow, Choksey, Hilti, Wuerth (Promat), GE Plastics, Pidilite, FOSROC, BASF
(viii)	Compact Laminate Sheet	Greenlam, Merino, Fundermax
(viv)	Fire stops in curtain wall system	Hilti, 3M, STI, Siderise, Fischer, Astroflame, Lorient
(vv)	Pop out vent for façade and system window hardware	Giesse , Securistyle , Cotswold, Schuco , Technal, Schlegel, Alualpha, Aluk, Reynaers
8.0	Flooring	
(i)	Glazed, Ceramic & Vitrified wall / floor Tiles (Antiskid/Matt/Glossy)	Kajaria, Johnson, Somany, RAK, Vermora, Orientbell, Restile, Hindware.
(ii)	Epoxy Grouts / Tile adhesive / Polymer modified cementitious grouts/	Ardex Endura, Ferrouscrete, MYK Schomburg, Pidilite, FOSROC, Sika, Weber (Saint Gobain), MC Bauchemie, Mapei
(iii)	Epoxy flooring	MYK Schomburg, BASF, Flowcrete, Ardex Endura, FOSROC, Sika, Weber (Saint Gobain), MC Bauchemie

(iv)	Wooden Pre-Laminated Engineered Flooring	Vista, Action Tesa, Pergo, Apex, Lamiwood, Kronotex, Greenply, Floormax, Kahrs Enginner Wood product
(v)	PVC Flooring	Armstrong, Unitex, LG, Responsive Industries, Tarkett, Tremco
(vi)	Vinyl Flooring	LG, 3M, Forbo Responsive Industries, Wonderfloor, Tarkett, Armstrong, Tremco
(vii)	Floor hardener	Ironite, Ferrok, Hardonate, Weber (Saint Gobain), MC Bauchemie, Ferrouscrete.
(viii)	Carpet Flooring	Interface, Shaw, Welspun, CCIL, Milicon, Flotex
(ix)	Polyurethane Concrete Flooring, Epoxy flooring, Self Leveling Flooring	BASF, Fosroc, Ardex Endura, Sika, Mapei, MYK Arment, MC-bauchemie, Saint Gobain - Weber
(x)	Bamboo wood flooring and skirting	EPITOME, ESES Bio Wealth Pvt Ltd.
(xi)	Tile trim	Genesis, Surfaces, Construction Specialties
(xii)	Threshold	Genesis, Surfaces, Construction Specialties
9.0	Roofing / False Ceiling / Partition EPF	
(i)	Calcium Silicate / Mineral Fiber False Ceiling Tiles and frame work	Saint Gobain, Armstrong, Aerolite, Ramco Hilux, USG Borals, Anakon, Dexune
(ii)	Gypsum Board False Ceiling/Partition and frame work	Saint Gobain Gyproc., USG Boral Armstrong, Knauf AMF, Anakon, Dexune, Western
(iii)	Metal / U-Baffle / Open Cell / Wooden Laminated false ceiling i/c framework	Armstrong, Hunter Douglas, Lindner AG, Anakon, Dexune, Western, Gyptech.
(vi)	Rock Wool / Glass Wool	UP Twiga, Roxul (Rockwool), Rockloyd (Lloyd Insulations), Dhanbad Rockwool, Dexune, Rockfon
(vii)	Fibre cement board	HIL (Birla Aerocon), Bison (NCL), RAMCO Hicem, Everest, Visaka Industries, Dexune
(viii)	Extruded Polystyrene Insulation Board	Du Pont, Dow Corning, Supreme, Texas, Analco, Unitech-ikk, Sika
(ix)	Heat Resistant Tiles	Kajaria, Somany, Johnson, AGL
(x)	Dry wall Gypsum partition/ paneling system for toilet, Gypsum wall paneling	Saint Gobain, USG Boral, Knauf Danoline
(xi)	Acoustic panel	Envirotech Systems/Bajaj Acoutex/Silence Panel, Anutone, Techno Ceiling, Rockworth, KnaufArmstrong
(xii)	Access panel in False ceiling system	Saint Gobain, USG Boral, Knauf Danoline
(xiii)	Wood Wool Acoustical Panel	Envirotech Systems/Armstrong/ Rockworth,

10.	Doors / Windows / Wood work / Furniture/Partition/Fitting/SS Hardware	
(i)	Flush Door Shutter	Century, Greenply, Archidply, Duro, Marino, durian
(ii)	Ply Wood / Block Board	Century, Greenply, Merino, Archidply, Duro
(iii)	Laminated Particle Board / veneered Particle Board	Greenlam, Century, Archidply, Merino
(iv)	Laminates/Veneers	Greenlam, Century, Archidply, Merino
(v)	Acrylic sheet/Acrylic laminate	Rehau, Opulux, Treelam, Praveedh Décor, EGR
(vi)	Wood Plastic Composite (WPC) Board	Archidply, Century, Greenlam, Floresta, Rajshree, Alstone
(vii)	Factory made wooden Door Frames & Shutter	Jain wood Industries, Kutty, D S Doors, Duro, Ambika Wood, Shreeji Woodcraft, SM Corporation, Jain Doors Pvt Ltd
(viii)	Factory made kitchen cabinets, wardrobes etc.	Evoke, Godrej, Brown Crust, Sleek
(ix)	UPVC Doors & Windows	Fenesta, VEKA, KOMERLING, RHEAU, Aluplast, Wintech, Deceuninck, Green Fenestration technology, Saint Gobain
(x)	G.I. Steel Door Frame	Kutty Doors, Shakti Metdoor, NAVAIR, Synergy Thrislington.
(xi)	Fire Rated Metal/Wooden/Acoustic Doors (Glazed/Unglazed/sliding)	Tata Pravesh, Shakti-met, Pacific, Navair, Sukriti, Bhawani, Vetrotech, 4C Fire, Supreme Metwood, Shakti Hormann
(xii)	Fire Rated Glass	Pilkington, SCHOTT, FIRELITE, Saint Gobain, ASAHI, Pyroguard, Supreme Metwood, Hero-Fire.
(xiii)	Hardware for Fire Check Doors	Dorma, Hafele, Geze, Wuerth, Becker FS, Supreme Metwood
(xiv)	S.S. Hardware, Door & Window Fittings, Hinges	Dorma, Godrej, Hafle, Kich
(xvi)	Friction StayHinges	Hettich, Earl-Bihari, Kich
(xvii)	FloorSpring / Door Closer	Godrej, Dorma, Hafele, GEZE, Kich
(xix)	Modular Office & Home Furniture – Table, Chair, Sofa, Bed, Dining Table/Chairs etc.	Godrej, HNI, Fuego, Steelcase, Integrity, Featherlite, Rockworth
(xx)	Storage - Compactors, Metal Almirah etc.	Godrej, Compress, HNI, Integrity
(xxiii)	Window Blinds, blackouts, curtains, etc.	Vista, Deck, HuntarDouglas, Marvel
(xxiv)	All type of Door lock including Mortice locks	Dormakaba, Yale, Geze, Hafele, Kich, Godrej, Dorset

(xxv)	Aluminium extrusions (other than window)	Hindalco, Jindal, Indalco
(xxvi)	Fire Seal, Fire smoke Seal	3M, Hilti, Dormakaba, Lorient, Kilargo, Raven, Athmer, Promat, Pyran
(xxvii)	Modular Toilet Cubical	Action Tesa, Greenlam, Merino
(xxviii)	Urinal Partition made out of laminated compact sheet	Greenlam, Merino, Fundermax
(xxix)	Acoustic Seal / Door seal	Athmer, Lorient, Raven, Dormakaba, 3M, Kilargo, Reddiplex, Hafele
(xxx)	PVB/ SGP Laminate Film, Sentry film	Dupont, Saflex, Eastman, Kuraray, XDS, LG, 3M, Saint Gobain
(xxxi)	Wood Adhesive	Speedex Fevicol, Araldite, kerakol, Astral, 3M
11.	Finishing Works	
(i)	Ready Mix Plaster	Ardex Endura, Ferrouscrete, MYK Schmburg, Pidilite, FOSROC, Sika, Asianpaints
(ii)	Gypsum Plaster / Ready Mix Plaster/ Polymer modified self-curing Mortar	Saint Gobain (Elite 90), Ferrous Crete, Ardex Endura, Pidilite, FOSROC, Asianpaints
(iii)	Cement Primer	Nerolac, Berger, BP White (Berger), Decoprime WT(Asian), White primer (ICI), Acro paints
(iv)	Cement Based & Acrylic Wall putty	Birla, JK White, Asianpaints, Ferrous Crete, Acro paints
(v)	Oil Bound Washable Distemper	Asianpaints, Nerolac, Berger, Dulux ICI
(vi)	Acrylic Distemper (washable/ Real mix/ Low VOC)	Asianpaints (Tractor Aqua Lock Paint), Berger (Commando) Acro Paints (Aqualin AWD) or equivalent paints of Nerolac or ICI-Dulux.
(vii)	Acrylic Emulsion Paints	Asianpaints (Professional Premium Interior Emulsion Paint), Nerolac (Beauty Gold), Berger (Rangoli total care), ICI-Dulux (Super Cover), Acro Paints (Acropearl)
(viii)	Texture Finish	Asianpaints, Bakelite & Hylam, Spectrum, Heritage, Ultratech Texture Paints
	Exposed Concrete Texture Finish	Ultratech Texture Paints, Armourcoat, Oikos, Heritage, Spectrum
(ix)	Steel Primer (Red Oxide Zinc Chromate Primer)	Asianpaints, Nerolac, Berger, ICI-Dulux, Acropaints.
(x)	Synthetic Enamel Paint	Asian (Apolite Premium gloss enamel), Nerolac (Synthetic Hi gloss), Berger (Luxol Hi gloss), ICI- Dulux (Gloss Synthetic Enamel), Acro paints (Acrogold)

(xi)	Paint- Texture Concept Paints (Interior)	Asianpaints, Ultratech Texture Paints, Berger, acro paints
(xii)	Paint- Anti carbonation paint	Fosroc, Pidilite, BASF, Asianpant, Sika
(xiii)	Wood Primer	Asianpaints, Berger, ICI-Dulux, Nerolac.
(ix)	Melamine Polish for wood work	Asian Paints Melamine Gold, Wudfin of Pidilite, Timbertone of ICI-Dulux, MRF
(x)	PU polish for wood work	ICA, MRF, Asian, Berger
(xi)	Epoxy Paint	Asian, Nerolac, Berger, ICI, Kansai Akzo Nobel
(xii)	Fire Resistant Paint	Asianpaints, Akzo Nobel Coatings India Ltd., Viper.
(xiii)	Polyester Powder coating/ PVDF Coating	Jotun, Akzo nobel, Asian PPG, Nippon
(xiv)	Water & Stain repellent coating for stone cladding and stone Flooring	Killick Guard Speciality Products Limited, Dow Corning, Wacker, Akemi, MYK Laticrete, Ardex Endura, Weber
12. Water Supply & Sanitary Works		
(i)	Stainless Steel pipe and fitting of grade AISI 304 as per JIS standard 3448 for water supply line & Fittings	SAIL (Salem Steel), Jindal, J-Press
(ii)	G.I. Pipe	Tata Steel, Jindal Pipes, Surya Roshni, APL Apollo Tubes
(iii)	GI Pipe Fittings	Unik, Zoloto, Surya, Jinda Pipesl, Tata Steel
(iv)	U-PVC pipe and Fittings	Supreme, Finolex, Astral, Prince, AKG, Birla HIL
(v)	C-PVC pipe and Fittings	Supreme, Finolex, Astral, Prince, AKG, Ashirwad, Oriplast, Birla HIL
(vi)	M.S. Black Pipes	Tata, Jindal, SAIL, APL Apollo, Surya
(vii)	CP Fittings (Premium range)	Kohler, Jaquar, Grohe, Roca
(viii)	Sanitary ware / Fixtures / Fittings (Premium range)	Kohler, Grohe, Hindware, Jaquar, Roca
(ix)	Urinal Frosted Glass partition	Greenlam, Jaquar, Merino, Fundermax, Cera
(x)	Sensor Operated Urinal	Jaquar, Hindware, Roca, Kohlar
(xi)	Glass Mirror	Saint Gobain, Modi Guard, Atul, Pilkington, Cera
(xii)	Specially abled Fitting	Pressalit, Hindustan, Cardin
(xiii)	Gun Metal Valves/Sluice Valves/ Air Release Valves	Zoloto, Audco (L&T), Castle, Leader Valves, SKS
(xiv)	Sluice Valve / Pressure Reducing valve / Non-Return valve / check valve / Butter fly valve / ball valve	Zoloto, Kirloskar, Leader Valves, Zoloto, SKS, Castle, Audco (L&T)
(xv)	Toilet Cubicles	Merino (Titan Series), Greenlam (Sturdo Classic)

(xvi)	Glass Shower Partition	Dormakaba, Kich, Hafelle, Jaquar, Kohler
(xvii)	Insulation for external / exposed hot water pipes	KAIFLEX, ARMAFLEX, CAREFLEX
(xviii)	Pipe protection for external water supply pipes	PYPKOTE, ARMAFLEX, AKPOLYKOTE
(xix)	Water Meter	Prima, Kranti, Leader, Zoloto, Dashmesh
(xx)	Brass stop & Bib Cock	Zoloto, Sant, L&K, Leader,
(xxi)	Brass Ferrules	Dhawan Sanitary Udyog (PRIMA), Annapurna, Kalsi
13.	Drainage	
(i)	Soil Waste / Vent Pipes and Fittings:	
	a) Hubless Centrifugally Cast Spun Iron Pipe and fittings	NECO, SKF, Hepco, R.P.M.F. (Raj Pattern Makers & Founders Private Limited.)
	b) Centrifugally (Spun) CI Pipes Class 'LA' / Ductile Iron Pipe	Kesoram, Electro Steel Castings Ltd., NECO, R.P.M.F.
(ii)	C.I. Manhole covers, frames & GI Gratings	NECO, BIC, RIF, SKF, Hepco, Kapilansh, R.P.M.F.
(iii)	Unplasticized Non-Pressure Polyvinyl Chloride (PVC-U) Pipes underground conforming to IS: 15328-2003 & Fittings	Supreme, Astral, Finolex, Ashirvad
(iv)	Low noise system rain water pipes and fittings made of mineral reinforced Poly Propylene	Supreme, Astral, Finolex, Ashirvad
(v)	Drainage AC/HDPE Pipes	Jain Pipes, Oriplast, Reliance, MAZZA AC Pipes, Supreme
(vi)	DI Pipes & Fittings	Supreme, Electrosteel, Jindal, TATADUCTURA, Kesoram
(vii)	SFRC Manhole covers & gratings	KK, JAIN, PARGATI
14.	Stainless Steel & Glass Works	
(i)	Modular SS-304/316 Grade / Glass Railing with SS-304/316 grade Hardware	Dorma Kaba, GEZE, Hafele, Kich, Godrej, TATA, Art N Glass
(ii)	Stainless Steel Sink (Out of Salem steel)	Neelkanth, Niralli, Jayna
(iii)	Float Glass	Saint Gobain Glass India Ltd., Emirates Glass LLC, AIS Glass Solutions Ltd., Pilkington, Modi Guard, Glaverbel
(iv)	High Performance Glass	Saint Gobain Glass, Pilkington, Guardian, Emirates Glass LLC, Glaverbel, AIS Glass.
(v)	Lacquered Glass	Saint Gobain Glass, AIS Glass, Art N Glass, Guardian

(vi)	Glass Processor for making DGU/Toughening	Art N Glass, Shankar Tuff, Sheeshmahal, Shivshakti, GSC, Kaimapnat Glass, SK Tuff, AIS Glass
(vii)	Mirrors/ interior mirror (superior quality crystal clear)	Saint Gobain, Modi Guard (Gujarat Guardian), AIS, Sisecam, Pilkington
15.	Miscellaneous	
(i)	Terracotta Cladding Tiles	Nuvocotto, Terracon, Kajaria, Johnson, Hunter Douglas, Moeding, Anakon, Terreal
(ii)	SS Dry Cladding Anchor with SS Clamp	Hilti, Fisher, Wuerth, Trixel
(iii)	Solid Acrylic Surface Boards	Dupont, LG Himacs, Neonnex, Hanex, GMGR India
(iv)	Modular Expansion / Seismic Joint System	Herculus, Sanfield, Vexcolt, MigUA, Katanaflex, Inprocorp
(v)	Solid Surface (Corian)	Dupont, Neonnax, LG, Samsung
(vi)	Window Blinds	Vista, Deck, Hunter Douglas, MAC, TRAC
(vii)	Fire Sealant	Hilti, 3M India, Wuerth, Fischer
(viii)	Modular Rainwater Harvesting system	Retas Enviro Solutions Pvt Ltd, Bantair Pvt Ltd, Adwyn Impex Pvt Ltd, Life green system Ltd
(ix)	Precast GRC / Sand Stone Jali (Screen)	Unistone, Birla GRC
(x)	Wall Paper	D'décor, Lifencolours, India Circus, Ego, Vescom, Nilaya by Asian Paints, Muraspec, Marshalls
(xi)	XPS Board/ Dimple board	Supreme, Insuboard, Soprema, Own corning, Shalimar, Technonicol, Pidilite
(xii)	Expansion filler board	Supreme, Insuboard, Soprema, Shalimar, Own corning, Technonicol
(xiii)	Concrete / HDPE/Grass grid pavers	Ovilite Industries, Eco Vision Industries, Dalal, Unistone
(xiv)	Drain board	Ovidrain, Tikidan, Technonicol, Virendra textile, Soprema
(xv)	Expansion Joint filler / Joint covers	Vexcolt International Ltd, Construction Specialities, Sainfield, Hercules, MIGUA, Mapei, Balco India, Z-tech, Inprocorp
(xvi)	Poly-sulphide Sealant for Joints joint width up to 25 mm	Pidilite, Sika, Dow Corning, Wacker
	EXTERNAL DEVELOPMENT WORK	
(i)	Safety and road marking paint & equipment	3M India Ltd, Protector, Ananta Inc, Asian (paint)

Note: Makes other than specified above (if necessary) shall be approved by **the Executive Engineer, Kaushambi, CPWD, Ghaziabad with prior approval of CE/Ghaziabad.**

The firm has to ensure that equipment manufacturer comes under definition of local manufacturers as per Govt. of India, Policy of Public Procurement (Preference to make in India) order, 2017 (PPM-MII order 2017) issued by Department of Industrial Policy and Promotion. Only products conforming to above policy shall be allowed to be used in the work.

**Executive Engineer Kaushambi,
CPWD, Ghaziabad**

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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ANNEXURE-I**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**

Whereas the **Executive Engineer, Kaushambi Division, CPWD, Ghaziabad** on behalf of the President of India (hereinafter called "The Government") has invited bids under **05/EE/Kaushambi/NIT/2026-27** dated..... for **A/R & M/O of various Residential & Non-Residential buildings of CISF Campus, 5th RB Indirapuram, Ghaziabad (UP) during 2026-27 (SH:- Civil works and E&M Works).**

1. The Government has further agreed to accept irrevocable Bank Guarantee for Rs..... (Rupees..... only) valid upto (date)*..... as **Earnest Money Deposit** from (Name and address of contractor) (Here in after called "the Contractor") for compliance of his obligations in accordance with the terms and condition of the said NIT.

OR**

Whereas the **Executive Engineer, Kaushambi Division, CPWD, Ghaziabad** on behalf of the President of India (hereinafter called "the Government") has entered into an agreement bearing number.....with..... (name and address of the contractor).....(hereinafter called "the Contractor") for execution of work **A/R & M/O of various Residential & Non-Residential buildings of CISF Campus, 5th RB Indirapuram, Ghaziabad (UP) during 2026-27 (SH:- Civil works and E&M Works).**

- . 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.

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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3. We, _____ (indicate the name of the bank) do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (Rupees..... only).
4. We, (indicate the name of the Bank), further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any Court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the contractor shall have no claim against us for making such payment.
5. We, (indicate the name of the Bank) further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said contractor or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. We, (Indicate the name of the Bank) further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a Principal debtor at the First instance without proceeding against the Contractor and notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.
7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.
8. We, (Indicate the name of the Bank) undertake not to revoke this guarantee except with the consent of the Government in writing.

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

Date.....

Witnesses:

1. **Signature.....**
Name and Address

Authorized Signatory
Name
Designation
Staff code no.
Bank seal

2. **Signature**
Name and Address

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

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

ANNEXURE-II**GUARANTEE TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER PROOFING WORKS.**

The agreement made this.....day of Two Thousand BetweenS/o of Shri (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 GURANTOR agreed to give a guarantee to the affect that the said work will remain water and leak proof, for FIVE years from the date of giving water proofing treatment.

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 FIVE years to be reckoned from the date of 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.

During the period of guarantee, the guarantor shall make good all defects and in case of any defect 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 Guarantors 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 there under, then the guarantor will indemnify the principal and his successor against all loss, damage, cost expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and or cost incurred by the Government, the decision of the Engineer in Charge will be final and binding on both the parties.

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

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

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

SIGNED FOR AND ON BEHALF OF THE PRESIDENT OF INDIA BY.....

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

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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ANNEXURE-III**FORM OF BANK GUARANTEE BOND FOR SECURITY DEPOSIT
FOR THE WORK OF WATER-PROOFING WORKS**

1. In consideration of the President of India (hereinafter called "The Government") having agreed to exempt (Here in after called the said contractor(s)) from the demand, under the terms and conditions of the Agreement No. dated Made between and For the work of (hereinafter called "The said Agreement") security deposit for the due fulfillment by the said contractor(s) of the terms & conditions contained in the said Agreements for the work of Anti termite Treatment water proofing work on production of a irrevocable Bank Guarantee for Rs. (Rupees only), for FIVE years we (Indicate the name of the bank) (Here in 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.
2. We (indicate the name of the bank) do hereby undertake to pay the amounts due and payable under this Guarantee without any demure, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under the Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (Rupees only).
3. We (indicate the name of the bank) further undertake to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal.

The payment so made by as under this bond shall be a valid discharge of our liability for payment there under and the contractor(s) shall have no claim against us for making such payment.
4. We (indicate the name of the Bank) further agree that the guarantee hereinafter contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in-charge on behalf of the Government certified that the terms and condition of the said agreement have been fully and properly carried out by the said contractor(s) and accordingly discharges this guarantee.

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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5. We (indicate name of the bank) further agree with the Government that the government shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor(s) and to for bear 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 contractors(s) or for any bearance, act of commission of the part of the Government or any indulgence by the Government to the said contractor(s) or by any such matter of thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of Bank or the contractor(s).
7. We (Indicate the name of the Bank) lastly undertake not to revoke this guarantee except with the previous consent of the Government in writing.
8. This guarantee shall be valid upto unless extended on demand by Government. Now withstanding 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 six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

Date the day of for
(Indicate the name of Bank)

Executive Engineer
 Kaushambi Division,
 C.P.W.D, Ghaziabad

Addition: NIL Correction: NIL
 Overwriting: NIL Deletion: NIL

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SCHEDULE OF QUANTITY

(MAJOR COMPONENT: CIVIL WORKS)

**Name of work : A/R & M/O of various Residential & Non-Residential buildings of
CISF Campus, 5th RB Indirapuram, Ghaziabad (UP) during
2026-27 (SH:- Civil works and E&M Works)**

Item No.	Description of Item	Quantity	Unit	Rate	Amount
1	Providing and fixing 1 st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	140.00	Sqm	1267.95	177513.00
2	Providing and fixing ISI marked flush door shutters conforming to IS :2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
2.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	42.00	Sqm	2392.65	100491.00
3	Providing and fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15X3 mm and nuts & bolts complete.				
3.1	Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	210.00	Sqm	1133.55	238046.00

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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4	Providing and fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with:				
4.1	4.0 mm thick glass panes	189.00	Sqm	1064.65	201219.00
5	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/sqm including grouting the joints with white cement and matching pigments etc., complete.	70.00	Sqm	1330.00	93100.00
6	Providing and fixing unplasticised - PVC pipe clips of approved design to unplasticised - PVC rain water pipes fixing with 50mm PVC Rawl Plug and 50mm SS/MS screws, complete as per direction of Engineer-in-Charge.				
6.1	For 110 mm dia pipe	100.00	Each	45.55	4555.00
7	12 mm cement plaster of mix:				
7.1	1:6 (1 cement: 6 fine sand)	950.00	Mtr.	333.35	316683.00
8	15 mm cement plaster on the rough side of single or half brick wall of mix :				
8.1	1:6 (1 cement: 6 fine sand)	950.00	Sqm	383.00	363850.00
9	Finishing walls with Acrylic Smoth exterior paint of required shade:-				
9.1	New wark (Two or more coat applied @ 1.67 jitr/10 sqm over and including priming coat of exterior primer applied 0.90 litre/10 sqm)	1900.00	Sqm	160.60	305140.00

10	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	1900.00	Sqm	156.05	296495.00
11	Distemping with 1st quality acrylic distemper (ready mixed) having VOC (Volatile Organic Compound) content less than 50 gram/litre, of approved brand and manufacturer including applying additional coats wherever required to achieve even shade and colour				
11.1	Old work (one or more coats)	10500.00	Sqm	62.70	658350.00
12	Painting with synthetic enamel paint of Japproved brand and manufacture of required colour to give an even shade:-				
12.1	One or more coats on old work	1050.00	Sqm	102.80	107940.00
13	Finishing walls with Acrylic Smoth exterior paint of required shade:-				
13.1	Old work (One or more coat applied @ 0.90 ltr/10 sqm).	7700.00	Sqm	80.65	621005.00
13.1.1	Cleaning of terrace/loft water storage tank (inside surface area) upto 2000 litre capacity at Jall heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with hieaching powder @ 0.5gm per iitre capacity of tank including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black nothing extra will be paid on this account) paint and if date is not written with the stencil or old date is not removed deduction will be. made @ Rs. 0.10 per litre) (if during cleaning any Gi fittings or hall cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)	100000.00	Ltr.	0.50	50000.00

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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14	Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.	105.00	Each	108.30	11372.00
15	Cleaning of under ground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:-	480.00	Sqm	84.85	40728.00
16	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead:				
16.1	of area 3 sq. metres and below	50.00	Each	143.50	7175.00
17	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including dispersal of rubbish to the damping ground within 50 metres lead.	1900.00	Sqm	54.65	103835.00
18	Providing and fixing soil, waste and vent pipes :				
18.1	100 mm dia				
18.1.1	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	200.00	Metre	1180.75	236150.00
19	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
19.1	100 mm dia				
19.1.1	Sand cast iron S&S as per IS - 3989	20.00	Each	705.20	14104.00
20	Providing and fixing plain bend of required degree.				
20.1	100 mm dia				
20.1.1	Sand cast iron S&S as per IS : 3989	20.00	Each	570.05	11401.00
21	Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damage as required (Raising depth of manhole to be paid separately):				

21.1	Rectangular manhole 90x80 cm with rectangular cover 600 x 450 mm of grade LD-2.5	10.00	Each	2625.50	26255.00
21.2	Rectangular manhole 120x90 cm with circular cover 500 mm dia of grade MD-10	10.00	Each	4168.05	41681.00
21.3	Rectangular manhole 120x90 cm with circular cover 560 mm dia of grade HD-20	10.00	Each	3881.50	38815.00
21.4	Circular manhole 140 cm dia with circular cover 600 mm dia of grade EHD-35	10.00	Each	320.15	3202.00
22	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/Clerestory windows & other Frames/Chowkhat comprising of virgin PVC polymer of K value 518-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/rice husk/wheat husk) and non toxic additives [maximum toxicity index of 12 for 100 gms) fabricated with miter jointa after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm ² , modulus of elasticity 900 N/mm ² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. (M.S hold fast/lugs or SS dash fasteners shall be paid for separately).				

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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23	Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions ie depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.				
23.1	Frame size 65 x 100 mm	150.00	Mtr.	1111.30	166695.00
24	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid decorative type flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm ² , modulus of elasticity 850 N/mm ² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant. WPC to be laminated with PVC foil of minimum 14 microns thick of approved design pasted with hot melt adhesive on both faces of shutter and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In-Charge. (Note: stainless steel butt hinges and necessary SS screws shall be paid separately)				
24.1	30 mm thik	48.00	Sqm	4764.20	228682.00

25	Maintenance of Residential and Non-Residential Building during the year 2025-26 situated at CISF, Indirapuram, Ghaziabad by attending the complaints pertaining of Sewerman after recereling the complaints from CISF Department or any other authorized representative within Eight hours on receipt of complaints including all T&P, its transportation, loading, unloading, all scaffolding etc. required for the job shall be made available by the agency and nothing extra shall be paid for the same complete as par direction of Engineer-in-charge				
	Sewerman	24.00	Month	30590.00	734160.00
				Total	5198642.00
				Correction Factor on DSR 2023 on Account of GST @ 0.973	50,58,279.00
				Add cost index @ 5 %	252914.00
				TOTAL	53,11,193.00

**Executive Engineer
CPWD, Kaushambi,
Ghaziabad**

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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PART-C

E&M WORKS

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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PROFORMA OF SCHEDULES**SCHEDULE-A**

Schedule of quantities- Enclosed in Page No: - **111 to 122**

SCHEDULE-D

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

SCHEDULE-E

Reference to General Conditions of contract: - General Conditions of Contract
Construction work-2023, CPWD form 7 as modified & corrected up to previous day of the
last date of submission of tender.

Name of work: **RMO various services at residential and non-residential area of CISF, Indrapuram, Ghaziabad (SH:- Maintenance of electric installation)**

Estimated cost of work:- **Rs. 42,00,239/-**

(i) Earnest money:- (As per Civil Component)

(ii) Performance Guarantee:- (As per Civil Component)

(iii) Security deposit :- 2.5% of tendered value

SCHEDULE 'F'

General Rules & Directions: -

Officer inviting tender: Executive Engineer, Kaushambi Division,
CPWD, Ghaziabad

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) **See Clause – 12 below**

Definitions:

2 (v) Engineer-in-Charge Executive Engineer (E), Ghaziabad
Electrical Division, CPWD, Hindan,
Ghaziabad.

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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2 (viii)	Accepting Authority	Executive Engineer, Kaushambi Division, CPWD, Ghaziabad
2 (x)	Percentage on cost of materials and labour to cover all overheads and profits.	15%
2 (xi)	Standard schedule of Rates	Market Rate/ DSR 2023, Internal & External amended upto date.
2 (xii)	Department	C.P.W.D.
9 (ii)	Standard CPWD contract form	General Conditions of Contract Construction work-2023 , CPWD form 7 as modified & corrected up to previous day of the last date of submission of tender.

Clause 1

(i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance.

(As per Civil Component)

Maximum allowable extension with late fee @ 0.1% per day of performance guarantee amount beyond the period provided in (i) above

(As per Civil Component)

Clause 2

Authority for fixing compensation under clause 2

(As per Civil Component)

Clause 2A

Applicable clause 2/ Clause 2A

:

Clause-2

Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start

(As per Civil Component)

MILE STONE (S), AS PER TABLE GIVEN BELOW
TABLE OF MILE STONE

Sl. No.	Financial Progress	Time allowed (From date of start)	Amount to be with-held in case of non- achievement of milestone.
(As per Civil Component)			

Time allowed for execution of work (As per Civil Component)

Authority to decide:	
(i) Authority to convey the decision of shifting of milestone and extension of time	(As per Civil Component)
(ii) Authority to decide rescheduling of milestone and extension of time	(As per Civil Component)
(iii) Shifting of date of start in case of delay in handing over of site	(As per Civil Component)

PROFORMA OF SCHEDULES

Clause 5 Schedule of handing over of site

Part	Portion of site	Description	Time Period for handing over reckoned from date of issue of letter of intent.
Part-A	Portion without any hindrance	(As per Civil Component)	(As per Civil Component)
Part-B	Portions with encumbrances		
Part-C	Portions dependent on work of other agencies		

CLAUSE 5

Applicable Clause 5/ Clause 5A : Clause 5

Clause 6:

Mode of measurement (As per Civil Component)

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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Clause 7:

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

Rs. 5 lakh or reasonable part thereof

Facilitate the work.

Clause 7A

Whether Clause 7A shall be applicable

Yes

Clause 10A

List of testing equipment to be provided by the contractor at site lab.

As per attached Annexure 'A'

Equipment required for field test as per specification for the item under execution as per agreement

Clause 10 – B(ii)

Whether clause 10-B(ii) shall be applicable

No

Clause 10C -

(As per Civil Component)

Component of labour as expressed of value of work

(As per Civil Component)

Clause 10CC

(As per Civil Component)

Clause 11

Specifications to be followed for execution of work

CPWD General Specifications for Electrical Works Part-I Internal 2023& External P-II 2023

Clause 12

12.2 Deviation limit beyond which clauses 12.2 (c) shall apply for building work

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

(As per Civil Component)

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

AE

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Clause 16

Competent Authority for deciding reduced rates.

Chief Engineer (GZB), CPWD, Hapur Chungi, Ghaziabad

Clause 18

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

As per attached Annexure 'A'

Clause 19 C..... authority to decide penalty for each default

Engineer- in-charge.

Clause 19 D..... authority to decide penalty for each default

Engineer- in-charge.

Clause 19 Gauthority to decide penalty for each default

Engineer- in-charge.

Clause 19 Kauthority to decide penalty for each default

Not Applicable

Clause 25

(i)	Conciliator:	(As per Civil Component)
(ii)	Arbitrator appointing authority:	(As per Civil Component)
(iii)	Place of Arbitration	(As per Civil Component)

Clause 32

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

Sl. No.	Requirement of Technical		Minimum Experience (Years)	Designation Technical Staff	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36 (i)	
	Qualification	Number of Major + Minor component			Figures (in Rs.)	Words
1.	(As per Civil Component)					

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

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

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

AE

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Clause 38		
(i)	(a) Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2023 printed by CPWD with upto date correction slips till last date of submission of tender.	
(ii)	Variations permissible on theoretical quantities:	
a)	Cement For works with estimated cost put to tender not more than Rs. 25 lakhs	3% plus/minus
	(ii) For works with estimated cost put to tender more than Rs 25 lakh	2% plus/minus
b)	Bitumen for all works.	2.5% on plus side only & nil on minus side
c)	Steel Reinforcement and structural steel sections for each diameter, section and category.	2% plus/minus
d)	All other materials.	Nil

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

Sl. No	Description of Item	Rates in figures and words at which recovery shall be made from the Contractor.	
		Excess beyond permissible variation	Less use beyond the permissible variation
Not Applicable			

ANNEXURE 'A'
Clause- 10 –A & 18

**List of mandatory machinery, tools and plants & testing Equipment to be deployed
by the contractor at site**

1.	Steel/Aluminium Ladder 1.5 m to 8 m.	2 Nos.
2.	Wall grooving machine for Chase cutting	2 Nos.
3.	Electrical wire drawing equipment.	2 Set.
4.	Torque wrench for nut/bolt/screws.	2 Nos.
5.	Conduit die set.	2 Set.
6.	Pipe vice.	1 No.
7.	Bench vice.	1 No.
8.	L.T. Meggar 500/1000 volts.	1 No.
9.	Tong Tester.	1 No.
10.	Multimeter.	1 No.
11.	Hydraulically operated & hand Operated crimping machine.	1 No.
12.	Earth tester.	1 No.
13.	Portable Ordinary drilling machine.	2 Nos.
14.	Portable Hammer drilling machine.	2 Nos.
15.	Overhead conduit puller.	1 No.

Name of Work: - A/R & M/O of various Residential & Non-Residential buildings of CISF Campus, 5th RB Indirapuram, Ghaziabad (UP) during 2026-27 (SH:-Misc. Civil repair works and E&M Works).

Eligibility condition for Associate agency for execution of Providing EI and Fan, External Elect. Work.

The main contractor/agency has to submit detail of such agency to be associated to the **Engineer-in-charge (SITC of EI and Fan, External Elect. Work)** within fifteen days from date of start of work. The associate agency shall be approved by Engineer-in-charge (**SITC of EI and Fan, External Elect. Work**). In case the main contractor intends to change associated agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer-in-charge (**SITC of EI and Fan, External Elect. Work**). The associated specialized agency shall also have to satisfy the laid down eligibility criteria mentioned below. In case Engineer-in-charge is not satisfied with the performance of any agency, he can direct the main contractor to change the agency executing such items of work and this shall be binding on the contractor.

Eligibility condition for Associate agency for execution of EI and Fan, External Elect. Work

The main agency has to associate agency of **EI and Fan, External Elect. Work**

The associate agency should have successfully completed similar works during last 7 years ending last day of month previous to the one in which tenders are invited.

- (i) Three similar works each of value not less than 40% of the estimated cost.
OR
- (ii) Two similar works each of value not less than 60% of the estimated cost.
OR
- (iii) One similar works each of value not less than 80% of the estimated cost.

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

Similar work shall mean works of "EI and Fan, External Elect. Work".

However, the composite category contractor shall also be carrying out this work himself without associating any agency provided: -

- a) He fulfils the prescribed eligibility criteria respectively for these work(s).
OR
- b) He directly procures the equipment of approved make from manufacturer and get it installed from authorized agency/ service provider of the manufacturer or specialized agency as per criteria mentioned in the NIT.

MEMORANDUM OF UNDERSTANDING [M.O.U] BETWEEN

- 1] M/S [Name of the firm with full address]
Enlistment Status
Valid Upto:
[Henceforth called the main contractor]

And

- 2] M/S [Name of the firm with full address]
Enlistment Status
Valid Upto:
[Henceforth, called Associated Contractor]

Name of Work :- A/R & M/O of various Residential & Non-Residential buildings of CISF Campus, 5th RB Indirapuram, Ghaziabad (UP) during 2026-27 (SH:-Misc. Civil repair works and E&M Works).

[Electrical Component only] as per schedule, specifications, terms and conditions of the tender.

We state that M.O.U. between us will be treated as an agreement and has legality as per Indian Contract Act (amended up to date) and the department (CPWD) can enforce all the terms and conditions of the agreement for execution of the above work. Both of us shall be responsible for the execution of work as per the agreement to the extent of this MOU allows. Both the parties shall be paid consequent to the execution as per agreement to the extent this MOU permits.

We have agreed as under :

- 1- The associated contractor shall be liable for disciplinary action if he failed to discharge the action(s) and other legal action as per agreement besides forfeiture of the security deposit.
- 2- All the material, machinery and equipments, tools and tackles required for execution of the electrical works as per agreement shall be the responsibility of the associated contractor.
- 3- The site staff required for the electrical work shall be arranged by the associated contractor as per terms and conditions of the agreement.

SIGNATURE OF MAIN CONTRACTOR

Date
Place

**SIGNATURE OF ASSOCIATED
CONTRACTOR**

Date
Place

**COUNTERSIGNED
EXECUTIVE ENGINEER (E)**

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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CONSENT LETTER PROFORMA FOR ELECTRICAL AGENCY

I/We..... hereby give my /our consent to work, as associated electrical contractor for the composite work.

Till the completion of work, I/We will be responsible for necessary action to hand over the installation and for the rectification of defects and repair during the maintenance period.

I/We will execute the work, as per CPWD general specifications, as amended up to date & additional conditions of the contract.

I/We will also engage suitable / Qualified Engineer for the work, as per condition of the contract. I/We will further certify the particulars shown in certificate for associating electrical agency and pertaining to me/us are correct.

Date:

Signature of Electrical Agency

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

AE

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PROFORMA OF CERTIFICATE FOR ASSOCIATING ELECTRICAL AGENCY

**(To be submitted by the lowest tenderer, after approval of tender,
by the Competent Authority)**

1. This certificate that we have not deviated from the technical specification and commercial provisions provided in the tender.
2. The price bid is unconditional.
3. This is certified that we proposed to engage, one of the following Electrical Contractor of appropriate class, as detailed below:

		I	II	III
(i)	Name of Contractor			
(ii)	Address			
(iii)	Class of Registration			
(iv)	Maximum ceiling limit to execute the Electrical Work			
(v)	Validity of Registration			
(vi)	Registration Details with CPWD along with copy of registration			
a.	Registered (Yes/No)			
b.	Monetary limit of work			
c.	Validity of registration			
d.	Debarred from tendering (Yes/No)			

4. Within 30 days of the award of work, the main contractor will submit MOU signed with electrical contractor registered in appropriate class along with consent letter of electrical contractor.

(*) To be filled by contractor.

(Signature of Contractor)

AFFIDAVIT

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 bidding in CPWD in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee. **(Scanned copy to be uploaded at the time of submission of bid).**

Signature of bidder(s) with stamp

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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WILLINGNESS CERTIFICATE

Name of Work: - RMO various services at residential and non-residential area of CISF, Indrapuram, Ghaziabad (SH:-Maintenance of electric installation)

I hereby give my willingness to work as associated contractor for the above-mentioned work.

I will execute the work as per specifications and conditions for the agreement and as per direction of the Engineer-in-charge. Also, I will employ full time technically qualified supervisor for the works. I will attend inspection of officers of the department as and when required.

Date :

Signature of Contractor

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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**(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 Bank Guarantee for Rs. (Rupeesonly) valid upto . (date)*..... as Earnest Money Deposit from (name and address of contractor)..... .(hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR**

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

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

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Overwriting: NIL Deletion: NIL

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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 intitules 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 bother 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 clam in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date.....

Witnesses:

Signature.....
Name and Address

Authorized signatory

Name

Designation

Staff code No.

Bank Seal

Signature.....

Name and Address

Addition: NIL Correction: NIL
 Overwriting: NIL Deletion: NIL

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

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

GENERAL TERMS AND CONDITIONS

1. The work is to be carried out to the entire satisfaction of the Engineer-in-charge and as per CPWD specifications as amended up to date.
2. The maintenance of work shall be done as per rules & specifications of CPWD and as per i.e. rules and acts, as amended up to date.
3. The contractor's personnel will be required to maintain the log book and other records as prescribed by the department.
4. In case of any complaint against any of the personnel of the contractor. The said person will be replaced immediately by contractor. The decision of the departments shall be final and binding on the contractor.
5. The contract can also be terminated any time during the currency of the contract without assigning any reason by giving a notice in writing of ten days for which no claim will be entertained.
6. Boarding and lodging of the personnel of the contractor will be responsibility of the contractor. The arrangement will not be permitted inside the campus.
7. All installation shall be kept clean and safe from risk of fire/theft/accidents and damage etc.
8. Any damage done to the building, installations etc. due to the negligence of the contractor's Labour shall be made good by the contractor free of cost
9. The contractor shall arrange his own T & P etc. He will also arrange petty material like Log Book, old Dhoti, soap, Cleaning chemical, duster etc. for which nothing extra shall be paid.
10. The workers employed by the contractor for this job are purely employee / responsibility of the contractor. No claim is entertained at any stage for absorbing in Govt, Job.
11. It shall be entirely the responsibility of the contractor to ensure that no unlawful act is done by his persons while on duty. In case any theft/loss of department property takes place due to the negligence or carelessness of his personnel, the contractor will be held responsible and shall make good the same.

12. The firm/contractor shall maintain wages record of workers and he should not pay wage less than the minimum wages as prescribed/amended by the labour Ministry from time to time.
13. The staff employed by the firm for the maintenance works shall wear proper uniform. Nothing extra shall be paid on this account. If any worker found without dress then a recovery @ Rs. 50/- per day /per worker will be charged.
14. No Contractor or his staff shall be allowed to use or shall stay in service centre, pump house, switch room, DG set room beyond duty hours.
15. Complaint register, attendance register and other records will have to be produced either daily according to the requirement or as & when asked to do so by the Engineer-in-charge or his authorized representative.
16. No residential accommodation shall be provided to any of the staff engaged by the contractor. The contractor shall also not be allowed to erect any temporary set up for staff in the campus.
17. All electrical works shall be carried out in accordance with the provisions of Indian Electricity Act, 2003 and Indian Electricity Rules, 1956 as amended up to date. They shall also conform to CPWD General Specification for Electrical Works, part-I (internal, 2023 and Part-II (External), 2023.
18. Safety of the staff employed will be the responsibility of the contractor. CPWD will not be responsible for any mishap, injury / accident or death of the staff. No claim in this regard shall be entertained / accepted by the department.
19. Contractor shall be fully responsible for any damages caused to govt. property or allottee's property by his or his labour during the carrying out the work. All such damages shall be rectified by the contractor at his own cost, failing which the same will be got rectified by Engineer-in-charge and the expenditure incurred shall be recovered from the contractor bill.
20. Contractor may note that TDS on account of statutory provisions on GST / Income Tax /Labour Welfare Cess etc as applicable shall be recovered from the contractor's bill.

21. The contractor shall be solely responsible for compliance of various statutory obligation (including the financial liabilities) under contractor labour regulation & abolition Act. Minimum wages act etc. and other applicable laws and rules framed their under from time to time. The minimum wages applicable time to time shall be paid to the workers by the contractor through cheque/ECS upto 10th of every month and receipt of payment made shall be submitted to the concerned AE(E)/JE(E) for preparation of bill.
22. The workers employed by the contractor for this job are purely employee / responsibility of the contractor. No claim is entertained at any stage for absorbing in Govt. Job.
23. Staff deputed by the firm shall assist each other as & when needed as per requirement of site.
24. Before commencement of the work, both department and contractor shall sign the inventory of the installation and accessories as an acceptance of physical existence of the same and all new components/control/accessories to be provided during the course of maintenance shall be included in inventory. After expiry of contract, the same procedure shall be followed.
25. The contractor is fully responsible for persons employed by him "Bio-Data" of the staff engaged shall be submitted by the contractor to the Assistant Engineer (E) within one week before actual engagement on the work. Only persons found fit will be allowed to be engaged on work.
26. The staff engaged has to be courteous and maintain good behavior at site. Any person find discourteous or misbehavior shall have to be replaced with in 48 hours. Decision of the Engineer-in-Charge shall be final and binding on the contractor. No Contractor or his staff shall be allowed to use or shall stay in service centre, pump house, switch room, D G set room beyond duty hours.
27. Contractor is advised to visit site before quoting rates for determining site conditions. No claim or argument shall be entertained in this regard at later stage.
28. All the LED bulbs/LED fittings shall be guaranteed for a period of 5 years by the manufacturer.
29. Contractor has to submit LM-79 report of the LED fittings and will submit samples of all fittings for approval from Engineer-in-charge.

- 30.** Contractor has to submit the security deposit @ 10% cost of LED fittings (Quoted rates) in the form of FDR/Bank Guarantee/DD/Challan along with final bill so that Performance Guarantee can be released after that.
- 31.** The contractor shall pay prescribed monthly wages to his staff regularly up to 7th date of each month failing which recovery @ Rs. 500/- per person per day per shift will be made from the contractor bill. The contractor shall maintain wages register indicating name of the staff & their receipt acknowledgement & verified by the representatives of the Engineer-in-Charge & copy of the same shall be provided along with the bills for the respective months. No payment shall be made without the copy of wages register for the respective months. Wages due to every worker shall be paid to him directly by the contractor through Bank or ECS or online transfer to his bank account.
- 32.** The contractor may note carefully that the recovery for the absence of maintenance staff from their duty shall be made from the contractor's running bill of the month of the absence of the staff at following rates.
- (a)** Wireman @ Rs. 2016/- per day per person per shift.

33. STAFF TO BE DEPLOYED

1. For Item no. 1 (EI & fans)

- (i) Wireman : 3 Nos. (One no. in each shift)

34. QUALIFICATION AND EXPERIENCE

- (i) Wireman/Electrician shall be having valid Electrical license from state PWD for wireman category or ITI in Electrician/wireman trade having 2 years' experience in similar work & must be acquainted with MV/LV electrical quipment Installation.

35. Log book shall be arranged & maintained by the contractor.

36. GST, Income Tax, Labour cess and any other tax at source shall be deducted, as applicable as per direction of Govt. of India.

37. The rates should be inclusive of all taxes / duties / levies etc. Nothing extra shall be paid on any account.

38. The Contractor shall provide following document of each worker/staff before start of work:

- (a) Name of worker & Father/ Mothers name.
- (b) Copy of Aadhar Card
- (c) Bank Account Details
- (d) Address with Mobile No.
- (e) Qualification and experience as required in Agreement.
- (f) Passports size colour photos – 2 Nos

40. Biometric attendance system would be arranged at the time of start of agreement by contractor. No request of payment shall be entertained without the submission of biometric attendance. The site engineers must ascertain that the attendance is taken out from the same biometric machine as installed at site. In case the biometric machine gets faulty, the same shall has to be informed by the contractor to the department and the machine shall has to be replaced within 2 days on the occurrence of the fault.

Assistant Engineer (E)-P

Executive Engineer (E)

ADDITIONAL TERMS & CONDITIONS

A. INTERNAL & EXTERNAL ELECTRICAL SERVICES

1.1 SCOPE OF WORK

1.2 The following Register/Sundry materials shall be arranged free of cost by the contractor.

- a) Prescribed complaint register & Log book of pumps, ceiling fan checking register, Insulation, Resistance test register, Earth Resistance test register, wireman Note Book Diary etc.,.
- b) Insulation Tape, Test Lamp, Fuse wire & cleaning material.

1.0 The following works are covered in scope of the work:-

- (a) Attending day to day complaints of all Internal & External Installation.
- (b) Routine checking of EI & Fans i/c cleaning of electrical Installation, Feeder pillars, LT panel regularly.
- (c) Cleaning & Checking of all compound lighting/street lighting.
- (d) Cleaning & Checking of ceiling fans, testing of Insulation & Earth Resistance test after six months twice in a year & proper records are to be maintained in the registers.
- (e) Cleaning & Watering of earth pits of electrical installation as & when required.
- (f) Cleaning of pumps/pump room.
- (g) Wipe out dirt from external surface of equipment's in pump room. Keep the pump room dry.
- (h) Record all the parameters of reading i.e. voltage, current etc i/c timing of running of pumps in the prescribed pump log book.
- (i) Check for leakage in the system in pump room check & tighten all nut bolts, joints, check gasket which need replacement.
- (j) Operation of switch gears as & when required.

Assistant Engineer (E)-P

EXECUTIVE ENGINEER (E)

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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ACCEPTABLE MAKES OF MATERIAL

S. No.	Description of Items	Make
1.	LED fittings	Lighting Technologies / Philips/Havells/Regent Lighting/ Wipro
2.	G.I. box with modular plate, Modular /Piano type switch & Socket outlet/Fan Regulator/TV Socket/USB Port/Call bell/Buzzer (Only Premium Series shall be used)	Legrand / Schneider / MK /ABB / LK/Havells/HPL
3.	Fan	Havells / Crompton /USHA/ Orient/ Almonard
4.	FRLS PVC Insulated Copper conductor single core wire and XLPE Insulated, PVC Sheathed Aluminium conductor UG armoured LT cable	Havells / Polycab / Finolex /RR Kabel/Grandlay/ KEI/Plaza/Rallison
5.	MCCB	Havells/Legrand / Hager / LK / ABB /Siemens/HPL
6.	Pump set	Kirloskar/KSB/Crompton/Wilo/Mather & Platt
7.	Brass compression gland	Commet / Gripwell / Hensel /Dowells
8.	DWC HDPE pipe	AKG / Duraline / Rex
9.	LT panel/ Meter Panel Board/ Outdoor Feeder Pillar/APFC panels / Bus ducts	Tricolite Electrical Industries/ Control & Switchgears Pvt. Ltd./ Sterling & Wilson/ Milestone/ Adlec control systems Pvt. Ltd./Advance Panels & Switchgears Pvt. Ltd./ Havells/ Indoasian/ ASPL/Application Control Panels Pvt. Ltd./ Precision System control/Prestine/Global Electrical & Control Pvt Ltd./R.P.Controls/ ASES (Agni Suraksha)/HPL/ SPC Electrotech Pvt. Ltd
10.	Fully automatic star delta starter	LK/C&S/ Siemens
11.	Fire Extinguisherg	Minimax/Safex/Life Guard/Omex/Kalpex/ ASES (Agni Suraksha)
12.	Any other material	With prior approval of Engineer-in-Charge

Assistant Engineer (E)-P

EXECUTIVE ENGINEER (E)

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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SCHEDULE OF QUANTITIES (E&M)

Name of work: - A/R & M/O of various Residential & Non-Residential buildings of CISF Campus, 5th RB Indirapuram, Ghaziabad (UP) during 2026-27 (SH:-Misc. Civil repair works and E&M Works).

S.N.	Description of Item	Qty.		Rate	Unit	Amount
	(SUB-1 HEAD EI AND FANS)					
1	Providing services for Routine maintenance including attending day to day complaints of all internal and external installation at residential & nonresidential area, technical area, boundary wall area i/c complete campus in all respect fans & fittings, compound lights, security light and feeder pillar in three shifts on all days including Sunday and holidays as per terms and conditions attached etc. complete as required.					
	i) Wireman- 3 No. one number in Each shift	12	Month	126065.00	Month	1512780.00
2	LED Batten light (System lumen efficacy ≥ 105 <120 lm/Watt). Supplying, Installation, Testing & Commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85%, Operating voltage AC 140- 270 Volt, frequency 50/60 hz, Operating temp range -5 °C to 40 °C, internal surge protection of 2.5 KV with Short & Open circuit protection, THD < 10%, P. F. ≥ 0.95 , IP20, CRI >80, Flicker free, (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Colour Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard.					

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Overwriting: NIL Deletion: NIL

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	Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 105 <120 lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in- Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).					
2.1	18- 22 Watt	200	Nos.	681.00	Each	136200.00
3	LED Street light fixture, powder coated pressure die cast aluminium body (System lumen efficacy ≥ 105 <120 lm/Watt) Supplying, installation, Testing & Commissioning of Street light LED fixture powder coated pressure die cast aluminium body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, frequency 50/60 hz, Operating temp range -5 0C to 50 0C, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2, P. F. ≥ 0.95 , IP-66,IK-10, CRI >70, under voltage and over voltage protection, EMIEMC As per CISPR -15, lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6500°K					

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Overwriting: NIL Deletion: NIL

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	(As per ANSI Bin),SDCM (Standard Deviation Colour Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 105 <120 lm/Watt output .LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).					
3.1	72 watt	40	Nos.	1920.00	Each	76800.00

4	LED Flood Light, powder coated pressure die cast aluminium (System lumen efficacy ≥ 105 <120 lm/Watt). Supplying, Installation, Testing & Commissioning of Flood Light, powder coated pressure die cast aluminium body with built in or separate driver as per the requirement with Driver efficiency >85%, Input voltage: Input voltage: 140-270 Volt AC, frequency 50/60 hz, Operating temp range -5 0C to 50 0C, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2, P. F. ≥ 0.95 , IP-66,IK-10, CRI >70, under voltage and over voltage protection, EMI-EMC as per CISPR -15, lenses for beam angle 30 deg-120deg as per the application and the project requirement., suitable tilt able fitting, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin) , SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 105 <120 lm/Watt output .LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted.. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).					
4.1	100 watt	15	Nos.	2266.00	Each	33990.00
4.2	150 watt	15	Nos.	3166.00	Each	47490.00

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5	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.					
5.1	5/6 A switch	150	Nos.	63.00	Each	9450.00
5.2	15/16 A switch	150	Nos.	140.00	Each	21000.00
5.3	3 pin 5/6 A socket outlet	150	Nos.	81.00	Each	12150.00
5.4	6 pin 15/16 A socket outlet	150	Nos.	156.00	Each	23400.00
6	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
6.1	5/6 A switch	75	Nos.	121.00	Each	9075.00
6.2	15/16 A switch	150	Nos.	176.00	Each	26400.00
6.3	3 pin 5/6 A socket outlet	75	Nos.	136.00	Each	10200.00
6.4	6 pin 15/16 A socket outlet	150	Nos.	219.00	Each	32850.00
6.5	Bell push	50	Nos.	159.00	Each	7950.00
7	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
7.1	Single pole	40	Nos	285.00	Each	11400.00
7.2	Double pole	20	Nos	696.00	Each	13920.00

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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8	Brush Less Direct Current (BLDC) Fan without Remote Supply, Installation, Testing and Commissioning of ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal(Aluminium alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, suitable for operation with regulator for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 0C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC supply, Ceiling Fan compliant to IS 374:2019 fan i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required.					
8.1	1200mm, service value ≥ 6.0 CM/Min/Watt, air delivery 210 CM/Min (Minimum)	120	Nos	2695.00	Each	323400.00
9	Supplying and drawing following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.					
9.1	3 x 1.5 sq. mm	180	Mtr	104.00	Mtr	18720.00
9.2	3 x 2.5 sq. mm	180	Mtr	148.00	Mtr	26640.00
9.3	3 x 4 sq. mm	180	Mtr	222.00	Mtr	39960.00
10	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, Ics=100% Icu and Operational Voltage 690V etc. as required.					
10.1	200 A,36KA,FPMCCB	1	Nos	15956.00	Each	15956.00
10.2	250 A,50KA,FPMCCB	1	Nos	19313.00	Each	19313.00
10.3	125 A, 16 KA,TPMCCB	2	Nos	5103.00	Each	10206.00

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11	Supplying, installation, testing and commissioning of multistage 7.5 H.P submersible pump and motor set to run on 3 phase, 440 volt, 50 AC supply, capacity to deliver up to 350 to 450 LPM water at ahead of 64 - 54 mtr, SS Impeller, Oil Seal i/c. jointing with the existing column pipe testing and commissioning etc. complete as required.	1.00	Set	56947.00	Set	56947.00
12	Supplying, installation, testing and commissioning of multistage 5 H.P submersible pump and motor set to run on 3 phase, 440 volt, 50 AC supply, capacity to deliver up to 350 to 450 LPM water at ahead of 53- 45 mtr, SS Impeller, Oil Seal i/c. jointing with the existing column pipe testing and commissioning etc. complete as required.	1.00	Set	47860.00	Set	47860.00
13	Supplying and replacement of fully automatic DOL starter (with wideband coil) sheet steel enclosure front openable for 7.5 HP, relay range 20-32, 3 Phase pump motor i/c. dismantling the old worn-out / unserviceable starter, connection, testing & commissioning complete etc as required.	2.00	No	9952.00	Each	19904.00
14	Lifting/lowering of defective /burnt out 5 HP to 20 HP submersible pump & motor set with column pipes upto 200' depth (3.0 meter length GI pipe) by means of manually or mechanically with the help of chain pully etc and taking out the dismantle material in store ithin 50 mtr lead etc complete with all accessories as required	2.00	Job	8970.00	Job	17940.00
	Cable with End Termination					
15	Supply of following 1100 volt grade XLPE insulated PVC sheathed aluminium conductor armoured cables as per specification					
15.1	3.5 core 240 sq. mm. Al. XLPE	65.00	Metre	2880	Mtr	187200.00
15.2	3.5 core 35 sq. mm. Al. XLPE	280.00	Metre	531	Mtr	148680.00
15.3	4 X 10 sq. mm Al. XLPE	320.00	Metre	220	Mtr	70400.00

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Overwriting: NIL Deletion: NIL

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16	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.					
16.1	3½ X 35 sq. mm (32mm)	6.00	Nos.	437	Each	2622.00
16.2	3½ X 240 sq. mm (62mm)	4.00	Nos.	1160	Each	4640.00
17	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.					
17.1	Upto 35 sq. mm	600.00	Meter	47	Mtr	28200.00
17.2	Above 185 sq. mm and upto 400 sq. mm	500.00	Meter	170	Mtr	85000.00
18	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.					
18.1	63 mm dia (OD-63 mm & ID-51 mm nominal)	600.00	Mtr	289	Each	173400.00
18.2	120 mm dia (OD-120 mm & ID-103 mm nominal)	500.00	Mtr	417	Each	208500.00

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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19	Fabrication, supplying, Installation testing & commissioning of Electrical control panel of cubical construction, floor/wall mounted type, fabricated out of 2mm thick CRCA sheet with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable entry, inter-connection with suitable size copper conductor cable/solid copper strip, having switchgears and accessories, mountings and internal wiring, earth terminals, numbering etc. complete in all respect, suitable for main fire pump complete as per CPWD specification with following in coming and Outgoings, suitable for operation on 415V, 3 phase, 50Hz Ac Supply with enclosure protection class IP 54 as required :					
	INCOMING					
	32A, 16kA 4 Pole MCCB, Ics=100% Icu rating Digital Voltmeter 0-500V with selector switch Digital Ammeter (0-250 A) with selector switch & CTs etc. LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps Set of Aluminium Bus Bar					
	OUTGOING					
	2 Nos. - 10 HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.	1.00	Nos.	43189.00	Each	43189.00
(SUB-2 DG SETS AND SUB STATION)						
20	Annual maintenance i/c periodical servicing alongwith 1 no. electro/mechanical visits per month and attending SOS/ breakdown call to the following D.G. Sets with AMF panel and replacement of spare parts as per attached term and conditions etc complete as required.					
20.1	250 KVA - 2 Nos at CISF Campus Indirapuram Ghaziabad	12	Months	23676.00	Month	284112.00

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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21	Supply and replacing of following Spare Parts (B Check Kit) of 250 KVA Cummins make DG set i/c dismantling and less credit of spares as & when reqd during the year . (Labour charge included in item no.2) etc complete as required					
	250 KVA -Engine No 25271700 -2 Nos					
21.1	BELT V (3058383)	8	Nos	1184.00	Each	9,472.00
21.2	KIT AIR CLEANER ELEMENT(3238358)	4	Nos	13835.00	Each	55,340.00
21.3	GASKET ROCKER LEVER COVER(4072426)	6	Nos	1012.00	Each	6,072.00
21.4	BELT V(178611)	4	Nos	3183.00	Each	12,732.00
21.5	SWITCH MAGNETIC(2865519)	2	Nos	2444.00	Each	4,888.00
21.6	INDICATOR RESTRICTION(3872813)	2	Nos	804.00	Each	1,608.00
21.7	ELEMENT LUB OIL FILTER(3238204)	4	Nos	1040.00	Each	4,160.00
21.8	KIT FUEL FILTER AND RING(3238493)	4	Nos	1467.00	Each	5,868.00
21.9	KIT SUPER BYP.FILTER ELEM(3879488)	4	Nos	2151.00	Each	8,604.00
21.10	STRIP TEST(4912590)	4	Nos	146.00	Each	584.00
21.11	BELT V (200328)	2	Nos	2401.00	Each	4,802.00
21.12	RADIWASH 3 LITERS(AX1013359)	2	Nos	5371.00	Each	10,742.00
21.13	INHIBITOR CORROSION 205 LITERS (3167224)	1	Nos	21969.00	Each	21,969.00
21.14	VALVOLINE PREMIUM BLUE 7800 PLUS 1/55 LTR (506655)	2	Nos	31593.00	Each	63,186.00
22	Repairing of 500 kVA, 11 kV / 0.433 kV distribution transformer including disconnection from HV & LV side, dismantling and shifting of transformer to authorised repairing workshop, opening of transformer, lifting of core, repair of short-circuited windings by rewinding of HT/LT coils, ovening/drying of winding assembly, filtration and dehydration of transformer oil, cleaning, overhauling and refitting of HV/LV bushings, off-load tap changer and other associated parts, reassembly, testing, transportation back to site, installation, commissioning and testing complete as required.	1	Job	91867.00	Job	91867.00

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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23	Servicing of LT ACB upto rating 2000 Amp i/c cleaning removal of dust and dirt of the male/female contacts and checking, oiling, greasing of the mechanical system for its smooth & trouble free functioning i/c testing etc. as required.	5	Job	3,194.00	Job	15,970.00
24	Topping up new dehydrated transformer oil in the existing 500 KVA transformer etc. complete as required.	50	Ltr.	130.00	Ltr	6,500.00
25	Dehydration of transformer oil of 11/0.415 KV HT transformer i/c testing of dielectric strength of transformer oil after dehydration etc as reqd.	1500	Ltr.	12.00	Ltr	18,000.00
26	Calibration and servicing of combined over current and earth fault electromechanical type relays with secondary injection test kit at 3 different settings having two nos. over current and one number earth fault element etc. as reqd.	6	Each	2706.00	Each	16,236.00
27	Maintenance and servicing of 11KV indoor, breakers excluding the cost of the mechanical and electrical spare parts but cleaning lubricating and adjusting the mechanism for smooth tripping and closing decarbonising of live parts and measurement of contact resistance and their adjustment, measurement of coil and tripping timings checking of interlocks if any and setting right the closing and tripping through various commands / circuits, local / remote & electrical and mechanical operation and their adjustment etc. as per standard engineering practice complete etc. as reqd.	2	Each	2294.00	Each	4,588.00
	(SH:-3 REFILLING FIRE EXTINGUISHERS)					
28	Refilling the following type and capacity of fire extinguishers i/c dismantling, transportation from site, reinstallation, refilling, testing and commissioning and installation etc complete as reqd.					
28.1	4.5 Kgs Capacity Carbon Dioxide	4	Nos	1778.00	Each	7,112.00
28.2	ABC type 5 Kgs.	5	Nos	1586.00	Each	7,930.00

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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29	Supplying and replacing the following unserviceable parts of the existing fire extinguishers etc as reqd.					
29.1	Discharge Hose pipe for ABC, 5 KG	2	Nos	328.00	Each	656.00
29.2	ISI Mark discharge Valve for Corban dioxide exinguishers.	2	Nos	702.00	Each	1,404.00
29.3	ABC valve with pressure gauge	5	Nos	421.00	Each	2,105.00
					Total	4200239.00

Assistant Engineer (E)-P

EXECUTIVE ENGINEER (E)

Addition: NIL Correction: NIL
Overwriting: NIL Deletion: NIL

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