

CENTRAL PUBLIC WORKS DEPARTMENT

Name of Work: Annual Repair & Maintenance of Income Tax Colony at Sector-20, Panchkula (Haryana) during 2026-27.

NOTICE INVITING E-TENDER

Name of Work: Annual Repair & Maintenance of Income Tax Colony at Sector-20, Panchkula (Haryana) during 2026-27.

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Certified that this NIT contains pages from 01 to 56 only.

This NIT amounting to Rs. 19,20,068/- (Rs. Nineteen lakhs, twenty thousand and sixty eight only) is hereby approved.

**Assistant Engineer (P),
Chandigarh-2, CPWD,
Sector-7B, Chandigarh.**

**Executive Engineer,
Chandigarh-2, CPWD,
Sector-7B, Chandigarh.**

CPWD-6 FOR e-TENDERING

 सत्यमेव जयते	GOVERNMENT OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT	 CPWD
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The Executive Engineer, Chandigarh-II, CPWD, Sector-7B, Chandigarh (Tel.No. **0172-2794849** & E-mail ID: **eeccd2.chd@cpwd.gov.in**) on behalf of the President of India invites online Percentage Rate Bids from CPWD enlisted contractors of appropriate class in Buildings & Roads category in single bid system for the following work:

Name of Work: Annual Repair & Maintenance of Income Tax Colony at Sector-20, Panchkula (Haryana) during 2026-27. The enlistment of the contractors should be valid on the last date of submission of bids. In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.

- 1.1 The work is estimated to cost **Rs. 19,20,068/-** This estimate, however, is given merely as a rough guide.
- 1.2 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids.
- 1.3 Criteria of eligibility for submission of bid documents:
 - i) The enlistment of the CPWD contractors in appropriate class in composite category should be valid on the last of submission of bids.
 - ii) In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission bids.
2. Agreement shall be drawn with the successful bidder on prescribed Form No. CPWD-7 amended up to date which is available as a Govt. of India Publication and sample 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 **12 Months** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. The site for the work is available.
5. The bid document consisting of plans, specifications, schedule of quantities of various types of items to be executed and set of terms & conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website <https://etender.cpwd.gov.in> or www.cpwd.gov.in free of cost.
6. After submission of the bid, the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
7. While submitting the revised bid, contractor can revise the quoted percentage any number of times, but before last time and date of submission of bid, as notified.
8. Earnest Money of **Rs. 38,401/-** in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (for balance amount as prescribed) from any of the Commercial Banks (drawn in favour of **Executive Engineer, Chandigarh-II, CPWD, Chandigarh** payable at **Chandigarh** 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 cases 50% of earnest money or Rs. 20.00 lakh whichever is less, will have to be deposited in shape prescribed above, and balance can be accepted in form of Bank Guarantee issued by a Commercial Bank having **validity for period of 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.

- 9 Copy of Enlistment Order and certificate of work experience and other documents as specified in NIT shall be scanned and uploaded to the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in NIT shall have to be submitted by the lowest bidder only along with physical EMD of the scanned copy of EMD uploaded 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.

- 10 The contractor registered prior to 01.04.2015 on e-tendering portal of CPWD shall have to deposit tender processing fee at existing rates or they have option to switch over to the new registration fee any time.

The bid submitted shall be opened at 03:30 PM on 29.09.2026

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

12. The contractor shall submit an irrevocable **Performance Guarantee and Additional Performance Guarantee** at specified percentage of the tendered amount as mentioned in Schedule 'E', in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in Schedule 'F' from the date of issue of letter of acceptance. This period can be further extended by the Engineer-in-Charge up to a maximum period as specified in schedule 'F' on written request of the contractor stating the reason for delays in procuring the **Performance Guarantee and Additional Performance Guarantee** to the satisfaction of the Engineer-in-Charge. This Guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks. In case a fixed deposit receipt of any Bank is furnished by the contractor to the Government as part of the **Performance Guarantee and Additional 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 and Additional Performance Guarantee** shall be submitted by the contractor on format as per GCC and shall be initially valid up to the date of completion of work plus **minimum 6 months** beyond that.

In case the contractor fails to deposit the said **Performance Guarantee and Additional 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 and Additional Performance Guarantee**. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses / registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. if applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work and Programme Chart (Time and Progress) within the period specified in Schedule F.

13. **The description of the work is as follows: Annual Repair & Maintenance of Income Tax Colony at Sector-20, Panchkula (Haryana) during 2026-27.** Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidder shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.
14. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders, shall be summarily rejected.
15. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable to rejection.
16. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
17. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of Chief Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any 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.
18. No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India, as aforesaid, before submission of the bid or engagement in the contractor's service.

19. The **bids** for the **work** shall remain open for acceptance for a period of **30 (thirty)** days from the date of opening of bids in case of single bid system and 75 days (seventy five) days from the date of opening of technical bids in case bids are invited in 2 or 3 bids system. Further
- If any tenderer withdraws his tender or makes any modifications in the terms & conditions of the tender which is not acceptable to the department within 7 days **after last date of submission of bids**, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely **irrespective of letter of acceptance for the work is issued or not**.
 - If any tenderer withdraws his tender or makes any modifications in the terms & conditions of the tender which is not acceptable to the department **after** expiry of 7 days **after last date of submission of bids**, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit **100%** of the earnest money absolutely **irrespective of letter of acceptance for the work is issued or not**.
 - In case of forfeiture of earnest money as prescribed in para (i) and (ii) above**, the bidders shall not be allowed to participate in the rebidding process of the **same** work.
20. This Notice Inviting bid shall form a part of the contract document. The successful bidder/contractor, on acceptance of his bid by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of: -
- 1.1.(a) The Notice Inviting bid, all the documents including additional conditions, specifications and drawings, if any, forming the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
 - 1.1.(b) Standard CPWD Form-7 or other Standard CPWD Form as applicable.

The existing enlisted contractor either himself or his authorized representative himself or his authorized representative should have taken compulsory ERP (Enterprise Resource Planning) training through any of the CPWD Regional Training Institutes (RTIs) at Delhi, Mumbai, Chennai and Kolkata, National CPWD Academy (NCA) Ghaziabad, Training arranged by Graduates of ERP "Train the Trainers Programme" conducted by NCA, Ghaziabad or through any other special training arranged by ERP unit of CPWD. The enlisted contractor will not be allowed to participate in tendering process without uploading the certificate of ERP training. Training will be valid only when participants are registered in LMS (Learning Management System) of ERP and certificate is issued through LMS of ERP

25. **List of documents to be scanned and uploaded within the period of bid submission:**

(i)	Treasury Challan/ Demand Draft / Pay Order or Banker's Cheque / Fixed Deposit Receipts/ Deposit at Call Receipt / Bank Guarantee of any scheduled bank against EMD.
(ii)	Copy of receipt for deposition of original EMD to division office of any Executive Engineer, [including NIT issuing EE] CPWD.
(iii)	EPFO, ESIC, BOCW Welfare Board, PF Nos., labour License if available otherwise the letter of award shall be issued to lowest bidder only on receipt of copy of Labour license, Registration with EPFO, ESIC, BOCW Welfare Board and PF Nos. or submitting the proof of applying for these along with P.G.
(iv)	Certificate of registration for GST and acknowledgement of up to date filed returns as per NIT Stipulation. If the bidder has not obtained GST registration, then in such a case the bidder shall upload following undertaking with the bid document "If work is awarded to me, I/we shall obtain GST registration certificate within one month from date of receipt of award letter or before payment of 1st R.A. bill."
(v)	Enlistment order of the CPWD contractors in appropriate class in composite category.
(vi)	Certificate of ERP(Enterprise Resource Planning) training for enlisted contractors.
(vii)	Any other document as specified in the NIT.

**Executive Engineer,
Chandigarh-II, CPWD,
Sector-7B, Chandigarh.
(For and on behalf of President of India)**

Receipt of deposition of original EMD

Receipt No. _____ dated _____

1.	Name of Work	:	Annual Repair & Maintenance of Income Tax Colony at Sector-20, Panchkula (Haryana) during 2026-27.
2.	NIT No.	:	23/EE/Chd-II/2026-27.
3.	Estimated Cost	:	Rs. 19,20,068/-
4.	Amount of Earnest Money Deposit	:	Rs. 38,401/-
5.	Last date of submission of bid	:	Upto 3:00 PM on 29.09.2026.

1. Name of Contractor :
2. Form of EMD :#.....
3. Amount of original Bank Guarantee as Earnest Money Deposit :#.....
4. Date of submission of EMD :#.....

Signature, Name and Designation of EMD
receiving Officer (EE/AE(P)/AE/AAO)
alongwith Office Stamp

Note:- # to be filled by the Contractor

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

The Executive Engineer, Chandigarh-II, CPWD, Chandigarh on behalf of President of India invites **Online Percentage Rate Bids** from **CPWD approved and eligible Contractors of appropriate class** for the following work:

Sr. No.	NIT No.	Name of Work & Location	Estimated cost put to tender	Earnest Money	Period of Completion	Last date & time of submission of bid, original EMD, copy of receipt for deposition of original EMD and other documents as specified in the press notice	Time & date of opening of tender	Time Period allowed for submission of originals of all the scanned and uploaded documents as specified in NIT by the lowest bidder
1	2	3	4	5	6	7	8	9
1	23/EE/Chd-II/2026-27	Annual Repair & Maintenance of Income Tax Colony at Sector-20, Panchkula (Haryana) during 2026-27.	Rs. 19,20,068/-	Rs. 38,401/-	12 Months	Upto 03:00 PM on 29.09.2026	At 03.30 PM on 29.09.2026	Within a week of opening of the financial bid in the office of tender opening authority.

- The contractor submitting the tender should read the schedule of quantities, additional conditions, additional specifications, particular specifications, CPWD- 6 and other terms and conditions given in the NIT and drawings. The bidder should also read the **General Conditions of Contract-2023 (Maintenance Works)** with up to date correction slips, which is available as Government of India Publications, however, provisions included in the tender document shall prevail over the provisions contained in the standard form. The set of drawings and NIT shall be available in the office of **Executive Engineer, Chandigarh-II, CPWD, Chandigarh**. The contractor should also visit the site of work and acquaint himself with the site conditions before tendering. He should only submit his tender if he considers himself eligible and he is in possession of all the required documents. The following conditions, which already form part of the tender conditions, are specially brought to his notice for compliance while submitting the tender online. They are requested to comply following instructions.
 - Tenders with any condition including that of conditional rebates shall be rejected forthwith.
 - The successful bidder shall be required to submit a **Performance Guarantee of 5% (Five Percent) of the tendered amount or Estimated Cost Put to Tender (ECPT) (whichever is higher)**. Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement as above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount within 7 days of issue of letter of intent. This period can be further extended by Engineer-in-Charge up to a maximum period of 7 days on the written request of the contractor and with late fee as defined in Schedule F.
 - GST, Labour-Cess etc. as applicable shall be borne by the contractor himself. The contractor shall quote his rates considering all such taxes and hence their quoted rates should be inclusive of all the tax components.

- (D) It will be obligatory on part of the Contractor/ Bidder to tender for and sign the tender documents for all the component parts. The department reserves right to accept tender in full or in part without assigning any reasons.
2. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
 3. Information and instructions for bidder posted on website shall form part of tender document.
 4. The bid documents consisting of plans, specifications, the schedule of quantities of various types of works to be done and the set of terms and conditions of the contract to be complied with the contractor whose bid may be accepted and other necessary documents can be seen anytime on new website etender.cpwd.gov.in
 5. The bids will be submitted upto 3:00 PM on 29.09.2026. The bid shall be opened at 3:30 PM on 29.09.2026
 6. Those contractors not registered on the website mentioned above are required to get registered beforehand. If needed they can be imparted training on online tendering process as per details available on the website.
 7. The intending bidder must have valid class-III digital signature to submit the tender.
 8. On opening date, the contractor can login and see the tender opening process. After opening of tenders he will receive the competitor's tender sheets.
 9. Contractor can upload documents in the form of JPG format and PDF format.
 10. Certain modifications may be required. Addendum / Corrigendum shall be uploaded by the Engineer-in-Charge, if felt necessary by him, which shall form part of tender document.
 11. The bidders are advised to visit the site before submitting his bid to have more clarity about the site conditions and availability of space for execution of the work.

**Executive Engineer,
Chandigarh-II, CPWD,
Sector-7B, Chandigarh.
(For and on behalf of President of India)**

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE: Haryana.

DIVISION: Chandigarh-II

CIRCLE: Superintending Engineer, Chandigarh.

SUB-DIV.: CCSD-IV

PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

Tender for the Work: Annual Repair & Maintenance of Income Tax Colony at Sector-20, Panchkula (Haryana) during 2026-27 to be submitted & uploaded online up to **3.00 PM on 29.09.2026** through website etender.cpwd.gov.in to **Executive Engineer, Chandigarh-II, CPWD, Sector-7B, Chandigarh.**

- (i) To be opened through online in presence of tenderers who may be present at **3.30 PM. on 29.09.2026** in the office of **Executive Engineer, Chandigarh-II, CPWD, Sector-7B, Chandigarh.**

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 and other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the President of India within the time specified in Schedule 'F', viz. Schedule of Quantities and in accordance in all respect with the Specifications / Special conditions, Designs, Drawings and instructions in writing as 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 respect of accordance with, such conditions so far as applicable.

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

I/We have deposited EMD for the prescribed amount in the office of concerned Executive Engineer as per the bid document. A copy of earnest money deposit receipt of prescribed amount deposited in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed) issued by a Commercial Bank, is scanned and uploaded (strike out as the case may be). If I/We, fail to furnish the prescribed **Performance Guarantee and Additional 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 and the Additional Performance Guarantee** absolutely. The said **Performance Guarantee and the Additional Performance Guarantee** shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to

those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

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

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

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

Dated: -	}	Signature of Contractor	}
Witness: -		Postal Address: -	
Address: -			
Occupation: -			
		Telephone No.	
		Fax:-	
		E-Mail:-	

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.

For & on behalf of the President of India.

i)	Signature
ii)	
iii)	
iv)	
Dated: -	Executive Engineer

PROFORMA OF SCHEDULES – CIVIL WORK

SCHEDULE 'A'

Schedule of quantities : **As per NIT**

SCHEDULE 'D'

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

1. Special Conditions : **As per NIT**

2. Particular Specifications. : **As per NIT**

3. Annexures : **As per NIT**

Form of performance security (Bank Guarantee Bond), Form of earnest money deposit (Bank Guarantee Bond), guarantee bond for removal of defects in Stone/tile work etc.

SCHEDULE 'E'

Reference to General Conditions of Contract : **General Conditions of Contract-2023 (Maintenance Works)** modified & corrected upto the previous day of the last date submission of tender.

1.1 Name of Work : **Annual Repair & Maintenance of Income Tax Colony at Sector-20, Panchkula (Haryana) during 2026-27.**

1.2 Estimated Cost of Work : **Rs. 19,20,068/-**

1.3 Earnest Money Deposit : **Rs. 38,401/-**
(To be returned after receiving Performance Guarantee and Additional Performance Guarantee)

1.4 Performance Guarantee : **(a) 5.00% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher).**
(b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.

1.5 Security Deposit : **2.50% of tendered value (However, Performance Guarantee @ 2.50% shall be retained as security deposit after completion of the work).**

SCHEDULE 'F':

General Rules & Directions:-

1. Officer Inviting Tender : **Executive Engineer, Chandigarh-II, CPWD, Chandigarh or his successor thereof**

Definitions:-

2(vi) Engineer-in-Charge : **Executive Engineer, Chandigarh-II, CPWD, Chandigarh or his successor thereof**

2(viii) Accepting Authority : **Executive Engineer, Chandigarh-II, CPWD, Chandigarh or his successor thereof**

2(x) Percentage on cost of materials and labour to cover all overheads and profits : **15%**

2(x)(b) Standard Schedule of Rates : **Delhi Schedule of Rates-2023 amended/ modified & corrected upto the previous day of the last date of submission of tender.**

2(xi) Department : **Central Public Works Department**

9(ii) Standard CPWD Contract Form : **General Conditions of Contract-2023 (Maintenance Works)** and CPWD-7 as amended/ modified & corrected upto the previous day of the last date submission of tender.

Clause-1 :

- (i) Time allowed for submission of : **07 days**
Performance Guarantee, Additional Performance Guarantee, Programme Chart (Time and Progress) and applicable Labour Licences, registration with EPFO, ESIC and BOCW Welfare Board, Provident Fund Nos. or proof of applying thereof from the date of issue of letter of acceptance.
- (ii) Maximum allowable extension with : **07 days**
 late fee @0.1% per day of the **Performance Guarantee and Additional Performance Guarantee** amount beyond the period provided in (i) above

Clause-2 :

Authority for fixing compensation under Clause-2 : Superintending Engineer (Chandigarh), CPWD, Chandigarh or his successor thereof

Clause – 2A :

Whether clause-2A shall be applicable. : Not applicable

Clause-5:

Number of days from the date of issue of letter of acceptance for reckoning date of start : **14 days**

Mile Stone as per table given below:-

Sr. No.	Description of Milestone	Time Allowed in days (from Date of Start)	Amount to be withheld in case of non-achievement of Milestone
1.	1/8 th (of Whole Work)	1/4 th (of whole time)	In the event of not achieving the necessary progress as assessed from the running payments, 1% of the tendered value of work will be withheld for failure of each Milestone.
2.	3/8 th (of Whole Work)	1/2 th (of whole time)	
3.	3/4 th (of Whole Work)	3/4 th (of whole time)	
4.	Full	Full	

Time allowed for execution of Work : **12 Months.**

- i. Authority to convey the decision of Shifting of Milestones and Extension of Time : Executive Engineer, Chandigarh-II, CPWD, Chandigarh or his successor thereof
- ii. Authority to decide Rescheduling of Milestones and Extension of Time : Superintending Engineer (Chandigarh), CPWD, Chandigarh or his successor thereof
- iii Shifting of date of start in case of delay in handing over of site : Superintending Engineer (Chandigarh), CPWD, Chandigarh or his successor thereof

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		Complete site is available
Part B	Portion with encumbrances		NA
Part C	Portion dependent on work of other agencies		NA

Clause-6, Computerized Measurement Book (CMB)/ Electronic Measurement Book (EMB)	:	Electronic Measurement Book (EMB)
Clause-7: Gross work to be done together with net payment / adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment	:	Rs. 1.60 Lakhs
Clause-7A Regarding applicability of labour laws:- Related to Labour Licence, registration of contractor with EPFO, ESIC and BOCW welfare board i/c Provident Fund	:	Yes Applicable
No running account bill shall be paid in the work till the applicable Labour Licence, registration with EPFO, ESIC, BOCW welfare board including Provident Fund Code No. if applicable whatever applicable are submitted by the contractor to the Engineer-in-Charge.		
Clause-8 Competent Authority to inspect and issue Completion Certificate	:	Executive Engineer, Chandigarh-II, CPWD, Chandigarh or his successor thereof.
Clause-10A Materials to be provided by the contractor	:	As per DG/CON/Maintenance-2023/12 dated 09.10.2024 and as per NIT
Clause-10B (ii). Whether Clause-10B (ii) shall be applicable	:	Not Applicable
Clause-10C	:	Applicable (% of labour component 25%)
Clause-10CC	:	Not Applicable
Clause-11:- Specifications to be followed for with execution of work	:	C.P.W.D. Specifications-2019 (Vol. I & II) correction slips issued upto the previous day of the last date submission of tender.
Clause-12	:	As per General Conditions of Contract - 2023 (Maintenance Works) amended/ modified & corrected up to previous day of last date of submission of tender
Type of Work	:	Maintenance Work
Clause-16:- Competent Authority for deciding reduced rates.	:	Superintending Engineer (Chandigarh), CPWD, Chandigarh or his successor thereof
Clause 18:- List of mandatory machinery, tools & plants to be deployed by the contractor at site for execution of work	:	As per NIT
Clause 19 C:- Authority to decide penalty for each default :	:	Executive Engineer, Chandigarh-II, CPWD, Chandigarh or his successor thereof
Clause 19 D:- Authority to decide penalty for each default :	:	Executive Engineer, Chandigarh-II, CPWD, Chandigarh or his successor thereof
Clause 19 G:- Authority to decide penalty for each default :	:	Executive Engineer, Chandigarh-II, CPWD, Chandigarh or his successor thereof
Clause 19 K:- Authority to decide penalty for each default :	:	Executive Engineer, Chandigarh-II, CPWD, Chandigarh or his successor thereof

Clause-25: Settlement of Disputes by Conciliation and Arbitration

- (i) Conciliator: : SDG (Chandigarh)
(ii) Arbitrator Appointing Authority: : SE-Chandigarh
(iii) Place of Arbitration: : CHANDIGARH
(iv) Mode: : PHYSICAL MODE / Online

Clause-32: Requirement of Technical Representative(s) and Recovery Rate

Sr. No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical/ Technical Representative)	Minimum Experience	Number	Rate at which recovery shall be made from contractor in the event of non-deployment.	
						Figures	Words
1	Graduate Engineer or Diploma Engineer	Civil	1 No	2 years	1 No	15,000/-	Rs. Fifteen Thousand only Per month
		Civil	1 No	5 years	1 No	15,000/-	

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

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

Clause-38:-

- i) Schedule / Statement for determining theoretical quantity of cement & bitumen : As per Delhi Schedule of Rates-2023 as amended/ modified & corrected upto the previous day of the last date of submission of tender.
- ii) Variations permissible on theoretical quantities.
- a) Cement
- For works with estimated cost put to tender not more than Rs. 25 Lacs. : 3% plus / minus.
- For works with estimated cost put to tender more than Rs. 25 Lacs. : 2% plus / minus.
- b) Steel Reinforcement and Structural Steel Sections for each diameter, section and category. : 2% plus / minus.
- c) All other materials. : Nil.
- d) Bitumen for all works. : 2.50% Plus side only and NIL on minus side.

**Executive Engineer,
Chandigarh-II, CPWD,
Sector-7B, Chandigarh
(For and on behalf of President of India)**

SPECIAL CONDITIONS

1.0 General

- 1.1 Except for the items, for which Particular Specifications are given or where it is specifically mentioned otherwise in the description of the items in the schedule of quantities, the work shall generally be carried out in accordance with the "CPWD Specifications 2019 Vol. I & II" and as per instructions of Engineer-in-Charge. Wherever CPWD Specifications are silent, the latest IS Codes / Specifications shall be followed and the rates should be all inclusive.

In the case of discrepancy between the Schedule of Quantities, the Specifications and/ or the Drawings, the following order of preference shall be observed:-

- (i) Nomenclature of item as per Schedule of Quantities
- (ii) Special Conditions.
- (iii) Particular Specifications.
- (iv) CPWD Specifications.
- (v) Architectural Drawings.
- (vi) Indian Standard Specifications of B.I.S.

All non-schedule items shall be governed by manufacturer's specifications.

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

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

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

- 1.2 Any reference made to any Indian Standard Specifications, shall imply to the latest version of that standard, including such revisions / amendments as issued by the Bureau of Indian Standards upto last date of receipt of tenders. **The Contractor shall keep at his own cost all such publications including relevant Indian Standards applicable to the work at site.**
- 1.3 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).
- 1.4 The work should be planned in a systematic manner so that chase cuttings in the walls, ceilings and floors is minimized. Wherever absolutely essential, the chase shall be cut using chase cutting machines. Chases will not be allowed to be cut using hammer / chisel. The electrical boxes should be fixed in walls simultaneously while raising the brick work. The contractor shall ensure proper co-ordination of various disciplines viz. sanitary & water supply, horticulture & electrical etc.
- 1.5 All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested before covering.
- 1.6 Samples including brand / quality of materials and fittings to be used in the work shall be got approved from the Engineer-in-Charge, well in advance of actual execution and shall be preserved till the completion of the work.

- 1.7 Equipment like concrete pump 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.
- 1.8 The contractor, his agents / representative, workman etc. shall strictly observe orders pertaining to fire precautions prevailing in the area.
- 1.9 Contractor(s) shall study the soil investigation report for the site, available in the office of the Engineer-in-Charge and satisfy himself about complete characteristics of soil and other parameters at site. However, no claim on the alleged inadequacy or incorrectness of the soil data supplied by the department shall be entertained.
- 1.10 The tenderer shall see the approaches to the site. In case any approach from main road is required at site or existing approach is to be improved and maintained for cartage of materials by the contractor, the same shall be provided, improved and maintained by the contractor at his own cost.
- 1.11 Contractor shall take all precautionary measures to avoid any damage to adjoining property. All necessary arrangement shall be made at his own cost.
- 1.12 The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night, speed limit boards, red flags, red lights and providing barriers. He shall be responsible for all damages and accidents caused to work due to negligence on his part. No hindrances shall be caused to traffic, during the execution of the work.
- 1.13 The contractor shall take instructions from the Engineer-in-Charge regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, compound wall, services etc are to be constructed.
- 1.14 The contractor shall provide at his own cost suitable weighing, surveying and leveling and measuring arrangements as may be necessary at site for checking. All such equipments shall be got calibrated in advance from laboratory, approved by the Engineer-in-Charge. Nothing extra shall be payable on this account.
- 1.15 Contractor shall provide permanent bench marks, flag tops and other reference points for the proper execution of work and these shall be preserved till the end of work. All such reference points shall be in relation to the levels and locations, given in the Architectural and plumbing drawings.
- 1.16 Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should conform to byelaws and municipal body / corporation where CPWD Specifications are not applicable. The contractor should get the materials (fixtures/fittings) tested by the Municipal Body / Corporation authorities wherever required at his own cost.
- 1.17 The work shall be carried out in accordance with the Architectural drawings and Structural drawings, to be issued from time to time, by the Engineer-in-Charge. Before commencement of any item of work, the contractor shall correlate all the relevant architectural and structural drawings issued for the work, nomenclature of items, specifications etc. and satisfy himself that the information available there from is complete and unambiguous. The figures & the written dimensions of the drawing shall supercede the measurement by scale. The discrepancy, if any, shall be brought to the notice of the Engineer-in-Charge for immediate decision before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and/ or incomplete information and no claim, whatsoever shall be entertained on this account.
- 1.18 The Architectural drawings other than those indicated in nomenclature of items are only indicative of the nature of the work and materials/fittings involved unless and otherwise specifically mentioned.
- 1.19 The contractor should submit the shop drawing of staging and shuttering for approval of Engineer-in-Charge before actually commencing the execution of work under the item. Nothing extra shall be payable on this account.
- 1.20 Other agencies may also simultaneously execute and install the works and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings, trenches

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

- 1.21 The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of others.
- 1.22 All material shall only be brought at site as per program finalized with the Engineer-in-Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.
- 1.23 The contractor shall procure the required materials in advance so that there is sufficient time for testing of the materials and approval of the same before use in the work.
- 1.24 Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services. In case temporary supporting/shifting of such services is required to facilitate the work, the same shall be done by the contractor at no extra cost.
In case the existing services are to be shifted permanently, then before dismantling the existing services, alternate/diversion of service lines has to be laid by the contractor so that there is no interruption in use of existing services. The contractor has to plan the alternate suitable route for diversion/shifting of service lines and get the same approved from the Engineer-in-Charge before starting shifting of services. Nothing extra shall be paid except the payment of dismantling and laying of new service lines as per conditions of contract.
- 1.25 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.
- 1.26 The contractor shall be fully responsible for the safe custody of materials brought by him/ issued to him even though the materials may be under double lock key system.
- 1.27 With each Running Bill, the details of test carried out shall be submitted by the contractor as per proforma.
- 1.28 In the item of providing and fixing precast reinforced cement concrete in shelves the cost of cutting chases and making good the same shall be inclusive in the item and nothing extra shall be paid on this account.
- 1.29 In the item of finishing walls with water proofing cement paint, only the plain/flat area shall be measured for payment and nothing extra shall be paid on account of pointed wall surface.
- 2.0 Unless otherwise specified in the schedule of quantities or CPWD specifications, the rates for respective items shall be all inclusive and apply to the following: -
 - (i) All lifts & all heights, floors including terrace, leads and depths.
 - (ii) All labour, material, tools and plants and other inputs involved in the execution of the item.
 - (iii) Any of the conditions and specifications mentioned in the tender documents.
 - (iv) Pumping / bailing out surface water / rain water / sub soil water, if necessary for any reason.
 - (v) Providing sunk flooring in bath-rooms, kitchen, etc.
 - (vi) Any legal or financial implications resulting out of disposal of earth, if any.

- (vii) Payment of Royalty at the prevailing rates, if any, on the boulders, metal, shingle, sand and bajri etc. or any other material collected by him for the work direct to revenue authorities.
- (viii) Performance test of the entire installation(s) before the work is finally accepted.
- (ix) Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been built in the items.
- (x) All incidental charges for cartage, storage and safe custody of materials brought to site.

3.0. **TESTING OF MATERIALS:-**

3.1 Samples of materials required for testing shall be provided free of Cost by the Contractor. Samples, whether submitted for approval to govern bulk supplies or required for testing before use and also the samples of materials bearing "Standard mark", if required for testing, shall be provided free of cost by the 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.

The Contractor shall engage one of the following approved laboratories / test house for designing the concrete mix in accordance with relevant IS Code and to conduct laboratory tests to ensure the target strength & workability criteria for a given grade of concrete: -

- i) IIT Roorkee.
- ii) IIT Delhi.
- iii) CBRI, Roorkee.
- iv) NIT, Kurukshetra (Haryana)
- v) National Institute of Technical Teacher Training & Research (NITTTR), Sector-26, Chandigarh.

- a) All other expenditure required to be incurred for taking samples; conveyance, packing etc. shall be borne by the contractor himself.
- b) 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 & 50% of tests shall be witnessed by AE –in-charge. At least 10% of the tests are to be witnessed by the EE/ SE division office.
- c) All the entries in the registers will be made by the designated Engineering staff of the contractor and same should be regularly reviewed by JE/AE/EE/SE division office.
- d) Contractor shall be responsible for safe custody of all the test registers.
- e) Submission of copy of all test registers, materials 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 AE(P) in Division Office & receipts of registers should also be acknowledged by Accounts Officer by signing the copies and register to confirm receipt in division office.

- a. Extensive testing of the materials used for construction is a pre-requisite for attaining high quality of the work. This shall also require specialized tests, physical, chemical, ultrasonic, x-ray and various other types of tests which cannot possibly be carried out in a site laboratory. These tests also require specialized personal who regularly deal in such testing. Therefore the need arises for carrying out the tests in outside laboratories. These laboratories may be in the Govt. sector, Semi Govt. or Private sector. The outside private laboratories shall be short listed before handed by EE and approval obtained from SE. In case of laboratories in the private sector, the past record and reputation of the laboratory must invariably be inspected before they are short listed.

However, testing of material in any Govt., Lab / Public Undertaking Lab / IIT or NIT Lab / Govt. Engineering College may be allowed by Executive Engineer without prior approval of Superintending Engineer or higher officers provided these labs have all necessary facility to carry out the required tests.

However, if any ultrasonic pulse velocity / load testing or special testing is to be done for concrete whose strength is doubtful, the cost of the same shall be borne by the contractor.

- 3.2 In case there is any discrepancy in frequency of testing as given in list of mandatory tests and that in individual sub-heads of work as per CPWD Specifications higher of the two frequencies of testing shall be followed and nothing extra shall be payable on this account.
- 3.3 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.
- 4.0 SECRECY**
- 4.1 The contractor shall take all steps necessary that all persons employed on any work in connection with the contract have notice that the Indian Official Secrets Act 1923 applies to them & will continue so to apply even after the execution of such works under the contract.
- 4.2 The contract is confidential and must be strictly confirmed to the contractor's own use (except so far as confidential disclosure to sub-contractors or suppliers as necessary) and to the purpose of the contract.
- 4.3 All documents, copies thereof & extracts there from furnished to the contractor shall be returned to the Engineer-in-Charge on the completion of the work / works or the earlier determination of the contract.
- 5.0 LABOUR AND SECURITY**
- 5.1 Contractor should provide his plan for labour huts as per his requirement and get it approved from the Engineer-in-Charge. The contractor will be provided space for labour huts etc. inside the campus but the space requirement and location, as assessed by Engineer-in-Charge shall be final and binding.
- 5.2 Contractor has to follow the security requirement of the campus and obtain necessary entry passes for the labour and vehicles and follow security checks at entry / exit gates, restriction on movement of vehicle, restricted timings of working etc. The Department however shall assist the contractor in obtaining such passes for movement of vehicles and labour. No claim whatsoever shall be entertained on account of delay in entry of vehicles and labour including restrictions in working hours, if there is any.
- 5.3 The contractor shall employ only Indian Nationals after verifying their antecedents and loyalty. The contractor shall, on demand submit list of his agents, employees and work people concerned & shall satisfy as to the bonafides of such people.
- 5.4 The contractor & his work people shall observe all relevant rules regarding security promulgated in which work is to be carried out by the Controlling Administrative Authority of the campus/area (hereinafter referred to as "Administrator").
- 5.5 The contractor, his representative, workman shall be allowed to enter through specified gates & timing as laid down by the controlling authority. They shall be issued an identity card or an individual pass in accordance with the standing rules & regulations & they should possess the same while working. The contractor shall be responsible for the conduct & actions of his workman, agents / representatives.
- 5.6 Normally contractor shall be allowed to carryout work between 7 AM to 6 PM. However, he may also be allowed to carryout the work beyond 6 PM & upto 7 AM if the site conditions / circumstances so demand with prior written permission from the "Administrator". However, if the work is carried out in more than one shift or at night, no claim on this account shall be entertained.
- 5.7 Normally contractor's material / vehicles etc shall be allowed to move in / go-out between 7 AM to 7 PM only & no movement of material / vehicles out of site of work shall be allowed during night hours unless specific permission is obtained from the "Administrator".
- 5.8 In case if a separate entry has been allowed, the contractor has to make all arrangement for making a separate entry gate and barricading of the working area to segregate/separate the same from other areas. All these have to be done by the contractor at his own cost including safeguarding any untoward incident in the restricted area due to separate entry gate and barricading arranged by the contractor. No extra amount on this account shall be payable by the department.
- 6.0 PROGRAM CHART: -**
- 6.1 The Contractor shall prepare an integrated program chart in MS Project, for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment

- and machinery required for the fulfillment of the program within the stipulated period or earlier and submit the same for approval of the Engineer-in-Charge within **3 days** of the issue of letter of acceptance for the contract.
- 6.2 The work has to be completed in stages as indicated in the **Milestones under Schedule 'F'** and the program should be prepared in such a manner to achieve these Milestones as indicated therein or earlier.
- 7.1 The program chart should include the following: -
- Descriptive note explaining sequence of various activities.
 - Network (PERT / CPM / BAR CHART) prepared on MS Project software which will indicate resources in financial terms, manpower and specialized equipment for every important stage.
 - Program for procurement of materials by the contractor.
 - Program of procurement of machinery / equipments having adequate capacity, commensurate with the quantum of work to be done within the stipulated period, by the contractor.
- 7.2 If at any time, it appears to the Engineer-in-Charge that the actual progress of work does not conform to the approved program referred above, the contractor shall produce a revised program showing the modifications to the approved program by additional inputs to ensure completion of the work within the stipulated time.
- 7.3 The submission of revised program or approval by the Engineer-in-Charge of such program or the furnishing of such particulars shall not relieve the contractor of any of his duties or responsibilities under the contract. This is without prejudice to the right of Engineer-in-Charge to take action against the contractor as per terms and conditions of the agreement.
Notwithstanding the fact that the contractor will have to pay to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour regulations and the agreement entered upon and/or extra amounts for any other reason.
- 7.4 **PROGRESS AND MONITORING OF WORK:**
Contractor shall give the Engineer-in-Charge on the 10th day of each month, progress report of the work done during the previous month. Such progress report will include the project progress summary, work progress (planned v/s. actual), PERT chart, milestone status, financial progress status, manpower deployment status, important materials consumed, materials at site at the beginning of the month, materials consumed during the month and the balance quantities at the end of month and progress of the work stating the reasons for shortfall, if any including the steps and measures to be taken for making good the shortfall in the succeeding period. Non submission of aforesaid progress report shall make contractor liable for action under breach of contract conditions.
- 8.0 **SAMPLE OF MATERIALS: -**
- 8.1 All materials and fittings brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work. If a particular brand of material is specified in the item of work in Schedule of Quantity, the same shall be used after getting the same approved from Engineer-in-Charge. Wherever brand / quality of material is not specified in the item of work, the contractor shall submit the samples as per **List of Preferred Makes as per NIT** for approval of Engineer-in-Charge. For all other items, ISI Marked materials and fittings shall be used with the approval of Engineer-in-Charge. Wherever ISI Marked material / fittings are not available, the contractor shall submit samples of materials / fittings manufactured by firms of repute conforming to relevant Specifications or IS codes for the approval of Engineer-in-Charge.
- 8.2 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.
- 8.3 BIS marked materials except otherwise specified shall also be subjected to quality test besides testing of other materials as per the specifications described for the item/material. Wherever BIS marked materials are brought to the site of work, the contractor shall, furnish manufacturer's test certificate or test certificate from approved testing laboratory to establish that the material procured by the contractor for incorporation in the work satisfies the provisions of specifications relevant to the material and / or the work done.
BIS marked items (except cement & steel for which separate provisions have been made in para 10.0)

required on the work shall be got tested, for only important tests, which govern the quality of the product, as decided by the Engineer-in-Charge. The frequency of such tests (except the mandatory test) shall be 5% of the frequency as specified in BIS. For mandatory test, frequency shall be as specified in the CPWD Specifications

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

9.0 CEMENT & STEEL REINFORCEMENT (IF NOT STIPULATED TO BE SUPPLIED BY THE DEPARTMENT).

- 9.1 Contractor has to produce manufacturers test certificate for each lot of Cement & Steel Reinforcement procured at site.

9.2 CEMENT:-

- 9.2.1 The contractor shall procure 43 Grade Ordinary Portland Cement and/or Portland Pozzolona Cement (Fly Ash based), required in the work from reputed manufacturers of cement as per the approved make in 50 kg. bags bearing manufacturer's name and ISI marking, along with manufacturers test certificate for each lot. Portland Pozzolona Cement is to be used for RCC works only subject to fulfillment of conditions of circular number CDO / SE (RR) / fly ash (MAN) 02 dated 09.04.09. In case contractor / firm uses OPC only nothing extra shall be paid.

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

- 9.2.3 OPC/ PPC shall be brought at site in bulk supply of approximately 10 tonnes or as decided by the Engineer-in-Charge.

- 9.2.4 OPC/ PPC bags shall be stored in separate godowns. Separate godowns for tested cement and fresh cement (under testing) to be constructed by the contractor at his own cost as per sketches given in C.P.W.D Specifications having weather-proof roofs and walls. The size of the cement godown is indicated in the sketches for guidance. The actual size of godown shall be as per site requirements and nothing extra shall be paid for the same. Each godown shall be provided with a single door with two locks. The keys of one lock shall remain with Engineer-in-Charge of the work and that of other lock with the authorized agent of the contractor at the site of work so that the cement is issued from godown according to the daily requirement with the knowledge of both parties. The account of daily receipt and issue of cement shall be maintained in a register in the prescribed proforma and signed daily by the contractor or his authorized agent and Engineer-in-Charge or his authorized representative in token of its correctness.

The day to day receipt and issue accounts of different grade/brand of cement shall be maintained separately in the standard proforma by the contractor or his authorized representative which shall be duly signed by the authorized representative of the Engineer-in-Charge before issue to the work on day to day basis.

The capacity of each cement go-down shall be 1000 bags of cement or more as decided by the Engineer-in-Charge and shall be constructed by the contractor at site of work and at the site of batching plant for which no extra payment shall be made. The contractor shall be responsible for the watch and ward and safety of the cement go-downs. The contractor shall facilitate the inspection of the cement go-downs by the Engineer-in-Charge at any time

- 9.2.5 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in Clause-42 of the contract and shall be governed by the conditions laid therein.

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

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

- 9.2.7 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.
- 9.2.8 In case the contractor brings surplus quantity of cement the same shall be removed from the site after completion of work by the contractor at his own cost after approval of the Engineer-in-Charge.

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

10.1 STEEL REINFORCEMENT

10.1.1 "The Contractor shall procure TMT bars of **Fe-500D** Grade (the Grade to be procured is to be specified) from primary steel producers such as **SAIL, Tata Steel Ltd., RINL and JSW Steel Ltd. or any other producer as approved by CPWD who are using iron ore as the basic raw material/input and having crude steel capacity of 2.0 Million tonnes per annum and above.**

- (a) The grade of the steel such as **Fe-500D** to be procured is to be specified as per BIS 1786-2008.
- (b) The TMT bars procured from Primary Producers **and ISPs** shall conform to manufacturer's specifications.
- (c) The TMT bars procured from secondary producers shall conform to the specifications as laid by Tempcore, Thermex, Evcon Turbo & Turbo Quench as the case may be.
- (d) TMT bars procured from Primary Producers, the specifications shall meet the provisions of IS 1786:2008 pertaining to **Fe-500D** of steel as specified in the tender.
- 10.2.1 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.
- 10.3.1 Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications as defined above, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time or written orders from the Engineer-in-Charge to do so.
- 10.4.1 The steel reinforcement bars shall be brought to the site in bulk supply of 10 tonnes or more, or as decided by the Engineer-in-charge.
- 10.5.1 The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent their distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
- 10.6.1 For checking nominal mass, tensile strength, bend test, re-bend test etc. specimens of sufficient length shall be cut from each size of the bar at random, and at frequency not less than that specified below:
- | Size of bar | For consignment below 100 tonnes | For consignment above 100 tonnes |
|-------------------------|---|---|
| Under 10 mm dia bars | One sample for each 25 tonnes or part thereof | One sample for each 40 tonnes or part thereof |
| 10 mm to 16 mm dia bars | One sample for each 35 tonnes or part thereof | One sample for each 45 tonnes or part thereof |
| Over 16 mm dia bars | One sample for each 45 tonnes or part thereof | One sample for each 50 tonnes or part thereof |
- 10.7.1 The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. The cost of tests shall be borne by the contractor.
- 10.8.1 The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations recovery

at the rate so prescribed shall be made. In case of excess consumption, no adjustment needs to be made.

- 10.9.1 The steel brought to site and the steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.
- 10.10.1 The contractor shall submit original vouchers from the manufacturer for the total quantity of steel supplied under each consignment to be incorporated in the work. All consignment received at the work site shall be inspected by the Site staff along with the relevant documents before acceptance. The contractor shall obtain Original Vouchers and Test Certificates and furnish the same to the Engineer-in-Charge in respect of all the lots of steel brought by him from approved supplier to the site of work. The original vouchers and test certificates shall be defaced by the Site staff and kept on record in the site office.
- 10.11.1 Reinforcement including authorized spacer bars and lappings shall be measured in length of different diameters as actually (not more than as specified in the drawings) used in the work nearest to a centimeter.
Wastage and unauthorized overlaps shall not be measured.
- 10.12.1 The standard sectional weights referred to as in Table 5.4 in para 5.3.4 in CPWD Specifications will be considered for conversion of length of various sizes of M.S. Bars, T or Steel Bars and T.M.T. bars into Standard Weight.
- 10.13.1 Records of actual Sectional weights shall also be kept dia-wise and lot-wise. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site. The decision of the Engineer-in-Charge shall be final for the procedure to be followed for determining the average sectional weight of each lot. Quantity of each diameter of steel received at site of work each day will constitute one single lot for the purpose. The weight of steel by conversion of length of various sizes of bars based on the actual weighted average sectional weight shall be termed as Derived Actual Weight.
However for the stipulated issue of steel reinforcement up to and including 10mm diameter bars, the actual weight of steel issued shall be modified to take into account the variation between the actual and the standard coefficients and the contractors' accounts will be debited by the cost of modified quantity.
- 10.14.1 a) If the Derived Weight as in sub-para (10.13.1) above is less than the Standard Weight as in Sub-para (10.12.1) above then the Derived Actual Weight shall be taken for payment provided, it is within the tolerances specified in IS 1786-2008, otherwise whole lot will be rejected.
b) If the Derived Actual Weight is found more than the Standard Weight, the Standard Weight as per in sub-para (10.12.1) above shall be taken for payment. In such case nothing extra shall be paid for the difference between the Derived Actual Weight and the Standard Weight.

11.1 Removal of rejected/sub-standard materials

The following procedure shall be followed for the removal of rejected/sub-standard materials from the site of work:

- (i) Whenever any material brought by the contractor to the site of work is rejected, entry thereof should invariably be made in the Site Order Book under the signature of the Assistant Engineer, giving the approximate quantity of such materials.
- (ii) As soon as the material is removed, a certificate to that effect shall be recorded by the Assistant Engineer against the original entry, giving the date of removal and mode of removal, i.e., whether by truck, carts, or by manual labour. If the removal is by truck, the registration number of the truck should be recorded.
- (iii) When it is not possible for the Assistant Engineer to be present at the site of work at the time of actual removal of the rejected/sub-standard materials from the site, the required certificate should be recorded by the Junior Engineer, and the Assistant Engineer should countersign the certificate recorded by the Junior Engineer.

PARTICULAR SPECIFICATIONS (Civil Work)

1.0 EARTH WORK: -

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

1.2 EARTH WORK FOR MAJOR WORKS

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

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

1.2.3 The contractor shall make at his own cost all necessary arrangements for maintaining water level, in the area where works are under execution low enough so as not to cause any harm to the work shall be considered as inclusive of pumping out or bailing out water, if required, for which no extra payment shall be made. This will include water coming from any source, such as rains, accumulated rain water, floods, leakages from sewer and water mains subsoil water table being high or due to any other cause whatsoever. The contractor shall make necessary provision of pumping, dredging bailing out water coming from all above sources and excavation and other works shall be kept free of water by providing suitable system approved by the Engineer-in-charge. Sub-soil water table at work site is reported to be about approx. 6.5 m. below the general ground level as observed in the month of April. The water level is likely to rise up to 1 to 2 m. during rainy season. In order to avoid possibility of basement floor of main building being getting uplifted/damaged due to water pressure, the contractor shall lower the ground water table below the proposed foundation level by boring tube wells all around the proposed building using well point sinking method or any suitable method as approved by Engineer-in-charge. Sub soil water table shall be maintained at least 50 cm. below the P.C.C. level during laying of P.C.C. water proofing treatment, laying of basement raft and beams including filling of earth/sand under the basement floor. The water table shall not be allowed to rise above base of raft level until completion of outer retaining walls including water proofing of vertical surface of walls and back filling along the walls upto ground level and until the structure attains such height to counter balance the uplift pressure. However, the contractor should inspect the site and make his own assessment about sub-soil water level likely to be encountered at the time of execution and quote his rates accordingly. Rate of all items are inclusive of pumping out or bailing out water, if required. Nothing extra on this account whatsoever shall be paid to him. The sequence of construction shall be got approved by the Engineer-in-charge.

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

2.0 RCC WORK (ORDINARY)

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

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

2.2 FORM WORK

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

2.2.2 Only M.S. centring / shuttering and scaffolding material unless & otherwise specified shall be used for all R.C.C. work to give an even finish of concrete surface. However, marine-ply shuttering in exceptional cases as per site requirement may be used on specific request from contractor to be approved by the Engineer-in-Charge. But nothing extra shall be paid on this a/c.

- 2.2.3 Nothing extra shall be paid for the centring and shuttering, circular in shape whenever the formwork is having a mean radius exceeding 6m in plan.
- 2.2.4 Nothing extra shall be paid for grid beams and the corresponding slabs having clear span more than 1.20 metres.
- 2.2.5 In order to keep the floor finish as per architectural drawings and to provide required thickness of the flooring as per specifications, the level of top surface of R.C.C. shall be accordingly adjusted at the time of its centring, shuttering and casting for which nothing extra shall be paid to the contractor except the places where different type of flooring is provided in the same room.
As per general engineering practice, level of floors in toilet / bath, balconies, shall be kept 12 to 20mm or as required, lower than general floors shuttering should be adjusted accordingly. Nothing extra is payable on this account.
- 2.2.6 Steel shuttering as approved by the Engineer-in-Charge shall be used by the contractor. Minimum size of shuttering plates shall be 600mm x 900mm except for the case when closing pieces are required to complete the shuttering panels.
Dented, broken, cracked, twisted or rusted shuttering plates shall not be allowed to be used on the work. The shuttering plates shall be cleaned properly with electrically driven sanders to remove any cement slurry or cement mortar or rust. Proper shuttering oil or de-bonding compound shall be applied on the surface of the shuttering plates in the requisite quantity before assembly of steel reinforcement.
- 2.3 REINFORCEMENT:-**
- 2.3.1 The reinforcement shall be done as per CPWD Specifications.
- 2.3.2 The rate of item of reinforcement of RCC work includes all operations including straightening, cutting, bending, welding, binding with annealed steel wire or welding and placing in position at all the floors with all leads and lift complete as per CPWD Specifications.
- 2.3.3 The contractor shall provide approved type of support for maintaining the bars in position and ensuring required spacing and correct cover of concrete to reinforcement as called for in the drawings, spacer blocks of required shape and size. Chairs and spacer bars shall be used in order to ensure accurate positioning of reinforcement. **Spacer blocks shall be casted well in advance with approved proprietary pre-packed free flowing mortars (Conbextra as manufactured by M/s Fosroc Chemicals India Ltd. or of approved equivalent)** of high early strength and same colour as of surrounding concrete. However, Cover Guard Bars shall also be used to maintain proper cover of RCC Columns in addition to spacer blocks as mentioned above. Pre-cast cement mortar/concrete blocks/blocks of polymer shall not be used as spacer blocks unless specially approved by the Engineer-in-charge, rate of RCC items is inclusive of cost of such cover blocks & Cover Guard Bars.
- 2.4 PRE-CAST RCC WORK**
- 2.4.1 The work shall be done in accordance with CPWD Specifications.
- 2.4.2 Pre-cast reinforced concrete units shall be of grade or mix as specified. Provision shall be made in the mould to accommodate fixing devices such as hooks etc. and forming of notches and holes. Each unit shall be cast in one operation. A sample of the unit shall be got approved from Engineer-in-charge before taking up the work.
- 2.4.3 Pre-cast units shall be clearly marked to indicate the top of member and its location.
- 2.4.4 Pre-cast units shall be stored, transported and placed in position in such a manner that these are not damaged.
- 2.4.5 The compaction of the concrete shall be done by vibrating, table or external vibrator, as approved by Engineer-in-charge. The rate quoted for the item shall include the element for framework and mechanical vibration.
- 2.4.6 Rate for item includes cost of all materials, labour, and all operations involved. Cost of M.S. frames, lugs including their welding, lifting hooks is also included.
- 2.4.7 In the item of providing and fixing precast reinforced cement concrete in shelves the cost of cutting chases and making good the same shall be inclusive in the item and nothing extra shall be paid on this account.
- 3.0 BRICK WORK:-**
- 3.1 The brickwork shall be carried out with good quality well burnt FPS bricks of class designation 75 as per CPWD Specifications. Exposed brick work for ground level to plinth level shall be executed with selected FPS bricks of class designation 75.
- 3.2 The rate shall also include for leaving chases / notches for dowels / cramps for all kinds of cladding to come over brick work.

- 3.3 Brick work provided around shaft or lift walls or around slab cutouts shall be measured in the brick for corresponding floor level. Nothing extra shall be paid on this account.
- 3.4 M.S. Strip/ Bar provided at every third course of half brick masonry shall be in single piece. If required, welding joint can be used without overlaps. Nothing extra shall be paid for welding and overlaps.
- 4.0 STONE / MARBLE WORK**
- 4.1 General: - The execution of stones work shall be in general as per CPWD Specifications (Volume-I) 2019, with up-to-date correction slips.
- 4.2 GRANITE/ MARBLE WORKS**
- 4.2.1 The granite/ marble stonework shall, in general, be carried out as per the CPWD Specifications. The specifications for dressing, laying, curing, finishing, measurements, rate etc. for the granite/ marble stone flooring shall be same as that of works for the Marble flooring, skirting and risers of steps under Flooring Sub Head of the CPWD Specifications. The wall lining / veneer work with granite/ marble stone shall be as per the CPWD Specifications for Marble work Sub Head.
- 4.2.2 The decision of the Engineer-in-Charge as regards the approval of the samples for the various types of the granite/ marble stones shall be final and binding on the Contractor. No claim of any kind whatsoever shall be entertained from the Contractor on this account. The Contractor shall then procure and get the mock up prepared at site of work for approval of quality of workmanship and the granite/marble stone as specified. The mock up shall be prepared in lift lobby, toilet etc. on one of the floors. The size of the stones shall be as per the architectural drawings. If the quality of the workmanship and the material is as per the required standards, the mock up shall be allowed as part of the work and measured for payment and shall not be dismantled. Otherwise, it shall be dismantled by the contractor as directed by the Engineer-in-Charge and taken away from the site of the work at his own cost. Nothing extra shall be payable on this account.
- 4.2.3 That the curvilinear profile of the entrance steps for the building shall be negotiated in segmental manner (using trapezoidal shaped granite stone pieces with straight edges for treads and rectangular stone pieces for the risers) and not in curved profiles as specified earlier. However the granite/ marble stone slabs shall be cut to required sizes and shapes, as per the architectural drawings, to negotiate the curved steps in segmented manner. The risers shall also be cut to required sizes and shapes and the edges chamfered at the joints, all as per the architectural drawings. However, the Contractor shall prepare the detailed shop drawings for the same and commence work only after the approval by the Engineer-in-Charge. The rate shall also include any consequent wastage, incidental charges involved in this work. Nothing extra shall be payable on this account. For the purpose of payment, the actual area of each type of granite/ marble stone as laid shall be measured.
- 4.2.4 For the steps (risers and treads) in the linear profile, the granite/ marble stone shall be provided in single pieces up to 2.0m as per the architectural drawings, unless otherwise specifically permitted by the Engineer-in-Charge. Wherever grooves are required to be provided the same is to be done as per architectural drawings and as directed by the Engineer-in-charge. Wherever required, the joints shall be provided as per the architectural drawings. Nothing extra shall be payable on these accounts.
- 4.2.5. The granite/ marble slabs used for providing and fixing in the sills, soffits and jambs of doors, windows, ventilators and similar locations shall be in single piece unless otherwise directed by the Engineer-in-Charge. Wherever stone slab other than in single piece is allowed to be fixed, the joints shall be provided as per the architectural drawings and as per the directions of the Engineer-in-Charge. In the cabin areas, the joints in sills shall preferably be provided in line with the partition wall. Depending on the number of joints, as far as possible, the stone slabs shall be procured and fixed in slabs of equal lengths as per the architectural drawings and as directed by Engineer-in-Charge.
- 4.2.6 While fixing the granite/ marble slabs in sills, soffits and jambs of doors, windows, ventilators etc., rebates shall be made by overlapping the stones at the required places for fixing shutters for doors, windows and ventilators etc. as shown in the architectural drawings and as per the directions of the Engineer-in-Charge. Epoxy based adhesives shall be used for fixing the granite/ marble stones to each other, or wherever required. The authorized overlap as per the architectural drawings or as directed by the Engineer-in-Charge shall be measured for payment under the same item. However, any extra mortar thickness required due to the overlap arrangement shall be deemed to have been included in the rate of this item. Nothing extra shall be payable on this account. The granite/ marble stone slab shall be fixed over low level storage cabinets using necessary adhesive as per the manufacturer's specification. The stone shall have uniform thickness and shall be provided in sizes as per the architectural drawings. The stone slab shall have uniformly leveled surface after fixing. All the joints shall be finished smoothly in a workmanlike manner.
- 4.2.7 The granite/ marble work shall be adequately protected by a layer of Plaster of Paris, which shall be maintained throughout and removed just before handing over of the works for which nothing extra shall be payable.

4.3 SAMPLES FOR STONE WORK

Samples of each item of stone work either individually or in combination shall be prepared for approval of Engineer-in-charge before commencement of work.

5.0 WOOD WORK

- 5.1 The wood work in general shall be carried out as per CPWD Specifications (Volume-I) 2019, with upto date correction slips.
- 5.2 The factory shall be got approved from the Engineer-in-charge before commencement of work for factory made wood work. The sample of timber to be used shall be deposited by the contractor with Engineer-in-charge before commencement of work.
- 5.3 The shape and size of beading shall be as per drawings. The joints of beading shall be mitred.
- 5.4 Timber shall be of specified species, good quality and well-seasoned. It shall have uniform colour, reasonably straight grains and shall be free from knots, cracks, shakes and sapwood. It shall be close grained. The contractor shall deposit the samples of species of timber to be used with the Engineer-in-Charge for testing before commencement of the work.
- 5.5 Wood work shall not be painted, oiled or otherwise treated before it has been approved by the Engineer-in-charge. All portion of timber including architrave abutting against masonry, concrete, stone or embedded in ground shall be painted with approved wood preservative or with boiling coal tar.
- 5.6 The contractor(s) shall produce cash voucher and certificates from approved Kiln Seasoning Plants about the timber used on the work having been kiln seasoned and chemically treated by them, falling which it would not be so accepted as kiln seasoned and/or chemically treated.
- 5.7 Transparent sheet glass conforming to IS: 2835 – 1977 shall be used. Thickness being governed as under unless otherwise specified in the item in wood work/steel work:

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

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

6.0 STEEL WORK

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

7.0 FLOORING

- 7.1 All work in general shall be carried out as per CPWD Specifications (Volume 1) 2019 with up-to-date correction slips.
- 7.2 Whenever flooring is to be done in patterns of tiles and stones, the contractor shall get samples of each pattern laid and approved by the Engineer-in-charge before final laying of such flooring. Nothing extra shall be payable on this account.
- 7.3 Different stones / tiles used in pattern flooring shall be measured separately as defined in the nomenclature of the item and nothing extra for laying pattern flooring shall be paid over and above the quoted rate. No additional wastage, if any, shall be accounted for any extra payment.
- 7.4 Samples of flooring stones/ Tile (Kota/ Marble/ Granite/ Ceramic tiles/ Vitrified tiles etc.) shall be deposited well in advance with the Engineer-in-Charge for approval. Approved samples should be kept

- at site with the Engineer-in-Charge and the same shall not be removed except with the written permission of Engineer-in-Charge. No payment whatsoever shall be made for these samples.
- 7.5 The Marble/ Kota/ Granite or any other stone shall be fully supported by the details establishing the quarry and its location.
- 7.6 Full width Marble/ Kota/ Granite stone over kitchen platform shall be provided which shall not be less than 900mm long except to adjust for closing pieces. The marble / stone flooring in treads and risers of staircase shall not be less than 1500mm long except to adjust the closing pieces. Nothing extra shall be paid on these accounts
- 7.7 **Vitrified Tile Flooring**
The tiles shall be of approved make and shall generally conform to Table 12 of IS15622. The full body Vitrified tiles of specified sizes shall be used & sample of tiles shall be got approved from the Engineer-in-Charge. All tiles shall be rectified and double charge minimum. The Mandatory tests for vitrified tiles shall be got done as per CPWD Specifications (Volume-1) relevant BIS Code.
- 7.8 **Ceramic Tiles Flooring**
The tiles shall be procured from the approved manufactures of the specified shade & colour. The floor & wall tiles shall be conforming to IS:15622 for floor and wall tiles respectively. Test shall be conducted to satisfy the quality of material as per CPWD Specifications
- 7.9 The rate of items of flooring is inclusive of providing sunken flooring in bathrooms, kitchen etc. and nothing extra on this account is admissible. The proper gradient shall be given to flooring for toilets, verandah, kitchen, courtyard, etc. as per the directions of Engineer-in-charge.
- 7.10 The entire responsibility for the quality of work will however rest with the building contractor only and he shall submit a Guarantee Bond (if applicable) on standard Proforma 10% (ten percent) of the cost of all tile items in addition to normal security deposit of the whole work, would be retained as security deposit and the amount so deducted would be released after Five years from the date of completion of the entire work under the agreement, if the performance of the items is found satisfactory. If any defect is noticed during the guarantee period, the contractor should rectify it within seven days and if not attended to the same will be got done from another agency at the risk and cost of contractor. However, this security deposit can be released in full if bank guarantee of equivalent amount is produced and deposited with the department.
- 8.0 **FINISHING:-**
- 8.1 The work shall be done in accordance with CPWD Specifications (Volume II) 2019 with up-to-date correction slips and/or manufacturers specifications wherever applicable.
- 8.2 All painting material of approved brand and manufacturer shall be brought to the site of work in the original sealed containers. The material brought to the site of work shall be sufficient for at least 30 days of work. The material shall be kept under the joint custody of contractor and representative of the Engineer-in-charge. The empty containers shall not be removed from the site till the completion of the work without permission of the Engineer-in-charge.
- 8.3 In the item of finishing walls with water proofing cement paint, only the plain/flat area shall be measured for payment and nothing extra shall be paid on account of pointed wall surface.
- 9.0 **Aluminium doors, windows, ventilators etc. glazing specifications**
- 9.1 **Extent and Intent:** - The work shall be carried out in the factory through an approved Special Agency, who shall furnish all material, labour, accessories, equipment, tool and plants and incidentals required for providing and installing anodized/powder coated aluminium doors, windows, claddings, louvers and other items as called for on the drawings. The drawings and specifications cover the major requirements only. The supplying of additional fastenings, accessories, fixtures and other items not mentioned specifically herein, but which are necessary to make a complete installation shall be a part of this contract. Hinges for openable panel shall be stainless steel friction hinges / stays selected for specified wind load and dead loads or specifically extruded in-built hinges.
- 9.2 **General:** - Aluminium doors, windows etc. shall be of sizes, section details as shown on the Architectural drawings. The details shown on the drawings indicate generally the sizes of the component parts and general standards. These may be varied slightly to suit the standard adopted by the manufacturers. Before proceeding with any manufacturing, the contractor shall prepare and submit complete manufacturing and installation drawings for approval of the Engineer-in-Charge and no work shall be performed until the approval of these drawings is obtained.

- 9.3 **Shop Drawings:** - The contractor shall submit the shop drawings of doors, windows, louvers, cladding and other aluminium work, based on the architectural drawings to the Engineer-in-Charge for his approval. The shop drawing shall show full size sections of doors, windows etc. thickness of metal (i.e. wall thickness) details of construction, sub frame/rough ground profile, anchoring details hardware as well as connection of windows, doors and other metal work to adjacent work. Samples of all joints and methods of fastening and joining shall be submitted to the Engineer-in-Charge for approval well in advance of commencing the work.
- 9.4 **Samples:** - Samples of doors, windows louvers etc. shall be fabricated, assembled in the factory and submitted to Engineer-in-Charge for his approval. They shall be of sizes, types etc. as decided by Engineer-in-Charge. All samples shall be provided at the cost of the contractor.
- 9.5 **Sections:** - Aluminium doors and windows shall be fabricated from extruded sections of profiles as detailed on drawings. The sections shall be extruded by the manufacturers approved by the Engineer-in-Charge. The aluminium extruded sections shall conform to BIS designation IIE/IIV 9 WP alloy, with chemical composition technical properties, as per IS: 733 and IS: 1285. The permissible tolerance of the extruded sections shall be such as not to impair the proper and smooth function/ operations and appearance of doors and windows.
- 9.6 **Fabrication:** - Doors, windows etc. shall be fabricated to sizes at factory and shall be of section, sizes, combinations and details as shown on the drawings. All doors, windows etc. shall have mechanical joints. The joints shall be designed to withstand a minimum wind load of 150 Kg. per Sqm. The design shall also incur that the maximum deflection of any member shall not exceed 1/175 of the span of the member. All members shall be accurately machined and fitted to form hairline joints prior to assembly. The joints accessories such as cleats, brackets etc. shall be of such material as not to cause any bimetallic action. The design of the joints and accessories shall be such that the accessories are fully concealed. The fabrication of doors, windows, etc. shall be done in suitable sections to facilitate easy transportation, handling and installation. Adequate provision shall be made in the door and window members for anchoring to support and fixing of hardware and other fixture as approved by the Architect.
- 9.7 **Anodizing/ powder coating:** -All aluminium sections shall be Powder coated (minimum 50 micron thickness) as per requirement as per IS: 7088 and to required colour as specified in the item as per IS: 1868 grading as specified in item schedule after cutting the member to requisite sizes before the final assembly. Powder coating shall be of minimum 50 micron thickness. Anodizing confirming to specified grade with minimum average thickness of 15 microns when measured as per IS: 612. The anodic coating shall be properly sealed by steams or in boiling water are cold sealing process as per IS:1868/IS: 6057. Polythene tape protection shall be applied on the anodised section before they are brought to site. All care shall be taken to ensure surface protection during transportation, storage at site and installation. The tape protection shall be removed on installation. The sample will be tested in the approved laboratory and cost of samples; etc. shall be borne by the contractor.
- 9.8 **Protection of finish:** - All aluminium members shall be wrapped with approved self-adhesive non-staining. PVC tapes.
- 9.9 **Handling and Stacking:** -
- 9.9.1 Fabricated materials shall be carried in an approved manner to protect the material against any damage during transportation. The loading and unloading shall be carried out with utmost care. On receipt of material at site, it shall be carefully examined to detect any damaged pieces. Arrangements shall be made for expeditious replacement of damaged pieces/ parts. Materials found to be acceptable on inspections shall be repacked in crates and stored safely.
- 9.9.2 In the case of composite windows and doors, the different units are to be assembled first. The assembled composite units should be checked for line, level and plumb before final fixing is done. Units may be serial numbered and identified as out how to be assembled in their final locations if situation so warrants.
- 9.9.3 The contractor shall be responsible for assembling composite, bedding and filling the grove with polysulphide sealant inside and outside, at transoms and mullions placing the doors, windows etc. in their respective openings. After the doors/ windows have been fixed in their correct assigned position, the open hollow sections abutting masonry concrete shall be fitted with approved polysulphide sealant densely packed and finished neat.
- 9.9.4 The contractor shall be responsible for doors, windows, etc. being set straight, plumb, level and for their satisfactory operation after fixing is complete.

9.10 Installation:

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

9.10.2 The door/ windows assembled as shown on drawings shall be placed in correct final position on the opening and marks made on concrete members at jambs, sills and heads against the holes provided in frames for anchoring. The frame shall then be removed from the opening and laid aside. Neat holes with parallel sides of appropriate size shall then be drilled in the concrete members with an electric drill at the marking to house the expansion bolts. The expansion bolts shall then be inserted in the holes, struck with a light hammer till the nut is forced into the anchor shell. The frame shall then be placed in final position in the opening and anchored to the support through cadmium plated machine screws of required size and anchored to the support through cadmium plated machine screws of required size threaded to expansion bolts. The frame shall be set in the opening by using wooden wedges at supports and be plumbed in position. The wedges shall invariably be placed at the meeting at points of glazing bars and frame.

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

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

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

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

9.15 Details of Test :

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

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

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

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

9.16 Rates: -

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

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

10.0 SANITARY INSTALLATIONS /WATER SUPPLY / DRAINAGE:-

10.1 The contractor shall submit schematic drawing of water supply and sanitary installation showing details of layout, including internal water supply and drainage details, showing the detail of water supply lines including fittings diameter wise and fixtures connecting to soil waste through traps and connection of W.C. to main shaft pipe for drainage including its ventilation system for approval of Engineer-in-Charge.

10.2 For the work of water supply and sanitary installations, the contractor shall engage the approved licensed plumbers and submit the name of proposed plumbing agencies with their credentials for approval of the Engineer-in-Charge.

10.3 The work in general shall be carried out as per CPWD Specifications.

- 10.4 The tendered rates shall include the cost of cutting holes in walls, floors, RCC slabs etc. wherever required and making good the same for which nothing extra shall be paid.
- 10.5 The Centrifugally spun cast iron pipe IS: 3989-1984 wherever necessary shall be fixed to RCC columns, beams etc. with rawl plugs of approved quality and nothing extra shall be paid for on this account.
- 10.6 The pig lead to be used in the jointing should be as per CPWD specifications.
- 10.6.1 Nothing extra for providing and fixing CP brass caps/ extension pieces wherever required for CP brass fittings shall be paid beyond the rates payable for corresponding CP brass fittings.
- 11.0 **SPECIFICATIONS FOR SOLID POLY VINYL CHLORIDE (PVC) DOOR SHUTTERS: -**
- 11.1.0 **SCOPE:**
- 11.1.1 This specification lays down requirement regarding types, sizes, material, construction, workmanship, finish, performance evaluation, sampling and testing of solid Poly Vinyl Chloride (PVC) Panelled door shutters for use in residential buildings, non-residential buildings such as offices, schools, hospitals, etc.
- 11.1.2 This specification does not cover large size door shutters for industrial and special buildings such as workshops, garages, godowns etc.
- 11.1.3 PVC door shutters shall be used in internal locations only.
- 11.2.0 **REFERENCES:**
- 11.2.1 The Indian Standards and other Standards listed in Annexure-I are necessary adjuncts to this standard. The products bearing BIS certification i.e. ISI Mark with code number shall have precedence over those not bearing ISI Mark.
- 11.3.0 **TERMINOLOGY:**
- 11.3.1 For the purpose of this specification, the definitions given below in addition to those given in IS 707-1976 shall apply:
- 11.3.1.1
- (i) Blistering: Air or solvent entrapped during moulding.
 - (ii) Colour blots: Colour blots occurring on account of uneven distribution of pigment.
 - (iii) Crazing: Fine hair cracks on the surface.
 - (iv) Defective Impregnation: Imperfect impregnation of PVC resin with other additives.
 - (v) Colour Fading: Fading of colour on exposure to sunlight.
 - (vi) Impurities: Presence of matter other than those specified.
 - (vii) Pin holes: Pores of size less than 1mm appearing on the surface.
 - (viii) Small Pores: Pores of size more than 1mm but less than 2mm appearing on the surface.
 - (ix) Wrinkling: A slight ridge or furrow on surface.
 - (x) Aggregate Defects: Presence of defects such as pin holes, impurities and traces of mending 5 or more in aggregate for defects at localized place.
- 11.4.0 **HANDLING:**
- 11.4.1 Handling and direction of closing of shutters shall be designated in accordance with IS: 4043:1969.
- 11.5.0 **MATERIAL:**
- 11.5.1 Poly Vinyl Chloride Resin (suspension grade) is the basic raw material of PVC compound. PVC resin in mixed with chemicals like calcium searate, hydrocarbon Wax, Titanium dioxide, calcium carbonate Acrylic base etc. Further additives like UV stabilizers, impact modifiers, pigments, epoxy plasticizer, lubricants, acrylic processing aid etc. are also added. The purpose of adding the chemicals and additives is to impart strength, surface finish, colour and resistance to fading by light rays. These chemicals are mixed in the desired proportion and shall be used in the formulation of PVC material and for free and smooth extrusion of PVC cellular sheets.
- 11.6.0 **PROCESS:**
- 11.6.1 MIXING: The PVC material so formulated with the addition of chemicals, fillers & additives shall be mixed dry powder form in a high speed hot mixer at a temperature of 110⁰ C to 125⁰ C. The heated dry blend is then to be cooled at room temperature. However, the temperature has to be determined keeping in view the climatic conditions and the process requirements.
- 11.6.2 EXTRUSION: The cooled dry blend is off loaded into the hopper of the extruder, and then is fed to the screw & barrel of the extruder, where it is melted and kneaded at varying temperatures upto 205⁰

- C by rotating screws. The thick paste of PVC material is then passed through a hot die to make the sheet of required thickness.
- 11.6.3 **POLISHING:** The basic shape of the sheet so acquired is then polished with the help of a three-roll calendar. At the same time the sheet is cooled by circulating water in the rolls of the calendar and there after on a roller table by atmospheric air.
- 11.6.4 **CUTTING:** The final finished product coming out of the haul-off is cut as per the required size.
- 12.0 **PAVER BLOCKS:** The paver blocks shall confirm to IS: 15658: 2006 Testing and sampling shall be conducted to satisfy the code. The contractor shall submit the test certificate of paver blocks along with the supply of paver blocks.

LIST OF FIELD TESTS

- i) Particle size and shape
- ii) Slump test
- iii) Flakiness & Elongation Index tests
- iv) Bulking of sand
- v) Silt content of sand

FIELD TESTING EQUIPMENT AND INSTRUMENTS

A. Testing Equipment at Field Laboratories

- i) Balances
 - a) 7kg to 10 kg. Capacity, Semi-self indicating type-Accuracy 10 gm
 - b) 500 gm. Capacity, Semi-self indicating type Accuracy 1 gm
 - c) Pan Balance – 5 Kg. Capacity, accuracy 10 gm.
- ii) Sieves: as per IS 460-1962.
 - a) I.S. Sieves – 450 mm internal dia of sizes 100 mm, 80 mm, 63 mm, 50mm, 40 mm, 25 mm, 20 mm, 12.5 mm, 10 mm, 6.3 mm, 4.75 mm complete with lid and pan.
 - b) IS Sieves – 200 mm internal dia(brass frame) consisting of 2.36 mm, 1.18 mm, 600 microns, 425 microns, 300 microns, 212 microns, 150 microns, 90 microns, 75 microns with lid and pan.
- iii) Sieve shaker capable of 200 mm and 300 mm dia sieves, manually operated with timing switch assembly.
- iv) Equipment for slump test – Slump Cone, Steel Plate, tamping rod, steel scale, scoop.
- v) Graduated measuring cylinders 200 ml capacity
- vi) ISI marked 150 X 150 X 150 mm concrete cube moulds as per site requirement.
- vii) Graduated cylinder 1000 ml. Capacity.

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

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

OR**

- Whereas the Executive Engineer (name of division) , CPWD on behalf of the President of India (hereinafter called "The Government") has entered into an agreement bearing number..... with (name and address of the contractor) (hereinafter called "the Contractor") for execution of work (name of work) The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. (Rupees..... only) valid upto..... (date) as **Performance Guarantee/Additional 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) (hereinafter referred to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs. (Rupees only) on demand by the Government within 10 days of the demand.
 3. We, (indicate the name of the Bank), do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said Contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (Rupeesonly)
 4. We, (indicate the name of the Bank), further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any Court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the Contractor shall have no claim against us for making such payment.
 5. We, (indicate the name of the Bank), further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said Contractor or for any

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

Date

Witnesses:

- | | | |
|----|------------------|----------------------|
| 1. | Signature..... | Authorized signatory |
| | Name and address | Name |
| | | Designation |
| | | Staff Code No. |
| | | Bank Seal |
| | | Signature..... |
| | Name and address | |

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

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

PROFORMA FOR TESTS CARRIED OUT

NAME OF THE WORK :-.....

DIVISION:-

.....

SUB-DIVISION:-.....

.....

.....

.....

AGREEMENT NO. & DATE :.....

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

Signature of Contractor

CEMENT/PAINT REGISTER

NAME OF WORK:
AGREEMENT NO.

DIVISION
SUB-DIVISION

Particulars of Receipt

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

Particulars of Issue

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

LIST OF PREFERRED MAKES FOR CIVIL WORK

Name of Work: Annual Repair & Maintenance of Income Tax Colony at Sector-20, Panchkula (Haryana) during 2026-27.

Sr.No.	Name of Product/ Material	Preferred Brand Names
1	ORDINARY PORTLAND CEMENT (GREY)(43 GRADE)	ACC, ULTRATECH, AMBUJA, JAYPEE CEMENT, J.K.CEMENT.
2	PORTLAND POZZOLONA CEMENT (GREY)	ACC, ULTRATECH, AMBUJA, JAYPEE CEMENT, J.K. CEMENT.
3	WHITE CEMENT	ACC, J.K. WHITE, ULTRATECH CEMENT LIMITED.
4	ADMIXTURES	FOSROC, DR. FIXIT, SIKA
5	WATER PROOFING COMPOUND	FOSROC, ASIAN PAINTS, PIDLITE, SIKA.
6	BLOCK BOARD	MERINO, NATIONAL, ARCHIDPLY, CENTURY.
7	LAMINATES	MERINO, ARCHIDPLY, CENTURY LAMINATES
8	PRE-LAMINATED PARTICLE BOARD	ARCHIDPLY, CENTURY PLY BOARDS, ECOBOARD
9	PARTICLE BOARD (MEDIUM DENSITY)/ VENEERED PARTICLE BOARD	CENTURY PLYBOARDS (INDIAN) LTD., EVERGREEN BOARDLAM, ECOBOARD INDUSTRIES LTD.
10	PRE-LAMINATED MEDIUM DENSITY FIBRE BOARD	CENTURY PLYBOARDS, GREEN PLY
11	STAINLESS STEEL DOOR/ WINDOW HARDWARE FITTINGS (FIRE RATED AND NON-FIRE RATED)	DORMA, GEZE, KICH, GODREJ, HAFELE
12	ANODISED/ ZINC ALLOY/ ALUMINIUM HARDWARE DOOR/ WINDOW FITTINGS	PULSE, SAVIO, HOPPE, ALUTECH
13	UPVC WINDOWS/ DOORS	VEKA, FENESTA, ALUPLAST
14	UPVC WINDOW/ DOOR HARDWARE FITTINGS (ZINC ALLOY)	PULSE, HOPPE, ROTO
15	STRUCTURAL STEEL SUCH AS MS FLATS, SQ.BARS ANGLES ETC.	SAIL, TATA STEEL, RINL, JINDAL STEEL & POWERLTD. AND JSW STEEL LTD.
16	HOLLOW STEEL SECTIONS	JINDAL INDUSTRIES HISAR, TATA STEEL, STEEL & METAL TUBES (INDIA) PVT. LTD., MADHAV ALLOYS (JYOTI).
17	STEEL TUBES FOR STRUCTURAL STEEL/ERW PIPES & TUBES	JINDAL INDUSTRIES HISAR, TATA STEEL, STEEL& METAL TUBES (INDIA) PVT. LTD., MADHAV ALLOYS (JYOTI).
18	DASH/ ANCHORING FASTENERS,	HILTI, FISCHER, BOSCH
19	BOLTS, SCREWS AND NUTS	CKW, ATUL, PRIYA
20	STAINLESS STEEL RAILING	DORMA, GODREJ, KICH
21	CERAMIC TILES	SOMANY, KAJARIA, ORIENT BELL, RAK.
22	VITRIFIED TILES	KAJARIA, RAK, NITCO, ORIENT BELL, SOMANY

23	FULL BODY VITRIFIED TILES	KAJARIA, RAK, NITCO, SOMANY
24	ADHESIVE/ GROUTING FOR USE WITH TILES	FERROUS CRETE, MYK LATICRETE, ARDEX EDURA, SIKA
25	FALSE CEILING- GYPSUM/GRG	SAINT GOBAIN, USG BORAL, GYPTECH
26	FALSE CEILING- METAL	ARMSTRONG, SAINT GOBAIN, HUNTER DOUGLAS, GYPTECH
27	FALSE CEILING- CALCIUM SILICATE	AEROLITE, ARMSTRONG, PROMAT
28	FALSE CEILING-MINERAL FIBRE	ARMSTRONG, DEIKEN, SAINT GOBAIN.
29	FALSE CEILING-ALUMINIUM POWDER COATED	ARMSTRONG, DEXUNE, SAINT GOBAIN, HUNTER DOUGLAS
30	LIGHT WEIGHT GYPSUM PLASTER	SAINT GOBAIN, ULTRATECH, FERROUS CRETE, USG BORAL.
31	ALUMINIUM COMPOSITE PANEL	ALSTONE, REYNOBOND
32	SILICON ADHESIVE	ALSTONE, ALLSTAR, MOMENTIVE.
33	OIL BOUND DISTEMPER/ ACRYLIC DISTEMPER	NEROLAC ACRYLIC DISTEMPER, TRACTOR ACRYLIC DISTEMPER (ASIAN PAINTS) , MAXILITE ACRYLIC DISTEMPER (ICI),
34	INTERIOR EMULSION/ PLASTIC EMULSION	DULUX ACRYLIC EMULSION/ SOLITAIRE A-1000(ICI), APCOLITE PREMIUM EMULSION (ASIAN), BEAUTY GOLD (NEROLAC),
35	ACRYLIC SMOOTH EXTERIOR PAINT	APEX ULTIMA (ASIAN), DULUX WEATHERSHEILD MAX (ICI), EXCEL (NEROLAC),
36	TEXTURED EXTERIOR PAINT	NEROLAC, ASIAN PAINTS, ICI
37	SYNTHETIC ENAMEL PAINTS	DULUX HI-GLOSS (ICI), APCOLITE PREMIUM GLOSS (ASIAN), NEROLAC HIGH GLOSS (NEROLAC)
38	WOOD PRIMER	NEROLAC, ASIAN PAINTS, ICI
39	STEEL PRIMER	NEROLAC, ASIAN PAINTS, ICI
40	EXTERIOR WALL PRIMER	EXTERIOR NEROLAC PRIMER, EXTERIOR ASIAN PAINTS PRIMER, EXTERIOR ICI PRIMER
41	WALL PUTTY (WHITE CEMENT BASED)	BIRLA WALL CARE, JK WHITE,
42	POLYMER MODIFIED SELF CURING COMPOUND	MYK LATICRETE, FERROUS CRETE, ARDEX,ENDURA, ULTRATECH
43	PAVER/ GRASS PAVER BLOCKS & KERB STONES	NATIONAL TILES CORPORATION, SHAM TILES & CONCRETE PRODUCTS, DALAL TILES, A-1 TILES.
44	MIRROR GLASS	ATUL,MODIGUARD,GOLDEN FISH, SAINT GOBAIN
45	PTMT FITTINGS AND ACCESSORIES	POLYPLAST, D-PLAST, PRAYAG.
46	CP FITTINGS & ACCESSORIES	JAQUAR, KOHLER, GROHE, HINDWARE
47	CP BRASS HEALTH FAUCET 15 MM N.B.	JAQUAR, KOHLER, GROHE, HINDWARE
48	CP BRASS AUTO CLOSING PILLAR COCK 15 mm	JAQUAR, KOHLER, GROHE, HINDWARE
49	CP BRASS SINK MIXER 15 MM	JAQUAR, KOHLER, GROHE, HINDWARE
50	CP BRASS TOWEL RAIL 600MM LONG	JAQUAR, KOHLER, GROHE, HINDWARE
51	CP BRASS TOWEL RING	JAQUAR, KOHLER, GROHE, HINDWARE
52	CP BRASS SHOWER WITH SHOWER ARM 450MM	JAQUAR, KOHLER, GROHE, HINDWARE
53	LIQUID SOAP DISPENSER WITH CP BRASS HOLDER AND GLASS BOTTLE OF 300ML CAPACITY	JAQUAR, KOHLER, GROHE, HINDWARE

54	CP BRASS WALL MIXER 15 MM	JAQUAR, KOHLER, GROHE, HINDWARE
55	CP BRASS BIB COCK 15mm NB	JAQUAR, KOHLER, GROHE, HINDWARE
56	CP BRASS LONG NOSE BIB COCK 15MM NB	JAQUAR, KOHLER, GROHE, HINDWARE
57	CP BRASS LONG BODY BIB COCK 15MM NB	JAQUAR, KOHLER, GROHE, HINDWARE
58	CP BRASS ANGLE VALVE 15MM NB	JAQUAR, KOHLER, GROHE, HINDWARE
59	BRASS STOP & BIB COCK	DHAWAN SANITARY UDYOG, JAINKO, SHAKTI, VARDHMAN INDIA PRODUCTS
60	BALL COCK WITH ROD	RESP FAUCET INDUSTRIES, DHAWAN SANITARY UDYOG, NEW METAL WORKS, PRAYAG.
61	GI PIPE	JINDAL (HISSAR), TATA, PRAKASH SURYA
62	GI FITTINGS	UNIK, AVR, ZOLOTO, SANT, NVR

Note:-

1. Engineer-In-Charge has the right to add or delete any of the brands/materials in the preferred makes list.
2. Any material bearing ISI mark can be used in the work with the prior approval of the Engineer-In-Charge.

**Executive Engineer,
Chandigarh-II, CPWD,
Sector-7B, Chandigarh
(For and on behalf of President of India)**

Schedule of Quantity

Name of Work:- Annual Repair & Maintenance of Income Tax Colony at Sector-20, Panchkula (Haryana) during 2026-27. (SH: Labour for Day to Day Maintenance.)

Sr. No.	DSR-2023 Code / NS	Description of Item	Qty	Unit	Rate (In Rs.)	Amount (In Rs.)
1	NS-1	Providing services of Mason to carry out day to day maintenance and repair of internal and external plaster, flooring, masonry work, pointing, leakage from roof, gola, R.C.C. works including sealing leakage from gully trap, WC trap, floor trap etc. and restoration of existing finishing in the affected area excluding all materials required to the satisfaction and as per the directions of Engineer-in-Charge. (The rate shall be for the execution of above job and no claim on any account shall be entertained).	6.00	per month	26276.00	157656.00
2	NS-2	Providing services of Carpenter to carry out day to day maintenance of damaged doors, windows, ventilators of steel, wood, PVC/FRP including replacement of broken glass panes, wire mesh and panel etc. and re-fixing of repaired doors, windows and ventilators of wood, steel, PVC/FRP etc. at all floors and fixing of necessary fittings wherever required to keep them in proper functional condition excluding all materials to the satisfaction and as per the directions of Engineer-in-Charge. (The rate shall be for the execution of above job and no claim on any account shall be entertained).	6.00	per month	26276.00	157656.00

3	NS-3	Providing services of Plumber to carry out day to day maintenance and repair of plumbing system for entire campus including stopping leakages or over flows of water from PVC/RCC overhead tanks and water cisterns and replacement of the bib cock, stop cock, pillar cock, fittings, ball cocks, PVC cistern & connection etc. including replacement of G.I. pipe in the fittings and other required G.I./C.I. fittings of toilet/bath/kitchen and water supply line to keep the entire water supply system efficient and functional excluding all materials to the satisfaction and as per the directions of Engineer-in-Charge. (The rate shall be for the execution of above job and no claim on any account shall be entertained).	6.00	per month	26276.00	157656.00
4	NS-4	Providing services of Sewerman to carry out day to day maintenance of sewerage, drainage system and desialting of gully traps etc. within the campus like opening/cleaning of chocked sewer pipes, drains, manholes, gully traps, water closet, wash basin, floor traps etc. at all floor and vertical stacks for sewerage pipes and rain water pipes of all sizes to keep sewerage & drainage system functional including disposal of silt, malba waste garbage etc. excluding all materials to the satisfaction and as per the directions of Engineer-in-Charge. (The rate shall be for the execution of above job and no claim on any account shall be entertained).	6.00	per month	23315.00	139890.00
5	NS-5	Providing services of unskilled labour to assist skilled labour i.e. carpenter/mason/plumber in the entire premises of building for attending day to day complaints at Income Tax Colony, at Sector-20, Panchkula all excluding materials to entire the satisfaction and as per direction of the Engineer-in-Charge. (The rate shall be for the execution of above job and no claim on any account shall be entertained).	12.00	per month	23315.00	279780.00
					Total	892638.00

Schedule of Quantity

Name of Work:- Annual Repair & Maintenance of Income Tax Colony at Sector-20, Panchkula, Haryana during 2026-27. (SH:- Distempering, Exterior Painting, Synthetic Enamel Painting, Cleaning of PVC terrace tanks etc.)

Sr. No.	DSR-2023 Code	Description of Item	Qty	Unit	Rate (in Rs.)	Amount (in Rs.)
1	13.41	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour :				
1.1	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	300.00	sqm	185.65	55695.00
2	Based on DSR 2023	Providing and applying white cement based putty @6kg/10 sqm, of approved brand and manufacture, over the plastered wall surface to prepare the surface even the smooth complete.	300.00	sqm	65.35	19605.00
3	13.81	Distempering with 1st quality acrylic distemper (ready mixed) having VOC (Volatile Organic Compound) content less than 50 gram/ litre, of approved brand and manufacturer including applying additional coats wherever required to achieve even shade and colour				
3.1	13.81.1	old work (one or more coats)	2500.00	sqm	62.70	156750.00
4	13.91	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.	180.00	sqm	25.15	4527.00
5	13.99	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
5.1	13.99.1	One or more coats on old work	400.00	sqm	102.80	41120.00
6	13.112	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade				
6.1	13.112.1	Old work (Two or more coats applied @ 1.43 ltr/ 10 sqm) over existing cement paint surface	700.00	sqm	131.30	91910.00

7	14.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
7.1	14.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	120.00	sqm	547.40	65688.00
8	14.75A	Cleaning of terrace/loft water storage tank (inside surface area) upto 2000 litre capacity at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre) (if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)	161000.00	litre	0.50	80500.00
9	14.76	Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.	30.00	each	108.30	3249.00
10	14.77	Cleaning of chocked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150 mm dia upto 300 mm	100.00	meter	340.75	34075.00

11	14.78	Cleaning of underground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:-				
		(i) Tank shall be emptied of water by pumping & bottom shall be cleaned of silt and other deposits.				
		(ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water.				
		(iii) Chlorination of RCC internal surface by liquid chlorine.				
		(iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface.				
		(v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge.	300.00	sqm	84.85	25455.00
12	15.60	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	12.00	cum	263.95	3167.00
					Total	581741.00
		Total amount after using correction factor on DSR 2023 on account GST @ 0.973 (As per OM No. 158/SE(TAS)/GST/2024/02-E dated 08.08.2024)				566034.00
		{Cost Index @ 0.00% (107-107/107X100) on PAR-2023 (C.I approved for Panchkula w.e.f. 01.10.2022 by SDG(Chd))}				0.00
					Total	566034.00

ABSTRACT OF COST

Name of Work : Annual Repair & Maintenance of Income Tax Colony at Sector-20, Panchkula, Haryana during 2026-27. (SH: Supply of Materials).

Sr. No.	DSR-2023 Code/MR	Description of Items	Qty	Unit	Rate (In Rs.)	Amount (In Rs.)
		Supplying & Stacking of following material as per CPWD Specification etc. complete as per the direction of the Engineer-in-Charge.				
1	0367	Portland Cement (OPC-43 Grade)	10.00	per bag	333.60	3336.00
2	0455	Stainless steel SS grade 304 , curtain rod 20 mm dia 1.20mm thick	15.00	metre	242.00	3630.00
3	0456	Stainless steel SS grade 304, brackets (curtain rod) 20 mm dia 1.20mm thick	20.00	each	64.70	1294.00
4	0696	Anodised Aluminium sliding door bolt 300x16 mm	10.00	each	207.05	2071.00
5	0700	Anodised Aluminium tower bolt (barrel type) 200x10 mm	10.00	each	51.75	518.00
6	0701	Anodised Aluminium tower bolt (barrel type) 150x10 mm	10.00	each	41.40	414.00
7	0703	Aluminium Handle 125 mm	10.00	each	43.35	434.00
8	0863	Putty for wood work	20.00	kg	41.40	828.00
9	0982	Coarse sand (zone III)	5.00	cum	1876.30	9382.00
10	1313	8 mm dia C.P. Brass/ S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate for European type W.C.	15.00	each	284.70	4271.00
11	1392	Mirror of superior make glass 60x45 cm	10.00	each	582.30	5823.00
12	1689	Unplasticised P.V.C. connection pipe with brass union 45 cm long 15 mm bore	25.00	each	49.15	1229.00
13	1875	White plastic seat cover (solid) with lid C.P. brass hinges and rubber buffers	10.00	each	583.60	5836.00
14	1885	C.P. Pillar Cock -15 mm	20.00	each	384.30	7686.00
15	1952	C.P. brass waste 40 mm	15.00	each	142.35	2135.00
16	2407	Float glass panes of nominal thickness 5 mm (weight not less than 12.5kg/sqm)	10.00	sqm	684.50	6845.00
17	2456	Hydraulic door closer bottle type M.S. body with necessary accessories and screws complete	10.00	each	904.50	9045.00
18	7059	Aluminium hanging floor door stopper with twin rubber & stopper	10.00	each	56.95	570.00
19	7117	Semi Rigid PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	10.00	each	34.95	350.00
20	7257	C.P. Bib cock-15 mm (Short body)	30.00	each	427.00	12810.00

21	7259	C.P. Brass long body bibcock 15 mm	15.00	each	685.80	10287.00
22	7261	C.P. Brass angle valve 15 mm	20.00	each	489.10	9782.00
23	7358	Flushing Cistern P.V.C. 10 litre capacity (low level) (White) (with fittings, accessories and flush pipe)	10.00	each	803.55	8036.00
24	7411	125 mm grating with waste hole	10.00	each	34.95	350.00
25	7496	PTMT Ball Cock 20mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	40.00	each	155.30	6212.00
26	7863	15 mm nominal bore and 45 cm length PVC connection pipe with P.T.M.T. Nuts	10.00	each	71.20	712.00
27	8306	PPR Union 20mm	20.00	each	49.15	983.00
28	8308	PPR Union 32mm	20.00	each	129.40	2588.00
					Total	117457.00
		Total amount after using correction factor on DSR 2023 on account of GST @ 0.973 (As per OM No. 158/SE(TAS)/GST/2024/02-E dated 08.08.2024)			Total (A)	114286.00
29	MR	PVC Syphon washer for low level cistern	45.00	each	54.85	2468.00
30	MR	S S Grating 100 mm	20.00	each	49.35	987.00
31	MR	Brass spindle for Bib Cock/Stop Cock/Pillar Cock - 15 mm nominal bore	170.00	each	98.70	16779.00
32	MR	Phynel bottle 1 ltr	200.00	litre	27.40	5480.00
					Total (B)	25714.00
					Grand Total (A+B)	140000.00

Schedule of Quantity

Name of Work: Annual Repair & Maintenance of Income Tax Colony at Sector-20, Panchkula, Haryana during 2026-27. (SH: Special Repairs).

Sr. No	DSR-2023 Code	Description	Qty	Unit	Rate (in Rs.)	Amount (in Rs.)
1	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
1.1	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	1.00	cum	7878.50	7879.00
1.2	4.1.10	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	1.00	cum	6518.60	6519.00
2	8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to 1S: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	50.00	sqm	1267.95	63398.00
3	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
3.1	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	2.00	sqm	2392.65	4785.00
4	9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :				
4.1	9.96.2	250x16 mm	3.00	each	260.60	782.00

5	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
5.1	9.97.2	250x10 mm	3.00	each	115.15	345.00
6	9.100	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
6.1	9.100.1	125 mm	6.00	each	66.25	398.00
7	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				
7.1	9.101.2	Twin rubber stopper	3.00	each	72.35	217.00
8	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
8.1	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	150.00	kg	172.60	25890.00
9	11.41A	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.				
9.1	11.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size				

9.1.1	11.41A.3.1	Size of Tile 600 x 600 mm	40.00	sqm	1464.85	58594.00
10	13.4	12 mm cement plaster of mix :				
10.1	13.4.2	1:6 (1 cement: 6 coarse sand)	30.00	sqm	343.65	10310.00
11	14.82	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in-Charge.	6.00	each	134.10	805.00
12	15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
12.1	15.12.1	Of area 3 sq. metres and below	3.00	each	367.20	1102.00
13	15.13	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :				
13.1	15.13.1	Of area 3 sq. metres and below	3.00	each	143.50	431.00
14	15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
14.1	15.23.1	For thickness of tiles 10 mm to 25 mm	40.00	sqm	73.40	2936.00
15	15.56	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	80.00	sqm	54.65	4372.00
16	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
16.1	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	3.00	each	6767.40	20302.00

17	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
17.1	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	3.00	each	6515.55	19547.00
18	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
18.1	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	4.00	each	2648.85	10595.00
19	17.16A	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge	10.00	each	349.15	3492.00
20	17.18	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.				
20.1	17.18.1	10 litre capacity - White	5.00	each	1190.65	5953.00
21	17.20	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :				
21.1	17.20.1	White solid plastic seat with lid	10.00	each	684.85	6849.00
22	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
22.1	17.28.2	Flexible pipe				
22.1.1	17.28.2.1	32 mm dia	20.00	each	119.55	2391.00
23	17.60	Providing and fixing trap of self-cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :				
23.1	17.60.1	100 mm inlet and 100 mm outlet				
23.1.1	17.60.1.1	Sand cast iron S&S as per IS: 3989	3.00	each	1996.50	5990.00

24	18.10	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. Internal work - Exposed on wall				
24.1	18.10.2	20 mm dia nominal bore	30.00	meter	437.30	13119.00
25	18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
25.1	18.18.2	20 mm nominal bore	3.00	each	462.50	1388.00
26	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions				
26.1	18.21.2	45 cm length				
26.1.1	18.21.2.1	15 mm nominal bore	20.00	each	97.75	1955.00
27	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
27.1	18.49.1	15 mm nominal bore	20.00	each	506.80	10136.00
28	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
28.1	18.51.1	15 mm nominal bore	8.00	each	798.95	6392.00
29	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
29.1	18.53.1	15 mm nominal bore	6.00	each	574.30	3446.00
30	18.53A	Providing and fixing C.P. Brass extension nipple (size 15 mm x 50 mm) of approved make and quality as per direction of Engineer-in-charge.	20.00	each	74.80	1496.00

31	26.86	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/Clerestory windows & other Frames/Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non-toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm ² , modulus of elasticity 900 N/mm ² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. (M.S hold fast/lugs or SS dash fasteners shall be paid for separately).				
		Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.				
31.1	26.86.5	Frame size 65 x 100 mm	10.00	metre	1111.30	11113.00

32	26.87	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non-toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm ² , modulus of elasticity 850 N/mm ² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In-Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately)				
32.1	26.87.1	30 mm thick	4.00	sqm	4346.70	17387.00
					Total	330314.00
		Total amount after using correction factor on DSR-2023 on account GST @ 0.973 (As per OM No. 158/SE(TAS)/GST/2024/02-E dated 08.08.2024)				321396.00
		{Cost Index @ 0.00% (107-107/107X100) on PAR-2023 (C.I approved for Panchkula w.e.f. 01.10.2022 by SDG(Chd)}				0.00
					Total	321396.00
		Grand Total of ANNEXURE I + II + III + IV = Rs.				1920068.00

**Executive Engineer,
Chandigarh-II, CPWD,
Sector-7B, Chandigarh
(For and on behalf of President of India)**

Central Public Works Department					
N.I.T. No: 23/EE/CHD-II/2026-27					
Name of work: Annual Repair & Maintenance of Income Tax Colony at Sector-20, Panchkula (Haryana) during 2026-27.					
PROFORMA FOR QUOTING THE RATES					
Name of Contractor:					
Sr. No.	Name of component	Estimated cost (Rs.)	Percentage above/below the estimated cost	% in Figures	Total Cost (Rs.)
1	CIVIL WORK	Rs. 19,20,068/-			
	GRAND TOTAL				

Executive Engineer,
Chandigarh-II, CPWD,
Sector-7B, Chandigarh
(For and on behalf of President of India)