



PRASAR BHARATI  
INDIA'S PUBLIC SERVICE BROADCASTER  
CIVIL CONSTRUCTION WING: ALL INDIA RADIO



## APPROVED NIT

<b><u>Notice Inviting Tender (NIT) No.:</u></b>	<b><u>SE-KOL/NIT/04/2023-24</u></b>
<b><u>Name of work:</u></b>	<b><u>A/R &amp; M/O at SRFTI, Kolkata for the year 2024-2025 for phase -I &amp; II. Sub Head: Day to Day complete maintenance of office and residential Complex for a period of 12 months.</u></b>
<b><u>Estimated Cost:</u></b>	<b><u>Rs. 28,84,240.00</u></b>
<b><u>Earnest Money:</u></b>	<b><u>Rs.57,685.00 (To be returned after receipt of performance guarantee)</u></b>
<b><u>Performance Guarantee(PG):</u></b>	<b><u>5% of tendered value.</u></b>
<b><u>Security Deposit:</u></b>	<b><u>2.5% of tendered value</u></b>
<b><u>Time Allowed</u></b>	<b><u>12 (Twelve) months</u></b>
<b><u>Certified that this N I T contains 1 to 56 pages with correction slips, excluding cover pages..</u></b>	

Assistant Surveyor of Works(C)  
CCW, AIR, KOLKATA

Surveyor of Works(C)  
CCW, AIR, KOLKATA

**This NIT is approved for Rs. 28, 84,240.00 (Rupees Twenty Eight Lakh Eighty Four  
Thousand Two Hundred and Forty) only.**

Superintending Engineer(c)  
CCW AIR KOLKATA



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## INDEX

**Name of work:** A/R & M/O at SRFTI, Kolkata for the year 2024-2025 for phase -I & II.  
**Sub Head:** Day to Day complete maintenance of office and residential Complex for a period of 12 months.

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**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING  
FORMING PART OF BID DOCUMENT AND TO BE POSTED ON WEBSITE.**

The Executive Engineer (Civil), PB(BCI), Civil Construction Wing, All India Radio, Kolkata-700095 on behalf of the President of India, invites online item rate bids from approved and eligible contractors of CPWD and those of appropriate class of contractors enlisted in the department of Telecommunications (BSNL/MTNL), Department of Post, MES, Railways and State PWD of West Bengal up to **06.00 P.M. on 03.04.2024** for the following work:

**Name of work: -** A/R & M/O at SRFTI, Kolkata for the year 2024-2025 for phase -I & II.  
Sub Head: Day to Day complete maintenance of office and residential Complex for a period of 12 months

Sl. No	NIT No.	Name of work & Location	Estimated cost put to bid	Earnest Money	Period of completion	Last date & time of uploading/ submission of online bid along with other documents	Time & date of opening of bid	Last date & time for submission of Physical EMD and other documents (On or before) by lowest bidder
1	2	3	4	5	6	7	8	9
1	SE-KOL/NIT/04/2023-24	A/R & M/O at SRFTI, Kolkata for the year 2024-2025 for phase -I & II. Sub Head: Day to Day complete maintenance of office and residential Complex for a period of 12 months	Rs 28,84,240.00	Rs 57,685.00	12(Twelve) months	06.00 P.M. on 03.04.2024	11.00 A.M. on 04.04.2024	Seven Days from the date and time of opening

Bid form and other details can be obtained from website <https://prasarbharati.eproc.in>

**Special Conditions for contractors : -** Contractors as well as specialized agencies who have the definite proof from the appropriate authority of having successfully completed, **one similar work of value not less than Rs.23.10 lakh or two similar works each of value not less than Rs.17.35lakh or three similar works each of value not less than Rs11.60 lakh during the last seven years ending previous day of last date of submission of bids, should only participate in the bidding process.**

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the last date of receipt of applications for tender. (Modified vide OM DG/CON/264A dated 08.01.2013)

**\*To be filled in by EE(C) ,CCW ,AIR,Kolkata .**

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**TERMS & CONDITIONS:**

1. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
2. Information and Instructions for bidders posted on website shall form part of bid document.
3. The bid document consisting of specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <https://prasarbharati.eproc.in> free of cost
4. (i) But the bid can only be submitted after depositing the processing fee of **Rs.925.00 +18% GST paid to "C1 INDIA PVT. LTD.** through their e-gateway by credit / debit card , internet banking or RTGS / NEFT facility and uploading acknowledgement copy of e-tendering processing fee, Mandatory scanned documents such as Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque and Bank Guarantee of any Commercial Banks towards EMD in favour of Executive Engineer(C), CCW, AIR, Kolkata and other documents as specified at para no. 22, below , to the E-tendering portal.  
(ii) Detailed procedure can be seen in the CPWD -6 for e-tendering.
5. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.

**INSTRUCTIONS TO BIDDER – ONLINE MODE**

**DEFINITIONS:**

- **C1 India Pvt. Ltd.:** Service provider to provide the e-Tendering Software.
- **Prasar Bharati e-Procurement Portal:** An e-tendering portal of Prasar Bharati introduced for the process of e-tendering which can be accessed on <https://prasarbharati.eproc.in>.

**I. ACCESSING / PURCHASING OF BID DOCUMENTS :**

- It is mandatory for all the bidders to have Class-III Digital Signature Certificate (With Both DSC Components, i.e. Signing & Encryption) from any of the licensed Certifying Agency under CCA, Ministry of Electronics and Information Technology, Government of India to participate in e-tendering portal of Prasar Bharati. Bidders can see the list of licensed CA's from the link [www.cca.gov.in](http://www.cca.gov.in) C1 India Pvt. Ltd. also facilitate Class III Digital Signature Certificate (With Both DSC Components, i.e. Signing & Encryption) to the bidders. Bidder may contact C1 India Pvt. Ltd. at mobile no. +91-8130606629 for DSC related queries or can email at [vikas.kumar@c1india.com](mailto:vikas.kumar@c1india.com)
- To participate in the e-bid, it is mandatory for the Applicants to get themselves registered with the Prasar Bharati e-Tendering Portal (<https://prasarbharati.eproc.in>) to have a user ID & Password which has to be obtained by submitting a non-refundable annual registration charges of Rs. 450/- plus 18% GST through **online** mode (net banking/debit card/credit card). Validity of Registration is 1 year.
- The amendments / clarifications to the tender, if any, will be posted on the Prasar Bharati e-Tendering Portal (<https://prasarbharati.eproc.in>).



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- To participate in bidding, bidders have to pay Tender Processing Fee of Rs.. (PLEASE MENTION) plus 18% GST (Non-refundable) per Tender per Bid through online mode (net banking/debit card/credit card).

Estimated Value of the Tender	Processing Fees per Tender per Bidder
Less than or Equal to Rs. 10 Lakhs	Rs. 475.00 + 18 % GST
More than 10 Lakhs but Less than or equals to 50 Lakhs	Rs. 925.00 + 18 % GST
More than 50 Lakhs	Rs. 1150.00 + 18% GST
Annual Charges for Online Bidder/ Vendor for the Registration	Rs. 450.00 + 18% GST

- If in case, for any particular Tender, Estimated Cost is unknown to Prasar Bharati, the Processing Fee would Rs. 1150.00 + 18% GST
  - The Bidder may modify or withdraw their bid after submission prior to the Bid Due Date. No Bid shall be modified or withdrawn by the Bidder after the Bid Due Date and Time.
  - Both 'EMD' and 'Tender Document Fee', if any, are mentioned in individual tender document published at Prasar Bharati e-Tendering Portal (<https://prasarbharati.eproc.in>).
  - For helpdesk, please contact e-Tendering Cell and Help Desk Support Monday to Friday. Ph: **0124-4302033/36/37, prasarbharatisupport@c1india.com.**
  - It is highly recommended that the bidders should not wait till the last date of bid submission to avoid complications like internet connectivity issue, network problems, system crash down, power failure, browser compatibility issue, system compatibility issue, improper digital signature certificate problem etc. In view of this context, neither Prasar Bharati nor C1India Pvt. Ltd will be responsible for such eventualities.
- 6. The intending bidder must have valid Class-III digital signature to submit the bid.**
  - 7. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.'**
  - 8. Contractor can upload documents in the form of JPG format and PDF format.**
  - 9. The bidder must associate himself, with agencies of the appropriate class eligible to bid to reach of the minor component individually. The eligible bidders shall quote rates for all items of major component as well as for all items of minor component of work.**
  - 10. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in yellow colour and the moment rate is entered, it turns sky blue. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).**
  - 11. SC/ST contractor enlisted under Class V category are exempted from processing fee payable to ITI. \*To be filled in by EE(C) ,CCW ,AIR, Kolkata**

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12. The enlistment of contractors should be valid on the last date of submission of bids.
13. In case the last date of submission of tender is extended, the enlistment of contractor should be valid on the original date of submission of bids.
14. The bidder shall be required to produce original documents for verification on demand by Executive Engineer(C), CCW, AIR, Kolkata.
15. The bidder should possess certificate of Registration for GST. It is mandatory to upload scanned copies of all the documents including GST Registration. If these documents are not uploaded, his bid will become invalid and processing fee shall not be refunded.
16. It will be obligatory on the part of the tenderer to tender for composite work and to sign the tender documents for all the component parts. The Department reserves the right to accept tender in full or in part.
17. In case, the work is required to be carried out in non operational period in departmental OFFICE or STUDIOS in a phased manner after taking permission with station authorities. The work may have to be carried out during night time and weekends. Rates shall be quoted accordingly and nothing extra shall be payable on this account.
18. The rates to be quoted by the bidder shall be firm and inclusive of all taxes including **GST of 18%.**
19. The bidder shall ensure that benefit of Input Tax Credit (ITC) of GST on materials likely to be availed by them is duly considered while quoting rates.
20. Income Tax, TDS towards GST, Labour Cess & other statutory deductions etc., shall be made at source as per the prevalent laws
21. The mandatory documents shall be opened first on due date and time as mentioned and subsequently financial bid of only those contractors shall be opened who upload all the required mandatory documents and these documents are found in order as per the criteria specified in Notice Inviting Tender.
22. List of Documents to be scanned from originals and uploaded within the period of bid submission:
  - a. Insurance Surety Bonds / Account Payee Demand Draft / Fixed Deposit Receipt or Banker's Cheque/ Bank Guarantee of any Commercial Banks against EMD. (drawn in favour of Prasar Bharati, Executive Engineer (C),CCW, AIR, Kolkata)
  - b. Enlistment Order of the Contractor. (Should be valid on the last date of submission of bids)
  - c. Certificates of work experience issued by competent authority (not below the rank of Executive Engineer) in respect of similar works
  - d. EPF & ESI Registration Certificate.
  - e. Affidavits as per clause 9 of CPWD-6 on non-judicial stamp paper of Rs. 100 duly attested by notary/oath commissioner.
  - f. Up-to-date Paid GST returns receipts/Challan of previous month or quarter.
  - g. Partnership deed and power of attorney (where applicable).

**Executive Engineer (Civil)**  
**CCW AIR Kolkata**

\*To be filled in by EE(C) ,CCW ,AIR, Kolkata

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**CPWD 6**

**CCW, PB**

## **NOTICE INVITING TENDER**

1. **Item rate** tenders are invited on behalf of President of India from approved and eligible contractors of CPWD and those of appropriate class of contractors enlisted in the Department of BSNL/ MTNL, Department of Post, M.E.S, Railways and State PWD of West Bengal for the work of :-

**Name of work** A/R & M/O at SRFTI, Kolkata for the year 2024-2025 for phase -I & II.  
**Sub Head:** Day to Day complete maintenance of office and residential Complex for a period of 12 months.

The enlistment of the contractors should be valid on the last date of submission of bids. In case the last date of submission of bids 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.28,84,240.00**. This estimate, however, is given merely as a rough guide.

1.2 Contractors who produce definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below, should only participate in the bidding process:

### **Criteria of eligibility for participation in bidding process**

- 1.2.1 **One similar work of value not less than Rs.23.10 lakh or two similar works each of value not less than Rs.17.35 lakh or three similar works each of value not less than Rs.11.60 lakh during the last seven years ending previous day of last date of submission of bids .**

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the last date of receipt of applications for tender. (Modified vide **OM DG/CON/264A dated 08.01.2013**)

2. Agreement shall be drawn with the successful tenderer on prescribed Form No. **CPWD 7/ 8 as modified and corrected up to the last date of submission of bids** (or other Standard Form as mentioned ) which is available as a Govt. of India Publication and also available on. Website <https://prasarbharati.eproc.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(Twelve) months** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.
4. (i) The site for the work is available.  
(ii) The architectural and structural drawing for the work is available.
5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen from website <https://prasarbharati.eproc.in> free of cost.

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6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
8. (i) Earnest Money 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 **Prasar Bharati, Executive Engineer(C),CCW, AIR, Kolkata**) shall be scanned and uploaded to the e-tendering website within the period of bid submission. A part of earnest money is acceptable in the form of Bank Guarantee also. In such cases 50% of earnest money or Rs. 20 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
- (ii) Interested contractor who wish to participate in the bid has also to make following payments within the period of bid submission:
  - a) E-Tender Processing Fee – **Rs.925.00 +18%GST paid to "C1 INDIA PVT. LTD."** through their e-gateway by credit / debit card, internet banking or RGTS/NEFT facility.
  - b) Earnest Money **Rs. 57,685.00** in the form of insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt , Banker's Cheque or Bank Guarantee from any of the Commercial Banks (drawn in favour of PB(BCI), Executive Engineer(C),CCW,AIR, **Kolkata** ) and shall be scanned & uploaded to the e-tendering web site within the period of bid submission.
- (iii) Copy of Enlistment Order and certificate of work experience and other documents, as specified in the "**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING FORMING PART OF BID DOCUMENT**" posted in web notice shall be scanned from originals and uploaded to the e-Tendering website within the period of bid submission.
- (iv) The physical EMD of the scanned copy of EMD uploaded along with certified copies of all the scanned and uploaded documents shall be deposited by the lowest Bidder within a week after opening of financial bid, failing which the bid shall be rejected and enlistment of the agency shall be withdrawn by the enlisting authority / the agency shall be debarred from tendering in CCW, AIR
- (v) Online bid documents submitted by intending bidders shall be opened only of those bidders, who has deposited e-Tender processing fee with M/S ITI Limited and Earnest Money Deposit and other documents scanned and uploaded are found in order.
- (vi) **The bid submitted shall be opened at 11.00 A.M. on 04.04.2024**

**\*To be filled in by EE(C) ,CCW ,AIR, Kolkata**

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**9. To become eligible for participation in tender, the tenderer shall have to furnish an affidavit as under on non judicial stamp paper of Rs. 100/- duly notarized and further uploaded by the intending bidders**

Whereas, I/We -----(Name of agency\_)have submitted bids for

**"Name of work:-** A/R & M/O at SRFTI, Kolkata for the year 2024-2025 for phase -I & II. Sub Head: Day to Day complete maintenance of office and residential Complex for a period of 12 months" ( NIT No. **SE-KOL/NIT/04/2023-24**) and I/We hereby submit following declaration mentioned in (a), (b) and (c).

- (a) **"The physical EMD shall be deposited by me / us with the Executive Engineer(C), CCW, AIR Kolkata calling the bid, in case I / We become the lowest bidder within a week of the opening of the financial bid. Otherwise the department (CCW, AIR) may reject the Tender and also take action to debar me / us from Tendering in CCW, AIR for a period of three years and can write to the Competent Authority for cancellation of my/ our enlistment."**
- (b) **"The certified copy of all the scanned and uploaded documents specified in the press / e\_tender notice shall be deposited by me / us with the Executive Engineer(C),CCW,AIR Kolkata calling the tender, in case I / We become the lowest tenderer within a week of the opening of the financial bid otherwise department (CCW, AIR) may reject the Tender and take the action to debar me / us from tendering in CCW,AIR for a period of three years and can write to the Competent Authority for cancellation of my / our enlistment (original papers of the uploaded documents shall be shown for verification)".**
- (c) **"I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for tendering in CCW in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer- in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit / Performance Guarantee." (Scanned copy to be uploaded at the time of submission of bid.)**

**Signature and seal of contractor/ Agency**

- 10 The bid submitted shall become invalid and e-Tender processing fee shall not be refunded if:
- (i) The bidder is found ineligible.
- (ii) The bidder does not upload all the documents (including ~~service tax registration~~/GST registration) as stipulated in the bid documents.
- (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically in the office of bid opening authority
- (iv) The lowest bidder does not deposit physical EMD within a week of opening of bid.
- (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**

**\*To be filled in by EE(C) ,CCW ,AIR, Kolkata**

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11. The contractor, whose tender is accepted, will be required to furnish **performance guarantee of 5% (Five Percent) of the bid / tendered amount** within the period specified in Schedule F. This guarantee shall be in the form of insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks in accordance with the prescribed form **In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F'. Including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The Earnest Money deposited along with tender shall be returned after receiving the aforesaid performance guarantee. (Added vide OM DG/CON/273 dt. 01.10.2013)**

12 The description of the work is as follows:

**Name of work :- A/R & M/O at SRFTI, Kolkata for the year 2024-2025 for phase -I & II.  
Sub Head: Day to Day complete maintenance of office and residential  
Complex for a period of 12 months.**

Copies of other drawing and documents pertaining to the works be open for inspection by the tenderers at the office of above mentioned officer.

Intending Tenderers / Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender / bid.. A tenderer / 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 tenderer / 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 tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other tender / bid and reserves to itself the authority to reject any or all the tenders / bids received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer / bidder shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with tenderers / bidders is strictly prohibited and the tenders / bids submitted by the contractors who resort to canvassing will be liable to rejection.

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15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the tender / bid and the tenderer / bidder shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to bid for works in the AIR, CCW 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 Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Gazetted Officer in the All India Radio, Civil Construction Wing or in the Ministry of Information and Broadcasting. Any breach of this condition by the contractor would render him liable to be debarred from bidding in this department.
17. No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the 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.
18. The tender / bid for the works shall remain open for acceptance for a period of ~~thirty/ forty five/ sixty / ninety~~ **(30/45/60/90)** days from the date of opening of tenders / bids ~~/Ninety (90) days from the date of opening of technical bids in case tenders are invited on 2 envelope system/one hundred twenty (120) days from the date of opening of technical bids in case tenders are invited for specialized works on 3 envelope system (strike out as the case may be).~~
1. (i) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department within 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
  - (ii) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after 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 earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
  2. If the contractor fails to furnish the prescribed performance guarantee within the period, the earnest money is absolutely forfeited to the President automatically without any notice.
  3. In case of forfeiture of earnest money as prescribed in Para (1) and (2) above, the bidder shall not be allowed to participate in the re-tendering process of the work (Modified vide CPWD Works Manual 2022)

**\*To be filled in by EE(C) ,CCW ,AIR, Kolkata**

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19. In case any discrepancy is noticed between the documents as uploaded at the time of submission of the bid online and hard copies as submitted physically in the office of Executive Engineer, then the bid submitted shall become invalid and the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderer shall not be allowed to participate in the retendering process of the work.
20. Unconditional rebate if any has to be mentioned in bid document itself and any rebate letter received in separate envelope will be ignored.
21. This Notice Inviting Tender shall form a part of the contract document. The successful tenderer / bidder / contractor, on acceptance of his tender by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
- The Notice Inviting Tender, all the documents including additional conditions, specifications and drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance there of together with any correspondence leading thereto.
  - Standard C.P.W.D. Form 7 / 8 (**GCC for CPWD works 2020 Maintenance Works Amended upto the previous day of the last date of submission of the tender**).
  - In the notice inviting e-tender and other tender documents forming part of tender, standard CPWD forms as mentioned in the schedule and the word CPWD, unless the context otherwise, requires to be construed and read as AIR, CCW. The term Director General Works is to be read as CE, CCW, AIR..
22. The rates for all items of work, shall unless clearly specified otherwise include cost of all operations and all inputs of labour, material, T&P , scaffolding , wastage, watch and ward, other inputs , all incidental charges, all taxes (i/c GST on work contracts) , cess ,duties , levies etc. required for execution of the work. The department will not entertain any claim on account of GST or other taxes. In case department is forced to pay any of such taxes the department shall have the right to recover the same from of the bills of contractor or otherwise as deemed fit.
- Contractor shall submit to the department the GST compliant tax invoice along with running /final account bills.
- TDS under GST (as and when applicable) shall be deducted at prevailing rates on applicable value from the running bills

**GST shall mean Goods and Service Tax - Central, State and Inter State.**

**Executive Engineer (Civil)**  
**CCW, AIR, Kolkata.**

**To be filled in by EE(C) ,CCW ,AIR, Kolkata**

ASW(C)

SW(C)



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

**(Guarantee offered by Bank to AIR in connection with the execution of contracts) To be  
executed on non- Judicial stamp paper of minimum Rs. 100**

1. Whereas the Executive Engineer \_\_\_\_\_ (name of division) \_\_\_\_\_ AIR on behalf of the President of India (hereinafter called "The Government") has entered into an agreement bearing number \_\_\_\_\_ with \_\_\_\_\_ (name and address of the contractor). (hereinafter called "the Contractor,") for . execution of work..... (name of work)The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. .... (Rupees .... only) valid upto ..... (date).....as **Performance Guarantee / security Deposit/ Mobilization Advance** from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the Agreement.
2. We, ..... (indicate the name of the bank) \_\_\_\_\_ (herein after referred to as "the bank" ) hereby undertake to pay to the Government an amount not exceeding Rs,.....(Rupees " " only) on demand by the Government within 10 days of the demand.
3. We, ..... (indicate the name of the Bank ) ..... do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor. Any such demand made on the Bank shall, be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. .... (Rupees..... only)
4. We, ..... (indicate the name of the Bank) ..... , further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the contractor shall have no claim against us for making such payment.'
5. We, ..... (indicate the name of the Bank).....further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner. our obligation here under to vary any of the terms and conditions of the said agreement or. to extend time of performance by the said contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor and.to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said contractor or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. we, ...-..... (indicate the name of the Bank)..... further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the contractor and notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.
7. This guarantee will not be discharged due to the change in the constitution of the bank or 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 \_\_\_\_\_ ( Rs only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date.:

Witnesses:

1. Signature.....

Name and address

2. Signature

Name and address

Authorized signatory

Name

Designation

Staff code no.

ASW(C)

SW(C)



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**This N.I.T is approved for Rs.28,84,240.00 ( Rupees Twenty Eight lakh Eighty Four Thousand Two Hundred and Forty) only.**

**ASW(C) SW(C) Superintending Engineer(Civil) CCW, AIR, Kolkata.**

**CPWD-7/8**

STATE : WEST BENGAL CIRCLE : Kolkata  
BRANCH : AIR, CCW DIVISION : KOLKATA  
ZONE : EAST SUB-DIVISION : SRFTI

**ITEM RATE TENDER & CONTRACT FOR WORKS**

**Tender for the work of A/R & M/O at SRFTI, Kolkata for the year 2024-2025 for phase -I & II.**

**Sub Head: Day to Day complete maintenance of office and residential Complex for a period of 12 months**

i) Bids to be submitted online by **06.00 P.M on 03.04.2024**

(ii) To be opened in presence of bidders who may be present at **11.00 A.M.on 04.04.2024**

Issued to:	Bid Document made available online to the agency.
Signature of officer issuing the documents:	Online uploading authority
Designation :	<b>Executive Engineer (C), CCW,AIR, Kolkata .</b>
Date of issue:	As Per NIT

**TENDER**

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

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

We agree to keep the tender open for **Forty Five(45)** days from the due date of its opening and not to make any modification in its terms and conditions. (Modified vide OM DG/CON/266 dt. 02.05.2013)

**A sum of Rs.57,685.00 is hereby forwarded against Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt , Banker's Cheque or Bank Guarantee from any of the Commercial Banks (drawn in favour of PB(BCI), Executive Engineer(C),CCW,AIR, Kolkata ).** If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely.

**\*To be filled in by EE(C) ,CCW ,AIR, Kolkata**

ASW(C)

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

Further, I/We agree that in case of forfeiture of Earnest Money or Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work. (Modified vide **OM DG/CON/272 dt.21.08.2013.**)

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 CCW, AIR 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. (Modified vide **OM DG/CON/250 dt. 29.3.2010**)

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

Dated \_\_\_\_\_

Witness:

Signature of Contractor

Postal Address

Address & occupation:

**ACCEPTANCE**

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

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

- a)
- b)
- c)

**For & on behalf of the President of India**

**Signature** \_\_\_\_\_

**Designation:- Executive Engineer(c)**

**CCW, AIR, Kolkata**

**Date :** \_\_\_\_\_

**\*To be filled in by EE(C) ,CCW ,AIR, Kolkata)**

ASW(C)

SW(C)



## PROFORMA OF SCHEDULES

### SCHEDULE 'A'

Schedule of quantities (as per PWD-3): **Enclosed**

### SCHEDULE 'B'

Schedule of materials to be issued to the contractor.

S.No.	Description of item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of issue
1	2	3	4	5
		<b>NIL</b>		

### SCHEDULE 'C'

Tools and plants to be hired to the contractor

S.No.	Description	Hire charges per day	Place of Issue
1	2	3	4
		<b>NIL</b>	

### SCHEDULE 'D'

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

### SCHEDULE 'E'

Reference to General Conditions of contract.: **(GCC for CPWD works 2020 Maintenance Works Amended upto the previous day of the last date of submission of the tender).**

Name of Work: - **A/R & M/O at SRFTI, Kolkata for the year 2024-2025 for phase -I & II.**

**Sub Head: Day to Day complete maintenance of office and residential Complex for a period of 12 months.**

Estimated cost : **Rs.28,84,240.00**

(i) Earnest Money : **Rs. 57,685.00** **(to be returned after receiving performance guarantee)**

(ii) Performance Guarantee: **5% of tendered value**

(iii) Security Deposit : **2.5% of tendered value**

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**SCHEDULE 'F':**

**Officer inviting tender** : **EE(C), CCW, AIR, Kolkata**

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clause 12.2 & 12.3.

**SEE BELOW**

**DEFINITIONS**

2(v) Engineer-in-Charge : **EE(C), CCW, AIR, Kolkata**

2(viii) Accepting authority : **SE(C), CCW, AIR, Kolkata**

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

2(xi) Standard schedule of Rates : **CPWD Delhi Schedule of Rates 2018 with correction slips issued upto the previous day of the last date of submission of the tender).**

2(xii) Department : **All India Radio, Civil Construction Wing.**

9(ii) Standard CPWD contract form : **(GCC for CPWD works 2020 Maintenance Works Amended upto the previous day of the last date of submission of bid).**

**Clause 1 & 1(A)**

i) Time allowed for submission of performance guarantee, **programme chart (Time and Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof** from the date of issue of letter of Acceptance, in days : **8 Days**

ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above : **7 Days (on written request of contractor stating the reason for delays in procuring the PG to the satisfaction of Engineer-in-Charge).**

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**Clause 2**

Authority for fixing compensation under Clause 2 : **Superintending Engineer (C), CCW, AIR, KOLKATA**

**Clause 2A**

Whether Clause 2A shall be applicable : **No**

**Clause 5**

Number of days from the date of issue of letter of acceptance for reckoning date of start. : **15 Days**

**Mile stone(s) as per table given below:**

**Table of Mile Stone(s)**

Sl. No	Description of Milestone (Physical)	Time allowed in days (from date of start)	Amount to be withheld in case of non achievement of milestone
Nil			

Time allowed for execution of work : **12(Twelve) months**

**Authority to decide:-**

(i) Extension of time **SE(C), CCW, AIR, Kolkata**

(ii) Rescheduling of mile stone **SE(C), CCW, AIR, Kolkata**

(iii) Shifting of date of start in case of delay in handing over of site **SE(C), CCW, AIR, Kolkata**

**Clause 6, 6A** :

Clause applicable ( 6 or 6A) ; **Clause 6**

**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 : **Monthly basis**

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### Clause 7A

No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-in-Charge.

**YES**

Whether clause 7A shall be applicable

### Clause 10A

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

- : 1. Steel tapes – 3m ;, 2. Plumb bob ;,  
3. Micro meter screw 25mm gauge;  
4. Vernier Calipers 5. Sprit level ;  
6. Wire gauge ( Circular Type) disc,  
screw driver, Ball pin, Hammer.7.Balance  
8.Seive as per IS 460-1962 9.Oven 10.  
Dial Gauge 11.Equipment for slump test  
12.Seive shaker 13.Graduated measuring  
eylinder 14.Enamel Tray 15 Compression  
testing machine

### Clause 10 B (ii)

Whether clause 10B(ii) shall be applicable

**No**

### Clause 10C

Component of labour expressed as percent of value of work

**25%**

### Clause 10CA

: **Not applicable**

### Clause 10CC

: **Not Applicable**

### Clause 11

Specifications to be followed for execution of work

: **CPWD book of specification 2019 vol. I and II, with up to date correction slips Where specifications are silent relevant I.S. Codes shall be followed**

### Clause 12

Type of work

: **Maintenance work**

### Clause 12 (Vide DG, CPWD No. DG/SOP/16 dt 15.02.2021)

12.2 & 12.3 Deviation limit beyond which clause 12.2 & 12.3 shall apply for building work

: **No Limit**

12.5 (i) Deviation limit beyond which Clause 12.2 & 12.3 shall apply for foundation work (~~except earth work~~)

: **No Limit**

(ii) Deviation Limit for items in earth work subhead of DSR or related items

: **No Limit**

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### NOTE:



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1. Deviation upto 1.25 times to tender amount shall be approved by Superintending Engineer in charge with recorded reasons (In normal practice) vide CPWD OM. DG/CON/313 dated 17.02.21.
2. Deviation upto 1.50 times to tender amount shall be approved by Chief Engineer with recorded reasons (**In unavoidable circumstances**) vide CPWD OM. DG/CON/313 dated 17.02.21..
3. The cost index considered while arriving at estimated cost is **155 above DSR 2018**.
4. Payment of extra/substitute items are to be paid as per the relevant clause of GCC 2020 and in accordance with CPWD OM DG/SE/GST/16 dated 28.05.2018 and DG, CPWD OM. DG/CON/313 dated 17.02.21 and DG/CON/Maintenance 2023/03 dated-18.12.2023

**Clause 16**

Competent Authority for deciding reduced rates. : Upto 5% (five percent) of contract value by SE(C), CCW, AIR, **Kolkata**. Beyond that by CE, CCW, AIR, New Delhi.

**Clause 18**

List of mandatory machinery, tools & plants to be deployed by the contractor at site. : To be provided by contractor as per requirement at site

**Clause 25 (1)-OM No. DG/Man/233 dt. 15.2.2011 (Redressal committee for Kolkata Division)**

Claim Amount	Chairman	Members	Presenting officer
Above 25 lakhs	C. E(Civil), CCW, AIR, N,Delhi	S.E(TL) & SE(Trg.), CCW, AIR, N,Delhi.	S. E (C), CCW, AIR, kolkata
Upto 25 lakhs	S.E(TL)/(Trg.), CCW, AIR, N,Delhi.	Two Executive Engineer(Civil),CCW, AIR, Nominated by the department.	EE(C), CCW, AIR, <b>Kolkata</b>

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

Sl. No.	Minimum qualification of technical representative	Discipline	Designation (Principal Technical/Technical representative)	Minimum Experience (years)	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 36(i)	
						Figure	Words
1	Graduate Engineer	Civil	Technical Representative	One year	1	Rs.15,000 /_per month	Rupees fifteen thousand only per month.
2	Diploma Engineer	Civil	Technical Representative	Five year	1	Rs.15,000 /_per month	Rupees Fifteen thousand only per month.

**Note:** Assistant Engineers retired from Govt. Service that are holding diploma will be treated at par with Graduate Engineers. Diploma holder with minimum 10 year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.(Modified vide **OM DG/CON/272 dt. 21.08.2013**)

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**Clause :- 37 :-** Deduction of cess on account of “Building & other construction’s worker welfare cess –act – 1996” shall be made @ 1% of the gross payable amount of the Agreement.

**GST, building and other construction workers welfare cess or any other tax, levy or cess in respect of input for or output by this contract shall be payable by the contractor and Government shall not entertain any claim whatsoever in this respect except as provided under clause 38.**

**Clause 38:-i) All tendered rates shall be inclusive of any tax, levy or cess applicable on last stipulated date of receipt of tender including extension if any. No adjustment i.e increase or decrease shall be made for any variation in the rates of GST, building and other construction workers welfare cess or any tax, levy or cess applicable on inputs. However, effect of variation in rates of GST or building and other construction workers welfare cess or imposition or repeal of any other tax, levy or cess applicable on output of the works contract shall be adjusted on either side increase or decrease. Provided for Building and other construction workers welfare cess or any tax ( Other than GST), levy or cess varied or imposed after the last date of receipt of tender including extension if any, any increase shall be reimbursed to the contractor only if the contractor necessarily and properly pays such increased amount of taxes /levies /cess. Provided further that such adjustment including GST shall not be made in the extended period of contract for which the contractor alone is responsible for delay as determined by authority for extension for time under clause 5 in Schedule F.**

#### Clause 38

- i) (a) Schedule/statement for determining theoretical quantity of cement on the basis of **Delhi Schedule of Rates 2018 with correction slips issued upto the previous day of the last date of submission of the tender).**
- ii) Variations permissible on theoretical quantities.
- |   |   |                                   |
|---|---|-----------------------------------|
| a)Cement for works with estimated cost put to tender nor more than 25 lakhs                 | : | 3% plus/minus                     |
| Cement for works with estimated cost put tender more than 25 lakhs                          | : | 2% plus/minus                     |
| b) Bitumen for all works  | : | 2.5 % plus only nil on minus side |
| c)Steel Reinforcement and structural steel sections for each diameter, section and category | : | 2% plus / minus                   |
| d) All other materials  | : | Nil                               |

**Executive Engineer (Civil)**  
**CCW, AIR, Kolkata.**

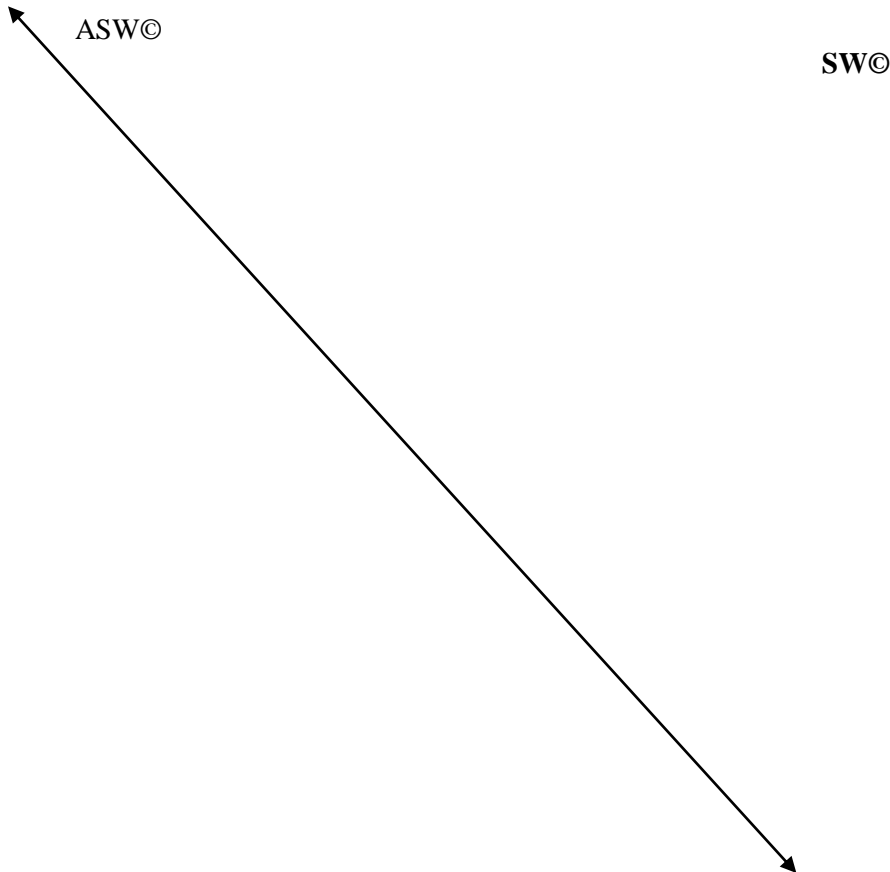
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**RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION**

Sl No	Description of Item	Rates in figures and words at which recovery shall be made from the contract	
		Excess beyond permissible limit	Less use beyond permissible variation
1	Cement		At maximum prevailing market rate during execution + 10% of prevailing market rate
2	Steel reinforcement		At maximum prevailing market rate during execution + 10% of prevailing market rate
4	Paints		At maximum prevailing market rate during execution + 10% of prevailing market rate





### GENERAL CONDITIONS

1. The work shall be carried out according to CPWD specifications for works 2009 Vol. I to II including upto date correction slips and as per additional conditions and specifications. Whenever there is any difference between the CPWD specifications for works 2009 and the additional conditions and specifications, the later shall prevail. If both the CPWD specifications and the additional conditions and specifications are silent, the clauses as per relevant, I.S. code shall apply. In case the relevant I.S. codes are also silent the instructions of the Engineer-in-Charge shall be final.
2. 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 2009 Vol. I & II with up to date correction slips (up to date of receipt of tender) and instructions of Engineer-In-Charge. Wherever CPWD Specifications are silent, the latest IS Codes / Specifications shall be followed.
3. A reference made to any Indian Standard Specifications in these documents, shall imply to the latest version of that standard, including such revisions / amendments as issued by the Bureau of Indian Standards up to last date of receipt of tenders. The Contractor shall keep at his own cost all such publications of relevant Indian Standard applicable to the work at site
4. The order of preference in case of any discrepancy as indicated under "Conditions of Contract" given in the General Conditions of contract for **GCC for CPWD works 2020 Maintenance Works Amended upto the previous day of the last date of submission of bid** Form may be read as the following:
  - i. Description of schedule of quantities. ;ii. Additional Specification and special condition, if any.iii. Contract clauses of General conditions of contract for Central P.W.D. works 2014 Form. iv. CPWD Specifications; v. Architectural drawings.;vi. Indian Standard Specifications/BIS. vii. Sound engineering practice.viii. Manufacturers Specifications

### 5. INSPECTION OF SITE

The Contractors are advised to inspect and examine the site and its surroundings and satisfy themselves with the nature of site, the means of access to the site, the constraints of space for stacking material machinery, labour etc. constraints put by local regulations, if any, weather conditions at site, general ground / subsoil conditions etc. or any other circumstances which may affect or influence their tenders.

The Contractor shall, if required by him, before submission of the tender, inspect the drawings in the Office of the Engineer-in-Charge. The Department shall not bear any responsibility for the lack of knowledge and also the consequences, thereof to the Contractor. The information and data shown in the drawings and mentioned in the tender documents have been furnished, in good faith, for general information and guidance only. The Engineer-in- Charge, in no case, shall be held responsible for the accuracy thereof and or interpretations or conclusions drawn there from by the Contractor and all consequences shall be borne by the Contractor. No claim, whatsoever, shall be entertained from the Contractor, if the data or information furnished in tender document is different or in-correct otherwise or actual working drawings are at variance with the drawings available for inspection or attached to the tender documents. It is presumed that the Contractor shall satisfy himself for all possible contingencies, incidental charges,

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6. wastages, bottlenecks etc. likely during execution of work and acts of coordination, which may be required between different agencies. Nothing extra shall be payable on this account.
7. During execution if water encountered from rain, floods, or any other source whatever, may be, the contractor shall carry out dewatering (at his own cost), as and when required. Nothing extra shall be payable on this account.
8. The nomenclature of the item given in the schedule of quantities gives in general the work content but is not exhaustive i.e. does not mention all the incidental works required to be carried out for complete execution of the item of work. The work shall be carried out, all in accordance with true intent and meaning of the specifications and the drawings taken together, regardless of whether the same may or may not be particularly shown on the drawings and / or described in the specifications, provided that the same can be reasonably inferred there from. There may be several incidental works, which are not mentioned in the nomenclature of each item but will be necessary to complete the item in all respect. All these incidental works / costs which are not mentioned in item nomenclature but are necessary to complete the item shall be deemed to have been included in the rates quoted by the contractor for various items in the schedule of quantities. No adjustment of rates shall be made for any variation in quantum of incidental works due to variation / change in actual working drawings. Also, no adjustment of rates shall be made due to any change in incidental works or any other deviation in such element of work (which is incidental to the items of work and are necessary to complete such items in all respects) on account of the directions of Engineer-in-Charge. Nothing extra shall be payable on this account.
9. Materials shall conform to CPWD specifications. No extra payment will be admissible to the agency for transportation for CPWD specified materials from any Source within India. The agency's rates will be deemed to be included in the quoted rates.
10. Where the contractor is required to provide materials of certain sizes or weights which may have become out of market due to change over to metric standards, substitute conforming to the nearest higher equivalents as approved by the Engineer-in-charge shall be used. No claim of extra payment shall be entertained on this account.
11. All materials, articles and workmanship shall be the BEST of their respective kind for the class of work described in the contract, specification and schedule of quantities. All materials shall be subject to the approval of the Engineer-in-charge. The word "BEST" used in those specifications shall mean that in the opinion of the Engineer-in-charge there is no superior quality of materials or finish of articles in the market available for the nature of the item described in the contract schedule. The Engineer-in-charge or his authorized representative shall have the absolute power to make the contractor purchase and use such materials of particular source as may, in his opinion be necessary for proper compliance with the specification and execution of work.
12. Wherever the word 'CPWD' refers in the printed book of 'General conditions of contract for Central P.W.D works it may be read as 'PB, CCW, AIR'.
13. English version of the contract including corrections any shall deemed to be accepted for all contractual obligations.

**14. Integrated Programme chart:-**

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

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- 14.1** The programme chart should include the following:
- (a) Descriptive note explaining sequence of various activities.
  - (b) Network (PERT/CPM/Bar Chart)
  - (c) Programme of procurement of materials by the contractor.
  - (d) Programme of procurement of machinery/ equipments having adequate capacity, commensurate with the quantum of work to be done within the stipulated period, by the contractor.
  - (e) Time schedule of the requirement of materials to be supplied by the department.
- 14.2** If at any time it appears to the Engineer in Charge that the actual progress of the work does not conform to the approved programme referred above, the contractor shall produce a revised programme showing the modifications to the approved programme to ensure completion of the work within the stipulated time for completion.
- 14.3** The submission for approval by the engineer in Charge of such programmes or the furnishing of such particulars shall not relieve the contractor of any or his duties or responsibilities under the contract. This is without prejudice to the right of the Engineer in Charge to take action against the contractor as per terms and conditions of the agreement.
- 14.4** In order to adhere to the program, the work shall be carried out in more than one shift and no claim on this account shall be entertained. Contractor should give advance notice in writing to Engineer-in-charge for doing any work in odd hour. Contractor shall arrange suitable to and fro transportation of CPWD site staff to their residences, in case the site staff is required to stay beyond office hours.
- 15.** The working drawings appearing in relevant para of conditions of contract in the form CPWD-8, shall mean to include both architectural and structural drawings respectively. The structural and architectural drawings shall be properly correlated before executing the work. In case of any difference noticed between architectural and structural drawings, final decision, in writing of the Engineer-in-charge shall be obtained by the contractor before proceeding further.
- 16.** Deviation in quantities shall be done only with prior written permission of the Engineer in charge. Deviation in quantities done on the order of other than the Engineer in charge shall not be measured and paid for.
- 17.** The work of addition and alterations covered under this contract shall be carried out in piece meal/in parts, and the contractor shall execute the work in the area made available to him and the contractor shall not claim anything extra over agreement rates, due to execution of works in piece meal manner.
- 18.** All the equipment shall be brought, installed and commissioned at site of work at least one week before their actual planned use at site.
- 19.** Equipment like excavators / Transit mixer etc. shall be allowed to be moved away from the site when, in written opinion of Engineer-in-Charge, the same are no longer required at site of work
- 20.** All the item of works related to foundation and plinth includes the work of basements also.

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21. The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion or 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 operations of other contractors, or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of others.
22. The contractor has to work in restricted area and in restricted time due to security or other reasons. Some restrictions may be imposed by the security staff or any other law enforcing agency and Engineer-in-charge in this respect etc. on the working and/or movement of labour, materials etc.. The contractor shall be bound to follow all such restrictions / instruction and nothing extra shall be payable on the account.
23. The contractor shall have to make his own arrangement for housing facilities for staff and labour away from construction site and shall have to transport the labour to and fro between construction site and labour camp at his own cost. No labour huts will be allowed to be constructed at the project site except a few temporary sheds for chowkidars and storekeepers. The decision about how many sheds can be allowed for chowkidars and storekeepers at project site shall rest with the Engineer-in-charge and the contractor shall have no claim on this account.
24. If as per municipal rules, or due to any other restrictions, the huts for labourers are not to be erected at the site of work by the contractors, then the contractors shall provide such accommodation at such locations as are acceptable to local bodies, or contractor shall make his own alternative arrangement for stay of labourers outside the site of work, for which nothing extra shall be payable.
25. No temporary huts/structures will be constructed by the contractor at the site of work or any Government land. Such structures, if any, found at the site or Govt. land will be demolished and removed without any notice .
26. The contractor shall give to the Municipality, Police and other local authorities all notices etc. that may be required by law and obtain all requisite licenses, permission for temporary construction that may be required for execution of work, obstruction in public places & pay all fines, taxes and charges which may be liable on account of their operation, in executing the contract. They shall make good any damage to adjoining property whether public or private and shall supply and maintain any light (either for illumination or for cautioning the public) required at night.
27. The contractor shall make his own arrangement for getting the permission to ply the trucks from the traffic police.
28. The contractor shall make his own arrangements for water and for obtaining electric connections if required and make necessary payments directly to the department concerned. However, for electrical connection, Engineer- In-Charge shall recommend the application to concerned local authorities. The wiring done by the contractor shall conform to the electrical regulation of statutory bodies and will be consistent with the safety requirements of the site. The Engineer-in-charge's decision regarding the safety aspect shall be final and binding on the contractor. In case the authorities fail to sanction the electric connection or delay the sanction of electric connection, the contractor shall make his own arrangements by providing diesel generators of adequate capacity at his own cost

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29. The contractor shall provide adequate lighting arrangement as approved by the Engineer-in-charge for carrying out the works during night times when required and also provide all other facilities for the labour employed to carry out the works without any extra charge. Necessary lighting as directed by the Engineer-in-charge shall also be provided by the contractor without any extra charges for yard lighting as well as to cover the entire site including those required for safety and security reasons.
30. For water supply, contractor shall make his own arrangement including boring of tube well, if necessary, and nothing extra shall be paid by the Department for arrangement of water or on its treatment to meet the requirements laid down in IS: 456 /2000, or CPWD Specifications 2009 volume I & II with upto date correction slips.
31. The contractor shall make adequate fire fighting arrangement and shall be fully responsible for any fire consequences at the work site.
32. The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards. He shall be responsible for all damages and accidents caused due to negligence on his part. No hindrance shall be caused to traffic during the execution of the work by storing materials on the road.
33. All the materials will be arranged by the contractor himself. If any material is issued by the department the contractor shall bear all incidental charges for cartage, storage and safe custody of such material.
34. All material shall only be brought at site as per program finalised 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.
35. All the site records shall be maintained separately by Engineer-in-charge or their authorized representatives of civil for civil works. Registers for the materials to be issued by the department shall be maintained as required by the Engineer-in-charge and these shall be signed by the contractor or his authorized agent and representative of Engineer-in-charge on each day of transactions.
36. Cement required to complete the work shall be arranged by the Contractor. Conditions for cement and steel are detailed elsewhere in this NIT. The contractor is required to produce the proof of purchase of cement and steel as and when desired by the Engineer-in-Charge.
37. The day to day receipts and issue of cement shall be governed as per the direction of Engineer-in-charge. The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 A of 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 conditions laid therein. For non-schedule items, the decision of the Superintending Engineer regarding theoretical quantity of cement, which shall have been actually used, shall be final and binding on the contractor.
38. 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 and key system.
39. 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.

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40. (a) The building for components will be carried out in the manner complying in all respects with the requirements of relevant by laws of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-Charge and nothing extra will be paid on this account.
- (b) The work of water supply, internal sanitary installations and drainage work etc. shall be carried out as per local Municipal Corporation or such local body by-laws and the contractor shall produce necessary completion certificate from such authorities after completion of the work.
- (c) Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should conform to bye-laws and specifications of the Municipal Body/Corporation where C.P.W.D. specification are not available. The contractor should engage licensed plumber for the work and get the materials (fixtures/fittings) tested by the Municipal Body/Corporation Authorities wherever required at his own cost.
- (d) The contractor shall comply with proper and legal orders and directions of the Local or Public authority or Municipality and abide by their rules and regulations and pay all fees and charges, which he may be liable in this regard. Nothing extra shall be paid/reimbursed for the same.
- (e) The contractor shall give a performance test of the entire installation(s) as per standing specifications before the work is finally accepted and nothing extra whatsoever shall be payable to the contractor for the test
41. The rate for different items of work shall apply for all heights and depths unless otherwise specified and no such claim on this account shall be entertained. The rate of all items of works shall unless clearly specified otherwise include cost of all laborers, materials & other inputs involved in the execution of the item. Payment for centring, shuttering, however, if required to be done for heights greater than 3.5m shall be admissible at rates arrived in accordance with clause 12 of the agreement if not already specified.
42. The contractor's rate shall among other things include the cost of working in multiple shifts round the clock, if necessary including gazetted holiday and the cost of mobilization of all type of resources, T&P, lighting etc.
43. The agency may ensure/see the water table condition at site. The agency shall make his own arrangement for pumping out sub soil water/rain water during execution of work and nothing extra shall be payable on account of pumping out of sub soil water, rain water and on account of working under water or liquid mud and under foul position.
44. The 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 of site. However, no claim on the alleged inadequacy or incorrectness of the soil data supplied by the department shall be entertained.
45. No payment shall be made to the contractor for any damaged caused by rain, snowfall, floods or any other natural cause what so ever during the execution of work. The damage to work will be made good by the contractor at his own cost, and no claim on this account shall be entertained.
46. The dismantling wherever required shall be done in a manner so that no other portions of the building or its fixtures are damaged. If any damage is done to the building it shall be made good by the contractor at his own cost and no claim what so ever shall be entertained on this account.

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47. The contractor shall leave such necessary holes, opening etc., for laying / burying in the work pipes, cables, conduits, clamps, boxes and hooks for fan clamps etc. as may be required for other agencies. Conduits for electrical wiring/cables will be laid in such a way that they leave enough space for concreting and do not adversely affect the structural members. Nothing extra over the agreement rates shall be paid for the same. The contractor shall extend necessary co-operation to other such agencies without any claim on this account..
48. All stone aggregate and stone ballast shall be of hard stone variety to be obtained from approved quarries or any other source. Sand to be used for cement concrete work, mortar for masonry and plaster work shall be of standard quality and shall be obtained from the approved quarries or any other source and screened as required. The same shall consist of hard siliceous material. It shall be clean sand. The contractor shall get the source of various raw materials namely aggregate, cement, sand, steel, water etc. to be used on the work, approved from the Engineer-in-Charge and trial mixes for controlled concrete shall be done using the approved materials. The contractor shall stick to the approved source unless it is absolutely unavoidable. Any change shall be done with the prior approval of the Engineer-in-Charge for which tests etc. shall be done by the contractor at his own cost.
49. The contractor shall have to bring Samples of all brands as provided in the preferred list of building materials, fittings and other articles required for execution of the work and the Engineer in Charge shall approve one sample out of the samples as brought by contractor after satisfying himself and contractor & Engineer in charge shall put their signature as token of acceptance and such samples shall be preserved till finalization of bill of the work
50. The contractor shall procure the required materials in advance so that there is sufficient time for testing of the materials and clearance of the same before use in the work. The contractor shall provide at his own cost suitable weighing and measuring arrangements at site for checking the weight / dimensions as may be necessary for execution of work. The sealed samples are to be handed over to the testing lab by contractor in the presence of Junior Engineer-in-charge of work.
51. If ISI marked products are available, the contractor shall use only ISI marked products. In other cases, the materials shall conform to CPWD specifications. In case a materials/product is neither covered by ISI nor by CPWD specification, the work shall be carried out as per sound engineering practice, in such case, the decisions of the Engineer-in-charge shall be final & binding. In such cases Engineer-in-charge shall satisfy himself about the quality of such materials and give his approval in writing. Only articles classified as first quality by the manufacturers shall be used, unless otherwise specified. All materials not bearing ISI mark shall be tested as per relevant ISI specifications. The Engineer-in-charge may relax the condition regarding testing if the quantity of the materials required for the work is small. In all cases of use of ISI marked materials, proper proof of procurement of materials from authentic manufacturers shall be provided by the contractor to the entire satisfaction of Engineer-in- charge
52. All the materials required to be tested shall be tested as per provisions of the relevant I.S. Codes. Should there be any difference between acceptance CRITERIA given in I.S. Codes, C.P.W.D. specifications and special conditions, the acceptance CRITERIA shall be in the following order of precedence: 1 . Special conditions / particular specifications 2 . C.P.W.D. Specifications 3 . I.S. Codes.
53. The contractor shall ensure quality control measures on different aspects of construction including materials, workmanship and correct construction methodologies to be adopted.
54. The water shall be tested by the contractor with regard to the suitability for use in RCC works and nothing extra shall be paid thereon.

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55. Income tax and GST on works contract shall be recovered from the contractor's running bills and final bill, as per prevailing rules and as per rate fixed by Government of India and/or Odissa State Government from time to time during the currency of the contract.
56. The contractor shall have to pay worker's welfare cess @1% of the gross value of work done by him, which shall be recovered from each running bill including final bill by the Engineer – in - Charge.
57. Royalty at the prevalent rates shall have to be paid by the contractor on all the boulders, metals, shingle sand and bajri etc. collected by him for the execution of the work, direct to the Revenue authority or authorized agent of the State Government concerned or Central Government.
58. All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested as per the design conditions before covering.
59. The contractor shall indemnify the Govt. against any claims or obligations arising out of any damage to adjacent property, structure or to building work done by him. Contractor shall take all precautionary measures to avoid any damage to adjoining property/building. All necessary arrangements shall be made in his own cost by the Contractor.
60. Existing drains, cables, pipes, overhead wires, sewer lines, water lines and similar services encountered in the course of execution of work shall be protected against the damages by the contractor at his own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.
61. Working Space available is limited in and around the project site. Contractor has to acquaint themselves with the prevailing site conditions and shall quote their rates accordingly. Nothing extra will be admissible on these grounds.
62. Before start of work, the contractor keeping in view the space available is limited, shall furnish a construction yard layout, specifying area for construction, positioning of machinery, material yard, cement and other storage, steel fabrication yard, site laboratory, water tank, conveyers belt, etc. and seek formal approval of the Engineer-in-charge. No space will be available at site of work for the fabrication of steel / aluminium work grating, railing, etc. The contractor should make his own arrangement for the same in his workshop. Nothing shall be paid for the carriage of such manufactured items from workshop to site of work.
63. The contractor shall not stack building material / malba on govt. land or road or on the land owned by any other authority and he shall face penal action as per the rules, regulation and bye-laws of the said body or authority. The Engineer-in-charge shall be at liberty to recover the amount due but not paid to the concerned authorities on account of the above from any amount due to the contractor including amount of the security deposit or retention money in respect of this contractor or any other contract.
64. Stacking of materials and excavated earth including its disposal shall be done as per the directions of the Engineer-in-Charge. Double handling of materials or excavated earth, if required, shall have to be done by the contractor at his own cost.
65. The contractor shall take instructions from the Engineer-in-charge for stacking of materials at site. No excavated earth or building materials shall be stacked on areas where the buildings, roads, services or compound walls or any other structure are to be constructed.

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66. The contractor should remove from site, the net surplus earth only. If he disposes earth more than the surplus quantity and earth is required later to be brought from outside, the contractor shall be liable to supply at site the such required quantity of earth of required quality at his own cost and nothing shall be paid on the account. The quantity of the surplus earth to be disposed off from the site shall be worked out on the basis of levels to be taken before and after the excavation. The decision of the Engineer-in-Charge regarding the quantity of net surplus earth shall be final & binding. Nothing extra shall be payable to the contractor for stacking the excavated earth.
67. The contractor will not have any claim in case of any delay by the Engineer-in-Charge in removal of trees or shifting, removing of telegraph, telephone or electric lines (overhead or underground), water and sewer lines and other structure etc., if any which may come in the way of the work. However, suitable extension of time can be granted to cover such delay.
68. The contractor shall clean the site thoroughly by removing scaffolding, surplus materials, rubbish, equipments left out of his work and shall dress the site around the building to the complete satisfaction of the Engineer-in-charge before the work is treated as complete.
69. All Sub-Standard material if brought by contractor shall be rejected and shall have to be removed by him at his cost from the site immediately and this office will not be responsible for the safe custody of the same. And Engineer-in-charge shall have powers to get it disposed in case of failure by contractor at the risk and cost of contractor.
70. The Sub-standard work shall be rejected out right and shall not be measured and no claim what so ever, shall be entertained in this regard. The decision of the Engineer-in-charge shall be final and binding in this regard.
71. Nothing extra shall be paid to the contractor for excess consumption of materials in case of the materials arranged by him.
72. Defective work, sub standard work or work not done according to the specifications of the contracts shall be liable for summary rejection and shall not be measured and paid for. This shall be without prejudice to taking any other action against the contractor in accordance with the terms, and conditions of the contract.
73. The contractor shall engage licensed plumbers for the work and the materials (fixtures/fittings) tested by the local Municipal Body/Corporation wherever required at his own cost. Nothing extra shall be paid/reimbursed for the same.
74. The contractor shall give a performance test of the entire installation(s) as per standing specifications before the work is finally accepted by making his own arrangements for water supply, electricity etc. and nothing extra whatsoever shall be payable for the same.
75. It will be responsibility of the contractor to arrange security passes, if required after obtaining necessary authorization from the Engineer-in-charge.
76. The contractor shall provide at his own cost suitable weighing surveying and levelling and measuring arrangements as may be necessary at site for checking. All such equipments shall be got calibrated in advance from laboratory, approved by the Engineer-in-Charge. Nothing extra shall be payable on this account.
77. Contractor shall provide permanent bench marks 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



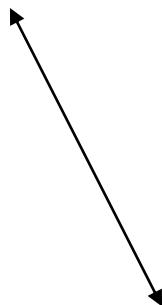
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78. Tenderer shall submit the detail design with calculation for structural glazing considering the wind pressure as per IS-875 Part-III. The design should satisfy the adopted aluminium sections which will support structure glazing and having sufficient strength to with stand dead load of the structural glazing as well as other stresses due to wind pressure.
79. The Contractor shall assume all liability, financial or otherwise in connection with this contract and shall protect and indemnify the Department from any and all damages and claims that may arise on any account. The Contractor shall indemnify the Department against all claims in respect of patent rights, royalties, design, trademarks of name or other protected rights, damages to adjacent buildings, roads or members of public, in course of execution of work or any other reasons whatsoever, and shall himself defend all actions arising from such claims and shall indemnify the Department in all respect from such actions, costs and expenses. Nothing extra shall be payable on this account.
80. Mandatory disclosure of recipient GSTIN on invoice for claiming ITC: Since no input Tax Credit (ITC) can be allowed under GST if GSTIN of the recipient of the supply is not mentioned on the face of invoice issued by registered person, hence specific GSTIN of the concerned unit on the face of invoice and, in GSTR-1 filed by the supplier should be disclosed.
81. Penal Clause: In case, any credit, refund or benefit is denied or delayed to the Buyer due to non-compliance by the Seller (ex: non-payment of GST on supplies, nondisclosure or incorrect disclosure in GST returns), the Seller would reimburse an amount equivalent to the loss including, but not limited to, the tax loss, interest and penalty to Prasar Bharati.
82. **The GST has been implemented by Government of India with effect from 1<sup>st</sup> July, 2017. The rates quoted by the tenderer, shall be firm and inclusive of all taxes including GST after duly availing the advantage of input credit of GST on material. No payment will be released / reimbursed to the contractor on account of GST paid by them. Since, the Service Tax is subsumed in GST, there will not be any reimbursement of Service Tax and the Clause-37 of GCC of GCC for CPWD works 2020 Maintenance Works Amended upto the date of online submission of bid stands modified accordingly. Income Tax, TDS towards GST, Labour Cess & other statutory deductions etc., shall be made at source as per the prevalent laws.**
83. **Self attested GST registration documents in respect of the associated agencies shall be submitted within 7 days of award of work OR before start of work whichever is earlier**
84. In case of any contradictory provisions found in the contract document, the decision of the Engineer-in-charge shall be final and binding on the contractor.

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### **ADDITIONAL CONDITIONS**

1. The contractor shall be entitled to invoke Arbitration Clause only after exhausting the remedy available under the Dispute Redress Committee, convened by the Chief Engineer, CCW, AIR, New Delhi.
2. The contractor shall arrange all major Tools, Plants and Equipments or any other machinery required, apart from the list as mentioned under clause 18 of Schedule "F", for execution of work, in good condition at appropriate time and nothing extra shall be paid on this account. However this shall not relieve the contractor of any responsibilities to complete the work within the stipulated time.
3. The theoretical consumption of materials like satna lime, distemper, paint, water proof cement paint etc. shall be computed, as per the consumption of co-efficient of **DSR 2018**. In case of variation between the actual and the theoretical calculations action shall be taken as below:

For the materials to be arranged by the contractor:- In case the materials used other than those mentioned elsewhere in the contract are less than theoretical requirements, the cost for the material used less shall be recovered from the contractor at the basic rate as given in **D.S.R.2018** plus carriage plus 1% W.C. plus 15% contractor profit and over heads plus contractors enhancement/abatement as per clause 12 of the agreement. For all excess use of materials over the theoretical consumption no extra payment shall be made to the contractor:

4. Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been built in the items and nothing extra shall be payable (or) extra cement considered in consumption on this account.
5. Sampling & Testing of materials:
  - (a) All materials and fittings brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-charge, which shall be preserved till the completion of the work. If a particular brand of material is specified in the item of work in Schedule of Quantity, the same shall be used after getting the same approved from Engineer-In-Charge. Wherever brand / quality of material is not specified in the item of work, the contractor shall submit the samples as per suggestive list of brand names given in the tender document / particular specifications for approval of Engineer-In-Charge. For all other items, materials and fittings carrying ISI Mark shall be used with the approval of Engineer-In-Charge. Wherever ISI Marked material / fittings are not available, the contractor shall submit samples of materials / fittings manufactured by firms of repute conforming to relevant specifications or IS codes and use the same only after getting the approval of Engineer-In-Charge. To avoid delay, contractor should submit samples as stated above, well in advance so as to give timely orders for procurement. If any material, even though approved by Engineer-In-Charge is found defective or not conforming to specifications shall be replaced / removed by the contractor at his own risk & cost.
  - (b) 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.
  - (c) BIS marked materials except otherwise specified shall be subjected to quality test besides testing of other materials as per the specifications described for the item/material. Wherever BIS marked materials are brought to the site of work, the contractor shall furnish manufacturer's test certificate or test certificate from approved testing laboratory to establish that the material produced by the contractor for incorporation in the work satisfies the provisions of BIS codes relevant to the material and / or the work done.

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- (d)
- (e) **BIS marked items (except cement & steel) required on the work shall be got tested. Only important tests, which govern the quality of the product, shall be carried out. The frequency of such tests shall be 25% of the frequency specified in the CPWD Specifications 2009 vol I & II with upto date correction slips.**
- (f) For certain items, if frequency of tests is not mentioned in the CPWD Specifications then relevant IS code shall be followed and tests shall be carried out @ 25% of the frequency specified therein. Wherever NIT/CPWD specifications/relevant BIS codes do not specify the frequency of tests, the same shall be carried out as per direction of the Engineer in charge.
- (g) **All the materials obtained from Govt. Store or otherwise shall be got checked by the Engineer in charge or his authorized supervisory staff, on receipt of the same at site before use.**
- (h) **All materials which are specified to be tested by the manufacturer's work shall satisfactorily pass the tests in presence of the authorized representative of Engineer in charge before being used in this work. In case all requisite testing facilities are not available at the manufacturer's premises, such testing shall be conducted at laboratory approved by the Engineer in charge. The charges for such testing shall be borne by the contractor.**
- (i) **The cost of samples including packing, sealing, transportation and other incidental charges shall be borne by the contractor. In case the tests are conducted at a approved laboratory other than the site laboratory of the contractor, the cost of tests shall be borne by the contractor/department in the manner indicated below:**
- (i) By the contractor if the results show that the material does not confirm to relevant BIS Codes.
- (ii) By the department if the results show that the material conforms to relevant BIS Codes. In all cases, cost of samples and to and fro carriage shall be borne by the contractor.
- (j) The contractor has to establish field laboratory and skilled manpower for the following tests at his own cost. ,Surface moisture test; Slump test  
Particle size and shape.; Ten percent fine value Aggregate impact test;  
Flakiness and elongation index tests. Compressive strength (concrete or bricks) test  
Rebound hammer test; Bulking of sand; Silt content of sand  
Thermometer with brass protected end (0-1000 C)
- (k) If so desired by the Engineer-in-charge samples at random shall be collected and sent for the laboratory test required as per relevant C.P.W.D., specifications or ISI standard at CPWD testing lab. I.P. Bhawan or P.W.D. test lab M.S.O. Building or at Sh. Ram Test House, Delhi or National test House, Alipur Calcutta or any reputed testing lab as decided by Engineer-in-charge and all incidental charges in connection with the test including cost of samples shall be borne by the contractor. The laboratory testing fees, shall be borne by the department if samples passes the test and by the contractor if the sample fails in the test.
- (l) **The work shall be taken up only after getting the satisfactory test result from laboratory** Samples for particular items of work shall be prepared, where so specifically desired by Engineer-in- charge, for prior approval of the Engineer-in-charge, before taking up the same on mass scale and nothing shall be payable on this account.
6. Wherever desired by Engineer-in-charge, the contractor shall also construct a sample unit complete in all respect within time specified by the Engineer-in-charge & this sample unit shall be got approved from the Engineer-in-charge before mass construction is taken up .No extra claim, whatsoever beyond the payment due at agreement rates, will be entertained to the contractor on this account.



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7. (a) For the purpose of recording measurements and preparing running account bills, the abbreviated nomenclatures indicated in the publications "Abbreviated nomenclature of item of DSR-2018" with up to date correction slips shall be accepted. The abbreviated nomenclature shall be taken to cover all the materials and operations as per the complete nomenclature of the relevant items in the agreement and other relevant specifications.
- (b) In the case of items for which abbreviated nomenclature is not available in the above cited publication and also in case of extra and substituted items of works for which abbreviated nomenclature is not provided in the agreement, the full nomenclature of the items shall be reproduced in the measurement books and bill forms for running account bill. The full nomenclature of the items shall be adopted in preparing abstract of final bill form in the measurement book and also in the bill form for final bill.
8. 1% (One percent) water charges shall be recovered on the gross amount of bill from the contractor, if the departmental. water is used.. 1% Electric charges shall be recovered on the gross value of work done, if Government Electricity is used at the work.
9. The contractor should intimate their correct postal address to the Engineer\_in\_charge..In case it is found that the address given is not correct and as a consequence of the same if any registered letter sent through postal authorities is received back by the department, undelivered to the contractor, the contractor shall be fully responsible for all the consequence and by such letter sent through registered post shall be deemed to have been delivered to him

**10 SPECIFICATION AND SPECIAL CONDITIONS FOR A/R & M/O WORKS & UPGADATION WORKS**

- 10.1 The contractor should submit a tentative programme of working within seven days of the date of start of work. The contractor will have to work as per programme of the department. No claim what so ever will be entertained on this account. Before starting the work the contractor shall chalk out a programme in consultation with the Junior Engineering/Asstt. Engineer-in-charge so as to inform the occupants at least one week in advance. The contractor shall have to adhere to this programme failing which he shall be held responsible for any inconvenience caused to the occupants. In order to ensure that the work is carried out according to the programme drawn, the contractor shall ensure adequate supply of the material and employ required labour strength for execution of work. In case contractor fails to arrange/employ adequate labour and stick to the programme, the Engineer- in-charge may supplement the labour, at the cost of the contractor after issue of one day's notice to the contractor. No claims for ideal labour on any account shall be entertained. The contractor shall put his authorised representatives daily at the site of work for receiving instructions from AE/JE and other inspecting officials from the department. His name and signature shall be attested by the contractor and kept on the record with the department
- 10.2 The contractor has to make his own arrangement for all T & P like ladders, gohree, sutli, empty containers, brushes, and paper, kuchies etc. required for work and nothing extra shall be paid for the same.
- 10.3 It is also understood that work is to be executed in occupied offices/ quarters and the work will be executed as per the convenience of the allottee/ authority and while organizing the manpower and material this aspect will be kept in view, and no claim on this account will be made but extension of time will be granted without levy of compensation for the delay caused due to the site being not available. The site shall be made available in parts as it is received from client. Each time the site is available, the contractor shall be intimated through site order book or in writing and the contractor is to start the work within 3 days of such intimation, failing which the action under clause 3 may be taken without any further notice under clause 3.

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- 10.4 The rooms/sites where the work is to be executed on any day shall be got approved from the representatives of the Engineer-in-charge at the site of work. No work shall be carried out in any room / site without the approval of the representative of the Engineer-in-charge at the site of work. Such works carried out without the approvals of the representative of the Engineer-in-charge shall be rejected and will not be measured and paid for.
- 10.5 The contractor should note that all the items of work to be taken up in any room shall be under taken one after the other and completed, in reasonable time allotted for the same by the Engineer-in-charge and got noted by Junior Engineer-in-charge from the clients. Any items left over in any building will be got done at his cost and risk without any further notice (Entry made in the site order book by JE or AE or EE will be considered as notice to this effect) to the contractor after three days from the date of entry in the site order book
- 10.6 If because of any reasons work has to be stopped in any of room/ site /Bungalows/Flats, it shall be responsibility of contractor to bring the facts to the notice of the either field staff or Engineer- in-charge, failing which the said period shall not be accounted for Hindrance period.
- 10.7 The contractor shall be held responsible for behaviour and conduct of his workers. No worker with doubtful integrity or having a bad record shall be engaged at site of work by the contractor.
- 10.8 The malba/garbage generated at site due to construction activities shall be removed from the site immediately & shall be disposed off by the contractor to the approved dumping site identified by the Engineer-in-charge, failing of which Rs.500/- per day shall be deducted per Bungalow/Flat from payment due to contractor. Moreover the malba is to be brought down through stair cases and will not be allowed to be thrown directly on the ground. The surplus soil/earth shall be disposed off as per the directions of Engineer-in-charge separately
- 10.9 Every precaution must be taken to see that the tenant's furniture/furnishings is properly covered with tarpaulin etc. If necessary, furniture/furnishings shall be removed from the site while carrying out the repair and white washing work, in that case furniture/furnishing will be placed back. Any damage done during the course of execution of work, to the tenant's property i/c furniture/furnishing by the contractor's labour shall be compensated at contractor's cost.
- 10.10 To avoid disputes later on, contractor is advised to get the measurement recorded within a week's time and shall submit his bills as per relevant clause of the contract. Any dispute regarding measurement including work done shall be judged within a week's time failing which no measurement, certified and recorded shall be entertained
- 10.11 All doors, windows, floors, furniture, electrical fittings and other articles shall be cleaned free from dust, splashes and damages. Sufficient covering for the days work shall be shown to the representative of the Engineer-in-charge before the contractor is allowed to proceed with the work. Splashes and droppings of the white washings, colour washing, distempering, painting etc. on walls, floors, doors and windows, glass panes, down take pipes, furniture, shall be removed by the contractor at his own cost and the surface cleaned simultaneously after the completion of the days work in individual room or bungalow or premises where the work is done without waiting for the actual completion of all the other items of work in contract. In case, the contractor fails to comply with the requirement of this condition the Engineer-in-charge shall have the right to get this work done at the risk and cost of the contractor either departmentally or through another agency. The representative of the Engineer-in-charge will mention in the site order book, before employing the labour at contractor's cost.

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- a) For splashes of internal white wash/distemper etc. =Rs.500/- per bungalow/flats.
- b) For splashes of paint marks = Rs.1000/- per bungalow/flats
- c) For splashes of external white wash/colour wash/water proofing cement paint = Rs.500/- per bungalow/flat.
- 10.12 Before the execution of work, materials shall be brought in adequate quantity to be sufficient at least for 50% of the total requirement of the whole work and deposited with the Department. Remaining 50% of the materials shall be brought and deposited with the department after the completion of 1/3<sup>rd</sup> of work. . The materials such as paints, varnish, distempers, water proofing cement paint and primers etc. as required shall be of approved brand and manufacture and of required shade and conforming in all respects to the relevant I.S. specifications, either of the approved companies shall only be brought to the site of work. The contractor shall have to get approved the brands/shades of dry distemper, oil bound distemper, synthetic enamel paint, plastic emulsion paint etc. from the Engineer-in-charge before supply of the materials.
- 10.13 Material is to be purchased from the authorised dealer and cash memos to this effect is to be produced along with material. It should be ensured that the material is taken from authorised dealers and supported with challans of the manufacture.
- 10.14 Materials shall be brought to the site of work in original containers with the manufacturers seal intact.
- 10.15 Empty containers of the paints, primer, distemper, OBD etc will be returned to the JE by the contractor before the issue of paints etc. in next lot, failing which no further materials will be issued. On completion of the work, the JE-in-charge will return the empty container. However the empty containers shall be removed from the site of work/store after final bill is passed and paid.
- 10.16 Fevicol DDL or equivalent "Liquid synthetic adhesive binder shall be mixed with white wash and colour wash in required quantity as per manufacturer's specification and nothing extra will be paid on this account
- 10.17 All the items of work in a quarter/ flat shall have to be taken up consequently i.e. after the patch repairs are carried out in buildings and then A/R & M/O works will be taken in the same portion and thereafter painting shall have to be got completed.
- 10.18 The materials required for day's work shall be issued to the contractor or his authorised representative daily by the Junior Engineer-in-charge of the work. Any balance of the material left at end of the days of work and the empty containers shall be returned to the Junior Engineer. The day to day issue account of the materials shall be maintained by the Junior Engineer-in-Charge and shall be signed daily by the contractor or his authorised agent in token of receipt of the materials failing which no payment of bill shall be made to the contractor. The empty containers shall not be removed from the site of work without written orders of the Engineer-in-charge.
- 10.19 In case the office rooms/quarter/flats are not made available to the contractor according to the programme, the contractor shall not be entitled for any claim for idle labour or any other claim on any account what-so-ever.
- 10.20 Scrapping shall be shown to the Assistant Engineer and got approved and test checked by him prior to distempering.
- 10.21 In case of two or more coats are essential, the one or more coats will be first completed and got inspected by the Engineer-in-charge who will give required decision before allowing the second coat.
- 10.22 The work of addition and alterations covered under this contract shall be carried out in the individual quarters. The Bungalows may be made available to the contractor for execution of work in piece meal/ in parts, and the contractor shall execute the work in these quarters made available to him and the contractor shall not claim anything extra over agreement rates, due to execution of works in piece meal manner.



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**MATERIALS ARRANGED BY THE CONTRACTOR**

In all contracts where departmental issue of cement and steel is not stipulated, special conditions shall be incorporated as below:

1.1 Conditions for Cement (Grey Cement).

- i) The contractor shall procure Portland Pozzolana Cement (PPC) [conforming to IS:1489 (Part-D)]/Ordinary Portland Cement 43 grade (conforming to IS: 8112), as required in the work, from reputed manufacturers of grey cement such as ACC, Ultra tech, Vikram, Shree Cement, Ambuja, Jaypee Cement, Century Cement & J. K. cement or from any reputed cement manufacturer having a production capacity of one million tonnes or more per annum **as approved by chief engineer©, ccw, air N.Delhi**. The tenderers may also submit a list of names of cement manufacturers which they propose to use in the works whose name shall be got approved from Engineer-in-charge. Supply of cement shall be taken in 50 Kg. bags bearing manufacturer's name and ISI marking. Samples of cement arranged by the contractor shall be taken by the Engineer-in-charge and got tested in accordance with provisions of relevant BIS codes. In case 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.
- ii) Use of PPC (Portland Pozzolana Cement) shall be used in RCC structures in accordance with the circular issued by the Directorate General of Works vide No.CDO/SE(RR)/Fly Ash (Main)/102 dt.09.04.2009. The use of PPC shall be regulated as per the following conditions stipulated in the circular dt.09.04.2009:-
  - a) IS:456-2000 Code of Practice for Plain and Reinforced Concrete (as amended upto date) shall be followed in regard to Concrete Mix Portion and its production as under:
    - a) (i) The concrete mix design shall be done as "Design Mix Concrete" as prescribed in clause-9 of IS 456 mentioned above.
    - a) ii) Concrete shall be manufactured in accordance with clause 10 of above mentioned IS:456 covering quality assurance measures both technical and organizational, which shall also necessarily require a qualified Concrete Technologist to be available during manufacture of concrete for certification of quality of concrete.
  - b) Minimum M25 grade of concrete shall be used in all structural elements made with RCC both in load bearing and framed structure.
  - c) The mechanical properties such as modulus of elasticity, tensile strength, creep and shrinkage of fly ash mixed concrete or concrete using fly ash blended cements (PPCs) are not likely to be significantly different and their values are to be taken same as those used for concrete made with OPC.
  - d) To control higher rate of carbonation in early ages of concrete both in flyash admixed as well as PPC based concrete, water/binder ratio shall be kept as low as possible, which shall be closely monitored during concrete manufacture. If necessitated due to low water/binder ratio, required workability shall be achieved by use of chloride free chemical admixtures conforming to IS:9103. The compatibility of chemical admixtures and super plasticizers with each set OPC, fly ash and /or PPC received from different sources shall be ensured by trials.
  - e) In environment subjected to aggressive chloride or sulphate attack in particular, use of fly ash admixed or PPC based concrete is recommended. In case, where structural concrete is exposed to excessive magnesium sulphate, fly ash substitution/content shall be limited to 18% by weight. Special type of cement with low C<sub>3</sub>A content may also be alternatively used. Durability criteria like minimum binder content and maximum water/binder ratio also need to be given due consideration in such environment.

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- g) Subject to General Guidelines detailed out as above, PPC manufactured conforming to IS:1489 (Part-I) shall be treated at par with OPC for manufacture of Design Mix Concrete for structural use in RCC.
- h) Till the time, BIS makes it mandatory to print the %age of fly ash on each bag of cement, the certificate from the PPC manufacturer indicating the same shall be insisted upon before allowing use of such cements in works.
- i) While using PPC for structural concrete work, no further admixing of fly ash shall be permitted
- iii) The cement shall be brought at site in bulk supply of approximately 50 tonnes or as decided by the Engineer-in-charge.
- iv) The actual size of godown shall be as per site requirements and as per the direction of the Engineer in charge and nothing extra shall be paid for the same. The decision of the Engineer-in-charge regarding the capacity required/needed will be final. However, the capacity of each godown shall not be less than 10 tonne. Double lock provision shall be made to the door of the cement godown. The keys of one lock shall remain with the Engineer-in-charge or his authorized representative and the keys of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement godown. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-charge at any time.
- v) The cement shall be got tested by Engineer-in-charge and shall be used on work only after test results have been received. The contractor shall supply free of charge the cement required for testing. The cost of tests shall be borne by the contractor/Department in the manner indicated below:
- a) By the contractor, if the results show that the cement does not conform to relevant BIS Codes.
- b) By the Department, if the results show that the cement conforms to relevant BIS Codes.
- vi) The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions therein.
- vii) 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.
- viii) Damaged cement shall be removed from site immediately by the contractor on receipt of notice in writing from the Engineer-in-charge. If he does not do so within three days of receipt of such notice, the Engineer-in-charge shall get it removed at the cost of the contractor.

### 1.2 Conditions for Steel.

- 1) The contractor shall procure TMT bars of grade (the grade to be procured is to be specified) from primary producers such as SAIL , Tata steel Ltd., RINL a, Jindal 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 tones per annum

In case of non-availability of steel from primary producers the NIT approving authority may permit use of TMT reinforcement bars procured from steel producers having integrated steel plants (ISPs) using iron ore as the basic raw material for production of crude steel which is further rolled into finished shapes in-house having crude steel capacity of 0.5 Million tone per annum and more. A separate list of producers for this category shall be approved by the Chief engineer(c ), CCW, AIR, N.Delhi.

In case of non-availability of steel from primary producers as well as ISPs then the NIT approving authority may permit use of TMT reinforcement bars procured from secondary producers. In such cases following action is to be taken by NIT approving authority:

- a) The grade of the steel such as Fe 500D or other grade to be procured is to be specified as per BIS 1789-2008.



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- b) The secondary producers must have valid BIS licence to produce HSD bars conforming to IS 1786:2008. In addition to BIS licence, the secondary producer must have valid licence from either of the firms Tempcore, Thermex, Evcon Turbo & Turbo Quench to produce TMT Bars.
  - c) The TMT bars procured from primary producers and ISPs shall conform to manufacturer's specifications.
  - d) The TMT bars procured from secondary producers shall conform to the specification as laid by Tempcore, Thermex, Evcon Turbo & Turbo Quench as the case may be.
  - e) TMT bars procured either from primary producers or secondary producers, the specifications shall meet the provisions of IS 1786:2008 pertaining to Fe 500D grade of steel as specified in the tender.
- 2) 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.
  - 3) 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 under para (1) (d) & (1) (e) 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.
  - 4) The steel reinforcement shall be brought to the site in bulk supply of ten tonnes or more as decided by the Engineer-in-charge.
  - 5) The steel reinforcement shall be stored by the contractor at site of work in such a way as to prevent distortion and corrosion and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
  - 6) For checking nominal mass, tensile strength, bend test, re-bend test etc. specimen of sufficient length shall be cut from each size of the bar at random at frequency not less than that specified below:

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

- 7) The contractor shall supply free of charge the steel required for testing. The cost of tests shall be borne by the contractor/Department in the manner indicated below:
  - a) By the contractor, if the results show that the steel does not conform to relevant BIS codes.
  - b) By the Department, if the results show that the steel conforms to relevant BIS codes.
- 8) 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 procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein.
- 9) Steel brought to site and steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.
10. The following procedure should be followed in case of removal of rejected/sub-standard materials from the site of work.



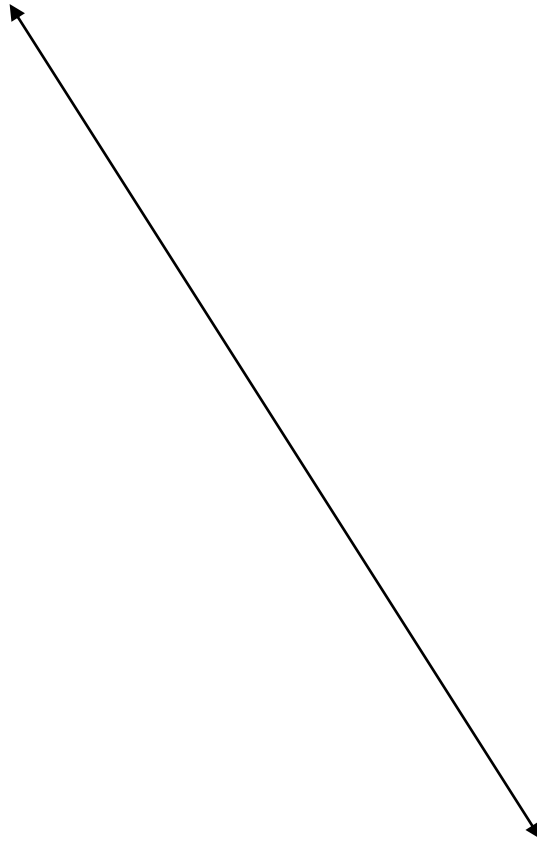
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- i) Whenever any material brought by the contractor to the site of work is rejected, entry thereof should invariably be made in the site order book under the signature of the AE/AEE giving approximate quantity of such materials.
  - ii) As soon as the material is removed, a certificate to that effect may be recorded by the AE/AEE against the original entry, giving the date of removal a mode of removal i.e. whether by truck, carts or by manual labour. If removal is by truck, the registration number of the truck should be recorded.
  - iii) When it is not possible for the AE/AEE 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 AE/AEE should countersign the certificate recorded by the Junior Engineer.
11. Cement should be kept in godowns under double locks and keys and its consumption account invariably maintained, whether the cement is supplied departmentally or arranged by the contractor. A register should be maintained at the site of each work costing above ` 20,000/-. This register should contain the columns as shown in Appendix-28. (CPWD Works Manual 2010).

The pages of the register should be machine numbered and each page initialed by the EE. The columns in the register mentioned above will be provided by the EEs or the SDOs. The cement godown and the register are required to be checked by the SDO/EE in-charge of the work.

- i) At least weekly or fortnightly, respectively in case of works at the Headquarters of SDO/EE and.
- ii) Whenever they visit the site of work in case of works located outside the Sub-Divisional/Divisional Head Quarters.
- iii) In the case of large concentrated projects like major bridges etc., the EE should check the cement register at least fortnightly.





## PARTICULAR SPECIFICATIONS

### 1. GENERAL

- 1.1. The work shall be executed and measured as per metric dimensions given in the Schedule of quantities, drawings etc. (F.P.S. units wherever indicated are for guidance only).
- 1.2. (a) All stone aggregate and stone ballast shall be of hard stone variety to be obtained from approved quarries or any other source to be got approved from the Engineer-in-charge.
- 1.3. (b) Sand to be used for cement concrete work, mortar for masonry and plaster work shall be of standard quality and shall be obtained from the approved quarries or any other source to be got approved from the Engineer-in-charge and screened as required. The same shall consist of hard siliceous material. It shall be clean sand.
- 1.4. Unless otherwise specified in the schedule of quantities, the rate of all items of the work shall be considered as inclusive of pumping out or bailing out water, if required, for which no extra payment will be made. This will include water encountered from any source such as rains, floods, sub-soil water table being high or due to any other cause whatsoever.
- 1.5. All the materials required to be tested shall be tested as per provisions of the relevant I.S. Codes. Should there be any difference between acceptance CRITERIA given in I.S. Codes, C.P.W.D. specifications and special conditions, the acceptance CRITERIA shall be in the following order of precedence:
  1. Special conditions
  2. C.P.W.D. Specifications
  3. I.S. Codes
- 1.6. Royalty at the prevalent rates shall have to be paid by the contractor on all the building metals, shingle, sand and bajari etc. collected by him for the execution of the work, directly to the Revenue authority or authorised agent of the state Govt. concerned or Central Govt.
- 1.7. **All the materials, fixtures, fittings etc. shall be of the best quality and shall be of approved make and manufacture (wherever specified) as defined in the item of work or defined anywhere in this document otherwise shall be as mentioned in the CPWD specifications failing which the same shall be of ISI mark duly approved by the Engineer-In-Charge**
- 1.8. In case of any discrepancy between the schedule of Quantities, the Specifications and/ or the Drawingsetc. the following order of preference shall be observed:-
  - 1.8.1 Description of item nomenclature in the schedule of quantities.
  - 1.8.2 Particular specifications for Repair and Rehabilitation works (if applicable)
  - 1.8.3 Particular specifications.
  - 1.8.4 Additional and Special conditions.
  - 1.8.5 Contract Clauses of General conditions of contract for Central P.W.D. works.
  - 1.8.6 CPWD specifications as mentioned in Schedule 'F'.
  - 1.8.7 Architectural Drawings, if any.
  - 1.8.8 Indian Standard Specifications.
  - 1.8.9 Sound Engineering Practice.
- 1.9. **The words "Equivalent", "Approval" and authorized" in these specifications shall imply and require written approval of the Engineer-in-Charge.**



### **SPECIFICATIONS FOR MOORUM**

**1.10.** The contractor has to bring moorum required for filling under floors, from sources, approved by the Engineer-in-charge. The filling material shall be moorum obtained from pits of weathered disintegrated rocks free from organic matters and should preferably contain siliceous material and natural mixture of clay of calcareous origin. The size of moorum shall not be more than 20mm.

**1.11.** The moorum brought to site shall be directly used for filling and no claim for double handling shall be entertained. Filling shall be done in regular horizontal layers, each not exceeding 20 cm in depth. The moorum shall be free from all roots, grass and rubbish and all lumps and clods, if any, shall be broken. Each layer shall be consolidated by breaking clods, watering and ramming with steel rammers. The top surface of finally finished area shall be dressed.

**1.12.** Before filling is started in the area (under floors) contractor shall remove rank vegetation, grass, brushwood, shrubs and building rubbish etc. and nothing extra shall be paid for on this account.

### **2. BRICK WORK**

Bricks shall conform to C.P.W.D Specifications 2009 Vol. 1 and shall be of brick red colour, will give a ringing sound when struck and homogenous in formations, regular in shape and size.

The brick work shall be carried out with local first class bricks of crushing strength not less than 75 kg/cm<sup>2</sup> and conforming to class designation 75 as per CPWD specifications or as specified. The rates shall also include for leaving chases/notches for dowels/cramps for all kinds of come over brick work. All the work done upto plinth level will be measured and paid as foundation work upto plinth level. Nothing extra will be paid for higher plinth level.

Wherever cut brick (Marukona), as required under para 6.2.4.7 of C.P.W.D. Specifications 1 9 9 6 Vol.II, is not feasible, on account of available quality of bricks, the same shall be replaced by cement concrete 1:2:4 and no extra payment for the provisions of C.C. 1:2:4 shall be made nor would the quantity of C.C. 1:2:4 thus provided be deducted from measurements of brick work.

### **3. RCC WORK**

**3.1.** The steel bars shall be stored about 30 to 45 cm above ground. A uniform coat of cement wash shall be given to steel reinforcement bars. In places where rainfall is heavy, steel bars shall be stored in protective environment to mitigate deterioration due to corrosion. The cement for application of slurry on steel bars will be duly issued. However, no extra payment shall be payable for the application of slurry coating on steel bars.

**3.2.** The contractor shall provide approved type of supports 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, MS chairs and spacer bars shall be used in order to ensure accurate positioning of reinforcement. Spacer blocks shall be cast well in advance with approved proprietary pre-packed free flowing mortars (conbextra as manufactured by M/s Fosroc Chemicals India Ltd. or approved equivalent) of high early strength. Blocks of polymer shall not be used as spacer blocks unless specially approved by the Engineer-in-Charge. Rate of item of steel reinforcement is inclusive of cost of such cover blocks.

**3.3.** The cover blocks, wherever used, for proper cover & to avoid displacement of reinforcement bars shall be manufactured in factory nothing extra shall be paid for providing such cover blocks in the work.



- 3.4. Nothing extra shall be paid for the centering & shuttering circular in shape wherever the form work is having a mean radius exceeding 6m in plan.
- 3.5. The contractor shall necessarily use the surface vibrator for compaction of concrete in floor slab etc. for placement of concrete at various levels tower crane of appropriate size, capacity and boom length or concrete pump shall necessarily be deployed by the contractor. However, mechanical hoist can be used by the contractor for lifting other construction materials.
- 3.6. Steel shuttering shall be used in all the CC & RCC work.
4. **WOOD WORK**
- 4.1. Factory made shutter, as specified shall be obtained from factories to be approved by the Engineer-in-charge & shall conform to relevant Indian Standards. The contractor shall inform well in advance to the Engineer-in-charge, the names and address of the factory from which the contractor intends to get the shutters manufactured. The contractor will place order for manufacture of shutters only after written approval of the Engineer-in-charge in this regard is given. The contractor is bound to abide by the decision of the Engineer-in-charge & recommend a name of another factory from the approved list in case the factory already proposed by the contractor is not found competent to manufacture quality shutters. Shutters will, however, be accepted only if this meet the specified tests. The contractor will also arrange stage wise inspection of the shutters at factory to the Engineer-in-charge or his authorised representative. Contractor will have no claim if the shutters brought at site are rejected by Engineer-in-charge in part or in full lot due to bad workmanship and quality. Such shutters will not be measured & paid and the contractor shall remove the same from the site of work within **7 days** after the written instruction in this regard are issued by Engineer-in-charge or his authorised representative.
5. **STONE WORK:**
- The Stone aggregate/stone shall be brought from quarries as approved by the Engineer-in-charge. The materials shall however confirm to CPWD specifications.
6. **FLOORING, SKIRTING, VENEERING, DADO, RISERS & STEPS, JAMBS, SILLS & SOFFITS**
- 6.1. Nothing extra shall be payable for using combination of marble, granite, kota, sand stone slabs & ceramic tiles etc. in the required pattern at various locations.
- 6.2. Nothing extra will be paid for the additional thickness of bed mortar that will be required to achieve uniform finished surfaces on account of difference in specified thickness of marble, granite, Kota stone, sand stone & ceramic tiles etc.
- 6.3. Flooring in toilets, verandah, kitchen, courtyard etc. shall be laid to the required slope/gradient as per the directions of the Engineer-in-Charge.
- 6.4. The pattern, spacing and locations of joints shall be as per drawings and direction of the Engineer-in-Charge.
- 6.5. Samples of flooring marbles/stones/granites 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.
- 6.6. The sample shall not be of size less than 600 mm x 600 mm or as decided by the Engineer-in-charge
- 6.7. The samples shall be fully supported by the details of the quarry and location.
- 6.8. The contractor shall use necessary pigments to match the colour of the marble with pointing/jointing. The pigments shall be got approved, from the Engineer in Charge prior to commencement of flooring item.

**6.9. 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 Granite/marble stone flooring in treads and risers of stair case is to be laid in single piece. Nothing extra shall be paid on these accounts.**

**6.10. The measurement shall be made for finished work of flooring.**

**6.11. VITRIFIED PORCELAIN TILES (ANTI SKID)**

The tiles shall be Anti-skid unpolished / matt finished and shall be of approved make and pattern/ design / colour. Dimensional and surface quality requirements and physical and chemical properties shall be as follows:-

6.11.1	Deviation in length & width of each tile from the prescribed	± 0.5%
6.11.2	Deviation in length & width of each tile from the average size of 10 test specimens	± 0.75%
6.11.3	Deviation in thickness of each tile from the prescribed thickness	± 5%
6.11.4	Straightness of sides (Facial sides) related to prescribed sizes	± 0.5%
6.11.5	Rectangularity related to prescribed size	± 0.6%
6.11.6	Surface Flatness	
6.11.6.1	Centre curvature related to diagonal calculated from prescribed size	± 0.5%
6.11.6.2	Edge curvature related to prescribed size	± 0.5%
6.11.6.3	Warpage related to diagonal calculated from prescribed size	± 0.5%
6.11.7	Surface Quality	Minimum 95% of tiles shall be free from visible defects that would impair the appearance of a major area of tiles.
6.11.8	Water absorption by weight	Less than or equal to 3% average & max. 3.3% for individual tile
6.11.9	Modulus of Rupture	Min. 300 Kg/cm <sup>2</sup>
6.11.10	Scratch hardness (Moh's scale)	Equal to or more than 6
6.11.11	Abrasion resistance	Less than or equal to 205mm <sup>3</sup>
6.11.12	Thermal shock resistance	Resistance to 10 cycles
6.11.13	Co-eff of thermal expansion from ambient temp. to 100 <sup>o</sup> C(K <sup>-1</sup> )	Max 9 x 10 <sup>-6</sup>
6.11.14	Resistance to staining of glazed size	Min. Class 2

**6.12. The sampling of tiles for various test shall be as per IS – 13711.**

6.12.1 The tests shall be carried out as per provisions of IS 13630 (Pt 1 13).

**6.13. Preparation of surface & laying**

Base concrete or the RCC slab on which the tiles are to be laid shall be cleaned wetted & mopped. The bedding mortar shall be as specified in the item of the work. Mortar and tiles shall be laid as per CPWD Specifications 2009, Volume I & II. (with upto date correction slips).

**6.14. The pointing & finishing of tiles shall be as per CPWD Specifications 2009, Volume I & II. (with upto date correction slips)..**

**6.15. The measurements shall be as per CPWD Specifications 2009, Volume I & II. (with upto date correction slips), except that the glazed tiles mentioned therein shall mean ceramic glazed tiles.**

**6.16. The rate shall include the cost of all materials and labour involved in all the operations. Nothing extra shall be paid for use of cut (sawn) tiles in the work.**

**7. STEEL WORK**

**7.1.** The standard sectional weights referred in CPWD Specifications 2009 Vol. I & II (with upto date correction slips ) shall be considered for conversion of length of various sizes of Mild Steel/CTD/TMT bars into weight .

However, the average sectional weight of each diameter shall be arrived on the basis of samples of each lot from steel received at site. In case the actual weight of steel is less than the standard co efficient given in CPWD Specification but is within the tolerance limit of acceptance, the same (actual weight) shall be taken into account for working out the variations between the actual and standard co efficient & contractor shall be paid for the actual weight of steel in this case.

However, nothing extra shall be payable in case the actual weight of steel is more than the standard coefficient mentioned above .

**7.2.** The rate of Tee / L iron frame shall include the cost of materials & labour of the following.

(a) M.S. tie of 10 mm dia. bar shall be welded to M.S. frames at the bottom to keep the frames in correct position. The tie shall be embedded in floor concrete. No tie shall be necessary for window frames.

(b) M.S. frame for doors shall have 4 Nos. M.S. lugs 15 x 3 mm., 10 cm long, welded to each vertical member of the frame , if not otherwise mentioned elsewhere.

(c) The M.S. plate cramps 15 x 6 mm thick for holding arrangements shall be provided and welded as per site conditions, if not otherwise mentioned elsewhere.

(d) All welded steel work shall be tested for quality of weld as laid down in IS 822 before actual erection.

**7.3. Door shutters frames of M.S. tube.**

**7.3.1** The M.S. Tube shall be hot fusion welded type of steel grade ST 32. The door shutter frames shall be factory manufactured as per drawings & specifications unless otherwise specified.

**7.3.2** Vertical styles, top rail and bottom rail shall be of size 25 mm x 50mm of tube thickness 1.25mm, unless otherwise specified.

**7.3.3** Lock rail shall be of size 25 x 75mm of tube thickness 1.25mm , unless otherwise specified.

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7.3.4 The shutter frames shall be made of tubes which have been cut to length & mitered. The corners shall be welded to form a solid fused welded joint conforming the requirements of the CPWD Specifications 2009, Volume I & II. (with upto date correction slips). The process of welding shall be flash butt welding.

7.3.5 Actual size of shutter frame shall not vary by more than + 2mm than those shown in drawings.

7.3.6 Necessary holes and slots for hinges & fittings shall be made.

7.3.7 Priming coat of red oxide zinc chrome primer conforming to I.S. 2074-1979 shall be given.

7.3.8 Before priming coat the steel surface shall be thoroughly cleaned of rust, scale & dust.

7.3.9 The door shutter frame shall be measured in running metre, along the centre line of the frame correct to a 1 mm & weight calculated according to standard tables. No deduction or extra payment shall be made for making holes/slots and making arrangements for fixing fittings.

7.3.10 The rate includes cost of material and labour involved in all the operations described above.

#### **7.4. M.S. Sheet Door**

7.4.1 M.S. Sheet and the welding shall be as per CPWD Specifications 2009, Volume I & II. (with upto date correction slips). The M.S. Sheet on each face shall be in each piece. No joints in M.S. Sheets shall be permitted. The doors shall be factory manufactured as per drawings & specifications.

7.4.2 The M.S. Sheet shall be cut to size and welded to the M.S. Tube door shutter frames at the junctions. Tack welds 1 cm long @ 30 cm c/c shall be provided to each junction of M.S. Sheet & M.S. Tube vertical styles & horizontal rails. Tack welds between lock rail of M.S. tube shutter frame & the outer M.S. Sheet shall be provided before welding the inner sheet to the door shutter frame.

7.4.3 Necessary slots for providing 1 cm long tack welds between lock rail of M.S. tube door shutter & inner M.S. Sheet shall be made in the M.S. Sheet and tack welds provided.

7.4.4 2 cm tack welds shall be provided at each corner in addition to the 1 cm tack welds specified. in

7.4.5 Painting shall be as per CPWD Specifications 2009, Volume I & II. (with upto date correction slips)

7.4.6 Necessary holes/slots/arrangements for fittings shall be made.

7.4.7 Measurements shall be as per CPWD Specifications 2009, Volume I & II. (with upto date correction slips)

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

#### **8. FIXING OF SCI/CI PIPE**

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

#### **9. ACRYLIC BASED TEXTURE PAINT**

9.1. The acrylic based texture paint shall be of make, composition, texture and shade as per item of work and as approved by the Engineer-in-charge.

9.2. The surface on which the paint is to be applied shall be smooth, regular and free from dust etc. Undulations, broken edges, minor imperfections and irregularities shall be rectified as specified by manufacturer and approved by Engineer-in-charge so as to make the surface smooth and regular.

9.3. The texture paint shall be applied in a single coat on the surface as per specifications of the manufacturer. During application, the surface should be well

protected from strong winds, hot sun and cold weather. Adequate arrangement in this regard shall be made by the contractor.

- 9.4. The film thickness shall be 1.5 to 2 mm. The consumption rate of the texture paint for film thickness of 1.5 to 2 mm shall be average 2.5 kg / sqm.
- 9.5. Specifications in respect of scaffolding, protective measures, measurement and rate shall be as CPWD Specifications 2009 (with upto date correction slips).

#### **9.6. GUARANTEE FOR ACRYLIC SMOOTH EXTERIOR PAINT**

The contractor shall give two years performance guarantee in the prescribed proforma (specimen appended) for the acrylic smooth exterior paint. In addition 2% (two percent) of the cost of these items shall be retained as security, to watch the performance of the work executed. However, this amount (withheld) shall be released after two years, after the completion of the work, if no defect comes to the notice. If any defect is noticed during the guarantee period, it shall be rectified by the contractor within Seven days and, if not attended to, the same shall be got done by other agency at the risk and cost of the contractor. In any case the guaranteeing firms during the guarantee period shall inspect and examine the surface once every year and make good any defect observed. However, the 2 % security deposit referred above can be replaced with bank guarantee of equivalent amount for relevant period.

#### **10. EMBEDDING OF PIPES, CONDUITS ETC.**

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

#### **11. PAINT BROUGHT BY THE CONTRACTOR**

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

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**ANNEXURE-I**

**GUARANTEE TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF ACRYLIC EXTERNAL PAINTING WORK**

The Agreement made this .....day of .....two thousand and ..... between .....son of ..... Of ..... (hereinafter called the Guarantor of the part) and the PRESIDENT OF INDIA (HEREINAFTER CALLED Government of the other part).

WHEREAS this agreement is supplementary to a contract (hereinafter called the Contract) dated .....and made between the GUARANTOR of the one part and the Government of the other part, whereby the contractor inter-alia, undertook to render the work in the said contract recited structurally stable workmanship, finishing and use of sound materials.

AND WHEREAS GUARANTOR agreed to agreed to a guarantee to the effect that the said structures will remain structurally stable and guaranteed against faulty workmanship, finishing, manufacturing defects of materials and leakages, etc.

NOW THE GUARANTOR hereby guarantee that the work executed by him will remain structurally stable after the expiry of maintenance period prescribed in the contract for the minimum life of two years to be reckoned from the date after the expiry of maintenance period prescribed in the contract.

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

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

That if the guarantor fails to make good all the defects, commits breach there under, then the guarantor will indemnify the principal and his successor against all loss, damage, cost expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Government, the decision of the Engineer-In-Charge will be final and binding on both the parties.

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

Signed, sealed and delivered by OBLIGOR in the presence of-

1.

Signed for and on behalf of THE PRESIDENT OF INDIA by .....in the presence of ----

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## **12. INTEGRAL CEMENT BASED WATER PROOFING TREATMENT**

- 12.1.1 The proprietary waterproofing compound shall preferably bear ISI mark or shall conform to I.S. 2 6 4 5 (upto date amendments) Water proofing compound shall be brought to site prior to commencement of work, from which random sample would be got tested to ascertain its conformity to the relevant I.S. code. The proprietary waterproofing compound shall be added at the rate recommended by the manufacturing firm, but not exceeding 3 percent by weight of cement. Water proofing compound shall be kept under double lock and key & record of its issue shall be kept in the same manner as for issue of cement.
- 12.1.2 While doing treatment of roof surface, it shall be ensured that the outlet drain pipes have been fixed and mouths at the entrance have been eased and rounded off properly for easy flow of water.
- 12.1.3 The surface where the waterproofing is to be done, shall be thoroughly cleaned with wire brushes. All loose scales shall be removed and dusted off. The surface shall be treated with neat cement slurry admixed with proprietary water proofing compound, to penetrate into crevices and fill up all the pores in the surface. This cement slurry shall also be applied at the junction of parapet and terrace slab including the vertical face of the parapet.
- 12.1.4 After the slurry coat is laid, layer of well burnt brick bats shall be laid to required gradient and joints filled to half the depth, in cement mortar of mix as specified by the manufacturing firm, but not leaner than 1:5 (1 cement : 5 coarse sand) duly admixed with proprietary waterproofing compound. The brickbat layer shall be rounded at the junction with parapet and merged with the treatment to be provided on the parapet up to 300mm. height. Curing of this layer shall be done for 3 days.
- 12.1.5 After curing, the surfaces shall be applied with a coat of cement slurry admixed with proprietary water proofing compound.
- 12.1.6 Joints of brick bats layer shall be filled fully with cement mortar of mix as specified by the specialist firm but not leaner than 1:4 (1 cement: 4 coarse sand) admixed with proprietary water proofing compound and finally top finished with average 20 mm thick layer of same mortar and finished smooth with cement slurry admixed with proprietary water proofing compound. The finished surface shall have marking of 300 x 300 mm false squares
- 12.1.7 Curing of water proofing treatment, thus completed, shall be done for a minimum period of ten days.
- 12.1.8 The finished surface, after water proofing treatment, shall have minimum slope of 1 in 80. At no point, shall the thickness of water proofing treatment, be less than 65 mm.
- 12.1.9 The measurements shall be taken along the finished surface of treatment including the rounded and tapered portion at junction of parapet wall. Length and breadth shall be measured correct to one centimeter and area shall be worked out to nearest 0.01 sqm. No deduction in measurements shall be made for either openings or recesses for chimneys, stacks, roof lights and the like for areas up to 0.40 sqm. Nothing extra shall be paid, for forming such openings. For similar areas exceeding 0.40 sqm deductions shall be made in measurements for full openings and nothing extra shall be paid for making such openings.
- 12.1.10 The rate shall include the cost of all labour and materials involved in all the operations described above.

**12.1.11 GUARANTEE BOND FOR WATER PROOFING WORK:**

- (a) Five Years Guarantee bond in prescribed Performa shall be submitted by the contractor which shall also be signed by both the specialized agency and the contractor to meet their liability/liabilities under the guarantee bond. However, the sole responsibility about performance/efficiency of water proofing treatment shall rest with the building contractor.
- (b) 10 % of the cost shall be retained as security deposit for water proofing work in addition to normal security deposit and the amount so withheld would be released as (i) 50% of this amount would be released after two monsoon seasons after completion of work, if the performance of the work done is satisfactory. and (ii) Balance 50% amount would released after five years from the date of completion of the entire work under the agreement if the performance of the work done is found satisfactory. If any defect is noticed during the guarantee period, it shall be rectified by the contractor within seven days of receipt of information of defects in the work. If the defects pointed out are not attended to within the specified period, the same will be got done from another agency at the risk and cost of contractor.
- (c) However, the security deposit deducted may be released in full against bank guarantee of equivalent amount in favour of Engineer-in-Charge, if so decided by the Engineer-in-Charge. The security deposit against this item of work shall be in addition to the security deposit mentioned elsewhere in contract form.

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**ANNEXURE-II**

**GUARANTEE TO BE EXECUTED BY CONTRACTORS FOR REMOVAL OF DEFECTS**

**AFTER COMPLETION IN RESPECT OF WATER PROOFING WORKS**

The Agreement made this .....day of .....two thousand and ..... between .....son of ..... Of ..... (here in after called the Guarantor of the part) and the PRESIDENT OF INDIA (HEREINAFTER CALLED Government of the other part).

WHEREAS this agreement is supplementary to a contract (hereinafter called the Contract) dated .....and made between the GUARANTOR of the one part and the Government of the other part, whereby the Contractor inter alia, undertook to render the building and structures in the said contract recited completely water and leak-proof.

AND WHEREAS GUARANTOR agreed to agreed to a guarantee to the effect that the said structures will remain water and lead-proof for five years from the date of giving of water proofing treatment.

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

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

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

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

The GUARANTOR fails to execute the water proofing or commits breach there under then the GUARANTOR will indemnify the Principle and his successors against all loss, damage, cost, expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Government the decision of the Engineer-in-Charge will be final and binding on the parties.

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

Signed, sealed and delivered by OBLIGOR in the presence of-

- 1.
- 2.

Signed for and on behalf of THE PRESIDENT OF INDIA by .....in the presence of ----

- 1
- 2.

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## LIST OF APPROVED MAKE OF MATERIALS (FOR CIVIL WORKS)

Specification/brands names if materials (Refer materials, whichever are applicable for the scope of work) and finishes approved by the **Architect/Engineer-in-Charge** are List below. However approved equivalent material and finishes of any other specialized firms may be used, in case it is established that the brands specified below are not available in the market and subject to approval of the alternate brand by the **Architect/Engineer-in-Charge**. (See also condition of contract).

Sl. No.	Materials	Approved make
1.	Poly-Sulphide Sealent	Pidilite, Tuffseal, Choksey Chemicals
2.	Damp Proof Material	Impermo, Duraseal, Acco-Proof
3.	Structural Steel, Sections	Tata, Sail, RINL
4.	Admixture	Forsroc, MC, Choksey Chemicals
5.	White Cement	J.K. White, Birla White
6.	Water Proofing Compound	Tap Crete, CICO, Accoproof, Impermo, Choksey
7.	Bitumen	Indian Oil, Hindustan Petroleum
8.	Injection Grouting	Pidilite (Dr Fixit)
9.	Nonmetallic Surface Hardner	MC Deritop F.H., Choksey Chemicals
10.	Locks/Latch	Godrej, Harrison, Plaza, Golden, Yale
11.	Laminates	Formica, Decolam, Merino
12.	Wire Mesh	Sterling Enterprises, Trimurty Welded Mesh
13.	Prelaminated Particle Board	NOVOPAN, KITLAM, ARCHID PLY
14.	Adhesive	Pidilite, Dunlop, Vamorganic
15.	Epoxy Mortar	Fosroc, Sika
16.	Dash Fastners	Hilti, Fisher, Canon,
17.	Flush Door Shutters (Decorative/ Non	Kitlam, National, Swastic, Corbett
18.	Board & Plywood	DURO, KITPLY, CENTURY
19.	Hydraulic Door Closer/Floor Spring	Hardwyn, Godrej
20.	Wooden Door Fittings of Brushed Steel	B & R Dorma
21.	S.S. Staircase Railing	CONNECT ARCHITECTURAL PRODUCTS PVT.LTD, JINDAL STAINLESS STEEL LTD., ICH INDUSTRIES, ESSAL
22.	Fire Check Door	Romat, Kutty Door
23.	Fire Check Accessories Calcium Silicon	Fromtect
24.	Smoke Seal Strip	Imported Promat/Astro Flame
25.	Door Closer Lock	Ingerboll Rand/Dorma, Hardwyn, Everest



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26.	Panic Exit Device	Ingerrsol, Hardwyn, Everest
27.	Andodised Aluninium Hardware (Heavy	Hardima, Everite, Sigma (ISI Marked)
28	Tempered Glass	Modi Float & Saint Gobain, ASAHI, Glaverbel
29	Polyster Powder Coating Shades	Nerolac, Berger, J & N
30	Aluminium Sections	Jindal, Hindaloc, Indalco
31	Friction Stay Hinges	Earl-Bihari
32	Nuts, Bolts and Screws, Steel	Kundan, Priya, Atul
33	EPDM Gasket	Hanu/Anand
34	Structural Silicone	Dow Corning/Wacker
35	Weather Silicone	Dow Corning/Wacker, Choksey Chemicals
36	Adhesive Tape	Norton
37	Terrazzo Tiles (Precast)/Plain/ Chequerred	NITCO, HINDUSTAN, MODERN
38	Glazed Ceramic Tiles	JOHNSON, SOMANY, KAJARIA, BELL CERAMICS, NITCO, ORIENT.
39	Cement Concrete Tiles/Hardonite Tiles	NITCO, NTC, HINDUSTAN, Poddar
40	Vitrified Tiles	GRANITO, NAVIN DIAMOND, KAJARIA, JOHNSON (MARBONITE), Decolite ( Granolite)
41	Tile Adhesive <sup>70</sup> .	CICO, PIDLITE, FERROUS, Choksey Chemicals
42	Clay Tiles on Roof	KENZAI, JOHNSION
43	C.C. Pavers	NITCO-(ROCKARD), TUFTEK, K.K, ESS&ESS, MODERN
44	Acrylic Emulsion Paint	SNOWCEM, ASIAN, ICI, NEROLAC, BERGER, SHALIMAR
45	Grass Paver	Unistone, Ultra, Shree, Supertile, Modern
46	Water-Proof Cement Paint	Snowcem, Kilicknixon, Durocem, Berger, ICI India
47	Synthetic Enamel Paint	Berger, Nerolac, Asian, ICI India Ltd., Shalimar
48	Plastic Emulsion Paint	Berger, Nerolac, ICI India Ltd., Shalimar
49	Vitreous China Sanitaryware	Parryware, Hindware, CERA
50	Fireclay Sinks & Drain Boards	Parry, Sunfire
51	Stainless Steel Sinks	Nilkanth, AMC, Cobra, Jayana
52	C.P. Brass Fittings	Jaquar, Marc, Kingston
53	Soil, Waste & Vents Pipes & Fittings A) Centrifugal Cast Iron	Neco, RIF
54	LA (CI) Pipes	RIF, Neco
55	G.I. Pipes	Tata, Jindal – Hissar



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**DOORDARSHAN BHAWAN, KOLKATA**



56	G.I. Fittings (Malleable Cast Iron)	Unik, ICS
57	Gunmetal Valves	Leader, Sant, Zoloto
58	Stone Ware Pipe & Gully Traps	Perfect, Parry
59	R.C.C. Pipes-(NP-2)	Lakshmi, Sood & Sood, Jain & Co.
60	MS Pipe	Kesoram, Electro Steel
61	C.I. Double Flanged Sluice Valves	Kirloskar, IVS, Burn
62	C.I. Double Flanged Non Return Valves	Kirloskar
63	C.I. Manholes Covers	B.C. RIF
64	Upvc Pipe	Supreme, Prince, Finolex
65	Copper Tubes/Pipes	Rajco, Max Flow ABC
66	Copper Fittings	Yorkshine, IBP, Bconex
67	Ball Valves	Zoloto, IBP, Arco
68	Butterfly Valves	Audco
69	Unglazed Vitrified Tiles	Johnson – (Endura), Somany – (Dura Stone), Regency – (Tiles)
70.	Spider Fittings	Dorma, Sevax
71.	Mineral Fibre False Ceiling	Armstrong or Equivalent as per Relevant Is Codes
72.	APP	Roflex, STP, Dermabit
73.	PE-AL-PE PIPES & FITTINGS	JINDAL, SUPREME
74.	PVC/SINTHETIC WATER TANK	SINTEX, UNIPLAST
75.	SELF CLOSING PILLAR TAPS	JAQUAR
76.	HOT WATER INSULATION	GLASS WOOL/ MINERAL WOOL
77.	ELASTOMERIC SLEEVE	UP TWIGA / ROCKLLOYD
78.	BEVELLED EDGE MIRROR	ATUL/SAINT GOBAIN/MODI
79.	ROLLING SHUTTERS	RAMA ROLLING SHUTTERS / JOYTI ROLLING SHUTTERS / ANAND INDUSTRIES
80.	WALL PUTTY	BIRLA, J.K, BERGER, SHALIMAR
81.	DRAPERY ROD, VENETIAN BLINDS	MAC, VISTA
82.	RMC	ACC, Unitech, Ultra Tech (Birla) and L&T
83.	PTMT Fittings	Prayag, Shakti

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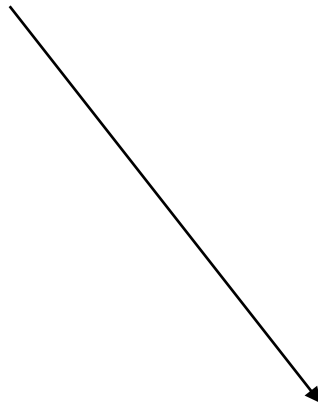
**SCHEDULE OF QUANTITY**

Name of Work : A/R & M/O at SRFTI, Kolkata for the year 2024-2025 for phase -I & II.  
Sub Head : Day to Day complete maintenance of office and residential Complex for a period of 12 months.

Sl. Nos.	Description of items	Qty.	Unit	Rate in figures	Rate in words	Amount
1	Engaging Manpower of 01 no. skilled, 04 nos. semi-skilled, 02 nos. un-skilled standard for day to day complete maintenance of entire technical, office and residential blocks of S.R.F.T.I. Such as cleaning of G.I, CPVC & UPVC pipe line (internal and external), complete overhauling and servicing of all existing flushing cisterns, stop cocks, pillar taps, bib cocks and other fittings related to water supply line, cleaning of chocked W.C pan, all types of traps, etc. including toilet cleaner, repairing of floor, walls & Tools required such as safety belt,Coir rope, varieties types of wrench,screw driver, etc. as per direction of Engineer-in-charge.(fittings will be supplied by the department)					
	(a) <b>Skilled labourer (01 No.)</b> Maximum 01 Person to be engaged and rate to be quoted per person per day.	310.00	Day			
	(b) <b>Semi-skilled labourer (04 Nos.)</b> Maximum 04 Persons to be engaged and rate to be quoted per person per day.	1240.00	Day			
	(c) <b>Un-skilled labourer (02 Nos.)</b> Maximum 02 Persons to be engaged and rate to be quoted per person per day.	620.00	Day			
					Total	

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CIVIL CONSTRUCTION WING: ALL INDIA RADIO  
OFFICE OF SUPERINTENDING ENGINEER(CIVIL)  
DOORDARSHAN BHAWAN, KOLKATA



## **TERMS AND CONDITIONS**

I)	All Tools & Plants i/c cutting blade for mechanical grass cutter, brush cutter, lawn mower etc .and maintenance of the same will be arranged by the agency.
II)	Labourer must worn uniform during duty hours. (The agency shall arrange two sets of Uniforms including Shoes, Rain Coat, Caps etc.and washing allowance).
III)	The labours to be engaged for maximum 26 (Twenty Six) days in a month. For absence of Labourer from duty on working days, the agency will arrange substitute labourer, if failed to arrange substitute labourer, amount of wages including 1% W.C and 15% C.P& O.H. shall be deducted from the agency's bill
IV)	Provision of First AID shall be arranged by the agency at site.
V)	The bonus shall be paid to the eligible worker (whose salary not exceeding Rs. 21000.00 per month) by the agency @ <b>Rs. 583.00</b> per person per month (FIXED).
VI)	Agency should maintain the EPF & ESI A/C as per applicable rule against each labourer. They should submit EPF & ESI deposition receipt of engaged labourers to the department on actual basis of the employer's contributed portion for reimbursement.
VII)	The wages of labourer, if changed in between contract period as per the order of the Chief Labour Welfare Commissioner(C), New Delhi, the difference of payment shall be reimbursed after producing valid documents including C.P&O.H as applicable.
VIII)	The Quoted Rate shall be inclusive of all taxes and GST, as applicable and no extra payment due to such is admissible.
IX)	If the agency fails to provide the fuel for the purpose of running of machines, manures, pesticides and maintenance of tools & plants etc. the matter will take up by the department and necessary expenditures will be deducted from the bill of agency..
X)	Engaged Semi-skilled and Un-skilled labourers shall be paid wages as per the order of the chief labour welfare commissioner ( C ),New Delhi as applicable at the time of tender.
XI)	The wages of the labourer shall be paid within the first week of every month.
XII)	The Security Deposit will be released immediately after completion of work on production of deposition receipt of EPF and ESI against each engaged labourer . <b>The Assistant Engineer (Civil) will certify the Agency in this regard that "The work has been completed in all respect and all clearances has been made by the Agency, there is no outstanding in respect of wages / Bonus / EPF / ESI of any engaged labourer related of this work".</b>

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