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Name of Work: -Water proofing work of Admin block, A-Block and C-Block at Indian Statistical Institute Delhi Centre, Katwaria Sarai New Delhi.

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NIT No. 06/EE/INAPD/2026-27 for Rs. **49,26,379/- (Rupees Forty Nine Lakh Twenty Six Thousand Three Hundred Seventy Nine Only)** having Pages No. 1 to 88.

Assistant Engineer-II
INAPD, CPWD
New Delhi.

Assistant Engineer (P)
INAPD, CPWD
New Delhi.

Executive Engineer
INAPD, CPWD
New Delhi.

PART- A

NOTICE INVITING e-TENDERS

The **Executive Engineer, INA Project Division, CPWD, INA, New Delhi** (Tel : 011-24644928 / e-mail: deleeinapd.cpwd@nic.in) on behalf of the President of India, invites online **Percentage rate tenders** from the eligible and enlisted contractors of appropriate class of CPWD for the following work.

S. No	NIT No	Name of work & location	Estimate cost put to bid (Rs.)	Earnest Money (Rs.)	Stipulated period of completion of work (in months)	Last date of online submission of bid, copy of receipt of deposit of original EMD and other documents as specified in the bid document	Date and Time of opening of bid
1	(06/EE/INAPD/2026-27)	Water proofing work of Admin block, A-Block and C-Block at Indian Statistical Institute Delhi Centre, Katwaria Sarai New Delhi.	Rs. 49,26,379/- (Civil)	Rs. 98,528/-	03 Months	07/08/2026 at 3:00 PM	07/08/2026 at 3:30 PM

The bid forms and other details be obtained from the website or www.cpwd.gov.in free of cost.

**** To be filled by EE/INAPD**

Executive Engineer
INAPD, CPWD
New Delhi- 110023

CHECK LIST FOR BIDDERS FOR SUBMISSION OF BIDS

- 1 The bidder should read all the instructions, items & conditions, contract clauses, nomenclature of items, specifications etc., contained in the bid document very carefully, before quoting the rates.
- 2 The bidder should also read the General Conditions of Contract for CPWD works 2023, published by DG (W), CPWD, Nirman Bhawan, New Delhi which will be a part of the Agreement with up-to-date amendments upto the date of receipt of tenders.
- 3 The bidder shall quote his rates keeping in mind the specifications, terms & conditions, additional and special conditions etc. and nothing extra shall be payable unless otherwise specified. **Work will be executed mostly in odd hours of the day i.e. beyond normal office hours as per the convenience of client in view of official activities as well as requirements of the client. In addition to that, agency shall have to work round the clock on Saturday, Sunday & Holidays, if needed. Nothing extra shall be paid to the agency in such situations. The agency has to submit programme chart accordingly for prior approval by the Engineer-in-charge.**
- 4 The bidder shall have to make his own arrangement for housing facilities for staff and labour away from construction site and shall have to transport the labour to and fro between construction site and labour camp at his own cost. No labour huts will be allowed to be constructed at the project site. Any decision in this regard shall rest with the Engineer-in-charge and the contractor shall have no claim on this account in any kind.
- 5 The bidder shall quote his rebate if required, mentioning specifically on what component it is applicable otherwise it shall be considered general rebate on total quoted rates.
- 6 The work required to be executed in occupied building. The bidder shall take precautions to ensure quality of workmanship as well as the progress of the work. He shall regulate the labourers accordingly.
- 7 The bidder shall make arrangement for disposal of dismantled materials, malba from upperfloors or from the sites on daily basis which should be environment friendly.
- 8 **C.P.W.D Contractor's Labour Regulations:**

Payment of Wages (as per DG, CPWD OM no. DG/SE/CM/CON/283 dated 05.05.2015)

 - (i) Wages due to every worker shall be paid to him direct by contractor through Bank or ECS or online transfer to his bank account.
 - (ii) All wages shall be paid through bank or ECS or online transfer.
 - (iii) It shall be the duty of the contractor to ensure the disbursement of wages through bank account of labourers.
 - (iv) The contractor shall obtain from the junior Engineer or any other authorized representative of the Engineer-in-Charge as the case may be, a certificate under his signature at the end of the entries in the "Register of Wages" or the "Wage cum-Muster Roll" as the case maybe in the following form:-
 - (v) "Certified that the amount shown in column No has been paid to the workman

concerned through bank account of labourers on.....at ”

9 Modifications as per DG, CPWD OM no. DG/SE/CM/CON/285 dated 08/11/2015:-

- a. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/registration or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW welfare board and program chart (time and progress) within the period specified in schedule 'F'.
 - b. As per introduced clause 7A, no running account bill shall be paid for the work till the applicable labour license, registration with EPFO, ESIC and BOCW welfare board whatever applicable are submitted by the contractor to the Engineer-in-charge.
 - c. The contractor shall also comply with provision of the interstate migrant workman (regulation of employment) and condition of service Act 1979.
- 10 GST as applicable shall be borne by the agency. The agency shall quote his rates considering applicable GST and other taxes and nothing extra shall be paid on this account.
 - 11 Necessary recoveries as applicable shall be made from the bill as per Govt. Rule.
 - 12 Agency has to follow the up-to-date direction/guidelines issued by the department time to time regarding pandemic Covid-19.
 - 13 In case of extension of agreement due to delay/reduction in scope of work; no claim on account of reduction in value of work, loss of business, loss of profit, consequently overheads, any type of interest etc. shall be entertained.
 - 14 The agency shall be bound to do the work in any location under the jurisdiction of 'INAPD' Division/DED-31 or as decided by Engineer-in-Charge for which nothing extra shall be paid.
 - 15 Testing charges to be borne by contractor: -All expenditure to be incurred for testing of samples e.g. packaging, sealing, transportation, loading, unloading etc. including testing charges shall be borne by the contractor from approved laboratories by ADG (D) / SDG.
 - 16 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 and Ministry of Environment and Forest issued time to time shall be taken by the contractor at his own cost. Nothing extra shall be payable to the contractor on this account.

**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR E-TENDERING FORMING
PART OF BID DOCUMENT
(Applicable for inviting open tenders)**

The Executive Engineer, INAPD, CPWD, INA, New Delhi-110023 e-mail: deleeinapd.cpwd@nic.in) on behalf of the President of India, invites online **Percentage rate tenders** from the eligible and enlisted contractors of appropriate class of CPWD for the following work.

S. No	NIT No	Name of work & location	Estimate cost put to bid (Rs.)	Earnest Money (Rs.)	Stipulated period of completion of work (in months)	Last date of online submission of bid, copy of receipt of deposition of original EMD and other documents as specified in the bid document.	Date and time of opening of bid
1	(06/EE/INAPD/2026-27)	Water proofing work of Admin block, A-Block and C-Block at Indian Statistical Institute Delhi Centre, Katwaria Sarai New Delhi.	Rs. 49,26,379/- (Civil)	Rs. 98,528/-	03 Months	07/08/2026 at 3:00 PM	07/08/2026 at 3:30 PM PM

**** To be filled by EE/INAPD**

- 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.
- Information and Instructions for bidders posted on website shall form part of bid document.
- 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.
- But the bid can only be submitted after deposition of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission and uploading the mandatory scanned documents such as Insurance surety bonds, accountpayee Demand draft or Bankers Cheque or Fixed Deposit Receipt or/and Bank Guarantee (For balance amount as prescribed) from any of the commercial towards EMD in favour of Executive Engineer as mentioned in NIT, receipt for deposition of original EMD to division office of any Executive Engineer, (including NIT issuing EE/AE), CPWD and other documents as specified.
- 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 encryption key (Combo type) to perform any operations/transactions on the e-tendering portal/website and the bidders should download and install the eMsigner on their system as per instruction 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 in the prescribed column(s) meant for quoting rate in figures appears in yellow 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. SC/ST contractors enlisted under class V category are exempted from processing fee payable to ITI.
11. The Contractor should quote the percentage above or below to two places of decimal only.
12. The officer inviting tenders shall have the right of rejecting all or any of the tenders and will not be bound to accept the lowest or any other tender.
13. The tenderers shall sign a declaration under the official Secret Act 1923, for maintaining secrecy of the tender documents drawings or other records connected with the work given to them. The unsuccessful tenderers shall return all the drawings given to them. Otherwise, department may reject the bid.
14. The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the Schedule of Quantities, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.
15. If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document and his decision shall be final and binding on the contractor.
16. Any error in description, quantity or rate in Schedule of Quantities or any omission there from shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract.
17. **The lowest tender shall submit following documents along with the performance guarantee after the acceptance of tender, an undertaking from the concerned OEM of each sub heads regarding specialized work is purview of Clause-1 of the contract as described in Schedule-F”-**

- i. **Consent letter from eligible Associate Agency of Specialized works (Form-X).**
- ii. **Documents of associate agencies for specialized work (as per sub heads in which required as per special condition mentioned at Page No. 93 to 94 of this NIT).**

Please note that work will be awarded only after approval of associate agencies / receipt of required documents. It may further be noted that any deficiency in submission of above documents along with performance guarantee will be treated as non-submission of required documents as per Clause-1. In this event, EMD will be forfeited and will be at disposal of the Govt.

18. The agency shall follow the standard operating procedure and guidelines scrupulously at the construction site to contain the outbreak of COVID-19. It is the sole responsibility of the agency to adhere to the SOPs issued by CPWD and other orders & Guidelines issued by various Governments (Govt. of India and or/ state Govt. and /or Dist. Administrative of local Govt). The quoted rates shall inclusive of all such required measures and materials like Soaps, Detergents, Sanitizers, Disinfections, Masks, Gloves and other personal protection equipment's to contain COVID-19 and nothing extra shall be paid."
19. The bidder, who has backed out, shall not be allowed to participate in the re-tendering process.
20. Testing charges to be borne by contractor: -

All expenditure to be incurred for testing of samples e.g. packaging, sealing, transportation, loading, unloading etc. including testing charges shall be borne by the contractor from approved laboratories by ADG (D) / SDG.
21. The agency shall be bound to do the work in any location under the jurisdiction of 'INAPD' Division as decided by Engineer-in-Charge for which nothing extra shall be paid.
22. Malba obtained from execution of work shall be removed immediately and shall not remain in premises more than 24 hours.
23. The successful bidder (to be called as Main contractor), if not have the desired experience of specialized works they shall have to associate specialized agency(s) for execution of the specialized work(s) after the acceptance of tender as per the details mentioned in "Special Conditions for association of Specialized Agencies".
24. The lowest tenderer shall submit documents pertaining to associate agency for specialized E&M work along with the performance guarantee after the acceptance of tender.
25. The successful bidder (to be called as Main Contractor) shall have to associate specialized agency(s) for execution of the specialized works(s) after the acceptance of tender as per the details mentioned in "Special Conditions for association of Specialized Agencies".

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

1.	Insurance Surety Bond, Demand Draft/ Account Payee Banker's Cheque/ FDR/Bank Guarantee of any commercial Bank against EMD (Drawn in favour of Executive Engineer, INAPD, CPWD, INA, New Delhi.
2.	Receipt for deposition of original EMD issued from Division office of any Executive Engineer, CPWD. (The EMD document shall be issued from the place in which the office of receiving division office is situated). (Format Annex-A1)
3.	Valid Enlistment Order of the Contractor.
4.	Copy of PAN CARD.
5.	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. <i>"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".</i>
6.	Affidavit/ declarations to be given on Rs. 100/- Stamp paper on Format given at Annex-A2 regarding: (a) Contact details: Email and mobile No. of the firm/agency (for making correspondence), (b) Affidavit regarding Non-Debarred/Suspended in CPWD. (c) Declaration under official secret Act 1923
7.	The certificate issued through LMS (Learning Management System) in ERP under "Train the Trainers Program" arranged by ERP unit. ERP Training certificate.
8.	Undertaking on the letter head of the agency "If my/our agency lowest bid is accepted then, I/We shall submit the documents as per Page No. 9 Sr. No. 17 along with Performance Guarantee of the work within the time period stipulated in Clause-1, Schedule-F of the NIT failing which I/We shall be totally responsible for the failure and accordingly Engineer-in-charge shall forfeit my/our EMD against the work without any notice".

NOTE: All scanned and uploaded documents, as specified above, shall have to be submitted by the lowest bidder in original within a week after opening of tender.

Executive Engineer
INAPD, CPWD,
INA, New Delhi.

Receipt of deposition of original EMD (Receipt No.....#..... Date.....#.....)	
Name of Work :- Water proofing work of Admin block, A-Block and C-Block at Indian Statistical Institute Delhi Centre, Katwaria Sarai New Delhi.	
1. NIT No.	: 06/EE/INAPD/2026-27
2. Estimated Cost	: Rs. 49,26,379/- (Civil)
3. Amount of Earnest Money Deposit:	: Rs. 98,528/-
4. Last date of submission of bid	: 15:00 Hrs upto 07/08/2026
(*To be filled by Tender inviting authority/ NIT approving authority at the time of issue of NIT and uploaded along with NIT)	
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 along with office stamp	
**To be filled by EMD receiving E.E./DDH	
“EMD to be drawn in favour of “Executive Engineer, INAPD, CPWD, INA, New Delhi”.	

**Proforma for:
(On Rs. 100/- Stamp paper)**

(a) Contact Details

(b) Non-Debarred/Suspended in CPWD

(c) Declaration under official secret Act 1923

To,

The Executive Engineer
INAPD, CPWD,
INA, New Delhi.

Name of Work: - Water proofing work of Admin block, A-Block and C-Block at Indian Statistical Institute Delhi Centre, Katwaria Sarai New Delhi.

NIT No. : 06/EE/INAPD/2026-27

A. Contact Details

(i) E-Mail Id. :

(ii) Mobile Number:

B. Affidavit regarding Non-Debarred/ Suspended in CPWD.

“I/We have not been debarred/suspended for tendering in CPWD till the last date of submission of bid”.

C. Declaration under official secret Act 1923

“I/We shall maintain the secrecy of the tender documents, drawings or other records connected with the work given to me/us. The unsuccessful tenderers shall return all the drawings given to them. Otherwise, department has right to reject the bid and take action against me/us as per rules”.

Signature of bidder(s).

**TO BE SIGNED BY THE BIDDER AND SAME SIGNATORY COMPETENT / AUTHORISED
TO SIGN THE RELEVANT CONTRACT ON BEHALF OF CPWD**

INTEGRITY AGREEMENT

This Integrity Agreement is made at on this day of 20.....

BETWEEN

President of India represented through **Executive Engineer (C), INAPD, C.P.W.D., New Delhi** (Hereinafter referred as the (INAPD, CPWD, INA, New Delhi) ‘**Principal/Owner**’, which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

..... (Name and Address
of the Individual/ firm/ Company)

through..... (Hereinafter referred to as the (Details of duly
authorized signatory)

“**Bidder/Contractor**” and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

PREAMBLE

WHEREAS the Principal / Owner has floated the Tender (**NIT No. ***.....
(hereinafter referred to as “**Tender/Bid**”) and intends to award, under laid down organizational procedure, contract for: -

Name of Work: - Water proofing work of Admin block, A-Block and C-Block at Indian Statistical Institute Delhi Centre, Katwaria Sarai New Delhi.

Hereinafter referred to as the “**Contract**”.

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s)

****To be filled by Executive Engineer**

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as “**Integrity Pact**” or “**Pact**”), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Tender documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:

Article 1: Commitment of the Principal/Owner

1) The Principal/Owner commits itself to take all measures necessary to prevent corruption
Correction = Nil, Insertion = Nil, Overwriting = Nil, Deletion = Nil, AE (P) EE

and to observe the following principles:

- (a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - (b) The Principal/Owner will, during the Tender process, treat all Tenderer(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Tenderer(s) the same information and will not provide to any Tenderer(s) confidential / additional information through which the Tenderer(s) could obtain an advantage in relation to the Tender process or the Contract execution.
 - (c) The Principal/Owner shall endeavor to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- 2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

Article 2: Commitment of the Tenderer(s)/Contractor(s)

- 1) It is required that each Tenderer /Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of **fraud or corruption or Coercion or Collusion** of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
- 2) The Tenderer(s)/Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
 - a) The Tenderer (s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
 - b) The Tenderer (s)/Contractor(s) will not enter with other Tenderer (s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of tenders or any other actions to restrict competitiveness or to cartelize in the tendering process.
 - c) The Tenderer (s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Tendered(s)/Contract(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

- d) The Tendered(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any.

Similarly, Tenderer (s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could tender in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.

- e) The Tenderer(s)/Contractor(s) will, when presenting his tender, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
- 3) The Tenderer(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 4) The Tenderer(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice **means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.**
- 5) The Tenderer(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Tenderer(s)/Contractor(s) and the Tenderer/ Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

- 1) If the Tenderer(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days notice to the contractor shall have powers to disqualify the Tenderer(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Tenderer/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. **Such exclusion may be forever or for a limited period as decided by the Principal/Owner.**
- 2) **Forfeiture of EMD/Performance Guarantee/Security Deposit:** If the Principal/Owner has disqualified the Tenderer(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the

Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Tenderer/Contractor.

- 3) **Criminal Liability:** If the Principal/Owner obtains knowledge of conduct of a Tenderer or Contractor, or of an employee or a representative or an associate of a Tenderer or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

- 1) The Tenderer declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- 2) If the Tenderer makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Tenderer/Contractor as deemed fit by the Principal/ Owner.
- 3) If the Tenderer/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

Article 5: Equal Treatment of all Tenderers/Contractors/Sub contractors

- 1) The Tenderer(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Tenderer/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Subcontractors/ sub-vendors.
- 2) The Principal/Owner will enter into Pacts on identical terms as this one with all Tenderers and Contractors.
- 3) The Principal/Owner will disqualify Tenderers, who do not submit, the duly signed Pact between the Principal/Owner and the tenderer, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6- Duration of the Pact

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 24 Months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other tenderers, till the Contract has been awarded.

If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, CPWD.

Article 7- Other Provisions

- 1) This Pact is subject to Indian Law, place of performance and jurisdiction is the **Head quarters of the Division** of the Principal/Owner, who has floated the Tender.
- 2) Changes and supplements need to be made in writing. Side agreements have not been made.
- 3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium

members. In case of a Company, a representative duly authorized by board resolution must sign the Pact.

- 4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this **Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.**

Article 8- LEGAL AND PRIOR RIGHTS

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF, the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

.....
(For and on behalf of Principal/Owner)

.....
(For and on behalf of
Tenderer/Contractor) WITNESSES:

1.
(signature, name and address)
2.
(signature, name and address)

Place:

Date:

INTEGRITY PACT

To,

The Executive Engineer
INAPD, CPWD,
INAPD, New Delhi.

Sub: NIT No. **06/EE/INAPD/2026-27**

Name of Work:-Water proofing work of Admin block, A-Block and C-Block at Indian Statistical Institute Delhi Centre, Katwaria Sarai New Delhi.

Dear Sir,

It is hereby declared that CPWD is committed to follow the principle of transparency, equity and competitiveness in public procurement. The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Tenderer will sign the integrity Agreement, which is an integral part of tender/tender documents, failing which the tenderer/tenderer will stand disqualified from the tendering process and the tender of the tenderer would be summarily rejected. This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the CPWD.

Yours faithfully

Executive Engineer

Letter of Transmittal

To,

The Executive Engineer
INAPD, CPWD,
INAPD, New Delhi.

Sub: NIT No. **06/EE/INAPD/2026-27**

Name of Work: - Water proofing work of Admin block, A-Block and C-Block at Indian Statistical Institute Delhi Centre, Katwaria Sarai New Delhi.

Dear Sir,

I/We acknowledge that CPWD is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/tender document. I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE TENDER SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/tender is finally accepted by CPWD. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/tender, CPWD shall have unqualified, absolute and unfettered right to disqualify the tenderer/tenderer and reject the tender/tender in accordance with terms and conditions of the tender/tender.

Yours faithfully

(Duly authorized agency of the Tenderer)

On Non-Judicial Stamp Paper of Minimum Rs. 100/-

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

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

1. Whereas the Executive Engineer (C), INAPD, CPWD on behalf of the President of India (hereinafter called "The Government") has entered into and agreement bearing number with..... (name and address of the contractor)..... (hereinafter called "the Contractor") for execution of work (name of work)..... The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. (Rupees only) valid upto (date)..... as Performance Guarantee/Security Deposit/Mobilization Advance from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.
2. We, (indicate the name of the bank) (herein after referred to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs. (Rupees.....only) on demand by the Government within 10 days of the demand.
3. We, (indicate the name of the Bank)....., do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said Contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (RupeesOnly)
4. We, (indicate the name of the Bank), further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any Court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the Contractor shall have no claim against us for making such payment.
5. We, (indicate the name of the Bank) , further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor from time to time or to postpone for any time or from time to 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.
(Rupeesonly) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date

Witness:-

1. Signature
signatoryName and address

Authorized
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 I, strike out the portion not applicable. Bank Guarantee will be made either for performanceguarantee/security deposit/mobilization advance, as the case may

CPWD-6 (for e-Tendering)

1. Online Percentage Rate bids are invited on behalf of the President of India from the approved, eligible and enlisted contractor of appropriate class of CPWD for the following work: - **Water proofing work of Admin block, A-Block and C-Block at Indian Statistical Institute Delhi Centre, Katwaria Sarai New Delhi.**

The enlistment of the contractors should be valid on the last date of submission of bids.

In case the last date of submission of tender is extended, the enlistment of contractor should be valid on the original date of submission of bids.

- 1.1 The work is estimated to cost **Rs. 49,26,379/- (Civil)** 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, which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in. Bidder 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 **03 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 tender documents.
4. The site shall be made available in phase manner for the work.
5. Bid documents consisting of plans, specifications, the schedule of quantities of the 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 and downloaded from website <https://etender.cpwd.gov.in> or www.cpwd.gov.in free of cost.
6. After submission of the bids 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. Earnest money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee i/c e-Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank (drawn in favour of Executive Engineer (C) 'INAPD, CPWD, INAPD) shall be scanned and uploaded to the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.

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 i/c e-Bank Guarantee of any Commercial Bank having validity for 90 days or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

The earnest money given by all the tenderers except the lowest tenderer shall be refunded immediately after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier. However, in case of two/ three bid system,

earnest money deposit of bidders unsuccessful during technical bid evaluation etc. should be returned within 30 days of declaration of result of technical bid evaluation.

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

The bid submitted shall be opened at **03:30 PM** on **07/08/2026**

9. The bid submitted shall become invalid and e-Tender processing fee (if applicable) 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.

(OM No. DG/SOP 2022/07 dated 09.11.2022)

10. The contractor whose bid is accepted will be required to furnish performance guarantee at specified percentage as mentioned in Schedule-‘E’ and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee i/c e-Bank Guarantee from any of the 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 Fund Code No. if applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractors for the said work within the period specified in Schedule F.

11. **The Description of work is as follows: - Water proofing work of Admin block, A-Block and C-Block at Indian Statistical Institute Delhi Centre, Katwaria Sarai New Delhi.**

Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders 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 effect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderers shall be responsible for arranging and maintaining at his own cost all materials, tools and 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 tender by a tenderer implies that he has read this notice and all other contract documents 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 plants etc., will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

12. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.
13. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractor who resort to canvassing will be liable for rejection.
14. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
15. The contractor shall not be permitted to tender 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 as Divisional Accountant or as an officer in any capacity between the grades of Executive Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Gazette officer in the Central Public Works Department or in the Ministry of Housing & Urban Affairs. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
16. No. Engineer of Gazette rank or other Gazette 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 tender or engagement in the contractor's service.
17. The bids for the work shall remain open for acceptance for a period of **30 (Thirty) days** from the date of opening of bids, Further
 - (i) If any tenderer withdraws his tender or makes any modification in the term & 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 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 bid, then the government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - (iii) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the re-bidding process of the same work.
18. This Notice inviting bid shall form part of the contract document. The successful bidder/contractor, on acceptance of his bid by the Accepting Authority, shall, within

15(Fifteen) days from the stipulated date of start of 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 rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.

(b) Standard CPWD Form-7, GCC 2023 (Construction work) as corrected/modified, amendments issued upto last day of the online receipt of tender.

19. In case of extension of agreement due to delay and/or reduction in scope of work due to foreclosure, no claim on account of reduction in value of work, loss of business, loss of profit, consequently overheads, any type of interest etc. shall be entertained.
20. If the exigencies of the work so demand, the Engineer-in-charge may allow payment to a third party, who is creditor to the contractor, after fulfilling the conditions under clause 7B of Schedule A to F.
22. GST as applicable shall be borne by the agency. The agency shall quote his rates considering applicable GST and other taxes and nothing extra shall be paid on this account.
23. Necessary recoveries as applicable shall be made from the bill.
24. The intending bidders are required to update their profile in CPWD e-tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile/uploading tender can be resolved through the concerned Executive Engineer (Phone No.011-23379561, e-mail ID- deleecp.cpwd@gmail.com) or **ERP help line no. 18001803286 or e-mail-Id cpwd.support@techmahindra.com**. The e- tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest. **(DG/SOP/36 dated 25.03.2022)**
25. The contractor shall make his own arrangement of potable water for construction purpose. The contractor shall arrange the water either through water tanker or from Client Department. If the water for construction purpose arranged by client department 1% water charges shall be recovered from the bill. Testing charge shall be borne by the contractor as per frequency mentioned in CPWD specification. Nothing extra shall be paid on this account.

**Executive Engineer
INAPD, CPWD
INAPD, New Delhi.**

C.P.W.D.- 7

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE :- New Delhi

BRANCH :- B & R

REGION :- Delhi

CIRCLE:- Delhi Circle-1

DIVISION :- INAPD

Percentage Rate Tender & Contract for Civil Works

Tender for the work of: - Water proofing work of Admin block, A-Block and C-Block at Indian Statistical Institute Delhi Centre, Katwaria Sarai New Delhi.

- (i) Tenders to be uploaded online by 03:00 PM on 07/08/2026
- (ii) To be opened online in presence of tenders who may be present on **07/08/2026 at 03:30 PM in the office of Executive Engineer, INAPD, CPWD, INA, New Delhi.**

**** To be filled by EE/INAPD**

(TENDER)

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

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

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

I/we have deposited EMD for the prescribed amount in the office of any/concerned Executive Engineer as per the bid documents.

A copy of earnest money in 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. If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said President of India or his successors in office shall without prejudice to any other right or remedy. Be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/ We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee

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

Further, I/We agree that in case 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 works(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 of date of start of work the Engineer-in-charge shall be free to forfeit the entire earnest money deposited/Performance Guarantee.

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

Dated

Signature of Contractor
Postal Address

Witness :

Address:

Occupation :

ACCEPTANCE

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

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

i)

ii)

iii)

For & on behalf of the President of India.

Signature

Designation

Dated.....

NOTIFICATION AND CIRCULERS

No. 1(10)/T&PR/2016
Government of India
Directorate General
Central Public Works Department
Technical & Public Relations Unit
 Tel No. 23061584 Email: dirtech-pr.cpwd@nic.in

105-A, Nirman Bhawan,
 New Delhi, Dated: **27.01.2016**

OFFICE MEMORANDUM

Sub.: Directives of the Hon'ble Supreme Court and Hon'ble National Green Tribunal on air pollution from construction and demolition activity.

Attention is drawn to the Hon'ble National Green Tribunal earlier orders dated 4.12.2014 and 10.4.2015 in OA No. 21/2014 and OA No. 95/2014 and MoEF guidelines of 2010 regarding dealing with air pollution from construction and demolition sites. The directives in this regard are restated in the Annexure enclosed.

2. Hon'ble Tribunal had directed for mandatory strict adherence and compliance of above referred orders as well as MoEF guidelines 2010 while carrying out the construction activity.

3. Hon'ble Supreme Court, in a recent judgment has favoured imposing a fine of Rs. 50,000/- on a daily basis on construction sites for generating high levels of dust in Delhi and NCR. It has been directed by the apex court that EPCA may go around and check polluting construction sites with the help of the volunteers for strict compliance of its order.

4. Accordingly, all SDGs, ADGs, CEs, CPMs, PMs are enjoined upon to strictly comply with the directives of Hon'ble Supreme Court & Hon'ble NGT and MoEF guidelines 2010 to control air pollution at CPWD construction sites. Any laxity found or reported by the checking authorities in this regard shall be viewed seriously.

This issues with the approval of Director General, CPWD.

Encl. As above.


(S. P. Chaudhary)
Director (Tech & PR)

To **(through CPWD website)**

All SDGs, CPWD
 All ADGs, CPWD
 All CEs/CPMs/PMs, CPWD

Directives of Hon'ble National Green Tribunal in O.A. No.21 of 2014 and O.A. No. 95 of 2014 and MoEF guidelines 2010 on Air Pollution from Construction and Demolition activity.

(A) NGT order dated 04.12.2014:

- No government, authority, contractor, builders or any person would be permitted to store/dump construction material or debris on metalled road.
- 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.
- 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.
- All the trucks or vehicles of any kind which are used for construction purposes/or 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.

(B) NGT order dated 10.04.2015:

- 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.

- 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.
- 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.
- The dust emissions from the construction site should be completely controlled and all precautions taken in that behalf.
- 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.
- 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.
- 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 relating to dust emission.
- It shall be the responsibility of every builder to transport construction material and debris waste to construction site, dumping site or any other place in accordance with rules and in terms of this order.
- 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.
- Compulsory use of wetjet in grinding and stone cutting.
- Wind breaking walls around construction site.
- All the builders who are building commercial, residential complexes which are covered under the EIA Notification of 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.
- 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.
- Even if constructions have been started after seeking Environmental Clearance under the 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 afore stated shall be entitled to direct stoppage of work.

(C) Environmental Impact Assessment Guidance Manual for Building, Construction, Township and area Development Projects of February, 2010 envisages 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 watercourses."

The other 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 20 kmph can reduce emissions by a large extent.

Speed humps 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.

(D) Copy of NGT orders dated 04.12.2014, 10.04.2015, copy of MoEF guidelines 2010 are available at the DPCC website "<http://dpcc.delhigovt.nic.in>".



CENTRAL PUBLIC WORKS DEPARTMENT

OFFICE MEMORANDUM

No. DG/CON/Misc./04

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAVAN, NEW DELHI

DATED: 23.01.2017

Sub : Compliance on Construction & Demolition Waste Management Rules, 2016 – Regarding Disposal of Waste to the approved by local Authority.

Ref : Ministry of Environment and Forest notification dt. 29.03.2016 Construction and Demolition Waste Management Rules 2016 in exercise of powers Conferred by Environment (Protection) Act 1986 (Available at web address www.moef.gov.in).

The above Rules notified by Ministry of Environment and Forest are brought to the notice of all NIT approving authorities and they are directed to incorporate suitable provisions in the special conditions and ensure compliance of the Rules.

This issues with the approval of ADG(TD).

23/01/17

Superintending Engineer (C&M)

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Copy to:-

1. All Spl. DGs, CPWD, E-in-C, PWD, Delhi Govt. They are requested to endorse a copy of this O.M. to all ADGs, CEs, SEs & EEs concerned.

Executive Engineer (C)

NOTIFICATION

**Published In the Gazette of India, Part-II, Section-3, Sub-section (ii)]Ministry of
Environment, Forest and Climate Change**

New Delhi, the 29th March, 2016

G.S.R. 317(E).—Whereas the Municipal Solid Wastes (Management and Handling) Rules, 2000 published vide notification number S.O. 908(E), dated the 25th September, 2000 by the Government of India in the erstwhile Ministry of Environment and Forests, provided a regulatory frame work for management of Municipal Solid Waste generated in the urban area of the country;

And whereas, to make these rules more effective and to improve the collection, segregation, recycling, treatment and disposal of solid waste in an environmentally sound manner, the Central Government reviewed the existing rules and it was considered necessary to revise the existing rules with a emphasis on the roles and accountability of waste generators and various stakeholders, give thrust to segregation, recovery, reuse, recycle at source, address in detail the management of construction and demolition waste.

And whereas, the draft rules, namely, the Solid Waste Management Rules, 2015 with a separate chapter on construction and demolition waste were published by the Central Government in the Ministry of Environment, Forest and Climate Change vide G.S.R. 451 (E), dated the 3rd June, 2015 inviting objections or suggestions from the public within sixty days from the date of publication of the said notification; and Whereas, the objections or suggestions received within the stipulated period were duly considered by the Central Government;

Now, therefore, in exercise of the powers conferred by sections 6, 25 of the Environment(Protection) Act, 1986 (29 of 1986), and in supersession of the Municipal Solid Wastes (Management and Handling) Rules, 2000, except as respect things done or omitted to be done before such supersession, the Central Government hereby notifies the following rules for Management of Construction and Demolition Waste –

1. Short title and commencement-

(1) These rules shall be called the Construction and Demolition Waste Management Rules, 2016.

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

2. Application.—The rules shall apply to every waste resulting from construction, re-modelling, repair and demolition of any civil structure of individual or organization or authority who generates construction and demolition waste such as building materials, debris, rubble.

3. Definitions –(1) In these rules, unless the context otherwise requires,-

(a) “ACT” means the Environment (Protection) Act, 1986 (29 of 1986);

(b) “**construction**” means the process of erecting of building or built facility or other structure, or building of infrastructure including alteration in these entities;

(c) “**construction and demolition waste**” means the waste comprising of building materials, debris and rubble resulting from construction, re-modelling, repair and demolition of any civil structure;

(d) “**de-construction**” means a planned selective demolition in which salvage, re-use and recycling of the demolished structure is maximized;

(e) “**demolition**” means breaking down or tearing down buildings and other structures

either manually or using mechanical force (by various equipment) or by implosion using explosives.

- (f) **“form”** means a Form annexed to these rules;
- (g) **“local authority”** means an urban local authority with different nomenclature such as municipal corporation, municipality, nagar palika, nagar nigam, nagar panchayat, municipal council including notified area committee and not limited to or any other local authority constituted under the relevant statutes such as gram panchayat, where the management of construction and demolition waste is entrusted to such agency;
- (h) **“schedule”** means a schedule annexed to these rules;
- (i) **“service provider”** means authorities who provide services like water, sewerage, electricity, telephone, roads, drainage etc. often generate construction and demolition waste during their activities, which includes excavation, demolition and civil work;
- (j) **“waste generator” means any person or association of persons** or institution, residential and commercial establishments including Indian Railways, Airport, Port and Harbour and Defence establishments who undertakes construction of or demolition of any civil structure which generate construction and demolition waste.

(2) Words and expressions used but not defined herein shall have the same meaning defined in the ACT.

(3) Duties of the waste generator –

- (1) Every waste generator shall prima-facie be responsible for collection, segregation of concrete, soil and others and storage of construction and demolition waste generated, as directed or notified by the concerned local authority in consonance with these rules.
- (2) The generator shall ensure that other waste (such as solid waste) does not get mixed with this waste and is stored and disposed separately.
- (3) Waste generators who generate more than 20 tons or more in one day or 300 tons per project in a month shall segregate the waste into four streams such as concrete, soil, steel, wood and plastics, bricks and mortar and shall submit waste management plan and get appropriate approvals from the local authority before starting construction or demolition or remodeling work and keep the concerned authorities informed regarding the relevant activities from the planning stage to the implementation stage and this should be on project to project basis.
- (4) Every waste generator shall keep the construction and demolition waste within the premise or get the waste deposited at collection centre so made by the local body or handover it to the authorized processing facilities of construction and demolition waste; and ensure that there is no littering or deposition of construction and demolition waste so as to prevent obstruction to the traffic or the public ordains.
- (5) Every waste generator shall pay relevant charges for collection, transportation, processing and disposal as notified by the concerned authorities; Waste generators who generate more than 20 tons or more in one day or 300 tons per project in a month shall have to pay for the processing and disposal of construction and demolition waste generated by them, apart from the payment for storage, collection and transportation. The rate shall be fixed by the concerned local authority or any other authority designated by the State Government.

(4) Duties of service provider and their contractors –

- (1) The service providers shall prepare within six months from the date of notification of these rules, a comprehensive waste management plan covering segregation, storage, collection, reuse, recycling, transportation and disposal of construction and demolition waste generated within their jurisdiction.
- (2) The service providers shall remove all construction and demolition waste and clean the area every day, if possible, or depending upon the duration of the work, the quantity and type of waste generated, appropriate storage and collection, a reasonable timeframe shall be worked out in consultation with the concerned local authority.
- (3) In case of the service providers have no logistics support to carry out the work specified in sub rules(1) and (2) , they shall tie up with the authorised agencies for removal of construction and demolition waste and pay the relevant charges as notified by the local authority.

(5) Duties of local authority- The local authority shall

- (1) issue detailed directions with regard to proper management of construction and demolition waste within its jurisdiction in accordance with the provisions of these rules and the local authority shall seek detailed plan or undertaking as applicable, from generator of construction and demolition waste.
- (2) chalk out stages, methodology and equipment, material involved in the overall activity and final clean up after completion of the construction and demolition
- (3) seek assistance from concerned authorities for safe disposal of construction and demolition waste contaminated with industrial hazardous or toxic material or nuclear waste if any
- (4) shall make arrangements and place appropriate containers for collection of waste and shall remove at regular intervals or when they are filled, either through own resources or by appointing private operators
- (5) shall get the collected waste transported to appropriate sites for processing and disposal either through own resources or by appointing private operators
- (6) shall give appropriate incentives to generator for salvaging, processing and or recycling preferably in-situ
- (7) shall examine and sanction the waste management plan of the generators within a period of one month or from the date of approval of building plan, whichever is earlier from the date of its submission
- (8) shall keep track of the generation of construction and demolition waste within its jurisdiction and establish a database and update once in a year
- (9) shall device appropriate measures in consultation with expert institutions for management of construction and demolition waste generated including processing facility and for using the recycled products in the best possible manner
- (10) shall create a sustained system of information, education and communication for construction and demolition waste through collaboration with expert institutions and civil societies and also disseminate through their own website;
- (11) shall make provision for giving incentives for use of material made out of construction and demolition waste in the construction activity including in non-structural concrete, paving blocks, lower layers of road pavements, colony and rural roads.

(6) Criteria for storage, processing or recycling facilities for construction and demolition

wasteland application of construction and demolition waste and its products-

- (1) The site for storage and processing or recycling facilities for construction and demolition waste shall be selected as per the criteria given in **Schedule I**;
- (2) The operator of the facility as specified in sub- rules (1) shall apply in **Form I** for authorization from State Pollution Control Board or Pollution Control Committee.
- (3) The operator of the facility shall submit the annual report to the State Pollution Control Board in **Form II**.
- (4) Application of materials made from construction and demolition waste in operation of sanitary landfill shall be as per the criteria given in **Schedule II**.

(7) Duties of State Pollution Control Board or Pollution Control Committee-

- a. State Pollution Control Board or Pollution Control Committee shall monitor the implementation of these rules by the concerned local bodies and the competent authorities and the annual report shall be sent to the Central Pollution Control Board and the State Government or Union Territory or any other State level nodal agency identified by the State Government or Union Territory administration for generating State level comprehensive data. Such reports shall also contain the comments and suggestions of the State Pollution Control Board or Pollution Control Committee with respect to any comments or changes required;
- 2) State Pollution Control Board or Pollution Control Committee shall grant authorization to construction and demolition waste processing facility in **Form-III** as specified under these rules after examining the application received in **Form I**;
- (3) State Pollution Control Board or Pollution Control Committee shall prepare annual report **36** **anage IV** with special emphasis on the implementation status of compliance of these rules and forward report to Central Pollution Control Board before the 31st July for each financial year.

(8) Duties of State Government or Union Territory Administration-

- a. The Secretary in-charge of development in the State Government or Union territory administration shall prepare their policy document with respect to management of construction and demolition of waste in accordance with the provisions of these rules within one year from date of final notification of these rules.
- b. The concerned department in the State Government dealing with land shall be responsible for providing suitable sites for setting up of the storage, processing and recycling facilities for construction and demolition waste.
- c. The Town and Country planning Department shall incorporate the site in the approved land use plan so that there is no disturbance to the processing facility on a long term basis.
- d. Procurement of materials made from construction and demolition waste shall be made mandatory to a certain percentage (say 10-20%) in municipal and Government contracts subject to strict quality control.

(9) Duties of the Central Pollution Control Board – (1) The Central Pollution Control Board shall,-

- a. prepare operational guidelines related to environmental management of construction

and demolition wastemanagement;

- b. analyze and collate the data received from the State Pollution Control Boards or Pollution Control Committeeto review these rules from time to time;
- c. coordinate with all the State Pollution Control Board and Pollution Control Committees for any matter relatedto development of environmental standards;
- d. forward annual compliance report to Central Government before the 30thAugust for each financial year based on reports given by State Pollution Control Boards of Pollution Control Committees.

(10) Duties of Bureau of Indian Standards and Indian Roads Congress –The Bureau of Indian Standards and IndianRoads Congress shall be responsible for preparation of code of practices and standards for use of recycled materials and products of construction and demolition waste in respect of construction activities and the role of Indian Road Congress shall be specific to the standards and practices pertaining to construction of roads.

(11) Duties of the Central Government –

- a. The Ministry of Urban Development, and the Ministry of Rural Development, Ministry of Panchayat Raj, shall be responsible for facilitating local bodies in compliance of these rules;
- b. The Ministry of Environment, Forest and Climate Change shall be responsible for reviewing implementationof these rules as and when required.

(12) Timeframe for implementation of the provisions of these rules –The timeline for implementation of these rules shall be as specified in **Schedule III**:

(13) Accident reporting by the construction and demolition waste processing facilities-In case of any accident during construction and demolition waste processing or treatment or disposal facility, the officer in charge of the facility in the local authority or the operator of the facility shall report of the accident in **Form-V** to the local authority. Local body shall review and issue instruction if any, to the in charge of the facility.

Schedule I

Criteria for Site Selection for Storage and Processing or Recycling Facilities for construction and Demolition Waste

[See Rule 7(1)]

- (1) The concerned department in the State Government dealing with land shall be responsible for providing suitable sites for setting up of the storage, processing and recycling facilities for construction and demolition and hand over the sites to the concerned local authority for development, operation and maintenance, which shall ultimately be given to the operators by Competent Authority and wherever above Authority is not available, shall lie with the concerned local authority.
- (2) The Local authority shall co-ordinate (in consultation with Department of Urban Development of the State or the Union territory) with the concerned organizations for giving necessary approvals and clearances to the operators.
- (3) Construction and demolition waste shall be utilized in sanitary landfill for municipal solid waste of the city or region as mentioned at Schedule I of these rule. Residues from construction and demolition waste processing or recycling industries shall be land filled in the sanitary landfill for solid waste.
- (4) The processing or recycling shall be large enough to last for 20-25 years (project based on-site recycling facilities).
- (5) The processing or recycling site shall be away from habitation clusters, forest areas, water bodies, monuments, National Parks, Wetlands and places of important cultural, historical or religious interest.
- (6) A buffer zone of no development shall be maintained around solid waste processing and disposal facility, exceeding five Tonnes per day of installed capacity. This will be maintained within the total area of the solid waste processing and disposal facility. The buffer zone shall be prescribed on case-to-case basis by the local authority in consultation with concerned State Pollution Control Board.
- (7) Processing or recycling site shall be fenced or hedged and provided with proper gate to monitor incoming vehicles or other modes of transportation.
- (8) The approach and or internal roads shall be concreted or paved so as to avoid generation of dust particles due to vehicular movement and shall be so designed to ensure free movement of vehicles and other machinery.
- (9) Provisions of weigh bridge to measure quantity of waste brought at landfill site, fire protection equipment and other facilities as may be required shall be provided.
- (10) Utilities such as drinking water and sanitary facilities (preferably washing/bathing facilities for workers) and lighting arrangements for easy landfill operations during night hours shall be provided and Safety provisions including health inspections of workers at landfill sites shall be carried out made.
- (11) In order to prevent pollution from processing or recycling operations, the following provisions shall be made, namely:
 - (a) Provision of storm water drains to prevent stagnation of surface water;

- (b) Provision of paved or concreted surface in selected areas in the processing or recycling facility for minimizing dust and damage to the site.
 - (c) Prevention of noise pollution from processing and recycling plant:
 - (d) Provision for treatment of effluent if any, to meet the discharge norms as per Environment (Protection) Rules, 1986.
- (12) Work Zone air quality at the Processing or Recycling site and ambient air quality at the vicinity shall be monitored.
 - (13) The measurement of ambient noise shall be done at the interface of the facility with the surrounding area ,i.e., at plant boundary.
 - (14) The following projects shall be exempted from the norms of pollution from dust and noise as mentioned above: For construction work, where at least 80 percent construction and demolition waste is recycled or reused in-situ and sufficient buffer area is available to protect the surrounding habitation from any adverse impact.
 - (15) A vegetative boundary shall be made around Processing or Recycling plant or site to strengthen the buffer zone.

Schedule II

Application of materials made from construction and demolition waste and its products.

[See Rule 7(3)]

Sl. No.	Parameters	Compliance Criteria
1	Drainage layer in leachate collection system at bottom of Sanitary Landfill Gas Collection Layer above the waste at top of Sanitary Landfill and Drainage Layer in top Cover System above Gas Collection Layer of Sanitary Landfill For capping of sanitary landfill or dumpsite, drainage layer at the top	Only crushed and graded hard material (stone, concrete etc.) shall be used having coarse sand size graded material (2mm – 4.75mm standard sieve size) Since the coarse sand particles will be angular in shape (and not rounded as for riverbed sand), protection layers of non-woven geo-textiles may be provided, wherever required, to prevent puncturing of adjacent layers or components.
2	Daily cover	Fines from construction and demolition processed waste having size up to 2 mm shall be used for daily cover over the fresh waste. Use of construction and demolition fines as landfill cover shall be mandatory where such material is available. Fresh soil (sweet earth) shall not be used for such places and borrow-pits shall not be allowed. Exception – soil excavated during construction of the same landfill. During hot windy days in summer months, some fugitive dust problems may arise. These can be minimized by mixing with local soil wherever available for limited period.
3	Civil construction in a sanitary landfill	Non-structural applications, such as kerb stones, drain covers, paving blocks in pedestrian areas

Schedule III

Time frame for Planning and Implementation [See Rule 13]

Sl. No.	Compliance Criteria	Cities with population of 01 million and above	Cities with population of 0.5-01 million	Cities with population of less than 0.5 million
1	Formulation of policy by State Government	12 months	12 months	12 months
2	Identification of sites for collection and processing facility	18 months	18 months	18 months
3	Commissioning and implementation of the facility	18 months	24 months	36 months
4	Monitoring by SPCBs	3 times a year – once in 4 months	2 times a year – once in 6 months	2 times a year – once in 6 months

*The time Schedule is effective from the date of notification of these rules.

FORM – I
See [Rule 7 (2)] Application for obtaining authorization

To,
The Member Secretary.

Name of the local authority or Name of the agency: appointed by the municipal authority

Correspondence address Telephone No. Fax No.	
Nodal Officer and designation (Officer authorized by the competent authority or agency responsible for operation of processing or recycling or disposal facility)	
Authorisation applied for (Please tick mark)	Setting up of processing or recycling facility of construction and demolition waste
Detailed proposal of construction and demolition waste processing or recycling facility to include the following Location of site approved and allotted by the Competent Authority. Average quantity (in tons per day) and composition of construction and demolition waste to be handled at the specific site. Details of construction and demolition waste processing or recycling technology to be used. Quantity of construction and demolition waste to be processed per day. Site clearance from Prescribed Authority. Salient points of agreement between competent authority or local authority and operating agency(attach relevant document). Plan for utilization of recycled product. Expected amount of process rejects and plan for its disposal (e.g., sanitary landfill for solid waste). Measures to be taken for prevention and control of environmental pollution. Investment on project and expected returns. Measures to be taken for safety of workers working in the processing or recycling plant. Any preventive plan for accident during the collection, transportation and treatment including processing and recycling should be informed to the Competent Authority (Local Authority) or Prescribed Authority	

Form-II
Format for Issue of Authorization to the Operator

File No.:

Date.:

To,

Ref : Your application number

Dt.

The_____State Pollution Control Board or Pollution Control Committee after examining the proposal hereby authorizes_____having their administrative office at_____
_____to set up and operate construction and demolition waste processing facility at on term and conditions (including the standards to comply) attached to this authorization letter.

1. The validity of this authorization is till. After expiry of the validity period, renewal of authorization is to be sought.
2. The State Pollution Control Board or Pollution Control Committee may, at any time, for justifiable reason, revoke any of the conditions applicable under the authorization and shall communicate the same in writing.
3. Any violation of the provision of the construction and demolition Waste Management Rules, 2016 shall attract the penal provision of the Environment (Protection) Act, 1986 (29 of 1986).

Date: (Member Secretary)
Place: State Pollution Control
Board/Pollution Control
Committee

Form – III

Format of Annual Report to be submitted by Local Authority to the State Pollution Control Board

- (i) Name of the City or Town.....
- (ii) Population.....
- (iii) Name and address of local authority or competent authority Telephone No :
.....
Fax :
Email ID:
Website:.....
- (iv) Name of In-charge or Nodal Officer dealing with construction and demolition wastes management with designation
.....

Quantity and composition of construction and demolition waste including any deconstruction waste

- (a) Total quantity of construction and demolition waste generated during the whole year in metric ton Any figures for lean period and peak period generation per day
.....
Average generation of construction and demolition waste (TPD) Total quantity of construction and demolition waste collected per day
Any Processing / Recycling Facility set up in the city
Status of the facility
- (b) Total quantity of construction and demolition waste processed / recycled (in metric ton) Non-structural concrete aggregate :
Manufactured sand :
Ready-mix concrete (RMC) :
Paving blocks :
GSB :
Others, if any, please specify :
- (c) Total quantity of Construction & Demolition waste disposed by land filling without processing (last option) or filling low lying areas

No of landfill sites used :
Area used :
Whether weigh-bridge : Yes / No facility used for quantity estimation?
- (d) Whether construction and demolition waste used in sanitary landfill (for solid waste) as per Schedule III: Yes

/No

Storage facilities

- (a) Area or location or plot or societies covered for collection of Construction and Demolition waste
- (b) No. of large Projects (including roadways project) covered
- (c) Whether Area or location or plot or societies collection is Practiced (if yes, whether done by Competent Authority or Local Authority or through Private Agency or Non-Governmental Organization) :
- (d) Storage Bins :

Specifications	Existing
Proposed	
(Shape & Size) Number for future	
- (i) Containers or receptacle (Capacity) :
- (ii) Others, please specify :
- (e) Whether all storage bins/collection spots are attended for daily lifting : Yes No
- (e) Whether lifting of Construction & Demolition Waste from Storage bins is manual or mechanical

(please tick mark) please specify mode : Manual Mechanical Others, and equipment used (specify equipment)

3. Transportation

Existing Actually

Required/Proposed number

Truck :

Truck-Hydraulic :

Tractor-Trailer :

Dumper-placers :

Tricycle :

Refuse-collector :

Others (Please specify) :

- 4. Whether any proposal has been made to improve Construction and Demolition waste management practices
- 5. Have any efforts been made to involve PPP for processing of Construction & Demolition waste :If yes, what is(are) the technologies being used, such as:

Processing / recycling Steps

taken Technology (Quantity

to be processed)

Dry Process :

Wet Process :

Others, if any :

Please specify :

6. What provisions are available to check unauthorized operations of:

Encroachment on river bank or wet bodies :

Unauthorized filling of low line areas :

Mixing with solid waste :

Encroachment in Parks, Footpaths etc. :

7. How many slums are provided with construction and demolition waste receptacles
Facilities:

8. Are municipal magistrates appointed for taking penal action for non-compliance with these
rules:

Yes No

[If yes, how many cases registered & settled during last three years (give year wise
details)]

Form – IV
See [Rule (8) (3)]

**Format of Annual Report to be submitted by the State Pollution Control
Board/Committees to the Central Pollution Control Board**

The Chairman,
Central Pollution
Control Board,
Parivesh Bhawan,
East Arjun Nagar,
Delhi- 110032

1. Name of the State/Union territory:
2. Name & address of the State Pollution Control Board/Pollution Control Committee:
3. Number of municipal authorities responsible for management of municipal solid wastes in the State/Union territory under these rules:
4. A Summary Statement on progress made by municipal authorities in respect of implementation of **Schedule III**: Please attach as Annexure-I
5. A Summary Statement on progress made by municipal authorities in respect of implementation of **Schedule IV**
: Please attach as **Annexure-II**

**Date: Chairman or the
Member Secretary State
Pollution Control Board/
Place: Pollution Control
Committee**

Form – V
See [Rule 14]

1. Date and time of accident:
2. Sequence of events leading to accident:
3. The type of construction and demolition waste involved in accident:
4. Assessment of the effects of the accidents
 - a. on traffic, drainage system and the environment:
5. Emergency measures taken :
6. Steps taken to alleviate the effects
 - a. of accidents :
7. Steps taken to prevent the recurrence
 - a. of such an accident :
8. Regular monthly health checkup of workers at
 - a. Processing / recycling site shall be made
9. Any accident during the collection,
 - a. transportation and treatment including
 - b. processing and recycling should be informed
 - c. to the Competent Authority (Local Authority) or
 - d. Prescribed Authority

Date :

Place:

Designation:

Authorized Signatory

NOTE:- 1. This Card is valid only for specified working place/place of duty. 2. The Contractor is fully responsible for any misuse of this card beyond duty hours/days. 3. The Contractor bears responsibility for the character of Cardholder worker.	• Sl. No..... Name of Agency with address :- Telephone No./Mobile Registration No. :- VALID UPTO
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WORKERS IDENTITY CARD

Name of Worker :- Present Address:- Permanent Address:- Identification Mark:- Place of Duty	Photo Signature of Worker Signature of Contractor :
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FORM – V
See Rule 21(2)

FORM OF CERTIFICATE BY PRINCIPAL EMPLOYER

Certificate that I have engaged the applicant _____ as contractor in my establishment. I undertake to be bound by all the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the Contract Labour (Regulation and Abolition) Central Rules, 1971, in so far as the provisions are applicable to me in respect of the employment of contract labour by the applicant in my establishment.

Name of Work: :-Water proofing work of Admin block, A-Block and C-Block at Indian Statistical Institute Delhi Centre, Katwaria Sarai New Delhi.

Signature of Principal Employer

Registration No. _____

Name and Address of Establishment

Place:- New Delhi

Date.....

PART-B

(Civil Works)

PERFORMA OF SCHEDULES (A to F) (Civil Works)

SCHEDULE 'A'		
Schedule of quantities		As attached
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 for Maintenance works 2023 for CPWD works as modified & corrected upto previous day of the last date of submission of the tender.
Name of Work:		
Name of Work:- Water proofing work of Admin block, A-Block and C-Block at Indian Statistical Institute Delhi Centre, Katwaria Sarai New Delhi.		
Estimated cost of work:		Total : Rs. 49,26,379/- (Civil)
(i)	Earnest money	Rs. 98,528/-
(ii)	Performance guarantee	(a) PG:- 5% of tendered value of estimated cost put to tender (ECPT) (whichever is higher). (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.
(iii)	Security Deposit	2.5% of Tendered Value
SCHEDULE 'F'		
General Rules & Directions:		
Officer inviting tender-		Executive Engineer INAPD, CPWD, New Delhi
Definitions:		
2(v)	Engineer-in-Charge	Executive Engineer INAPD, CPWD, New Delhi
2(vi)	Accepting Authority	Executive Engineer INAPD, CPWD, New Delhi
2(x)	Percentage on cost of materials and labour to cover all over heads and profits	15%
Standard schedule of Rates		Delhi Schedule of Rates 2023 (correction issued upto last day of online receipt of tender and Market Rate).
2(xi) Department		Central Public Works Department
9(ii) Standard CPWD Contract Form:		Standard CPWD contract Form General Conditions of Contract Maintenance works 2023, CPWD Form 7 as modified & corrected upto previous day of the last date of submission of the tender.
Clause1		

(i) Time allowed or submission of Performance Guarantee alongwith requisite documents mentioned else wherein the NIT, Programme Chart (Time and Progress) and applicable Labour Licences, Registration with EPFO and ESIC or proof of applying thereof from the date of issue of letter of acceptance, and also ensure the compliance of aforesaid provisions by the sub-agencies, if any, engaged by the Bidder, in days	07 Days
(ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (I) above for above documents	03 Days
Authority for fixing compensation under clause-2	Superintending Engineer, Delhi Circle-1, CPWD New Delhi
Clause2A	Not applicable

Clause5

(i)	Number of days from the date of issue of letter of acceptance for reckoning date of start	10 (Ten) days
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Table of Milestones

Sl. No.	Description of Milestone (Physical)	Time allowed in days (from date of start)	Amount to be with- held in case of non- achievement of Milestone
1	Gross work 1/8 th of total work	1/4 of the total period	In the event of not achieving the desired progress as assessed from funning payment 1.25% of tendered value of the work shall be withheld for failure for each mile stone.
2.	Gross work 3/8 th of total work	1/2 of the total period	
3	Gross work 3/4 th of total work	3/4 of the total period	
4	Completion of work i/c testing etc. complete.	Full period	

Time allowed for execution of work: **03 Months.**

	Authority to decide	
(i)	Authority to convey the decision of shifting of milestone and extension of time	Executive Engineer, INAPD, CPWD, New Delhi
(ii)	Authority to decide for Rescheduling of milestones and extension of time	Superintending Engineer, DC-1, CPWD, New Delhi
(iii)	Shifting of date of start in case of delay in handing over of site.	Superintending Engineer, DC-1, CPWD, New Delhi

Proforma of Schedule 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	Site is to be made available in phased manner as per approved programme chart by the Engineer-in-charge & as per vacancy status.	
Part B	Portions with encumbrances		
Part C	Portion dependent on work of other agencies		

Clause 6: Electronic Measurement Book (EMB) through CPWD ERP Portal or CMB

Clause7 Gross work to be done together with net payment/adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment (For Civil work only)	Rs. 16 Lakh
Clause7A Whether Clause 7A shall be applicable	Yes No running account shall be paid for the work till the applicable labour license, registration with EPFO, ESIC and BOCW Welfare Board Whatever applicable are submitted by the contractor to the Engineer-in-charge.
Clause10A List of testing equipment to be provided by the Contractor at site lab:	As per the requirement of item of work and direction of Engineer-in-charge
Clause10B (ii) Whether Clause 10B(ii) shall be applicable	Not applicable
Clause10C Component of Labour expressed as percent of total value of work	Applicable
Clause 10CC Clause 10CC to be applicable in contracts with stipulated period of completion exceeding the period of 12 months Applicable/Not Applicable Schedule of Component of material, Labour etc. For price escalation. Component of E&M	Not Applicable
Component of labour: - POL	} Not applicable
Clause 10 D	Applicable
Clause 11 Specifications to be followed for execution of work	CPWD Specification 2019, Volume-I & Volume-II with correction slips issued upto last day of online receipt of bids & Manufacturer's Specifications.
Clause 12 Type of Work	Maintenance work The completion cost shall, in no case exceed 1.5 times of Tendered amount

12.3 Deviation, Deviated Quantities, Pricing	No Limit
Deviation beyond quantity taken in schedule of quantity	
Clause 16 Competent Authority for deciding reduced Rates	SE, Delhi Circle-1, CPWD New Delhi upto 5% value of agreement quantity beyond that with the approval of ADG (Delhi).
Clause18 List of mandatory machinery, tools & plants to Be deployed by the contractor at site:	As per actually required at site and shall be arranged by the contractor as per the direction of Engineer-in-charge.

Clause 19	
Clause 19C Clause 19D Clause 19G Clause 19K	Engineer-in-charge (authority to decide penalty for each default)

Clause25	
Conciliator-	Additional Director General (Delhi)
Arbitrator Appointing Authority	Superintending Engineer, DC-1, CPWD, New Delhi
Place of Arbitration	New Delhi

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

Sl. No.	Minimum Qualification of Technical Representative	Nos. of Major + Minor component	Designation (Principal Technical / Technical Representative)	Minimum Experience (Years)	Rate at which recovery shall be made from the contractor in the event of not fulfilling
					Figures (in Rs.)
1.	Graduate Engineer OR Diploma Engineer	1	Project Manager Cum Planning/quality/ Site/billing Engineer	2 years or 5 years	30,000/- Per Month

Assistant Engineers retired from Govt. 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.

Clause 38

(a)	Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2023 printed by CPWD with up to date correction slips.		
Variations permissible on theoretical quantities:			
a)	Cement for works with estimated cost put to tender not more than Rs. 25 lakhs.	:	N.A.
	For works with estimated cost put to bid more than Rs.25 lakh		N.A.
b)	Bitumen for all works.	:	N.A.
c)	Steel Reinforcement and structural steel sections for each diameter, section and category.	:	N.A.
d)	All other materials.	:	N.A.

Integrity Pact

S. No.	Integrity Pact	Remarks
1	Integrity Pact is to be made part of NIT/Agreement only for works with estimated cost put to tender of Rs. 300 crores and above.	Circular on DG/CON/Misc./24 dated 05.09.2022

**Executive Engineer
INAPD, CPWD,
INA, New Delhi.**

GENERAL CONDITIONS AND SALIENT POINTS

1. The contractor shall make his own arrangements for electricity 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 local authorities. He shall also make his own arrangement for obtaining telephone connections for his own use. Necessary fees and i/c consumption charges shall be paid by the contractor directly to the department concerned. In case the authorities fail to sanction the electric connection or delay the sanction of electric connection, the contractor shall make his own arrangements by providing diesel generators of adequate capacity at his own cost.
2. In general water shall be provided by the department and 1% deduction shall be made from the bills of contractor. However, if the water could not be supplied by the department, the agency has to arrange the water at his own cost and nothing extra shall be paid by the Department for arrangement of water or on its treatment to meet the requirements, in this case 1% deduction shall not be made from contractor's bill.
3. All the materials will be arranged by the contractor himself. If any material is issued by the department the contractor shall bear all incidental charges for cartage, storage and safe custody of such material.
4. All material shall only be brought at site as per programme finalized with the Engineer-in-Charge. Any pre-delivery of the material, not required for immediate consumption shall not be accepted and thus not paid for.
5. Except for the items, for which particular specifications are given or where it is specifically mentioned otherwise in the description of the items in the schedule of quantities, the work shall generally be carried out in accordance with the "CPWD Specifications 2019 Vol. I & II with up-to-date correction slips (up to date of receipt of tender) and instructions of Engineer-In-Charge. Wherever CPWD Specifications are silent, the latest IS Codes / Specifications shall be followed.
6. A reference made to any Indian Standard Specifications in these documents, shall imply to the latest version of that standard, including such revisions / amendments as issued by the Bureau of Indian Standards up to last date of receipt of tenders. The Contractor shall keep at his own cost all such publications of relevant Indian Standard applicable to the work at site.
7. 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 for all lead and lifts and heights/ locations.
8. 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 specified otherwise.

9. Unless otherwise specified in the schedule of quantities the rates for all items shall be considered as inclusive of pumping / bailing out water, if necessary for which no extra payment shall be made.
10. The rate for all items, in which the use of cement is involved is inclusive of charges for curing.
11. 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).
12. Any legal or financial implications resulting out of disposal of earth shall be the sole responsibility of the contractor. Nothing extra shall be paid on this account.
13. All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested as per the design conditions before covering.
14. The contractor shall indemnify the Govt. against any claims or obligations arising out of any damage to adjacent property, structure or to building work done by him.
15. **Licenses:-**
 - (i) The contractor shall pay to the municipal, police or other authorities all the fees etc. that may be required by law, obtain requisite licenses for temporary constructions, enclosures and pay all fees taxes and charges which shall be leviable on account of his obligations in executions of the contract. No extra claim will be entertained on this account.
 - (ii) All licensing fees, royalty charges for property rights etc. shall be paid by the contractor direct to the authorities concerned. No extra claim will be entertained on this account.
16. In case services are encountered during excavation / earthwork, and such services are required to be shifted, the contractor is bound to carry out the shifting operation as per guidance / instructions and with the approval of the Engineer-In-Charge. However, necessary payments shall be made in this regard as per provision of the agreement.
17. The building, water supply, internal sanitary installations and drainage work etc. shall be carried out in the manner complying in all respects with the requirements of relevant byelaws of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer in charge and nothing extra shall be paid on this account.
18. Existing drains, cables, pipes, overhead wires, sewer lines, water lines and similar services encountered in the course of execution of work shall be protected against the damages by the contractor at his own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.

19. Contractor shall take all precautionary measures to avoid any damage to adjoining property/ building. All necessary arrangements shall be made in his own cost by the Contractor.
20. The contractor shall be responsible for the watch and ward / guard of the buildings, safety of all fittings and fixtures including sanitary and water supply fittings and fixtures provided by him against pilferage and breakage during the period of installations and thereafter till the building is physically handed over to the department. No extra payment shall be made on this account.
21. The order of preference in case of any discrepancy as indicated under “Conditions of Contract” given in the General Conditions of contract for Central P.W.D. works 2023 (Construction works) Form maybe read as the following:
 - (i) Description of schedule of quantities.
 - (ii) Additional Specification and special condition, if any.
 - (iii) Contract clauses of General conditions of contract for Central P.W.D. Maintenance works 2023 Form.
 - (iv) CPWD Specifications
 - (v) Indian Standard Specifications/BIS.
 - (vi) Manufacturers Specifications
 - (vii) Architectural drawings.
 - (viii) Sound engineering practice.

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

22. The contractor shall take all precautions to avoid accidents by exhibiting caution boards day and night. The contractor shall be responsible for all damages and accident due to negligence on his part.
23. No foreign exchange shall be made available by the department for the purchase of equipment, plants, machinery, material of any kind or other items required to be carried out in execution of work.
24. If the work is carried out in more than one shift or during night, no claim on this account shall be entertained.
25. The contractor shall be bound to follow the instruction and restrictions imposed by the Administration/Police authorities on the working and/or movement of labour, materials etc. and nothing extra shall be payable on this account or due to less/restricted working hours or suspension of work or any detours in movement of vehicles due to stated instructions and restrictions.

26. The contractor shall also be required to follow the rules & restrictions imposed on working/movement/stacking of materials by the local competent authority at all times. Nothing extra shall be payable on this account.
27. Any damage caused by the contractor to the existing building/installations/ roads/boundary walls shall be made good by him (the contractor) at his own cost.
28. **Site is located in sensitive and high security zone, where movement and routes are restricted. The contractor shall have to apply for passes well in advance for carrying out the work. No claim whatsoever shall be entertained for any loss on this account. Some restrictions may be imposed by the security staff/ Delhi police on the working and for movement of labour, materials etc.**
- (i) The movement of trucks and vehicles shall be regulated in accordance with rules and regulations as approved by competent authority.
 - (ii) The contractor shall be bound to follow all such restrictions / instructions and nothing extra shall be payable on this account.
 - (iii) No claim whatsoever will be entertained by the department on account of any, restrictions (including temporary suspension of work) imposed by the security agencies in execution of work.
 - (iv) In respect of maintenance/repair or renovation works etc. where the labour have an easy access to the individual houses, the contractor shall issue identity cards to the labourers, whether temporary or permanent and he shall be responsible for any untoward action on the part of such labour. AE/JE will display a list of contractors working in the colony/Blocks on the notice board in the colony and also at the service center, to apprise the residents about the same.
29. Before start of work, the contractor keeping in view the space available is limited, shall furnish a construction yard layout, specifying area for construction, positioning of machinery, material yard, cement and other storage, steel fabrication yard, site laboratory, water tank, conveyers belt, etc. and seek formal approval of the Engineer-in-charge. No space will be available at site of work for the fabrication of steel / aluminum work grating, railing, etc. The contractor should make his own arrangement for the same in his workshop. Nothing shall be paid for the carriage of such manufactured items from workshop to site of work. The contractor shall not stack building material / malba on NDMC land or road or on the land owned by any other authority and he shall face penal action as per the rules, regulation and bye-laws of the said body or authority. The Engineer-in-charge shall be at liberty to recover the amount due but not paid to the concerned authorities on account of the above from any amount due to the contractor including amount of the security deposit or retention money in respect of this contractor or any other contract.
30. No labour huts shall be kept at the site of work. Tenderers shall quote their rates accordingly nothing extra shall be paid on this account: -

- (a) The contractor shall provide CGI sheet barricading as required according to the rules of NDMC or any other relevant authority for the work. The same shall be maintained by the contractor till the work is completed. After completion of work, the same shall be removed and deposited with the department as per the direction of Engineer-in-charge.
 - (b) The contractor shall take all necessary measures for the safety of traffic during construction and provide, erect and maintain such barricades, including signs, marking, flags lights and flagman as necessary, at either end of the excavation / embankment and at such intermediate points, as directed by the Engineer-in-charge for the proper identification of construction area. He shall be responsible for all damages and accidents caused due to negligence on his part. Nothing extra shall be paid on this account.
31. If the work will be executed beyond the normal working hours/ due to restraint conditions/ execution in odd hours/ execution in night, nothing extra shall be paid on this account

32. Integrated Programme chart:-

The contractor shall prepare an integrated programme chart for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment and machinery required for the fulfillment of the programme within the stipulated period or earlier and submit the same for approval to the engineer in charge **within 7 days of the awards of the date of start.**

The programme chart should include the following:

- a) Descriptive note explaining sequence of various activities.
- b) Network (PERT/CPM/Bar Chart)
- c) Programme of procurement of materials by the contractor.
- d) Programme 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) Time schedule of the requirement of materials to be supplied by the department.

If at any time it appears to the Engineer in Charge that the actual progress of the work does not conform to the approved programme referred above, the contractor shall produce a revised programme showing the modifications to the approved programme to ensure completion of the work within the stipulated time for completion.

The submission for approval by the engineer in Charge of such programmes 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 the contractor as per terms and conditions of the agreement.

In order to adhere to the program, the work shall be carried out in more than one shift

keeping in view the conditions of deployment of labour mentioned in this bid document and no claim on this account shall be entertained. Contractor should give advance notice in writing to Engineer-in-charge for doing any work in odd hour. Contractor shall arrange suitable to and for transportation of CPWD site staff to their residences, in case the site staff is required to stay beyond office hours.

The agency shall comply the order and guidelines of NGT & MoEF.

33. PERFORMANCE GUARANTEE:

- i) The contractor shall submit an irrevocable Performance guarantee of **5% (five percent of the tendered amount)** in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (notwithstanding and/ or without prejudice to any other provisions in the contract) within period specified in schedule 'F' from the date of issue of letter of acceptance. This period can be further extended by the Engineer-in-Charge upto a maximum period of as specified in schedule 'F' on written request of the contractor stating the reason for delays in procuring the Bank Guarantee to the satisfaction of the Engineer-in-Charge.

This guarantee shall be in the form cash (in case guarantee amount is less than **Rs. 10,000/-**) or in the form of deposit at call receipt of any scheduled bank / banker's cheque of any scheduled bank / demand draft of any scheduled bank/pay order of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or in the form of Government securities or fixed deposit receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the form annexed hereto. In case a fixed deposit receipt of any Bank is furnished by the contractor to the Government as part of the performance guarantee and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Government to make good the deficit.

- ii) The Performance Guarantee shall be initially valid upto the stipulated date of completion plus 60 days beyond that. In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the contractor, without any interest.
- iii) The Engineer-in-Charge shall not make a claim under the performance guarantee except for amounts to which the President of India is entitled under the contract (notwithstanding and/ or without prejudice to any other provisions in the contract agreement) in the event of :-
 - Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance Guarantee.
 - Failure by the contractor to pay President of India any amount due, either as agreed by the contractor or determined under any of the clauses/ conditions of the

agreement, within 03 Months of the service of notice to this effect by Engineer-in-Charge.

- In the event of the contract being determined or rescinded under provision of any of the clause/ condition of the agreement, the performance guarantee shall stand forfeited in full and shall be absolutely at the disposal of the President of India.

34. Minimum Quality Assurance Plan

Maintenance of Register of Tests

- All the registers of tests carried out at Construction Site or in outside laboratories shall be maintained by the contractor which shall be issued to the contractor by Engineer-in-charge in the same manner as being issued to CPWD field staff.
- All Samples of materials including Cement Concrete Cubes shall be taken jointly with contractor by JE and out of this at least 50% samples shall be taken in presence of AE in charge. If there is no JE, all Samples of materials including Cement Concrete Cubes shall be taken by AE jointly with Contractor. All the necessary assistance shall be provided by the contractor. Cost of sample materials is to be borne by the contractor and he shall be responsible for safe custody of sample to be tested at site.
- All the test in field lab setup at Construction Site shall be carried out by the Engineering Staff deployed by the contractor which shall be 100% witnessed by JE and 50% of tests shall be witnessed by AE-in-charge. At least 10% of the tests are to be witnessed by the Executive Engineer.
- All the entries in the registers will be made by the designated Engineer Staff of the contractor and same should be regularly reviewed by JE/AE/EE. The registers shall be produced before senior officers inspecting the work.
- Contractor shall be responsible for safe custody of all the test registers.

Submission of copy of all test registers, Material at site Register and hindrance register along with each alternate Running Account Bill and Final Bill shall be mandatory. These registers should be duly checked by Drawing Branch in Division Office and receipts of registers should also be acknowledged by Accounts Officer by signing the copies and register to confirm receipt in Division office.

Maintenance of Material at Site (MAS) Register-

- All the MAS Registers including Cement and Steel Registers shall be maintained by Contractor which shall be issued to the contractor by Engineer-in-charge.
 - Each of the entry of receipt of material at site shall be 100% test checked by JE or by AE if there is no JE.
- Each of the entry shall be checked by JE at least twice a week and at least once a week by AE. If there is no JE then MAS registers will be checked by AE at least twice a week.
 - Cement Register shall be reviewed by AE at least once in a month.

SPECIAL CONDITIONS

1. All malba / rubbish /silt / waste / garbage / etc. generated due to any operation from houses and other open spaces whatsoever shall be collected on daily basis by the Contractor / Agency to the specified common disposal point and nothing extra shall be paid on this account. After the accumulation of full truck load of the said malba (approximate 4.5 cubic meter), the same shall be disposed of by the Contractor / Agency to the authorized municipal dhalao / dumping ground and contractor will submit the slip of dumping ground. In case of non-removal / disposal in the specified period, a sum of Rs. 2000/- (Two Thousand) per day shall be recovered from the Contractor / Agency.
2. Unless otherwise specified in the schedule of quantities, the rates tendered by the contractor shall be inclusive of scaffolding and shall apply to all lifts & all heights, floors including terrace, leads and depths and nothing extra shall be payable on this account.
3. In Case of extension of agreement due to delay/reduction in scope of work; no claim on account of reduction in value of work, loss of business, loss of profit, consequently overheads, any type of interest etc. shall be entertained.
4. 1% (One percent) water charges shall be recovered from the gross amount of the work done, if same is supplied by the department.
5. All materials obtained from Govt. stores or otherwise shall be got checked by the Engineer-in-charge or his authorized representative of the work on receipt of the same at site of work before use.
6. The Contractor has to make his own arrangement for all T & P like ladders, gohree, sutli, empty containers, brushes, and paper, kuchies etc. required for work and nothing extra shall be paid for the same.
7. The contractor shall have to get approved the brands/shades of Acrylic Distemper, Synthetic Enamel Paint, Plastic Emulsion Paint etc. from the Engineer-in-charge before execution of same.
8. Materials shall be brought to the site of work in original containers with the Manufacturers seal intact.
9. The materials required for day's work shall be issued to the contractor or his authorized representative daily by the Junior Engineer-in-charge of the work. Any balance of the material left at end of the days of work and the empty containers shall be returned to the Junior Engineer. The day-to-day issue account of the materials shall be maintained by the Junior Engineer-in-Charge and shall be signed daily by the contractor or his authorized agent in token of receipt of the materials failing which no payment of bill shall be made to the contractor. The empty containers shall not be removed from the site of work without written orders of the Engineer-in-charge.
10. Before the commencement of work, the contractor shall prepare one sample as instructed by the Engineer-in-charge for approval of the Engineer-in-charge. After the sample is approved by the Engineer-in- Charge, the contractor shall be allowed to commence the work and the quality of work shall confirm to the approved sample.

11. Before the commencement of work, the contractor shall draw up a programme in consultation with the Engineer-in-charge for the execution of work so as to inform the occupants of the office flat/quarter at least one week in advance regarding the execution of the work.
12. Defective work/sub-standard work or work not done according to the specifications of the contract shall be liable for summary rejection & shall not be measured and paid for. This shall be without prejudice to taking any other action against the contractor in accordance with the terms & conditions of contract.
13. The contractor shall depute his representative daily to the site of work. The name and signature of his representative attested by the contractor shall be intimated to the Engineer-in-charge.
14. The entire work shall be carried out in close co-operation and Co-ordination with all other agencies working in the building. The Contractor (s) shall not be entitled to any compensation on account of temporary stoppage of work due to other construction.
15. No payment will be made to the contractor for damage caused by rains during the execution of the works and no claim on this account will be entertained.
16. It will be the responsibility of the contractor for damage caused by rains during the execution of the works and no claim on this account will be entertained.
17. Deviation in quantities shall be done only with prior written permission of the Engineer-in-charge. Deviation in quantities done on the order of other than the Engineer-in-charge shall not be measure and paid for.
18. The contractor should write their correct postal address on the application for tender papers. In case it is found that the address given in their application is not correct and as a consequence of the same if any registered letter sent through postal authorities is received back by the department undelivered to the contractor, the contractor shall be fully responsible for all the consequence and by such letter sent through registered post shall be deemed to have been delivered to him.
- 19. Full quantity of material or quantity approved by Engineer-in- Charge. Such as paint plastic emulsion paint, acrylic distemper etc. shall be deposited in sealed contained in advance and get it checked by Engineer-in-Charge before use.**
20. No labour huts shall be allowed inside the campus of above said work. The Contractor shall arrange for the stay of labours outside the campus including transport and nothing extra shall be payable on this account.
- 21. Any damage to the building, furniture, fittings of any other articles etc. done by the contractor or his workmen during the execution of work, shall be made good by the contractor, failing which the same shall be made good by the Engineer-in-charge or his authorized representative at the risk and cost of the contractor.**

22. All doors, windows, floors, furniture, electrical fittings and other articles shall be protected from dust, splashes & damaged sufficient covering for the day's work shall be shown to the representative of the Engineer-in-charge before the contractor is allowed to proceed with the work. Splashes & droppings from white washing, colour washing, distempering painting etc. on walls, floors, doors and window, downtake pipes, furniture shall be removed by the contractor at his own cost and the surface cleaned simultaneously after the completion of the day's work is done, without waiting for the actual completion of the other items of work of the contract. In case the contractor fails to comply with this requirement, the Engineer-in-charge or his authorized representative shall be the right to get this work done at the risk and cost of the contractor either departmentally or through another agency without issue of any notice to the contractor, on his account. The representative of the Engineer-in-charge will however, mention about it in the site order Book before employing the labour on the job at the contractor's cost.
23. The contractor shall submit working drawings for the activities mentioned in the bid if required. The contractor shall submit structural drawings duly vetted from IIT, NIT or Reputed Engineering College approved by the Engineer-in-charge. The contractor shall bear all charges involved in these operations. Nothing extra shall be paid on this account.

PARTICULAR SPECIFICATIONS & CONDITIONS FOR CIVIL WORKS

1. General.

Unless otherwise specified in the schedule of quantities, the rates tendered by the contractor shall be all inclusive and shall apply to all lifts & all heights, floors including terrace, leads and depths and nothing extra shall be payable on this account. **Centering, shuttering, however if required to be done for RCC beams, RCC floor slabs and landings only for centering heights greater than 3.5m, shall be measured and paid for separately.**

Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should conform to bylaws and municipal body / corporation where CPWD Specifications are not available. The contractor should engage licensed plumbers for the work and get the materials (fixtures/fittings) tested by the Municipal Body / Corporation authorities wherever required at his own cost.

The contractor shall give **performance test of the entire installation(s)** as per the standing specifications before the work is finally accepted and nothing extra whatsoever shall be payable to the contractor for the test,

Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been included in the items and nothing extra shall be payable (or) extra cement considered in consumption on this account. For RCC work, only factory made round type cover block shall be used. For Brickwork unless otherwise specified FPS bricks shall be used in all items of work. The classification of bricks brought by the contractor shall conform to the CPWD Specifications.

The work shall be carried out in accordance with the Architectural drawings and structural drawings, to be issued from time to time, by the Engineer-in-Charge. Before commencement of any item of work, the contractor shall correlate all the relevant architectural and structural/shop drawings issued for the work and satisfy himself that the information available there from is complete and unambiguous. The discrepancy, if any, shall be brought to the notice of the Engineer-In-Charge before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and or incomplete information.

Other agencies will also simultaneously execute and install the works of internal electrical installations, sub-station / generating sets, air-conditioning, lifts, etc. for the work and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings trenches etc. as may be required for such related works (for which inserts, sleeves, brackets, conduits, base plates, clamps etc. shall be supplied free of cost by the department unless otherwise specifically mentioned) and the contractor shall fix the same at the time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account.

Sampling and testing

All materials and fittings brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-charge, which shall be preserved till the completion of the work. If a particular brand of material is specified in the item of work in Schedule of Quantity, the same shall be used after getting the same approved from Engineer-In-Charge. Wherever brand / quality of material is not specified in the item of work, the contractor shall submit the samples as per suggestive list of brand names given in the tender document / particular specifications for approval of Engineer-In- Charge. For all other items, materials and fittings carrying ISI Mark shall be used with the approval of Engineer-In-Charge. Wherever ISI Marked material/ fittings are not available, the contractor shall submit samples of materials / fittings manufactured by firms of repute conforming to relevant specifications or IS codes and use the same only after getting the approval of Engineer-In-Charge. To avoid delay, contractor should submit samples as stated above, well in advance so as to give timely orders for procurement. If any material, even though approved by Engineer-In-Charge is found defective or not conforming to specifications shall be replaced / removed by the contractor at his own risk & cost.

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

BIS marked materials except otherwise specified shall be subjected to quality test besides testing of other materials as per the specifications described for the item/material. Wherever BIS marked materials are brought to the site of work, the contractor shall furnish manufacturer's test certificate or test certificate from approved testing laboratory to establish that the material produced by the contractor for incorporation in the work satisfies the provisions of BIS codes relevant to the material and / or the work done.

BIS marked items (except cement & steel) required on the work shall be got tested. Only important tests, which govern the quality of the product, shall be carried out. The frequency of such tests shall be 25% of the frequency specified in the CPWD Specifications 2019 vol I & II with upto date correction slips.

For certain items, if frequency of tests is not mentioned in the CPWD Specifications then relevant IS code shall be followed and tests shall be carried out @ 25% of the frequency specified therein. Wherever NIT/CPWD specifications/relevant BIS codes do not specify the frequency of tests, the same shall be carried out as per direction of the Engineer in charge.

All the materials obtained from Govt. Store or otherwise shall be got checked by the Engineer in charge or his authorized supervisory staff, on receipt of the same at site before use.

All materials which are specified to be tested by the manufacturer's work shall satisfactorily pass the tests in presence of the authorized representative of Engineer in charge before being used in this work. In case all requisite testing facilities are not

available at the manufacturer's premises, such testing shall be conducted at laboratory approved by the Engineer in charge. The charges for such testing shall be borne by the contractor.

The Engineer-in-Charge will be at liberty to take respective sample(s) of each item of Schedule of Quantity in any approved laboratory as decided by him. The sample for testing will be provided by the contractor. All expenditure required to be incurred for taking sample, conveyance, packing and testing charges etc. will be borne by the contractor himself. In case any sample particular lot fails in testing, the contractor will be bound to replace the entire lot with fresh material of prescribed specification and the rejected lot will be returned to the contractor only after fresh lot is supplied.

- (i) Rejected materials will have to be removed by the contractor at his own cost immediately of the instructions of doing so.
- (ii) In case of any dispute regarding rejection of quality of materials, the decision of the Engineer- in-Charge will be final and binding upon the contractor.

The contractor has to establish field laboratory and skilled manpower for the following tests at his own cost.

- Particle size and shape.
- Ten percent fine value
- Aggregate impact test
- Surface moisture test
- Slump test
- Flakiness and elongation index tests.
- Compressive strength (concrete or bricks) test
- Rebound hammer test
- Bulking of sand
- Silt content of sand
- Thermometer with brass protected end (0-1000 C)

The cost of samples including packing, sealing, transportation and other incidental charges shall be borne by the contractor. In case the tests are conducted at approved laboratory other than the site laboratory, the cost of test shall be borne by the contractor.

The contractor should remove from site, the net surplus earth only. If he disposes earth more than the surplus quantity and earth is required later to be brought from outside, the contractor shall be liable to supply at site the such required quantity of earth of required quality at his own cost and nothing shall be paid on the account. The quantity of the surplus earth to be disposed off from the site shall be worked out on the basis of levels to be taken before and after the excavation. The decision of the Engineer-in-Charge regarding the quantity of net surplus earth shall be final & binding. Nothing extra shall be payable to the contractor for stacking the excavated earth.

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

All the equipment shall be brought, installed and commissioned at site of work at least one week before their actual planned use at site.

All the item of works related to foundation and plinth includes the work of basements also.

Deviation in quantities shall be done only with prior written permission of the Engineer in charge. Deviation in quantities done on the order of other than the Engineer in charge shall not be measured and paid for.

To avoid disputes later on, contractor is advised to get the measurement recorded within a week's time and shall submit his bills as per relevant clause (7) of the contract. Any dispute regarding measurement including work done shall be judged within a week's time failing which measurement, certified and recorded shall be entertained.

2. CONDITIONS FOR CEMENT:

The contractor shall procure 43 grade (conforming to IS 8112) Ordinary Portland cement/PPC as required in the work, from reputed manufacturers of cement, having a production capacity of one million tons per annum or more, such as ACC, JK Cement, Ultratech, Shree Cement, etc., i.e. agencies approved by Ministry of Industry, Govt. of India, and holding license to use ISI certification mark for their product. The tenderers may also submit a list of names of cement manufactures which they propose to use in the work. The Engineer-in-charge reserves right to accept or reject name(s) of cement manufacture(s) which the tenderer proposes to use in the work. No change in the tendered rates will be accepted if the Engineer-in-charge does not accept the list of cement manufacturers, given by the tenderer, fully or partially. Supply of cement shall be taken in 50 kg bags bearing manufacturer's name and ISI marking except for concrete from RMC producer where bulk cement can be procured. Samples of cement arranged by the contractor shall be taken by the Engineer in Charge and got tested in accordance with provisions of relevant BIS Codes. In case test results indicate that the cement arranged by the contractor does not conform to the relevant BIS Codes, the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer in Charge to do so. Only the cement with satisfactory test results shall be allowed to be used in the work.

The quantity of cement shall be brought at site as decided by the Engineer in Charge.

Double lock provision shall be made to the door of the cement store. The key of one lock shall remain with the Engineer in Charge or his authorized representative and the key of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement godown.

The contractor shall supply free of charge the cement required for testing and shall also bear the packing, sealing, transportation & other incidental charges. The testing charges of approved laboratory shall be borne by the contractor.

The day-to-day actual issue/receipt and consumption of cement on work shall be regulated and proper accounts maintained in cement register which shall be issued by Engineer-in-charge.

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

In the event of it being discovered that after the completion of the work the quantity of cement used is less than the quantity ascertained after allowing variation on the minus side as per clause 38, the cost of quantity of cement not so used shall be recovered from the contractor, at the rate of **Rs. 5500/-** (Rupees Five thousand Five hundred only) per metric tone. This recovery will be in addition to any other recovery otherwise required to be done by the Engineer-in-Charge.

3. **STEEL REINFORCEMENT BARS:**

The contractor shall procure steel reinforcement TMT bars of grade Fe-500-D confirming to IS code (latest edition) from main producers as approved by the Ministry of Steel and secondary producers of re-rollers having valid BIS license for TMT bars conforming to relevant BIS code, procurement shall be made from main producers and secondary producers having valid BIS license. The name of secondary producer however will have to be got approved by engineer-in-charge before procurement. The contractor shall have to obtain and furnish test certificates to the Engineer in Charge in respect of all supplies of steel brought by him to the site of work. Samples shall also be taken and got tested by the Engineer in Charge as per the provisions 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 cost within a week's time from written orders from the Engineer in Charge to do so.

The quantity of steel shall be brought at site as decided by the Engineer in Charge.

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. The cement slurry to be applied to prevent corrosion. The nothing extra shall payable on this account.

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

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

The contractor shall supply free of charge the steel reinforcing bars required for testing

and shall also bears the packing, sealing, transportation & other incidental charges. The testing charges of approved laboratory shall be borne by the contractor.

The actual issue and consumption of steel on work shall be regulated and proper accounts maintained. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 38 of the contract and shall be governed by conditions laid therein.

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

The contractor shall take all precautions to avoid accidents by exhibiting caution boards day and night. The contractor shall be responsible for all damages and accident due to negligence on his part.

The contractor shall arrange steel reinforcement bars as cut and bend bars from approved workshop/suppliers. In case of non-availability of the same on justified reasons, the same can be manufactured at site, however no extra payment whatsoever shall be made for same.

4. PAINTING WORK:

The contractor shall use primer and putty of water proof grade of approved make at all internal/external surfaces. The painting work shall be executed as per CPWD specifications & Manufacturer's provisions.

Primer shall be applied first on prepared wall surface before application of putty. After finishing of putty work, primer shall be applied before painting work. All such provisions and rates are already incorporated in the Schedule of quantities and nothing extra shall be paid.

5. FURNITURE WORK:

The contractor shall carry out all the furniture works strictly as per the nomenclature and makes of items as per the schedule of quantity. All the furniture items shall carry warranty period of 5 years from the composite date of completion except stated otherwise in the nomenclature of item. Amount of **5% of the tendered value of furniture work** shall be withheld and kept as security and will be released on completion of warranty period.

6. WATER PROOFING WORK: The work shall be got executed as per CPWD Specifications and as per the manufacturer's specification through specialized agency as approved by the Engineer-in-Charge.

The contractor shall furnish the following particulars immediately after the issue of letter of acceptance by the Department.

- (a) The name of the specialized firm.
 - (i) The trade names of the product, which would be used.
 - (ii) List of works where the treatment has been used.
- (b) Quantity of chlorides and sulphides used in the product.
- (c) If required the Engineer-in-Charge shall approved the brand for specialized work related to waterproofing and the skilled manpower shall be used for treatment/waterproofing of concerned brand.

Water proofing of Terrace Roof: Water proofing as per CPWD Specifications 2019 with upto date correction slips, shall be done to entire satisfaction of Engineer-In-Charge. The finished surface after water proofing treatment shall have adequate smooth slope as per the direction of the Engineer-in-charge. 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.

Measurements: Dimension of length, breadth and thickness shall be measured correct to nearest cm. The cubical contents of consolidated concrete shall be worked out to nearest 0.01 cum. Any work done in excess over the specified dimension or sections shown in design/drawings shall be ignored.

Rate: The rate quoted by the contractor shall be for the complete execution of the item based on the approved design & drawing, which also includes cost of all materials, T&P, soil investigation, and labour involved etc in all the operations described above and in the specifications, conditions mentioned in this agreement and the relevant BIS codes. The item does not include the cost of reinforcement.

GUARANTEE FOR WATER PROOFING TREATMENT

The contractor shall be fully responsible for water proofing work and shall submit guarantee bond of proper performance of the entire waterproofing system for a period of 10 (Ten) years from the actual date of completion of work. In addition, specific 10 years written guarantee (to be furnished in a non-judicial stamp paper of value not less than Rs.100/-) in approved proforma shall be submitted for the performance of the system, before final payment and shall not in any way limit any other rights the Employer may have under the contract. Guarantee for water proofing shall comprises of all the items described above in particular specification.

All water-proofing work shall be carried out through approved specialist agency as per method of working approved by the Engineer-in-charge. However, the Contractors shall be solely responsible for waterproofing treatment until the expiry of the above guarantee period.

Ten years guarantee in prescribed proforma attached shall be given by the contractor for the water proofing treatment. Towards that 10% (ten percent) of the cost of these items of water proofing under this sub head shall be retained as guarantee to watch the performance of the work executed. However, half of this amount (withheld) would be released after five years from the date of completion of the work, if the performance of the waterproofing works is satisfactory. The remaining withheld amount shall be released after completion of ten years from the date of completion of work, if the performance of the waterproofing work is satisfactory. If any defect is noticed during the guarantee period, it should be rectified by the contractor within seven days of issuing of notice by the Engineer-in-Charge and, if not attended to, the same shall be got done through other agency at the risk and cost of the contractor and recovery shall be effected from the amount retained towards guarantee. In any case, the contractor and the specialist agency, during the guarantee period, shall inspect and examine the treatment once in every year and make good any defect observed and confirm the same in writing. The security deposit can be released in full, if bank guarantee of equivalent amount, valid for the duration of guarantee period, is produced and deposited with the Department.

(Annexure)
Field Testing Instruments

1. Steel tapes – 3m
2. EDM and self levelling laser level
3. Digital Vernier calipers & screw gauge-2 Nos. each
4. Arrangement for concrete/micro concrete testing
5. Digital film thickness (DFT) meter
6. Micrometer screw 25mm gauge
7. A good quality plumb bob
8. Spirit level, minimum 30cms long with 3 bubbles for horizontal vertical
9. Wire gauge (circular type) disc
10. Foot rule
11. Long nylon thread
12. Magnifying glass
13. Screw driver 30cms long
14. Ball pin hammer, 100 gms
15. Plastic bags for taking samples
16. Balances
 - (i) 7 kg. to 10 kg. capacity, semi self indicating type –accuracy 10gm.
 - (ii) 500 gm. Capacity, semi-self indicating type – accuracy 1 gm.
 - (iii) Pan balance – 5 Kg. capacity – accuracy 10 gms.

Note:- The above testing equipment's shall be procured by the contractor within 15 days of award of work. In event of failure, the same shall be made available at contractor's risk & cost without any notice.

ANNEXURE-I

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

The agreement made this day of two thousand and between (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 GUARANTOR agreed to give guarantee to the affect that the said work will remain water and leak proof for ten years from the date of giving of water proofing treatment.

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

Provided that the guarantor will not be responsible for leakage caused by earthquake or structural defects or mi

suse or alteration and for such purpose :

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

During this period of guarantee, the guarantor shall make good all defects and in case of any defect being found render the building water proof to the satisfaction of the Engineer-in-Charge at his cost and shall commence the work for such rectification within seven days from the date of issue of the notice from 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 risk and cost. The decision of the Engineer-in-Charge as to the cost payable by the Guarantor shall be final and binding.

That if GUARANTOR fails to execute the water proofing or commits breach there under; then the guarantor will indemnify the Principal and his successors against all loss, damage, cost any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/ or damage and/or cost incurred by the Government, the decision of the Engineer-in-Charge will be final and binding on the parties.

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

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

1
2

SIGNED for and on behalf of THE PRESIDENT OF INDIA by in the presence of :

1.

2.

LIST OF PREFERRED MAKE OF MATERIALS (FOR CIVIL WORKS)

Make/Brands of Materials and Models approved are listed below. However, equivalent materials and Models of any other Specialized firms may be used, in case it is established that the Makes/brands specified below are not available in the market or for any other reasons, subject to approval of the alternate Make/brand by the Engineer-in-Charge.

S. No.	MATERIALS	PREFERRED MAKE
1.	Structural Steel, Sections	Tata, Jindal, Prakash, Rana Capital, Apollo, Bhushan
2.	Admixture	Fosroc, Hygie Profile, MCBAUCHEMIE, CICO, CHOCKSEY, BASF
3.	Bitumen	Indian Oil, Hindustan Petroleum, Bharat Petroleum
4.	Injection Grouting	Pidilite (Dr. Fixit), Hygie Profile, SIKA, FOSROC, CHOCKSEY, DURABUILD
5.	Locks/Latch	Godrej, Dorma, Dorset, Hettich
6.	Laminates	Merino, Greenlam, Duro, Greenply, Century
7.	Stainless steel wire mesh	Sterling enterprises, Trimurty Welded Mesh
8.	Prelaminated MDF Board	Green Penelmax, Merino, Veer, Century
9.	Adhesive	Pidilite, Hygie Profile, Dunlop, Vamorganic CHOCKSEY, DURABUILD
10.	Flush Door Shutters (Decorative/Non Decorative)	Duro, Merino, Century, Greenply
11.	Block Boards, Ply boards	Duro, Century, Greenlam, Greenply
12.	Hydraulic Door Closer/Floorspring	Dorma, Hafele, Hettich, Dorset, Hilti
13.	Panic Exit Device	Ingersoll, Geze, Hardwyn, Everest, ASSAABLOY
14.	Aluminium Extruded Profile	Hindalco, Jindal, NALCO
15.	Anodised Aluminium Hardwares (HeavyType)	Hardima, Everite, Sigma (ISI marked), Earl Bihari. Doorace, Dorma, IPSA
16.	Tempered Glass	Modi Float, Saint Gobain, ASAHI
17.	Polyster Powder Coating Shades	Nerolac, Berger, J & N
18.	Dash/anchoring Fasteners	Hilti/Fischer/Canon/Bosch/Wurth
19.	Friction Stay Hinges	Earl-Bihari, Hettich, Dorset
20.	Steel Nuts, Boltsand Screws	Kundan, Puja, Atul, Wurth
21.	EPDM Gasket	Hanu/Anand
22.	Ceramic Tiles	Nitco, Kajaria, Somany, Simpolo, Orient bell
23.	Vitrified Tiles (DoubleCharged/ Nano Tech) (GVT/ AntiSkid/ Glossy/Mattfinish 1 st Quality).	Nitco, Kajaria, Somany, Simpolo, Orient bell
24.	Terrazzo Tiles	Nitco, Unistone, K.K. Manhole
25.	Chequered Tiles	Nitco, Unistone, K.K. Manhole, Dalal
26.	Fire Check Door	Shakti Hormann Protech, Navair, Bhawani Fire Protection Pvt. Ltd., Saint Gobain, IPSA
27.	Cement Concrete Tiles	NITCO, Unistone, Dalal, Surendera

28.	Tile Adhesive	CICO, PIDILITE FERROUS, Home Pride,PAMR, Hygie Profile, Fosroc, CHOKSEY, MYK Laticrete
29.	White Cement	Birla White, JK White
30.	Clay Tile on Roof	KENZAI, JOHNSON
31.	CC Pavers	NITCO, Hygie Profile, TUFTEK, K.KPvt.Ltd ,Hindustan Tile, Dalal, Surendera
32	Water Proofing Paint	Shalimar (Zero Damp), Birla Opus (B 70), Nerolac (No damp),
33	Synthetic Enamel Paint (Premium Quality)	Shalimar (Super Hi Gloss Enamel), Nerolac Synthetic Enamel, Birla Opus(N 52/Sparkle Hi Gloss Enamel)
34	Premium Interior emulsion	Shalimar, Birla Opus, Nerolac
35	Fire Clay Sink & Drain Board	Jaquar, Kohler, Roca.
36	Soil waste & Vent Pipes & fittings (a)Centrifugal Cast iron pipes	NECO, RIF, SKF, HIF, Kapilansh, RPMF
37	LA(CI)Pipes	Electro Steel, Kesoram
38	G.I.Pipes & M.S. Pipe	TATA, JINDAL (Hissar), PrakashSurya
39	MAZZA AC PIPE	A Infrastrcutre, Ltd. Apurva Vinimay P.Ltd. Koanoraia Sugar Gen Mfg Company
40	G.I. Fittings (Malleable CastIron)	UNIK, ICS
41	Gun metal Valves (Full way chech Valves.)	Leader, Zoloto, SANT
42	Stone ware Pipes & Gully Traps	Perfect, Parry, Anand
43	PVC Doors/Windows	Syntex, Rajshri, Jain Doors,Jayna
44	M S pipes	Kirloskar, Electro Steel.
45	C.I. Double Flnaged Sluice Valves	Kirloskar, IVS, Burn
46	C.I. Double Flnaged Non Return Sluice Valves	Kirloskar
47	C.I. Manhole Covers	RIF,NECO,SKF,RPMF
48	CPVC pipes	Supreme, Prince, Finolex, Astral
49	SS Auto close Hinges	Hettich, Earl-Bihari
50	Ball Valves	Zoloto, IBP, Arco
51	ButterflyValves	Audco or equivalent
52	Unglazed Vitrified Heavy Duty tiles	Johnson-(Endura), Somany-(Dura Stone), Kajaria, Oasis, Vermora,
53	Wooden putty	Shalimar NC putty, Birla putty or equivalent of Nerolac.
54	Spider Fittings	Dorma, Dorset, Hettich, Hafele, Hilti
56	APP	Bitumat co. Ltd., STP, Dermabit Technow NICOL/Torchtar
57	FRP Doors & Frames	Ashoo Model Arts, Selected Product Co., Fiber ways, Jayna Doors of Jain wood Industries, Jain Doors Pvt. Ltd, FRP Bhatt
58	PVC/Synthetic Water Storage Tank	Sintex, Uniplast, Polycon, SPL
59	RMC	ACC, UltraTech (Birla), RMC India, M/S NDCON Construction, V.K.Ready Mix Concrete Pvt. Ltd., Shri Ram Ready Mix Concrete Pvt. Ltd.
60	Indian/European WC, Wash Basin and other Sanitary Installation.	Jaquar, Kohler, Roca
61	C.P. Brass Fittings	Jaquar, Kohler, Roca

62	Water Proofing compound	CICO, IMPERMO (By Snowcem India Ltd.) PIDILITE, CHOKSEY, HYGIEPROFILE, DURABUILD, Fosroc.
63	Stainless Steel Sink	Jayna, Neelkantha, Nirali, Cera
64	Bevelled Edge Mirror	Saint Gobain, Geze, Modiguard, ASAHI
65	Glass Panes	Modi Guard, Saint Gobin, ASAHI
66	Plaster of Paris	Birla White, JK Cement, Saint Gobain
67	Wall Putty (Waterproof)	Birla waterproof putty, Shalimar waterproof putty
68	Cement	ACC, Birla, Ultratech, J.K, Gujrat Ambuja, M/S Binani Cement.
69	Aluminium hinges	Classic, Argent, Crown
70	Steel Reinforcement (TMT Bars)	Tata, SAIL, RINL, JSPL, JSW
71	Galvanized/Galvalume Profile Sheets	Tata, Jindal, Kamdhenu
72	Acrylic Distemper	Shalimar (Number 1 Pad Distemper), Birla Opus (D 20), Nerolac (Beauty Acrylic Distemper).
73	Wall Primer	Shalimar (Shakti primer), Birla Opus (E 10), Nerolac (Nerolac Acrylic primer)
74	Premium Acrylic Exterior Paint with Silicon	Shalimar (Weather Pro Plus super premium emulsion), Nerolac (Excel Total), Birla Opus (E 70)
75	Additives	Nerolac (Suraksha advanced), ICI India Ltd (Weather shield), HUFCOR
76	Acoustic Foldable movable partitions	Hafele, Dorma, Azazo, ASSAABLOY
77	Door Fittings	Hafele, Dorma, Godrej, Dorset, Hilti
78	PVC pipes & Fittings	Supreme, Hygie Profile, Finolex, AKG, SPMC
79	Steel Primer	Shalimar, Nerolac, Birla Opus
80	Wood Primer	Shalimar (Universal white primer), Birla Opus (N 10 primer) or equivalent of Nerolac,
81	Plastic Seat covers of W.C.	Commander, Diplomant, Hindware,
82	PVC flushing Cistern	Commander, Hindware (Slimline), Hindustan, Somany.
83	Stainless Steel Railing	Connect Arch. Pvt. Ltd., Jindal S.S. Ltd., Geze, ICICH
84	C-PVC pipes	Inds., ESSAL, Dorma, Dline, KICH
85	Astral, Ashirvad, Prince	
86	Stainless Steel hardware fittings	Dorma, Hafele, Godrej, Geze., Dorset, IPSA
87	Hermitically Sealed Performance glass & Toughened glass.	Saint Gobin, Asahi, Pilkington, Viracon (Processed by the me or their approved Processors).
88	Epoxy Paint	Shalimar, Birla Opus, Nerolac.
89	Sanitary Fittings	Kohler, Jaquar, Roca
90	Textured Exterior Paint	Ultratech, Spectrum, Heritage, Shalimar, UTPL
91	Gypsum Board	Saint Gobain, anutone, , Hi-steel, Knauf, Bollard
92	Calcium Silicate false ceiling /frame work	Aerolite, Hilux, Armstrong, Western, Diamond
93	Glass Reinforced Jali	UniStone, Dalal, Ultra Tech
94	AAC Blocks/aggregate	Finecrete, Ultra Tech, R S Green
95	Wooden Door Frame and Shutters	Goyla, Jayna, Kutty
96	DI Pipes	Electro steel, Jindal Saw, Tata Metalls
97	Precast kerb stone	DALAL, PAVERINDIA, K.K.
98	Bitumen	Indian Oil, Hindustan Petroleum, Bharat Petroleum
99	False Access Floor	Unitile, Unifloor, Hewetson

99	Expansion Joint	Hercules, Bizzar, Sanfield, V.R. Engineers.
100	Micro-concrete	Sika,Ultratech,Pidilite, Birla
101	Ready-mix cement-based dry plaster	Sika,Ultratech,Pidilite, Birla
102	Carpet	Welspun,Miliken,Bentley,Shaw
103	LVT flooring	Welspun,Merino,Argil,Greenlam
104	Wooden veneer ceiling	Duroply,Century Ply, Merino, Greenlam
105	V Baffle suspended false ceiling	Saint Gobain,Hunter Douglas, Diamond, Hi-steel,Knauf, Bollard
106	Open cell ceiling	Saint Gobain,Hunter Douglas, Diamond, Hi-steel, Knauf, Bollard
107	Perforated gypsum board ceiling	Saint Gobain,anutone, , Hi-steel, Knauf, Bollard
108	Microlook soft fibre ceiling	Saint Gobain, Diamond, Aerolite, , Hi-steel, Knauf, Bollard
109	Accoustic glasswool Baffles ceiling	Saint Gobain,Hunter Douglas,Diamond, , Hi-steel,Knauf, Bollard
110	Metal false ceiling	Saint Gobain,Hunter Douglas,Diamond, , Hi-steel, Knauf, Bollard
111	Acoustical PET Ceiling Panels	Anutone, Bollard, Uniacoustic, Tranquil, Knauf, Bollard
112	Double glazed glass partition	Saint Gobain , Geze , Bene, Dorma Kaba
113	Lacquered glass	Saint Gobain, Modiguard, Asahi
114	High-Density High-Moisture Resistance board	Action Tesa,. Century Ply, Merino, Greenlam
115	Glass fiber based fibre wall covering	Saint Gobain , Vitrolan , Vescom
116	Wooden louvered Panels	Action Tesa, Century Ply, Merino, Greenlam
117	Modular kitchen cabinets	Godrej, Sleek Kitchens, Spacewood, IPSA
118	Hardware for kitchen cabinet	Hettich, Hafale, Hilti
119	Access Panel	Saint Gobain, Hunter Douglas, Anutone
120	Toilet cubicle/urinal partitions	Greenlam, Fundermax, Trespa,Merino
121	Acrylic solid surface cladding	Merino, Tristone, Lotte
122	Furniture work	Herman Miller, Godrej, Featherlite, Durian, Haworth, Steel case, Rockworth
123	PET wall panels	Anutone,Uniacoustic, Bollard, Tranquil
124	Frosted film	3M, Artzz Fusion, LG
125	Window blinds	Vista, Hunter Douglas, Deck
126	High Pressure Laminate (HPL)	Century, Trespa, Fundermax

For Items/Materials not covered in the list above, the 1st quality material is to be used as per the Nomenclature of items or 1st quality material of the reputed Make/Brand required to be used for execution of either agreement items or any Extra/Substituted item as per approval and direction of Engineer-in-Charge.

Note:- The makes of various materials as above shall be approved by the Engineer-in-charge in consultation with the NIT approving authority.

PART – D

SCHEDULE OF QUANTITY

<u>Schedule of Quantity</u>					
Name of Work :- Water proofing work of Admin block, A-Block & C-Block at Indian Statistical Institute Delhi Centre, Katwaria Sarai New Delhi.					
S. No.	Description	Qty	Unit	Rate	Amount
1	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
1.1	1:1½:3 (1 cement : 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	9.00	cum	10357.55	93218.00
2	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	2.00	cum	11505.50	23011.00
3	Centering and shuttering including strutting, propping etc. and removal of form for.				
3.1	Foundations, footings, bases of columns, etc. for mass concrete.	55.00	sqm	392.15	21568.00
3.2	Suspended floors, roofs, landings, balconies and access platform.	2.00	sqm	927.25	1855.00
4	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding				

	all complete above plinth level.				
4.2	Thermo-Mechanically Treated bars of grade Fe-500D or more.	240.00	kg	107.85	25884.00
5	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
5.2	Cement mortar 1:4 (1 cement : 4 coarse sand).	2.00	cum	9344.35	18689.00
6	Stone work, plain in copings, cornices, string courses and plinth courses, upto 75 mm thick in Cement mortar 1:6 (1 cement : 6 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.				
6.1	Red sand stone	5.00	cum	93741.10	468706.00
7	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
7.1	Hot finished welded type tubes	500.00	kg	194.40	97200.00
8	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
8.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	500.00	kg	172.60	86300.00
9	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :	467.00	Mtr	305.15	142505.00
9.1	In 75x75 mm deep chase				

10	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x 1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	42.00	Each	298.24	12526.00
11	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.				
11.1	110 mm diameter	248.00	Mtr	377.40	93595.00
12	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
12.1	Coupler				
12.1.1	110 mm	31.00	Each	136.15	4221.00
12.2	Bend 87.5°				
12.2.1	110 mm	31.00	Each	150.35	4661.00
13	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
13.1	110 mm diameter	93.00	Each	371.30	34531.00
14	12 mm cement plaster of mix :				
14.1	1:4 (1 cement: 4 coarse sand)	200.00	sqm	357.35	71470.00
15	15 mm cement plaster on rough side of single or half brick wall of mix:				
15.1	1:4 (1 cement: 4 coarse sand)	100.00	sqm	411.75	41175.00
16	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade:				
16.1	New work (two or more coats) over and including water thinnable priming coat	453.00	sqm	185.65	84099.00

	with cement primer.				
17	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.	453.00	sqm	156.05	70691.00
18	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	453.00	sqm	25.15	11393.00
19	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
19.1	With cement mortar 1:4 (1cement: 4 coarse sand).	100.00	sqm	560.50	56050.00
20	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding.	952.00	sqm	338.25	322014.00

21	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
21.1	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix).	25.00	cum	1503.60	37590.00
22	Demolishing R.B. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in- charge.	28.00	cum	3177.25	88963.00
23	Demolishing mud phaska in terracing and disposal of material within 50 metres lead.	379.00	cum	914.30	346520.00
24	Disposal of building rubbish / malba / similar unserviceable, dismantle dor waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	579.00	cum	263.95	152827.00
25	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall.				
25.1	25 mm nominal dia Pipes.	120.00	mtr	401.55	48186.00
25.2	32 mm nominal dia Pipes.	320.00	mtr	518.75	166000.00
26	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	20000.00	ltr	11.00	220000.00
27	Grading roof for water proofing treatment with.				
27.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	79.00	cum	8042.30	635342.00

	Total				₹ 34,80,790.00
	Modified Estimated Cost after using Correction factor on DSR 2023 on account of GST 0.973				₹ 33,86,809.00
	Add cost Index 3% after modification factor				₹ 1,01,604.00
	Total (A)				₹ 34,88,413.00
28	Waterproofing Application: Premix Wonderproof 100 components A and B with an electric double paddle mixer stirrer for 2-3 minutes at a slow speed. The concrete surface must be brought into surface saturated dry condition (SSD) after surface preparation. Providing and applying the first coat of Dr. Fixit Wonderproof 100 or equivalent at a rate of 0.8-0.90 Kg/sq.mt/coat. Place a 45-GSM glass fiber mesh or reinforce with 225 GSM fiberglass made of non-woven chopped strands between the first and second coats while the first coat is still wet. Allow the first coat to dry for 3-4 hours. Apply the second and third coats of Wonderproof 100 or equivalent with the same application coverage (at a rate of 0.8-0.90 Kg/sq.mt/coat), but in a direction perpendicular to that of the first and second coats. Allow each coat to air cure for a minimum of 3-4 hours after application. Ensure that no void surface is left untreated or uncoated. All coats should be applied in directions perpendicular to each other, ensuring the correct consumption of material, resulting in a total dry film thickness of 900–1000 microns with system coverage in three undiluted coats at a rate of 1.50 -1.60 Kg/ sq.mt/coat. Allow the system to air cure for 5-7 days minimum. The material has followed technical properties: Attains a Tensile Strength with Fiber N/mm² $\geq 9-10$ as per ASTM D 2370; Elongation at break $\geq 200\%$ as per ASTM D 2370, Crack bridging ability up to 3 mm, Shore-A 65 as per ASTM D2240, Tear Resistance with Fiber N/mm 40 as per ASTM D 624. The system comes with 10 Years' waterproofing warranty from M/S				

	Pidilite Industries or equivalent. For vertical surfaces and parapet walls should be enveloped & coated / painted with Dr. Fixit Raincoat Classic or Dr. Fixit Raincoat Select Waterproof coating system or equivalent. Note – Coating should be terminated below the drip mould on the vertical surface.				
	Vertical upstand: Providing 100mm x 100 mm Square / rectangle upstand of M20 grade concrete or with PMM around mechanical equipment like HVAC, air-conditioning, solar panels. Etc. Apply two thick coats of Dr. Fixit Wonderproof 100 or equivalent over the entire upstand, embedding it with 45 GSM 2.5mm x 2.5mm fiberglass or reinforce with 225 GSM fiberglass made of non-woven chopped strands while the Dr. Fixit Wonderproof 100 or equivalent is still wet. Apply Dr. Fixit PU sealant / Feviseal Hybrid Sealant or equivalent around the junction of fabricated stand inserted and wall mounting mechanical fixtures				
	The coating thickness and the methodology of application shall strictly as per manufacturer's specifications and as approved by Engineer-in-Charge. Surface preparation includes cleaning with metal wire brush to remove all dust, fungus etc., washing with water all complete. The contractor shall give guarantee for the performance of waterproofing warranty from M/S Pidilite Industries or equivalent and also the durability of coating, all complete as per direction of Engineer-in-Charge.	1106.00	sqm	1300.15	1437966.00
	Total (B)				₹ 14,37,966.00
	Total (A+B)				₹ 49,26,379.00

**Executive Engineer
INAPD, CPWD,
INA, New Delhi.**

FINANCIAL BID**(Performa for Quoting the Rates)**

CENTRAL PUBLIC WORKS DEPARTMENT					
NIT NO. (06/EE/INAPD/2026-27)					
Name of work:- Water proofing work of Admin block, A-Block & C-Block at Indian Statistical Institute Delhi Centre, Katwaria Sarai New Delhi.					
SCHEDULE OF QUANTITY					
S. No	Name of Components	Estimated Cost (Rs.)	Percentage above or below on the Estimated Cost	%age in Figures	Total Cost (Rs.)
1	Civil work	49,26,379/-			
	Total	₹ 49,26,379.00			

Contractor