



GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

ORIGINAL NIT

No.-28/NIT/EE-Silchar/CPWD/2023-24

FOR

**Construction of Parents room with sanitary installation of
JNV Pailapool, Cachar, Assam.**

Issued by

EXECUTIVE ENGINEER
CENTRAL PUBLIC WORKS DEPARTMENT
KENDRIYA SADAN, CHIRUKANDI ROAD,
SILCHAR-788003

GOVERNMENT OF INDIA
EXECUTIVE ENGINEER
CENTRAL PUBLIC WORKS DEPARTMENT
Ram Nagar, Chirukandi Road, Silchar-788003
NOTICE INVITING TENDER

ORIGINAL NIT NO.-
28/NIT/EE-Silchar/CPWD/2023-24.

| | |
|--|---|
| Name of work: | Construction of Parents room with sanitary installation of JNV Pailapool, Cachar, Assam. |
| Estimated Cost | : ₹ 19,54,692.00(civil=₹16,61,728.00& Electrical=₹2,92,964.00) |
| Earnest Money | : ₹ 39,094.00 |
| Performance Guarantee | : 5% of Tendered value. |
| Security Deposit | : 2.5% of tendered Value. |
| Completion Period | : 5(Five) Months. |
| NIT No. | : 28/NIT/EE-Silchar/CPWD/2023-24. |
| LAST DATE FOR SUBMISSION OF PRE-BID QUERRIES | : Up to 3.00 pm on dated: 08.03.2024 |
| LAST DATE FOR SUBMISSION OF BID DOCUMENT | : Up to 3.00 pm on dated: 11.03.2024 |

**Name of work:- Construction of Parents room with sanitary installation of JNV
Pailapool, Cachar, Assam.**

I N D E X

| S. No. | Details | Page No. |
|---------------|---|-----------------|
| 1. | Cover page | 1 |
| 2. | Tender Document | 2 |
| 3. | Index | 3 |
| 4. | Press notice inviting e- tender | 4 |
| 5. | Information and Instructions for Contractors for E-Tendering | 5-7 |
| 6. | Proforma for Earnest Money Deposit Declaration | 8 |
| 7. | Part “A” | 9 |
| 8. | CPWD - 6 for e-Tendering | 10-16 |
| 9. | Integrity Agreement | 17-23 |
| 10. | CPWD – 7, Percentage Rate Tender & Contract for Works | 24-26 |
| 11. | Amendments to GCC 2023 for Construction Works | 27 |
| 12. | Performance Guarantee | 28 |
| 13. | Form of Bank Guarantee for Performance Guarantee / Security Deposit / Mobilization advance | 29-30 |
| 14. | Part “B” | 31 |
| 15. | Schedule A to F (Civil Work) | 32-37 |
| 16. | General Conditions | 38-41 |
| 17. | Additional Conditions | 42-45 |
| 18. | Special Conditions to comply directives of Hon'ble National Green Tribunal and EIA Guidance Manual | 46 |
| 19. | Special Conditions | 47-65 |
| 20. | Particular Specification | 66 |
| 21. | Special Conditions for Cement | 67 |
| 22. | Special Condition for Steel | 68-69 |
| 23. | Contract for removal of defects after completion in respect of water proofing works | 70 |
| 24. | To be executed by the contractor for removal of defects after completion in respect of aluminium doors, windows ventilators, structural glazing & PVDF coated aluminium composite panel works | 71 |
| 25. | List of machinery, T&P to be deployed | 72 |
| 26. | List of Preferred Materials (Civil Works) | 73-75 |
| 27. | Schedule of quantities for Civil Works | 76-88 |
| 28. | Part “C” | 89 |
| 29. | Schedule A to F (Electrical Work) | 90-95 |
| 30. | General Commercial/Technical Conditions. | 96-102 |
| 31. | Technical Condition for electrical work/installations | 103-105 |
| 32. | List of approved makes of material for electric works | 106-107 |
| 33. | Schedule of quantities for Electrical Works | 108-111 |
| 34. | Part “D”- | 112 |
| 35. | Proforma for quotating tender percentage | 113 |

PRESS NOTICE INVITING e-TENDERS**CENTRAL PUBLIC WORKS DEPARTMENT**

The Executive Engineer, Silchar, CPWD, Silchar, Assam invites for & on Behalf of the President of India online percentage rate bids from CPWD enlisted contractors Of appropriate class in **Composite Category** for the following work through e-procurement solution:

| | | |
|---|---|---|
| NIT No. | : | 28/NIT/EE-Silchar/CPWD/2023-24. |
| Name of work | : | Construction of Parents room with sanitary installation of JNV Pailapool, Cachar, Assam. |
| Estimated Cost | : | ₹ 19,54,692.00(civil=₹16,61,728.00& Electrical=₹2,92,964.00) |
| Time of Completion | : | 5(Five) Months. |
| Earnest Money | : | ₹ 39,094.00 |
| Last time and date of submission of bid | : | Up to 3:00 pm on dated:-11.03.2024 |

The bid forms and other details can be obtained from the website

<https://etender.cpwd.gov.in>The press notice is also available on www.eprocure.gov.in

INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e-TENDERING FORMING PART OF NIT

The Executive Engineer, Silchar, CPWD, Silchar, Assam invites on behalf of The President of India online percentage rate bids from CPWD enlisted contractors of Appropriate class in Composite category work category for the following work through e-procurement solution:-

| Sl. No. | NIT No. | Name of work & Location | Estimated cost put to bid | Earnest Money | Period of completion | Last date & time for submission of bids, original EMD or a copy of receipt for deposition of original EMD in any other CPWD division | Date & Time of opening of bid |
|---------|---------------------------------|--|--|---------------|----------------------|--|-------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1. | 28/NIT/EE-Silchar/CPWD/2023-24. | Construction of Parents room with sanitary installation of JNV Pailapool, Cachar, Assam. | ₹ 19,54,692.00(civil=₹16,61,728.00& Electrical=₹2,92,964.00) | ₹39,094.00 | 5(Five) Months. | upto 3.00 PM on dated:-11.03.2024 | onward 3.30 PM on dated:-11.03.2024 |

INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e-TENDERING

1. Information and instructions for Contractors will form part of NIT and to be uploaded on ITI website.
2. Earnest Money can be paid in the form of Treasury Challan or Demand Draft or Pay order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt drawn in favour of **The Executive Engineer, Silchar Central Division, CPWD, Chirukandi Road, Ramnagar-788003, phone no-03842-268817, Email id-nez2eescd.cpwd@nic.in** along with bank guarantee of any scheduled bank wherever applicable.

A part of earnest money is acceptable in the form of bank guarantee also. In such case, 50% of earnest money or ₹ 20 lakhs, whichever is less, will have to be deposited in shape prescribed above and balance in shape of Bank Guarantee of any scheduled bank. The intending bidder has to fill all the details such as Banker's name, Demand Draft/Fixed Deposit Receipt/Pay Order/Banker's Cheque/Bank Guarantee number, amount and date.

The amount of EMD can be paid by multiple Demand Draft / Pay Order / Banker's Cheque / Deposit at call receipt / Fixed Deposit Receipts along with multiple Bank Guarantee of any Scheduled Bank if EMD is also acceptable in the form of Bank Guarantee.

3. 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.
4. On opening date, the contractor can login and see the bid opening process. After opening of bids, he will receive the competitor bid sheets.
5. **Contractor can upload documents in the form of JPG format and PDF format.**
6. It is mandatory to fill details / upload scanned copies of all the documents such as **GST** registration as stipulated in the bid document. If such document is not uploaded his bid will become invalid and cost of bid document & processing fee shall not be refunded.
7. If the contractor is found ineligible after opening of bids, his bid shall become invalid and Cost of bid document and processing fee shall not be refunded.
8. If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the contractor the bid shall become invalid and cost of bid document and processing fee shall not be refunded.
9. The Bid submitted shall become invalid if:-
 - i) The bidder is found ineligible.
 - ii) The bidder does not Deposit original EMD with Division Office of any Executive Engineer, CPWD (The EMD document is issued from the place in which the office of receiving Division Office is situated).
 - iii) The bidder does not upload all the documents (including GST registration) as stipulated in the bid document.
 - iv) Certificate of Registration for GST and acknowledgement of upto date filed return as per NIT stipulation.
 - v) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest tenderer in the office of tender opening authority.
10. If a bidder 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 bid, the bid shall be treated as invalid and will not be considered as lowest bidder.
11. The Eligibility criteria documents shall be opened first on due date and time. The time and date of opening of technical cum commercial and financial bid of the bidders qualifying the eligibility criteria shall be communicated to them at the later stage.
12. It is mandatory to upload scanned copies of all documents including GST registration if these documents are not uploaded, then bid will become invalid and summarily be rejected.
13. After submission of the bid the agency can re-submit revised bid any number of times but before last time and date of submission of bid as notified.

1. The intending bidder must read the terms and conditions of **CPWD-6** carefully. The intending bidder should submit his/their bid only if she/he/they considers himself/themselves eligible and she/he/they is/are in possession of all the documents required.
2. Information and instructions, for bidders posted on website shall form part of bid documents.
3. Bid documents consisting of plans, specifications, schedule of quantities of various types of items of works to be executed and set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <https://etender.cpwd.gov.in> free of cost.
4. Bid can be submitted only after
 - (i) Uploading the mandatory scanned documents such as Demand Draft or Pay order or Banker's Cheque or Deposit at call Receipt or Fixed Deposit Receipts and Bank Guarantee of any Scheduled Bank towards EMD drawn in favour of **The Executive Engineer, Silchar Central Division, CPWD, Chirukandi Road, Ramnagar-788003, phoneno-03842-268817, Email id- nez2eescd.cpwd@nic.in, or receipt of deposition of EMD and;**
 - (ii) Other documents as specified in the NIT.
5. **The intending bidder must have valid Class-III digital signature to submit the bid.**
6. On opening date, the contractor can login and see the bid opening process. After opening of bids, he will receive the competitor bid sheets.
7. Contractor can upload documents in the form of **JPG** format and **PDF** format.
8. In case of e-tendering, integrity Pact shall be treated in the same manner as other components of the bid document. In e-tendering, the intending bidder does not sign any documents physically and entire bid document is submitted through digital signature. Since Integrity pact is a part of bid document no separate physical submission is required with other documents to be submitted in the office of tender opening authority. In addition to other component of bid document, the integrity pact shall also be signed between Executive Engineer & successful bidder after acceptance of bid.
9. The department reserves the right to reject any prospective Applications/ bids without assigning any reason thereof and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids/applications satisfying the laid down criteria are received.
10. **List of documents to be scanned and uploaded within the period of bid submission.**

| | |
|----|--|
| 1. | Treasury Challan/Demand Draft/ Pay order or Banker's Cheque/Deposit at Call Receipt/ Fixed Deposit /Receipt of a Schedule Bank/ bank Guarantee of any Scheduled Bank against EMD. |
| 2. | Enlistment order of the contractor. |
| 3 | Copy of receipt for deposition of original EMD issued from division office of any Executive Engineer, CPWD, (<u>The EMD document shall be issued from the place in which the office of receiving division office is situated</u>). As per Proforma (Page No. 08). |
| 4 | Copy of GST Registration certificate of the state in which the work is to be taken up, or as required by GST authorities then in such a case the bidder shall scan and upload following undertaking alongwith other bid documents. "If work is awarded to me, I/we shall obtain GST registration certification certificate of the state, in which work is to be taken up, within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/we shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by CPWD or GST department in this regard." |
| 5 | Copy of bidder Pan Card. |
| 6 | Name, Contact Number & e-mail of person to be contacted for clarification required if any. |

**Executive Engineer,
SilcharCPWD,
Silchar-788003.**

PROFORMA FOR THE RECEIPT TO BE ISSUED BY THE EE RECEIVING THE EMD

| | |
|--|---|
| Receipt of deposition of original EMD (Receipt No./ date.....) | |
| Name of work: Construction of Parents room with sanitary installation of JNV Pailapool, Cachar, Assam. | |
| NIT No. | :28/NIT/EE-Silchar/CPWD/2023-24. |
| Estimated Cost | :₹ 19,54,692.00 |
| Amount of Earnest Money Deposit : | ₹ 39,094.00 |
| Last date of submission of bid:..... | |
| <ol style="list-style-type: none"> 1. Name of contractor* 2. Form of EMD.....* 3. Amount of Earnest Money Deposit.....* 4. Date of Submission of EMD.....* | |
| Signature, Name and Designation of EMD receiving officer (EE/AE(P)/AO/AAO) along with office stamp | |
| (*To be filled by EMD receiving EE) | |

PART "A"

CPWD-6 FOR e-Tendering

The Executive Engineer, Silchar, CPWD, Chirukandi road, Ramnagar-788003, phone no-03842-268817, Email id-nez2eescd.cpwd@nic.in, invites on behalf of the President of India online percentage bids from CPWD enlisted contractors of appropriate class in Building & Roads category (Civil Work) for the work **“Construction of Parents room with sanitary installation of JNV Pailapool, Cachar, Assam.”**

1. ~~Item rate~~/Percentage rate bids are invited on behalf of President of India from approved and eligible contractors of CPWD enlisted contractors of appropriate class in composite category

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

- 1.1 The work is estimated to cost **₹ 19,54,692.00**

- 1.2 This estimate however, is given merely as a rough guide

- 1.1.1 The competent authority to approve NIT for the cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids.

For composite bid, besides indicating the combined estimated cost put to bid, should clearly indicate the estimated cost of each component separately. The eligibility of bidders will correspond to the combined estimated cost of different components put to bid.

- 1.2 ~~Intending bidders is eligible to submit the bid provided he has 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:—~~

~~Criteria of eligibility for submission of bid documents.~~

- 1.2.1 ~~Conditions for Non-CPWD registered contractors only, if bids are also open to non-CPWD contractors.~~

~~For works estimated cost upto tendering limit of class I **Building & Roads category (composite) Contractor** (However, for Horticulture and Furniture etc discipline, it may be modified as per bidding limit of CPWD class I contractors of respective discipline as the case may be)~~

~~Three similar works each of value not less than Rs. or two similar work each of value not less than Rs. or one similar work of value not less than Rs. (all figures rounded to nearest Convenient figure in last 7 years ending previous day of last date of submission of bids.~~

~~**Note:** For works costing above tendering limit of class II **Building & Roads category (composite) Contractor** but upto tendering limit of Clause I **Building & Roads category (composite) Contractor** However, for Horticulture and Furniture etc discipline, it may be modified as per bidding limit of CPWD class II and CPWD Class I contractors respectively of respective discipline as the case may be) when bids are open to non-CPWD contractors also, then class II contractors of CPWD registered shall also be eligible if they satisfy the eligibility criteria specified in 1.2.1 above.~~

- 1.2.2 ~~Criteria of eligibility for CPWD as well as non-CPWD contractors,~~

~~For works estimated to cost above tendering limit of class I **Building & Roads category (composite)** Contractor (However for Horticulture and Furniture etc discipline, it may be modified as per bidding limit of CPWD class I contractors of respective discipline as the case may be.) Three similar works each of value not less than Rs.or two similar work each of value not less than Rs..... or one similar work of value not less than Rs..... (all figures rounded to nearest convenient figure) in last 7 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 submission of bid. This is applicable for 1.2.1 as well as 1.2.2 (This is not applicable for CPWD enlisted contractors of appropriate class in composite category)~~

~~**To become eligible for issue of bid, the bidders shall have to furnish an affidavit as under:-**~~

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

- ~~1.2.3 When bids are invited from non CPWD contractors and CPWD class II contractors as per provisions of **clause 1.2.1** above, it will be mandatory for non CPWD contractors and CPWD class II contractors to upload the work experience certificate(s) and the affidavit as per the provisions of **clause 1.2.2**.~~

~~But for such bids, Class I contractors of CPWD are eligible to submit the bids without submission of work experience certificate and affidavit. Therefore, CPWD class I contractors shall upload two separate letters for experience certificate and affidavit that these documents are not required to be submitted by them. Uploading of these two letters is mandatory otherwise system will not clear mandatory fields.~~

2. Agreement shall be drawn with the successful bidder on prescribed Form No. **CPWD 7 (or GCC 2023 for Construction Works (amended up to date))** which is available as a Govt. of India Publication and also available on website **www.cpwd.gov.in**. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **5(Five) Months** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. The site for the work is available.
 - (i) The architectural and structural drawings are available. However minor revisions may be carried out during execution
 - or
 - (ii) The architectural and structural drawings shall be made available in phased manner, as per requirement of the same as per approved programme of completion submitted by the contractor after award of work.

5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website <https://etender.cpwd.gov.in> free of cost.
6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
8. When bids are invited in three stage system and if is desired to submit revised financial bid then is shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.
9. **Earnest Money of ₹ 39,094.00/-** in the form of Treasury Challan or Demand Draft or Pay order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour of **The Executive Engineer, Silchar Central Division, CPWD, Chirukandi road, Silchar-788003, phone no-03842-268817, Email id-nez2eescd.cpwd@nic.in**, shall be scanned and uploaded to the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.

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

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

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

The bid submitted shall be opened at **03:30 PM on dated:11.03.2024**

10. The bid submitted shall become invalid and e-Tender processing fee shall not be refunded if:
 - (i) The bidder is found ineligible.
 - (ii) The bidder does not upload scanned copies of all the documents (including GST registration) stipulated in the bid document

- (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.
 - (iv) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
 - (v) The bidder does not Upload Proforma for Earnest Money Deposit Declaration.
11. The contractor whose bid is accepted will be required to furnish **performance guarantee of 5% (Five Percent)** of the bid amount within the period specified in **Schedule F**. This guarantee shall be in the form of cash (in case guarantee amount is less than **₹ 10,000.00**) or Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank/ Pay order of any Scheduled Bank of any scheduled bank (in case guarantee amount is less than **₹ 1,00,000.00**) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work and programme chart (Time and Progress) within the period specified in Schedule F.
12. **The description of the work is as follows:** The location of work is **at JNV Pailapool State: -Assam, .** The work is consisting of **“Construction of Parents room with sanitary installation of JNV Pailapool, Cachar, Assam.”** Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidders implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.
13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.

15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Gazetted officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
17. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for 7 period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
18. The **bids** for the **work** shall remain open for acceptance for a period of **Thirty (30) days** from the date of opening of bids in case of single bid system and **75 (Seventy five) days** from the date of opening of technical **bids** in case bids are invited in 2 or 3 bid system.
Further
 - (i) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department within **7 days after last date of submission of bids**, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely **irrespective of letter of acceptance for the work is issued or not**.
 - (ii) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department **after** expiry of 7 days **after last date of submission of bids**, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit **100%** of the earnest money absolutely **irrespective of letter of acceptance for the work is issued or not**.
 - (iii) **In case of forfeiture of earnest money as prescribed in para (i) and (ii) above**, the bidders shall not be allowed to participate in the rebidding process of the same work.
19. This notice inviting Bid shall form a part of the contract document. The successful bidders/ contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of: -
The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading there.
 - (a) Standard C.P.W.D. Form **7or GCC 2023 for Construction Works (amended up to date)**.
20. **For Composite Bids**

20.1.1 The Executive Engineer in charge of the major component will call tenders for the Civil work. **The Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite bid.**

20.1.2 The bid document will include following three components:

Part A:-CPWD-6, CPWD-7 including schedule A to F for the major component of the work, Standard **General Conditions of Contract for CPWD 2023** for **Construction** Works as amended/ modified up to date.

Part B:- General / specific conditions, specifications and schedule of quantities applicable to major component of the work.

Part C:-Schedule A to F for minor component of the work. Competent authority under clause 2 and clause 5 shall be same authority as mentioned in schedule A to F for major components), General/specific conditions, specifications and schedule of quantities applicable to minor component(s) of the work.

20.1.3 Composite contractor shall have to associate other agency(s) for execution of each of the work(s) ~~CCTV, IPPBX, Lift, Rising Main including works of DG Sets, HVAC, Sub Station, Fire Fighting & Fire Alarm System~~ forming part of the tender, which fulfils the eligibility criteria for these works(s) duly taking prior approval from the department. However, the **Building & Roads category (Composite)** contractor shall also be eligible to carry out himself any or all of these works without associating any specialized agency provided: (a) He fulfils the prescribed eligibility criteria respectively for these work(s) or (b) He directly procures the equipment of approved make from manufacturer and get it installed from authorized agency/service provider of the manufacturer or specialized agency as per criteria mentioned in NIT.

20.1.4 The eligible bidder shall quote rates for all items of major component as well as for all items of minor components of work.

20.1.5 After acceptance of the bid by competent authority, the EE in charge of major component of the work shall issue letter of award on behalf of the President of India. After the work is awarded, the main contractor will have to enter into one agreement with EE in charge of major component and has also to sign two or more copies of agreement depending upon number of EE's/DDH in charge of minor components. One such signed set of agreement shall be handed over to EE/DDH in charge of minor component. EE of major component will operate part A and part B of the agreement. EE/DDH in charge of minor component(s) shall operate Part C along with Part A of the agreement.

20.1.6 Entire work under the scope of composite bid including major and all minor components and all minor components shall be executed under one agreement.

20.1.7 Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.

20.1.8 The main contractor has to associate agencies for specialized components (s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency(s) to Engineer-in-charge of relevant component(s).within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer-in-charge of relevant component(s).

20.1.9 In case the main contractor intends to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer-in-charge of relevant specialized component(s).

The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-charge is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.

20.1.10 The main contractor has to enter into MoU with agencies contractor(s) associated by him. Copy of such MoU shall be submitted to EE/ DDH in charge of each relevant component as well as to EE in-charge of major component. In case of change of associate contractor, the main contractor has to enter into agreement with the new contractor associated by him.

20.1.11 Running payment for the major component shall be made by EE of major discipline to the main contractor. Running payment for minor components shall be made by the Engineer-in-charge of the discipline of minor component directly to the main contractor.

20.1.12A. The composite work shall be treated as complete when all the components of the work are complete. The completion certificate of the composite work shall be recorded by Engineer-in-charge of major component after record of completion certificate of all other components.

20.1.12B. Final bill of whole work shall be finalized and paid by the EE of major component. Engineer(s) in charge of minor component(s) will prepare and pass the final bill for their component of work and pass on the same to the EE of major component for including in the final bill for composite contract.

21. GST and all other tax as applicable, shall be payable by the contractor and Government will not entertain any claim whatsoever in respect of the same.

22. Specialized agencies/firms as per para 20.1.3 who have satisfactorily executed individually each category works as per following criteria during last seven years are eligible for the specialized works:

- (i) One work of 80% of cost of work.
- (ii) Two work of 60% of cost of work.
- (iii) Three work of 40% of cost of work.

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 submission of bid.

23. Intending tenderer shall quote rate percentage above / below at **Page No. 113 i.e.** Percentage composite tender.

**Executive Engineer,
Silchar, CPWD,
Silchar, Assam-788003.**

For & on behalf of President of India

INTEGRITY AGREEMENT

This Integrity Agreement is made at on this..... Day of 2022

BETWEEN

President of India represented through **The Executive Engineer, Silchar, CPWD, chirukandi road,Ramnagar-788003**.Hereinafter referred as the ‘**Principal/Owner**’, which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

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

through.....(Hereinafter referred to as the“**Bidder/**
(Details of duly authorized signatory)

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

Preamble

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

(Name of work)

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

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

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

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

Article 1: Commitment of the Principal/Owner

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

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

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

- d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly, Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.
- e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose (with each tender as per proforma enclosed) any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
- 3) The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 4) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice **means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.**
- 5) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

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

- 1) If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days' notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. Such exclusion may be forever or for a limited period as decided by the Principal/Owner.
- 2) **Forfeiture of Performance Guarantee/Security Deposit:** If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of **Earnest Money Deposit**, Performance Guarantee and Security Deposit of the Bidder/Contractor.

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

Article 4: Previous Transgression

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

Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors

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

Article 6- Duration of the Pact

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.

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

Article 7- Other Provisions

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

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

Article 8- LEGAL AND PRIOR RIGHTS

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

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

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

.....
(For and on behalf of Bidder/Contractor)

WITNESSES:

1.....
(Signature, name and address)

2.....
(Signature, name and address)

Place:
Dated:

To,

.....,
.....,
.....

Subject : Construction of Parents room with sanitary installation of JNV Pailapool, Cachar, Assam.

Dear Sir,

It is here by declared that CPWD is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender/bid documents, failing which the tenderer/bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the CPWD.

Yours faithfully

**Executive Engineer, Silchar,
CPWD, chirukandi Road,
silchar-788003**

To,

**The Executive Engineer,
Silchar,CPWD,
chirukandi Road, silchar-788003**

Subject : Submission of Tender for the work of “Construction of Parents room with sanitary installation of JNV Pailapool, Cachar, Assam.”

Dear Sir,

I/We acknowledge that CPWD is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

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

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

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

Yours faithfully

(Duly authorized signatory of the Bidder)

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

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

Dated**

Signature of the Contractor

Postal Address -----**

Telephone No.-----**

Witness:-----

**

FAX -----**

Address:-----**

E-MAIL -----*

Occupation:-----**

** **To be filled by Contractor**

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 ₹ * _____ (Rupees * _____)

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

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

For & on behalf of the President of India

Signature.....*

Dated*

Designation.....*

(*) To be filled by EE

***General Conditions of Contract for Central Public Works Department Works–2023 for Construction Works and copy of amendments applicable for GCC- 2023(Incorporated Amendments Circular bearing No. DG/CON/340 dated 21.08.2023) for Construction Works up to date of submission of bid.**

The amendments as issued by the DG, CPWD will also form the part of the agreement, which are available on the website (<http://cpwd.govt.in/circular/con>) of the CPWD and can be seen / downloaded by all.

Any circular/OM issued up to date of submission of the bid.

** Copies of all above circulars are to be attached with agreement.*

PERFORMANCE GUARANTEE

- (i) The contractor shall submit an irrevocable **Performance Guarantee of 5% (Five percent)** of the tendered amount in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in Schedule 'F' from the date of issue of letter of acceptance. This period can be further extended by the Engineer-in-Charge up to a maximum period as specified in schedule 'F' on written request of the contractor stating the reason for delays in procuring the Performance Guarantee, to the satisfaction of the Engineer-in-Charge. This guarantee shall be in the form of Cash (in case guarantee amount is less than ₹10,000/-) or Deposit at Call receipt of any scheduled bank/Banker's Cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay Order of any scheduled bank (in case guarantee amount is less than ₹1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the form annexed hereto. In case a fixed deposit receipt of any Bank is furnished by the contractor to the Government as part of the performance guarantee and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Government to make good the deficit.
- (ii) The Performance Guarantee shall be initially valid up to the stipulated date of completion plus 60 days beyond that. In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the contractor, without any interest.
- (iii) The Engineer-in-Charge shall not make a claim under the performance guarantee except for amounts to which the President of India is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:
- (a) Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance Guarantee.
- (b) Failure by the contractor to pay President of India any amount due, either as agreed by the contractor or determined under any of the Clauses/Conditions of the agreement, within 30 days of the service of notice to this effect by Engineer-in-Charge.
- (iv) In the event of the contract being determined or rescinded under provision of any of the Clause/Condition of the agreement, the performance guarantee shall stand forfeited in full and shall be absolutely at the disposal of the President of India.
- (v) **On substantial Completion of any work which has been completed to such an extent that the intended purpose of the work is met and ready to use, then a provisional Completion certificate shall be recorded by the Engineer-in-Charge. The provisional certificate shall have appended with a list of outstanding balance item of work that need to be completed in accordance with the provisions of the contract.**
This provisional completion certificate shall be recorded by the concerned Engineer-in-Charge with the approval of Project Manager/Chief Project Manager/ Superintending Engineer. After recording of the provisional Completion Certificate for the work by the competent authority, the 80% of performance guarantee shall be returned to the contractor, without any interest.
- However, in case of contracts involving Maintenance of building and services/ any other work after construction of same building and services/other work, then 40% of performance guarantee shall be returned to the contractor, without any interest after recording the provisional Completion certificate.

| |
|--|
| On non-judicial stamp paper of minimum ₹ 100 |
|--|

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

Form of Bank Guarantee for Performance Guarantee / Security Deposit / Mobilization advance

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

OR**

Whereas the Executive Engineer (name of division)....., CPWD on behalf of the President of India (hereinafter called "The Government") has entered into an agreement bearing number with (name and address of the contractor)..... (hereinafter "the contractor") for execution of work (name of work) The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. (Rupeesonly) 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 the Contractor.
- 8. We, (indicate the name of the bank), undertaken 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, or liability against this guarantee is restricted to Rs. (Rupees only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under his guarantee shall stand discharged.

Date

Witness :

- 1. Signature
Name and address
- 2. Signature
Name and address

Authorized signatory
Name :
Designation :
Staff code no.
Bank seal :

***Date to be worked out on the basis of validity period of 90 days where only financial bids are invited and 180 days for two/three bid system from the date of submission of tender.**
****In paragraph 1, strike out the portion not applicable. Bank Guarantee will be made either for earnest money or for performance guarantee/security deposit/mobilization advance, as the case may be.**

PART "B"

SCHEDULES A to F FOR CIVIL WORK**SCHEDULE 'A'****Schedule of quantities** **Page No. 76 to 88****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 |
| -----NIL----- | | | | |

SCHEDULE 'C'

Tools and plants to be hired to the contractor

| S. No. | Description | Hire cha per day | Place of Issue |
|---------------|-------------|------------------|----------------|
| 1 | 2 | 3 | 4 |
| -----NIL----- | | | |

SCHEDULE 'D'Extra schedule for specific requirements/document **As attached in tender form** for the work, if any.**SCHEDULE 'E'**Reference to General Conditions of contract – **GCC 2023 For Construction Works (Incorporated Amendments Circular bearing No. DG/CON/340 dated 21.08.2023 and Amended up to the last date of submission of bid).**

| | |
|-----------------------------|---|
| Name of Work: | Construction of Parents room with sanitary installation of JNV Pailapool, Cachar, Assam. |
| Estimated cost of the work: | ₹ 19,5,4692.00 |
| Earnest money | ₹ 39,094.00 |
| Performance Guarantee | 5% of the composite tendered value |
| Security Deposit | 2.5% of the tendered amount of work |

SCHEDULE 'F'

GENERAL RULES & DIRECTIONS:

| | |
|---|---|
| Officer inviting tender | Executive Engineer, Silchar, CPWD, silchar, Assam-788003, or his successor-in-charge of work |
| Maximum percentage of quantity of items of work to be executed beyond which rates are to be determined in accordance with Clause 12.2.& 12.3 below. | As mentioned in Page-36 |

Definitions:

| | | |
|--------|--|---|
| 2(v) | Engineer-in-Charge | Executive Engineer, Silchar, CPWD, silchar, Assam-788003, or his successor-in-charge of work. |
| 2(vii) | Accepting Authority | Executive Engineer, Silchar, CPWD or his successor-in-charge of work. |
| 2(x) | Percentage on cost of materials and labour to cover all overheads and profits. | 15% No Extra overheads and profits shall be payable on the part(s) of work assigned to other agency(s) by the contractor as per terms of contract. |
| 2(xi) | Standard Schedule of Rates: Civil Items of Work: | D.S.R. 2021& D.A.R 2021 with up to date correction slips and Applicable Cost Index. |
| xii) | Department: | Central Public Works Department |
| 9(ii) | Standard CPWD contract Form: | C.P.W.D. FORM 7/8 GCC 2023 For Construction Works (Incorporated Amendments Circular bearing No. DG/CON/340 dated 21.08.2023 and Amended up to the last date of submission of bid). |

| | | |
|-----------------|---|--|
| Clause 1 | 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 ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period as provided in (i) above | 07 Days 03 Days |
| Clause 2 | Authority for fixing Compensation under Clause 2 | Superintending Engineer, Silchar, CPWD or his successor-in-charge of work |

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

Mile stones/Bar chart (s)

| Sl. No. | Description of mile stone (s) (Physical) | Time allowed in days (From date of start) | Amount to be withheld in case of Non-achievement of each physical Mile stone(s) subject a total maximum of 5% (five Percent) of the total tendered value of work |
|---|--|---|--|
| 1 | 1/8 th (of whole work) | 1/4 th (of whole work) | 1.25% of the tendered value. |
| 2 | 3/8 th (of whole work) | 1/2 th (of whole work) | 1.25% of the tendered value. |
| 3 | 3/4 th (of whole work) | 3/4 th (of whole work) | 1.25% of the tendered value. |
| 4 | Full | Full | 1.25% of the tendered value. |
| Time allowed for execution of work | | 5 (Five) months | |
| Note :(i) Successful tenderer may request to the competent authority for rescheduling of above mile stones before award of work. | | | |

| | |
|--|---|
| Time allowed for execution of work | 5 (Five) months |
| Authority to decide | |
| (i) Extension of time | Executive Engineer, Silchar, CPWD or his successor-in-charge of work |
| (ii) Rescheduling of mile stone | Executive Engineer, Silchar, CPWD or his successor-in-charge of work |
| (iii) Shifting of date of start in case of delay in handing over of site | Executive Engineer, Silchar, CPWD or his successor-in-charge of work |

| PFORMA OF SCHEDULES Clause 5 Schedule of handing over of site | | | |
|--|--|------------------|---|
| Part | Portion of site | Description | Time period for handing over reckoned from date of issue of letter of intent. |
| Part A | Portion without any hindrance | Full site | 10 Days |
| Part B | Portion with encumbrances | Nil | Nil |
| Part C | Portions dependent on work of other agencies | Nil | Nil |

| | | |
|------------------|--|---|
| Clause 6 | Computerized Measure Book (CMB) / Electronic Measurement Book (EMB) Mode of Measurement: | CMB |
| Clause 7 | Gross work to be done together with net payment/Adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment | ₹8.00Lakhs(civil) |
| Clause 7A | Whether Clause 7A shall be applicable. | Yes |
| Clause 8A | Authority to decide compensation on account if contractor fails to submit completion plans | Superintending Engineer, Silchar, CPWD or his successor-in-charge of work |
| Clause 10A | List of testing equipment to be provided by the contractor at site lab. | As per Required during Execution of work |
| Clause 10 B (ii) | Whether clause 10-B (ii) shall be applicable. | Not Applicable. |
| Clause 10 C | Component of labour expressed as percentage of value of civil work | 25% |

| | |
|---|----------------|
| Clause 10 CC | Not Applicable |
| Schedule of component of other Materials, Labour etc. for price escalation. | |
| Component of civil (except materials covered under clause 10CA construction value of work.) | --- |
| Component of Labour – expressed as percent of total value of work. | --- |
| Note :Xm% should be equal to (100) – (materials covered under clause 10CA i.e. Cement, Steel, POL and other material specified in clause 10CA + Component of Labour) | |

| | | |
|-------------|--|---------------|
| Clause 11 | Specification to be followed for execution of work: CPWD Specification for works-2019 Vol I & II with up to date correction slips till last date of submission of tender (Hereinafter called CPWD specifications also) and as detailed in nomenclature of items. | |
| Clause 12 | Type of Work | Original Work |
| 12.2 & 12.3 | Deviation limit beyond which clause 12.2 & 12.3 shall apply for building works. | 100 % |

| | | |
|----------|---|--------------|
| 12.4 (i) | Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for foundation work (except items mentioned in earth work subhead in DSR and related items) | 100 % |
| (ii) | Deviation Limit for items mentioned in earth work Subhead of DSR or related items | 100 % |

| | | |
|--------------------|---|---|
| Clause 16 | Competent Authority for Deciding reduced rates: | |
| | For Civil items of work | Superintending Engineer, Silchar, CPWD Or his successor-in-charge of work for deciding reduced rate upto 5% of Tender Amount. |
| | For Civil items of work | Superintending Engineer, Silchar Or his successor-in-charge of work for deciding reduced rate more than 5% of Tender Amount. |
| Clause 18 | List of mandatory machinery, tools & plants to be deployed by the contractor at site. | As per Site Requirement and as per mentioned on page-72 |
| Clause 19 C | AE Engineer, Silchar, CPWD or his successor-in-charge of work | |
| Clause 19D | Executive Engineer, Silchar, CPWD or his successor-in-charge of work | |
| Clause 19G | Executive Engineer, Silchar, CPWD or his successor-in-charge of work | |
| Clause 19K | Executive Engineer, Silchar, CPWD or his successor-in-charge of work | |

Clause 25 –Dispute Redressal Committee(DRC) shall contain the following officers :-

| | | |
|----|--------------------|--|
| 1. | Chairman | Chief Engineer, Guwahati, CPWD. |
| 2. | Member Secretary | Superintending Engineer (Works & TLQA, RG, CPWD). |
| 3. | Member | Superintending Engineer, Kimin, CPWD. |
| 4. | Presenting Officer | Executive Engineer, Silchar, CPWD, Silchar-03 |

Clause 32: Requirement of Technical Representative(s) & recovery Rate:

| Sl. No. | Requirement of Technical | | Minimum Experience (Years) | Designation Technical staff | Rate at which recovery shall be made from the contractor in the event of not fulfilling |
|---------|--|--------|----------------------------|---|---|
| | Qualification | Number | | | |
| 1. | Graduate Engineer or Diploma Engineer | 1 | 2 or 5 respectively | Project Planning/ quality/billing Engineer | ₹ 15,000/- per month per person |

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

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

Clause 38

- i) a) Schedule/ statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2021. D.S.R. 2021& D.A.R 2021 with up to date correction slips.

- ii) **Variations permissible on theoretical quantities**
 - a) Cement for works with estimated cost put to tender not more than ₹ 25 lakhs. **3% plus/minus**
 For works with estimated cost put to Tender is more than ₹ 25 lakhs. **2% plus/minus**
 - b) Bitumen all works **2.5% plus only & nil on minus side.**
 - c) Steel reinforcement and structural steel Sections for diameter, section and category. **2% plus/minus.**
 - d) All other materials **Nil**

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

| S. No. | Description of Item | Rates in figures and words at which recovery shall be made from the Contractor | |
|--------|---------------------------------------|--|---------------------------------------|
| | | Excess beyond permissible variation | Less use beyond permissible variation |
| 1 | Cement (OPC/PPC) | - | Not allowed |
| 2 | Steel Reinforcement (TMT Bar Fe 500D) | - | Not allowed |

GENERAL CONDITIONS

1. In the event of the tender being submitted by a firm, it must be signed separately by each partner thereof or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power holding a power-of attorney authorizing him to do so, such power of attorney to be produced with the tender, and it must disclose that the firm is duly registered under the Indian Partnership Act, 1932.
2. The receipt of an accountant or clerk for any money paid by the contractor will not be considered as any acknowledgment or payment to the officer inviting tender and the contractor shall be responsible for seeing that he procures a receipt signed by the officer inviting tender or a duly authorized Cashier.
3. The contractor shall comply with the provisions of the Apprentices Act 1961, and the rules and orders issued there under from time to time. If he fails to do so, his failure will be a breach of the contract and the Superintending Engineer/Executive Engineer may in his discretion, without prejudice to any other right or remedy available in law, cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.
4. The work in general shall be carried out in accordance with the **CPWD Specifications for works-2019 Vol. I & II** with upto date correction slips, hereinafter referred as CPWD Specifications.
5. The structural and architectural drawings shall at all times be properly correlated before executing any work. However, in case of any discrepancy in the item given in the schedule of quantities appended with the tender and architectural drawings relating to the relevant item, the former shall prevail unless and otherwise given in writing by the Engineer-in-Charge.
6. The tenderer shall study carefully, the drawings, specifications, schedule of quantities and conditions of the tender documents to fully appreciate the scope of work before quoting his rates.
7. The contractors are advised to get acquainted with the proposed work and its site and also study the Architectural Drawings, specifications and special conditions carefully before tendering. No claim of any sort shall be entertained on account of any site conditions and ignorance of specifications and special conditions.
8. The civil work shall be carried out as per **CPWD specifications for works-2019 Vol. I & II** with up to date correction slips unless otherwise specified in the nomenclature of individual item or in the specifications and special conditions, where specifications are silent, the decision of Engineer-in-Charge shall be final and binding on contractors. Road work shall be executed as per latest MORTH specifications.
9. The rates quoted by the contractor shall be taken as net and nothing extra shall be paid on any account i.e. royalty, cartage, GST and stacking at required places & working in restricted area etc.
10. The rates for different items of work shall apply for all heights and depths, leads and lifts unless otherwise specified in the agreement or specifications applicable to the agreement.
11. Any damage done by the contractor to any existing work during the course of execution of the work shall be made good by him at his own cost.
12. Articles manufactured by the reputed firms and approved by Engineer-in-Charge shall only be used. Only articles classified, as 'first quality' by the manufacturer shall be used unless otherwise specified. In case articles bearing ISI certification are not available in the market, quality of samples brought by the contractor shall be judged by standards laid down in the relevant CPWD specifications. For the items not covered by CPWD specifications relevant BIS standards shall apply. The sample of materials to be brought to site for use in work shall be got approved from the Engineer-in-Charge before actual execution of work.
13. Samples of materials required for testing shall be provided free of cost by the contractor. Testing charges, if any, shall be borne by the contractor irrespective of the result.

14. The quantities of each item shall not be exceeded beyond the agreement quantities without prior permission of Engineer-in-Charge.
15. Income tax as per Income tax rules, GST as per rules, 1% Labourcess and 1% water charges(if departmental water used) will be recovered from the gross amount of the bill.
16. Contractor is to make own arrangement of electricity as department is obliged to provide electricity, However if departmental electricity is used then 1% electricity charges will be recovered from the gross amount of work done but the contractor shall arrange the necessary electrical fittings and cables etc. for taking the electrical power from nearest electrical point to the work site at his own cost.
17. All types of mortars to be used in the work shall be mixed in the mechanical mixer and hand mixing shall not be permitted.
18. The contractor shall make his own arrangement for getting the permission to ply the trucks from the traffic police or any other authority in this regard. .
19. No payment shall be made to the contractor for any damage caused by rain, snow fall, floods or any other natural causes whatsoever during the execution of work. The damage caused to work shall have to be made good by the contractor at his own cost and no claim on this account shall be entertained.
20. Other agencies may also simultaneously be executing the work of electrification, Horticulture or external services and other building works for the same building along with this work. The contractor shall afford necessary facilities for the same and no claim in the matter shall be entertained. The contractor shall especially co-ordinate with the other agency carrying out his work.
21. Some restrictions may be imposed by the security staff etc. on the working and or movement of labour and materials, etc, the contractor shall be bound to follow all such restrictions / instructions and nothing shall be payable on this account.
22. 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, VIP's corridor extra.
23. The contractor shall be fully responsible for the safe custody of the material issued or brought by him to site for doing the work.
24. **Testing of materials: -**
Samples of various materials required for testing shall be provided free of cost by the contractor unless otherwise specified in the item. Testing charges, if any, shall be borne by the contractor. All other expenditures required to be incurred for taking the samples, conveyance, packing etc. shall be borne by the contractor himself.
25. The rate for all items of work, shall unless otherwise clearly specified include cost of all labour, material and other inputs involved in the execution of the items.
26. The order of preference in case of any discrepancy as indicated in condition no. 8.1 under "Conditions of Contract" given in the **General Conditions of contract for Central P.W.D Construction Work 2023 (Amended up to Date)** form may be read as the following.
 - a) Nomenclature of item as per Schedule of Quantities.
 - b) Particular specifications.
 - c) Special conditions.
 - d) Additional conditions.
 - e) General Conditions.
 - f) CPWD Specifications as applicable.
 - g) Contract Clauses of **General Conditions of contract for Central P.W.D Construction Work 2023 (Amended up to Date) form.**
 - h) Indian Standard Specifications of BIS.
 - i) Manufacturers specifications.
 - j) Sound engineering practice as per directions of the Engineer-in-Charge.

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

27. 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.
28. 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. The surplus soil/earth shall be disposed of as per the directions of Engineer-in-charge separately.
29. The contractor shall clean the site thoroughly of scaffolding materials, rubbish, equipments left out of his work and dress the site around the building to the complete satisfaction of the Engineer-in-charge before the work is treated as completed.
30. **Maintenance of Register of Tests-** All the registers of tests carried out at Construction Site or in outside laboratories shall be maintained by the contractor which shall be issued to the contractor by Engineer-in-Charge.
31. **Maintenance of Material at Site (MAS) Register-** All the MAS Registers including Cement and Steel Registers shall be maintained by Contractor which shall be issued to the contractor by Engineer-in-Charge.
32. Contractor shall be responsible for safe custody of all the test registers.
33. 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
34. The contractor shall fully comply with all legal orders and directions of the Public or local authorities or municipality and adhere by their rules and regulations and pay all fees and charges for which he may be liable in this regard. Nothing extra shall be paid/reimbursed for the same.
35. The building work shall be carried out in the manner complying in all respects with the requirements of the relevant bylaws and regulations of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-charge and nothing extra shall be paid on this account.
36. 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.
37. It shall be ensured by the contractor that no electric live wire is left exposed or unattended to avoid any accidents in this regard.
38. The structural and architectural drawings shall at all times be properly co-related before executing any work. However, in case of any discrepancy in the item given in the schedule of quantities appended with the tender and Architectural drawings relating to the relevant item, the former shall prevail unless otherwise given in writing by the Engineer-in-charge.
39. The contractor shall maintain in perfect condition, all portions executed till completion of the entire work allotted to him. Where however phased delivery of work is contemplated these provisions shall apply separately to each phase.
40. The entire royalty at the prevalent rates shall have to be paid by the contractor on all the boulders, metals, shingle sand etc. collected by him for execution of the work, directly to the Revenue authority or authorized agents of the State Government concerned or the Central Government, as the case may be.
41. Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.

42. 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.
43. The contractor shall bear all incidental charges for cartage, storage and safe custody of materials issued by department.
44. Any cement slurry added over base surface for continuation of concreting for better bond is deemed to have been built in the items and nothing extra shall be payable for extra cement considered in consumption on this account.
45. The contractor shall take instructions from the Engineer-in-charge for stacking of materials. No excavated earth or building materials etc. shall be stacked/collected in areas where other buildings, roads, services, compound walls etc. are to be constructed.
46. Any trenching and digging for laying sewer lines/water lines/cables etc. shall be commenced by the contractor only when all men, machinery's and materials have been arranged and closing of the trench(s) thereafter shall be ensured within the least possible time.
47. The works shall be carried out in accordance with the Architectural drawings and structural drawings, to be issued from time to time by the Engineer-in-Charge. Before commencement of any item of work, the contractor shall correlate all the relevant architectural and structural drawings issued for the work and satisfy himself that the information available thereof is complete and unambiguous. The discrepancy, if any, shall be brought to the notice of the Engineer-in-Charge before execution of the work. The contractor alone shall be responsible for any loss or damage executing by the commencement of work on the basis of any erroneous and or incomplete information.
48. All Architectural drawings given in the tender other than those indicated in nomenclature of items are only indicative of the nature of the work and materials/fixings involved unless and otherwise specifically mentioned. However, the work shall be executed in accordance with the drawings duly approved by the Engineer-in-Charge.
49. On completion of work, the contractor shall submit at his own cost soft and hard four prints in A2 size of "as built" drawings to the Engineer-in-Charge within 30 days of completion of work. These drawings shall have the following information:
 1. Route of all piping and their diameters including soil waste pipes & vertical stacks.
 2. Ground and invert levels of all drainage pipes together with locations of all manholes and connections upto outfall.
 3. Route of all water supply lines with diameters, location of control valves, access panels etc.

ADDITIONAL CONDITIONS

1. The contractor shall prepare one sample of all items which should be got approved from the Engineer-in-Charge. Only on acceptance of sample work, contractor will be allowed to commence the work and sample is to be preserved by contractor till the whole work is completed. The quality of work should be as per approved samples.
2. The contractor and/ or his authorized representative should inspect the site order book every day and got the compliance noted by the JE/ AE/ Engineer-in-Charge.
3. If the work is carried out in more than one shift or during night, no claim on this account shall be entertained.
4. 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 whatsoever shall be entertained on this account.
5. The rates for all items of work shall (Unless clearly specified) include the cost of all labour material and other aspects involved in the execution of work.
6. Due to Security reason the contractor shall have to arrange time table of labour according to the requirement of security staff and the instructions of the Engineer-in-Charge. The contractor should see the site before tendering.
7. In the event of any restrictions being imposed by the Security agency, CPWD, Traffic or any other authority having jurisdiction in the area on the working or movement of labour /material, the contractor shall strictly follow such restrictions and nothing extra shall be payable to the contractor on this account. The loss of time on this account, if any, shall have to be made up by generating additional resources etc. General Security restrictions are given as under:
 - (i) Due to the site restrictions, there is no possibility for labour huts to be erected at site.
 - (ii) The labourers / staff should not be changed too frequently once the verification of the character and antecedents is done.
 - (iii) As and when there will be security requirements, certain additional restriction (s) can be imposed as per the requirement of the situation.
 - (iv) No claim whatsoever will be entertained by the department on account of any restriction (s) imposed by the security agencies in execution of work.
8. The contractor shall make his own arrangement for getting the permission to ply the trucks from the traffic police or any other authority.
9. The contractor shall be responsible for behavior and conduct of his worker.No worker with doubtful integrity or having a bad record shall be engaged by the contractor.
10. Contractor has to associated specialized agencies for specialized items of works i.e. water proofing, aluminum works, structural glazing, SS railing. Only those specialized agencies/firms who have satisfactorily executed works as per following criteria during last seven years are eligible for the specialized works:
 - (i) One work of 80% of Item.

- (ii) Two work of 60% of Item.
- (iii) Three work of 40% of Item.

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 submission of bid.

11. Contractor has to deploy required plant and machinery on the project. Minimum number of plant and machinery to be deployed by him is indicated at **Page No. 72**. In case the contractor fails to deploy the plant and machinery whenever required and as per the direction of the Engineer-in-charge, he (Engineer-in-charge) shall be at a liberty to get the same deployed at the risk and cost of the contractor.
12. Every precaution must be taken to see that the furniture/ furnishing is properly covered with tarpaulin etc. If necessary, furniture / furnishing shall be removed from the site while carrying out the repair washing work in that case furniture/ furnishing will be placed back.
13. Defective work, sub-standard work or work not done according to the specifications of the contract shall be liable for summarily 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 other terms and conditions of the contract.
14. The agency can be asked to submit documentary proof of procurement from the mentioned agencies i.e. Bill/ Invoice etc.

15. Quality Assurance

- 15.1 The contractor shall ensure quality control measures on different aspects of construction including materials, workmanship and correct construction methodologies to be adopted. He shall have to submit quality assurance programme within two weeks of the award of work. The quality assurance programme should include method statement for various items of work to be executed along with check lists to enforce quality control.
- 15.2 The contractor shall get the source of all other materials, not specified elsewhere in the document, approved from the Engineer-in-Charge. 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. Similarly, the contractor shall submit brand/ make of various materials not specified in the agreement, to be used for the approval of the Engineer-in-Charge along with samples and once approved, he shall stick to it.
- 15.3 The contractor shall submit shop drawings of staging and shuttering arrangement, aluminum work, and other works as desired by Engineer-in-Charge for his approval before execution. The contractor shall also submit bar bending schedule for approval of Engineer-in-charge before execution.

15.4 Test Laboratories:

A) Laboratory at site:

The contractor shall establish a testing lab at site and provide testing equipment and materials for the field tests mentioned in the list of mandatory tests given in **CPWD specifications 2019** Vol. 1 & 2. Nothing extra shall be payable to him on this account.

The representatives of the department shall be at liberty to inspect the testing facilities at site and conduct testing at random in consultation with Engineer in charge. The contractor shall provide all necessary facilities for the purpose.

Not less than 90% tests for material be performed at site lab with above stated equipment's, however at least 10% testing of materials shall be got done from external laboratories. However, for the tests to be carried out by the external laboratories, the contractor shall supply free of charge all the materials required for testing, including transportation.

B) Other Laboratories:

B1 The contractor shall arrange carrying out all tests required under the agreement through the laboratory as approved by the Engineer-in-Charge and **all expenditure for testing to be incurred for testing of samples e.g. packaging, sealing, transportation, loading, unloading etc. including testing charges shall be borne by the contractor.**

B2 If the tests, which were to be conducted in the site laboratory are conducted in other laboratories for any the reasons, the cost of such tests shall be borne by the contractor.

15.5 Sampling of Materials:

15.5.1 Sample of building materials fittings and other articles required for execution of work shall be got approved from the Engineer-in-Charge. Articles manufactured by companies of repute and approved by the Engineer-in-Charge shall only be used. Articles bearing BIS certification mark shall be used in case the above are not available, the quality of samples brought by the contractor shall be judged by standards laid down in the relevant BIS specifications. All materials and articles brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work.

15.5.2 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.

15.5.3 BIS marked materials except otherwise specified shall be subjected to quality test at the discretion of the Engineer-in-Charge besides testing of other materials as per the specifications described for the item/materials. Wherever BIS marked materials are brought to the site of work, the contractor shall if required, by the Engineer-in-Charge furnish manufacturers test certificate 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.

15.5.4 The contractor shall procure all the materials in advance so that there is sufficient time to testing and approving of the materials and clearance of the same before use in work.

15.5.5 All materials brought by the contractor for use in the work shall be got checked from the Engineer-in-Charge or his authorized representative of the work on receipt of the same at site before use.

- 15.5.6 The contractor shall be fully responsible for the safe custody of the materials issued to him even if the materials are in double lock and key system.
- 17 The rate of items of flooring is inclusive of providing sunk flooring at bath rooms kitchen etc. and nothing extra on this account is admissible.
- 18 Separate cement registers showing the receipt of the OPC and PPC shall be maintained at site. The contractor shall construct separate godowns for storage of OPC & PPC at site and nothing extra on this account shall be payable.
- 19 In case there is any discrepancy in frequency of testing as given in the list of mandatory tests and that in the individual sub-head of work as per CPWD specification 2019 Vol. 1 & 2 the higher of the two frequencies of testing shall be adopted.
- 20 The contractor shall have the responsibility for Preparation and submission (in required format) all Drawings and documentations to Local Body Authorities and obtaining approval/No-objection Certificate for the Project if required from :
- (i) Respective local Municipal Corporation/Block Office/Panchayat.
 - (ii) Respective local Fire & Emergency Services.
 - (iii) Civil Aviation/Airports Authority of India (if required).
And/or any other Authorities deemed necessary.

Special Conditions to comply directives of Hon'ble National Green Tribunal and EIA Guidance Manual

1. The contractor shall not store/dump construction material or debris on metalled road.
2. The contractor shall get prior approval from Engineer-in-Charge for the area where the construction material or debris can be stored beyond the metalled road. This area shall not cause any obstruction to the free flow of traffic/inconvenience to the pedestrians. It should be ensured by the contractor that no accidents occur on account of such permissible storage.
3. The contractor shall take appropriate protection measures like raising wind breakers of appropriate height on all sides of the plot/area using CGI sheets or plastic and /or other similar material to ensure that no construction material dust fly outside the plot area.
4. The contractor shall ensure that all the trucks or vehicles of any kind which are used for construction purposes/or are carrying construction material like cement, sand and other allied material are fully covered. The contractor shall take every necessary precaution that the vehicles are properly cleaned and dust free to ensure that enroute their destination, the dust, sand or any other particles are not released in air/contaminate air.
5. The contractor shall provide mask to every worker working on the construction site and involved in loading, unloading and carriage of construction material and construction debris to prevent inhalation of dust particles.
6. The contractor shall provide all medical help, investigation and treatment to the workers involved in the construction of building and carry of construction material and debris relatable to dust emission.
7. The contractor shall ensure that C&D waste is transported to the C & D Waste site only and due record shall be maintained by the contractor.
8. The contractor shall compulsory use of wet jet in grinding and stone cutting.
9. The contractor shall comply all the preventive and protective environmental steps as stated in the MoEF guidelines, 2010.
10. The contractor shall ensure that all DG sets comply emission norms notified by MoEF.
11. The contractor shall ensure that the construction material is covered by tarpaulin. The contractor shall take all other precaution to ensure that no dust particles are permitted to pollute air quality as a result of such storage.

1.0 SPECIAL CONDITIONS

GENERAL

- 1.1 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 carry out survey of the work area, at his own cost, setting out the layout and fixing of alignment of the building as per architectural and Structural drawings in consultation with the Engineer-in-Charge. Any discrepancy between the architectural drawings and actual layout at site shall be brought to the notice of the Engineer-in-charge. It shall be responsibility of the Contractor to ensure correct setting out of alignment. Nothing extra shall be payable on this account. No claims, whatsoever, shall be entertained at a later date for any errors found, on plea that the information supplied by the Department in the tender is insufficient or is at variance with the actual site conditions.
- 1.2 The Contractor shall, if required by him, before submission of the tender, inspect the drawings in the Office of the Executive Engineer concerned. 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, 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.
- 1.3 The nomenclature of the item given in the schedule of quantities gives in general of 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 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.
- 1.4 The contractor(s) shall give to the local body, police and other authorities all necessary notices etc. that may be required by law and obtain all requisite licenses for temporary obstructions, enclosures etc. and pay all fee, taxes and charges which may be leviable on account of these operations in executing the contract. He shall make good any damage to the adjoining property whether public or private and shall supply and maintain lights either for illumination or for cautioning the public at night.

- 1.5 The contractor(s) shall execute the work simultaneously at all sites. He has to establish site office alongwith all necessary arrangements at all sites simultaneously.
- 1.6 The contractor(s) shall cordon off the area suitably so that the other buildings/ offices remains functional during execution of the work.
- 1.7 Staff/labour shall be deployed for each site of work independently by the contractor.

BY-LAWS AND REGULATIONS

All work shall conform to the statutory Bye-laws and Regulations of the concerned authority/Municipality, Fire Services as applicable to the Project. If the tender specifications and drawings are more stringent than required as per the Local Authorities then the tender specifications and drawings shall be followed. In the other case, if the local authorities more stringent specifications than those specified in the tender specifications, then the set by-laws and regulations shall be followed at no extra cost.

Proper temporary barricading by fencing with G.I. sheets, shall be carried out by the Contractor at the start of work to physically define the boundaries of the plot for restricted entry to only those involved in the work and also to prevent any accidents, at the same time without causing any inconvenience to the traffic and the users of the buildings in the adjacent plots. It shall be done by providing, erecting, maintaining temporary protective barricading of minimum 2.0 metres in height, made in panels, with each panel having MS frames / MS scaffolding pipes of suitable size and stiffness, with 24 gauge thick GI corrugated sheet or suitably stiffened plain GI sheet fixed on frames. Such panels shall be suitably connected to each other for stability with nuts and bolts, hooks, clamps etc. and fixed firmly to the ground at about 2 metres spacing, for the entire duration till completion of the work. He shall also provide and erect temporary protective barricades within the plot, if required, to prevent any accident. Temporary protective roofing near the Entrance to the building, under construction, shall be made to protect the visiting officials from getting hurt by falling debris etc. Also, one or more coat of enamel paint of shade as approved and directed by the Engineer-in-Charge shall be applied on the panels and "CPWD" shall be painted over that in suitable sizes, shapes and numbers as directed by the Engineer-in-Charge. It shall be dismantled and taken away by the Contractor after the completion of work at his own cost with the approval of the Engineer-in- Charge. Nothing extra shall be payable on this account, unless otherwise specified.

- 1.8 The Contractor(s) shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night. In case of any accident of labours/ contractual staffs the entire responsibility will rest on the part of the contractor and any compensation under such circumstances, if becomes payable, shall be entirely borne by the contractor.
- 1.9 The work shall generally be carried out in accordance with the “**CPWD Specifications 2019** Vol. I & II” with correction slips issued upto the last date of submission of tender, additional/Particular Specifications, architectural/Structural drawings, mechanical, electrical, plumbing and as per instructions of Engineer-in-Charge. Any additional item of the work, if taken up subsequently, shall also confirm to the relevant CPWD specifications as mentioned above.
- 1.10 The several documents forming the tender are to be taken as mutually complementary to one another. Detailed drawings shall be followed in preference to small scale drawings and figured dimensions in preference to scale dimensions.

1.11 The works to be governed by this contract shall cover delivery and transportation up to destination, safe custody at site, insurance, erection, testing and commissioning of the entire works.

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

- (i) Preparation of detailed SHOP drawings and AS BUILT drawings wherever applicable.
- (ii) Obtaining of Statutory permissions where-ever applicable and required.
- (iii) Pre-commissioning tests as per relevant standard specifications, code of practice, Acts and Rules wherever required.
- (iv) Warranty obligation for the equipments and / or fittings/fixtures supplied by the contractor. Contractor shall provide all the shop drawings or layout drawings for all the co-ordinated services before starting any work or placing any order of any of the services etc. These shop drawings/layout drawings shall be got approved from Engineer-in-charge before implementation and this shall be binding on the contractor. The contractor shall submit material submittals along with material sample for approval of Engineer-in-Charge prior to delivery of material at site..

1.12 Unless otherwise provided in the Schedule of quantities the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing extra shall be payable to him on this account.

1.13 The Contractor(s) shall take instructions from the Engineer-in-Charge regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, services and compound walls are to be constructed. The stacking shall take place as per stacking plan however, if any change is required, the same shall be done with the approval of Engineer-in-Charge.

1.14 The contractor shall engage specialized agency for carrying out specialized items as listed in [para 1.44](#) below, covered in of the schedule of Quantity Immediately after award of work, the contractor shall submit for the approval of NIT approving authority, the name of the agency along with their working experience and credentials, presentation on method statement and materials being used for execution of such items etc. Delay on the part of contractor in submitting the proposal for approval of competent authority shall be his responsibility and no extension of time shall the granted on this account.

1.15 The Contractor shall bear all incidental charges for cartage, storage and safe custody of materials, if any, issued by department as well as to those materials also arranged by the contractor.

1.16 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.

1.17 The contractor shall give performance test of the entire installation(s) as per the specifications in the presence of the Engineer-in-charge or his authorized representative before the work is finally accepted and nothing extra what-so-ever shall be payable to the contractor for such test.

1.18 Water tanks, taps, sanitary, water supply & drainage pipes, fittings & accessories should conform to bye-laws of local body/corporation, where CPWD specifications are not available. The Contractor should engage approved, licensed plumbers for the work and get the materials (fixtures/fittings) tested, by the municipal Body/ Corporation authorities wherever required at his own cost. The Contractor shall submit for the approval of the NIT approving authority, the

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

- 1.19 The contractor shall make his own arrangements for water and for obtaining electric connections if required and make necessary payments directly to the State Govt. departments concerned. Contractor shall get the water tested from laboratory approved by the Engineer-in-charge at regular interval as per the **CPWD Specifications 2019**. All expenses towards collection of samples, packing, transportation etc. shall be borne by the contractor. Agency shall neither be allowed to use existing bore well, if any. They may have to arrange water through tankers from any outside source after taking due permission from concerned authority.

1.20 PREVENTION OF NUISANCE AND POLLUTION CONTROL

The contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupiers of adjacent properties and to the public in general and to prevent any damage to such properties from pollutants like smoke, dust, noise. The contractor shall use such methodology and equipment so as to cause minimum environmental pollution of any kind during and minimum hindrance to road users and to occupants of the adjacent properties or other services running adjacent/near vicinity. The contractor shall make good at his cost and to the satisfaction of the Engineer-in-Charge, any damage to roads, paths, cross drainage works or public or private property whatsoever caused due to the execution of the work or by traffic brought thereon by the contractor. All waste or superfluous materials shall be carried away by the contractor, without any reservation, entirely to the satisfaction of the Engineer-in-Charge.

- 1.21 Utmost care shall be taken to keep the noise level to the barest minimum so that no disturbance as far as possible is caused to the nearby occupants/users of building(s), if any.

1.22 SECURITY AND TRAFFIC ARRANGEMENTS

In the event of any restrictions being imposed by the Security agency, CPWD, Traffic or any other authority having jurisdiction in the area on the working or movement of labour /material, the contractor shall strictly follow such restrictions and nothing extra shall be payable to the contractor on such accounts. The loss of time on these accounts, if any, shall have to be made up by augmenting additional resources whatever required.

- 1.23 If as per the rules of the local authority, the huts for labour are not to be erected at the site of work by the contractors, the contractors are required to provide such accommodation as is acceptable to local bodies and nothing extra shall be paid on this account. No accommodation is available at the site of work. The labour huts shall not be erected on the plot and the Contractor shall make his own arrangements to provide such accommodation as per the rules of the local bodies. He shall make his own arrangements for stores, field office etc. Before tendering, he shall visit the site and assess the manner in which he is able to arrange the above facilities. The Engineer-in-Charge shall in no way be responsible for any delay on this account and no claim, whatsoever, on this account shall be entertained.

- 1.24 No payment shall be made for any damage caused by rain, snowfall, flood or any other natural calamity, whatsoever during the execution of the work. The contractor shall be fully responsible for any damage to the govt. property and the work for which payment has been advanced to him under the contract and he shall make good the same at his risk and cost. The contractor shall be fully responsible for safety and security of his material, T&P/Machinery brought to the site by him.

- 1.25 The contractor shall construct suitable godowns, yard at the site of work for storing all other materials so as to be safe against damage by sun, rain, damages, fire, theft etc. at his own cost and also employ necessary watch and ward establishment for the purpose at his cost.
- 1.26 All materials obtained from contractor shall be got checked by the representative of Engineer-in-Charge on receipt of the same at site before use.
- 1.27 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.
- 1.28 The contractor shall be responsible for the watch and ward/guard of the buildings, safety of all fittings and fixtures including all equipments, services provided by him against pilferage and breakage during the period of Installations and thereafter till the building is physically handed over to the Central Public Works Department, the User/Client Department. No extra payment shall be made on this account and no claim shall be admissible on this account.
- 1.29 The Contractor shall keep himself fully informed of all acts and laws of the Central & State Governments, all orders, decrees of statutory bodies, tribunals having any jurisdiction or authority, which in any manner may affect those engaged or employed and anything related to carrying out the work. All the rules & regulations and bye-laws laid down by Collector / Local Authority / Municipal Corporation and any other statutory bodies shall be adhered to, by the contractor, during the execution of work. The Contractor shall also adhere to all traffic restrictions notified by the local authorities. The extra sewerage charges (one time charges for commencement of work) required to be paid to the Municipal Corporation/ other statutory bodies shall be paid by the department and need not be considered by the contractor. All statutory taxes, levies, charges (including water and sewerage charges, charges for temporary service connections and / or any other charges) payable to such authorities for carrying out the work, shall be borne by the Contractor. The water charges (for municipal water connection as well as tanker water) shall be borne by the contractor. Also, if the contractor obtains water connection for the drinking purposes from the municipal authorities or any other statutory body, the consequent sewerage charges shall be borne by the contractor.

The Contractor shall arrange to give all notices as required by any statutory / regulatory authority and shall pay to such authority all the fees that is required to be paid for the execution of work. He shall protect and indemnify the Department and its officials & employees against any claim and /or liability arising out of violations of any such laws, ordinances, orders, decrees, by himself or by his employees or his authorized representatives. Nothing extra shall be payable on these accounts. The fee payable to statutory authorities for obtaining the various permanent service connections and Occupancy Certificate for the building shall be borne by the Department.
- 1.30 For works below ground level the contractor shall keep that area free from water. If dewatering or bailing out of water is required the contractor shall do the same at his own cost and nothing extra shall be paid except otherwise provided in the items of Schedule of Quantities.
- 1.31 The Contractor shall make all necessary arrangements for protecting from rains, fog or likewise extreme weather conditions, the work already executed and for carrying out further work, during monsoon including providing and fixing temporary shelters, protections etc. Nothing extra shall be payable on this account and also no claims for hindrance shall be entertained on this account.
- 1.32 In case of flooding of site on account of rain or any other cause and any consequent damage, whatsoever, no claim financially or otherwise shall be entertained notwithstanding any other

provisions elsewhere in the contract agreement. Also, the Contractor shall make good, at his own cost, the damages caused, if any. Further, no claims for hindrance shall be entertained on this account.

1.33 The contractor will take reasonable precautions to prevent his workman and employees from removing and damaging any flora (plant/vegetation) from the project area.

1.34 SETTING OUT

- (i) The Contractor shall carry out survey of the work area, at his own cost, setting out the layout of building in consultation with the Engineer -in-Charge & proceed further. Any discrepancy between the Engineer-in-charge, architectural drawings and actual layout at site shall be brought to the notice of the Engineer -in-charge. It shall be responsibility of the Contractor to ensure correct setting out of alignment. Total station survey instruments only shall be used for layout, fixing boundaries, and centre lines, etc., Nothing extra shall be payable on this account.
- (ii). The Contractor shall establish, maintain and assume responsibility for grades, lines, levels and benchmarks. He shall report any errors or inconsistencies regarding grades, lines, levels, dimensions etc. to the Engineer -in-Charge before commencing work. Commencement of work shall be regarded as the Contractor's acceptance of such grades, lines, levels, and dimensions and no claim shall be entertained at a later date for any errors found.
- (iii). If at any time, any error appears due to grades, lines, levels and benchmarks during the progress of the work, the Contractor shall, at his own expense rectify such error, if so required, to the satisfaction of the Engineer -in-Charge. Nothing extra shall be payable on this account.
- (iv). Though the site levels are indicated in the drawings the Contractor shall ascertain and confirm the site levels with respect to benchmark from the concerned authorities. The Contractor shall protect and maintain temporary/ permanent benchmarks at the site of work throughout the execution of work. These benchmarks shall be got checked by the Engineer-in-Charge or his authorized representatives. The work at different stages shall be checked with reference to bench marks maintained for the said purpose. Nothing extra shall be payable on this account.
- (v). The approval by the Engineer-in-Charge, of the setting out by the Contractor, shall not relieve the Contractor of any of his responsibilities and obligation to rectify the errors/defects, if any, which may be found at any stage during the progress of the work or after the completion of the work.
- (vi). The Contractor shall be entirely and exclusively responsible for the horizontal, vertical and other alignments, the level and correctness of every part of the work and shall rectify effectively any errors or imperfections therein. Such rectifications shall be carried out by the Contractor at his own cost to the entire satisfaction of the Engineer - in-Charge.
- (vii). The rates quoted by the Contractor are deemed to be inclusive of site clearance, setting out work (including marking of reference points, center lines of buildings), construction and maintenance of reference bench mark(s), taking spot levels, construction of all safety and protection devices, barriers, barricading, signage, labour safety, labour welfare and labour training measures, preparatory works, working during monsoon, working at all depths, height and location etc. and any other incidental works required to complete this work. Nothing extra shall be payable on this account.

- (viii) 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 at site. However, no claim on the alleged inadequacy or incorrectness of the soil data supplied by the department shall be entertained.

1.35 TOOLS AND PLANTS

The bidder should have own constructions equipment required for the proper and timely execution of the work. Nothing extra shall be paid on this account.

No tools and plants including any special T&P etc. shall be supplied by the Department and the Contractor shall have to make his own arrangements at his own cost. No claim of hindrance (or any other claim) shall be entertained on this account.

- 1.36 For the execution of work, all the scaffolding shall be provided and suitably fixed, by the Contractor. It shall be provided strictly with steel double scaffolding system, suitably braced for stability, with all the accessories, gangways, etc. with adjustable suitable working platforms to access the areas with ease for working and inspection. It shall be designed to take all incidental loads. It should cater to the safety features for workmen. Nothing extra shall be payable on this account. It shall be ensured that no damage is caused to any structure due to the scaffolding.
- 1.37 The Contractor shall do proper sequencing of the various activities by suitably staggering the activities within various pockets in the plot so as to achieve early completion. The agency to deploy adequate equipment, machinery and labour as required for the completion of the entire work within the stipulated period specified. Also ancillary facilities shall be provided by contractor commensurate with requirement to complete the entire work within the stipulated period. Nothing extra shall be payable on this account. Adequate number/sets of equipment in working condition, along with adequate stand-by arrangements, shall be deployed during entire construction period. It shall be ensured by the Contractor that all the equipment, Tools & Plants, machineries etc. provided by him are maintained in proper working conditions at all times during the progress of the work and till the completion of the work. Further, all the constructional tools, plants, equipment and machineries provided by the Contractor, on site of work or his workshop for this work, shall be exclusively intended for use in the construction of this work and they shall not be shifted/ removed from site without the permission of the Engineer-in-Charge.
- 1.38 The Contractor shall maintain all the work in good condition till the completion of entire work. The Contractor shall be responsible for and shall make good, all damages and repairs, rendered necessary due to fire, rain, traffic, floods or any other causes. The Engineer-in-Charge shall not be responsible for any claims for injuries to person/workmen or for structural damage to property happening from any neglect, default, want of proper care or misconduct on the part of the Contractor or of any other of his representatives, in his employment during the execution of the work. The compensation, if any, shall be paid directly to the Department / authority / persons concerned, by the Contractor at his own cost.

1.39 ROYALTY

Royalty at the prevalent rates shall be paid by the Contractor as per the terms of supply between them, on all materials such as boulders, metals, all sizes stone aggregates, brick aggregates, coarse and fine sand, moorum, river sand, gravels and bajri etc. collected by him for the execution of the work, directly to the revenue authority of the state government

concerned. Further, contractor needs to submit proof of submission of full royalty to the state government or local authority. Nothing extra shall be payable on this account.

1.40 **PRESERVATION AND CONSERVATION MEASURES**

- (i) Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services, if any, encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. In case the same are to be removed and diverted, expenditure incurred in doing so shall be payable to the contractor. The contractor shall work out the cost, get the same approved by Engineer-in-Charge before taking up actual execution. 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.
- (ii) All fossils, coins, articles of value of antiquity, structures and other remains or things of geological or archaeological interest discovered on project location during excavation/construction shall be the property of the Government, and shall be dealt with as per provisions of the relevant legislation. The contractor will take reasonable precaution to prevent his work men or any other persons from removing and damaging any such article or thing. He will, immediately upon discovery thereof and before removal acquaint the Engineer-in-charge of such discovery and carry out the official instructions of Engineer-in- charge for dealing with the same, till then all work shall be carried out in a way so as not to disturb/damage such article or thing.

1.41 **RESPONSIBILITY**

- (i) He shall protect and indemnify the Department / CPWD and its officials & employees against any claim and /or liability arising out of violations of any such laws, ordinances, orders, decrees, by himself or by his employees or his authorized representatives. Nothing extra shall be payable on these accounts.
- (ii) The fee payable to statutory authorities for obtaining the various permanent service connections and Building Use Certificate for the building shall be borne by the CPWD.
- (iii) The Contractor shall assume all liability, financial or otherwise in connection with this contract and shall protect and indemnify the Department from any and all damages and claims that may arise on any account. The Contractor shall indemnify the Department against all claims in respect of patent rights, royalties, design, trademarks- of name or other protected rights, damages to adjacent buildings, roads or members of public, in course of execution of work or any other reasons whatsoever, and shall himself defend all actions arising from such claims and shall indemnify the Department in all respect from such actions, costs and expenses. Nothing extra shall be payable on this account.

1.42 **CO-OPERATION WITH OTHER CONTRACTORS/SPECIALIZED AGENCIES/ SUB-CONTRACTORS**

- (i) The Contractor shall take all precautions to abide by the environmental related restrictions imposed by any statutory body having jurisdiction under which site of construction falls as well as prevent any pollution of streams, ravines, river bed and waterways. All waste or superfluous materials shall be transported by the Contractor, entirely to the satisfaction of the Engineer- in-Charge and disposed at designated places only. Utmost care shall be taken to keep the noise level to the barest minimum so that no

disturbance as far as possible is caused to the occupants / users of adjoining buildings. No claim what so ever on account of site constraints mentioned above or any other site constraints, lack of public transport, , inadequate availability of skilled, semi-skilled or unskilled workers in the near vicinity, non-availability of construction machinery spare parts and any other constraints not specifically stated here, shall be entertained from the Contractor. Therefore, the Tenderers are advised to visit site and get first-hand information of site constraints. Accordingly, they should quote their tenders. Nothing extra shall be payable on this account.

- (ii) The Contractor shall cooperate with and provide the facilities to the sub-Contractors and other agencies working at site for smooth execution of the work. The contractor shall indemnify the Department (CPWD) against any claim(s) arising out of such disputes. The Contractor shall:
 - (a) Allow use of scaffolding, toilets, sheds etc.
 - (b) Properly co-ordinate their work with the work of other Contractors.
 - (c) Provide control lines and benchmarks to his Sub-Contractors and the other Contractors.
 - (d) Provide electricity and water at mutually agreed rates.
 - (e) Provide hoist and crane facilities for lifting material at mutually agreed rates.
 - (f) Co-ordinate with other Contractors for leaving inserts, making chases, alignment of services etc. at site.
 - (g) Adjust work schedule and site activities in consultation with the Engineer-in-Charge and other Contractors to suit the overall schedule completion.
 - (h) Resolve the disputes with other Contractors/ sub-contractors amicably and the Engineer-in-Charge shall not be made intermediary or arbitrator.
- (iii) The work should be planned in a systematic manner so as to ensure proper co-ordination of various disciplines viz. sanitary & water supply, drainage, rain water harvesting, electrical, firefighting, information technology, communication & electronics and any other services.
- (iv) Other agencies as employed by the contractor, will also simultaneously execute and install the works of sub-station / generating sets, air-conditioning, lifts, etc. for the work and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings trenches etc. as may be required for such related works and includes provision of inserts and the contractor shall fix the same at time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account.
- (v) The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-In-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and in a proper co-ordination manner and shall perform it in proper sequence to the complete satisfaction of others.

1.43 SUPERVISION OF WORK

The Contractor shall depute Site Engineer & skilled workers as required for the work. He shall submit organization chart along with details of Engineers and supervisory staff. It shall be ensured that all decision making powers shall be available to the representatives of the

Contractor available at site itself to avoid any likely delays on this account. The Contractor shall also furnish list of persons for specialized works to be executed for various items of work. The Contractor shall identify and deploy key persons having qualifications and experience in the similar and other major works, as per the field of their expertise. If during the course of execution of work, the Engineer-in-Charge is of the opinion that the deployed staff is not sufficient or not well experienced; the Contractor shall deploy more staff or better-experienced staff at site to complete the work with quality and in stipulated time limit.

1.44 Specialized Agencies

- (i) The composite tender comprises of two main components: viz. civil work and E & M works. The list of specialized agencies for civil works is as below:

Water proofing treatment.

The contractor shall submit the credential of specialized agency well in advance for the approval of NIT Approving Authority as per the direction of Engineer-in-charge. After verification of the same, written approval will be conveyed to main contractor in this regard. The quantum of credentials will be broadly in line with CPWD guidelines. The main contractor shall not change the specialized agency. However, if the change is warranted, he may do so, with permission of NIT approving authority. However before making any such change he has to enter into similar agreement as with previous agency & submit the same to Engineer-in-Charge for approval. This shall however be without any change in the accepted rates of the contract agreement and without any cost implications to the Department.

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

1.45 RATES

- (i) The rates quoted by the Contractor are deemed to be inclusive of site clearance, setting out work, profile, setting lay out on ground, establishment of reference bench mark(s), installing various signage, taking spot levels, survey with total station, construction of all safety and protection devices, compulsory use of helmet and safety shoes, and other appropriate safety gadgets by workers, imparting continuous training for all the workers, barriers, preparatory works, construction of clean, hygienic and well ventilated workers housings in sufficient numbers as per drawing supplied by Engineer in charge, working during monsoon or odd season, working beyond normal hours, working at all depths, height, lead, lift, levels and location, implementation of green building norms to achieve desired GRIHA Rating etc. and any other unforeseen but essential incidental works required to complete this work. Nothing extra shall be payable on this account and no extension of time for completion of work shall be granted on these accounts.

- (ii) The rates quoted by the tenderer, shall be firm and inclusive of all taxes and levies (including works contract).
- (iii) No foreign exchange shall be made available by the Department for importing (purchase) of equipment, plants, machinery, materials of any kind or any other items required to be carried out during execution of the work. No delay and no claim of any kind shall be entertained from the Contractor, on account of variation in the foreign exchange rate.
- (iv) Ancillary and incidental facilities required for execution of work like labour camp, stores, fabrication yard, offices for Contractor, watch and ward, temporary ramp required to be made for working at the basement level, temporary structure for plants and machineries, water storage tanks, installation and consumption charges of temporary electricity, telephone, water etc. required for execution of the work, liaison and pursuing for obtaining various No Objection Certificates, completion certificates from local bodies etc., protection works, testing facilities / laboratory at site of work, facilities for all field tests and for taking samples etc. during execution or any other activity which is necessary (for execution of work and as directed by Engineer-in-Charge), shall be deemed to be included in rates quoted by the Contractor, for various items in the schedule of quantities. Nothing extra shall be payable on these accounts. Before start of the work, the Contractor shall submit to the Engineer-in-Charge, a site / construction yard layout, specifying areas for construction, site office, positioning of machinery, material yard, cement and other storage, steel fabrication yard, site laboratory, water tank, etc.
- (v) For completing the work in time, the Contractor might be required to work in two or more shifts (including night shifts). No claim whatsoever shall be entertained on this account, not with-standing the fact that the Contractor may have to pay extra amounts for any reason, to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour and other statutory bodies regulations and the agreement entered upon by the Contractor with them.
- (vi) All material shall only be brought at site as per program finalized with the Engineer-in-Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.

1.46 SAFETY PRACTICES

- i) **WARNING/ CAUTION BOARDS:** All temporary warning / caution boards / glow signage display such as "Construction Work in Progress", "Keep Away", "No Parking", Diversions & protective Barricades etc. shall be provided and displayed during day time by the Contractor, wherever required and as directed by the Engineer-in-Charge. These glow signage and red lights shall be suitably illuminated during night also. The Contractor shall be solely responsible for damage and accident caused, if any, due to negligence on his part. Also he shall ensure that no hindrance, as far as possible, is caused to general traffic during execution of the work. This signage shall be dismantled & taken away by the Contractor after the completion of work, only after approval of the Engineer – in – Charge. Nothing extra shall be payable on this account.
- ii) Necessary protective and safety equipments shall be provided to the Site Engineer, Supervisory staff, labour and technical staff of the contractor by the Contractor at his own cost and to be used at site.
- iii) No inflammable materials including P.O.L shall be allowed to be stored in huge quantity at site. Only limited quantity of P.O.L may be allowed to be stored at site subject to the compliance of all rules / instructions issued by the relevant authorities and as per the direction of Engineer -in- Charge in this regard. Also all precautions and safety measures

shall be taken by the Contractor for safe handling of the P.O.L products stored at site. All consequences on account of unsafe handling of P.O.L shall be borne by the Contractor.

1.47 QUALITY ASSURANCE

- (i) The proposed building is a prestigious project and quality of work is of paramount importance. Contractor shall have to engage well-experienced skilled labour and deploy modern T&P and other equipment to execute the work. Many items like specialized flooring work, Polysulphide sealant and backer rod fixing in expansion joints, factory made door- window shutters, proper slope maintaining in toilet units, sanitary- water supply installation, textured finishing, grit plastering with aluminium channel insertions, water proofing treatment with APP Extruded Polystyrene insulation boards, will specially require engagement of skilled workers having experience particularly in execution of such items.
- (ii) The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material / work beyond set out tolerance limit shall be summarily rejected by the Engineer-in-charge & contractor shall be bound to replace / remove such sub-standard / defective work immediately. If any material, even though approved by Engineer-In-Charge is found defective or not conforming to specifications shall be replaced / removed by the contractor at his own risk & cost.
- (iii) In addition to the supervision of work by CPWD engineers, the Consultants deployed by the CPWD shall also be carrying out regular and periodic inspection of the ongoing activities in the work and deficiencies, shortcomings, inferior workmanship pointed out by them shall be communicated by CPWD engineers to the contractor. Upon receipt of instructions from Engineer in Charge these are also to be made good by necessary improvement, rectification, replacement upto his complete satisfaction.
- (iv) The Contractor shall submit, within 07 (Seven) days after the date of award of work, a detailed and complete method statement for the execution, testing and Quality Assurance, of such items of works, as directed by the Engineer-in-Charge. All the materials to be used in the work, to give the finished work complete in all respects, shall comply with the requirements of the specifications and shall pass all the tests required as per specifications as applicable or such specifications / standards as directed by the Engineer-in- Charge. However, keeping the Quality Assurance in mind, the Contractor shall submit, on request from the Engineer-in- Charge, his own Quality Assurance procedures for basic materials and such items, to be followed during the execution of the work, for approval of the Engineer-in-Charge.
- (v) 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 suggested list of brand names given in the tender document / particular specifications for approval of Engineer-In-Charge. For all other items, materials and fittings of ISI Marked shall be used with the prior 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.

- (vi) The Contractor shall procure and provide all the materials from the manufacturers /suppliers as per the list attached with the tender documents, as per the item description and particular specifications for the work. The equivalent brand for any item shall be permitted to be used in the work, only when the specified makes are not available. This is, however, subject to documentary evidence produced by the contractor for non-availability of the brand specified and also subject to independent verification by the Engineer-in-Charge. In exceptional cases, where such approval is required, the decision of Engineer-in-Charge as regards equivalent make of the material shall be final and binding on the Contractor. No claim, whatsoever, of any kind shall be entertained from the Contractor on this account. Nothing extra shall be payable on this account. Also, the material shall be procured only after written approval of the Engineer-in-Charge.
- (vii) All materials whether obtained from Govt. stores 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.
- (viii) The tests, as necessary, shall be conducted in the following laboratory. The samples shall be taken for carrying out all or any of the tests stipulated in the particular specifications and as directed by the Engineer-in-Charge or his authorized representative.
 - a) IIT Delhi.
 - b) IIT Guwahati.
 - c) NIT Silchar.
 - d) NIT Agartala.
 - e) NIT Manipur.
 - f) NIT Mizoram.
 - g) CRRI, Delhi.
 - h) National Council for Cement and Building Materials, BallabhGarh.
 - i) Shree Ram Testing Laboratories Delhi
 - j) Any other NABL approved lab as approved by the NIT approving authority.
- (ix) All the registers of tests carried out at Construction Site or in outside laboratories and all material at site (MAS) registers including cement register shall be maintained by the contractor which shall be issued to the contractor by Engineer-in-charge. All the entries in the registers will be made by the designated Engineering Staff of the contractor and same should be regularly reviewed by JE/AE/AEE/EE. Contractor shall be responsible for safe custody of all the registers.
- (x) The Contractor shall at his own risk and cost make all arrangements and shall provide all such facilities including material and labour, the Engineer-in-Charge may require for collecting, preparing, forwarding the required number of samples for testing as per the frequency of test stipulated in the contract specifications or as considered necessary by the Engineer-in-Charge, at such time and to such places, as directed by the Engineer-in-Charge. Nothing extra shall be payable for the above.
- (xi) The Contractor or his authorized representative shall associate in collection, preparation, forwarding and testing of such samples. In case he or his authorized representative is not present or does not associate him, the result of such tests and consequences thereon shall be binding on the Contractor. The Contractor or his authorized representative shall

remain in contact with the Engineer-in-Charge or his authorized representative associated for all such operations. No claim of payment or claim of any other kind, whatsoever, shall be entertained from the Contractor.

- (xii) All the testing charges shall be borne by the contractor in the manner indicated below:
 - (a) All expenditure for testing to be incurred for testing of samples e.g. packaging, sealing, transportation, loading, unloading etc. including testing charges shall be borne by the contractor.**
 - (b) The contractor shall get the water tested with regard to its suitability and conforming to the relevant I.S. Code. The contractor shall obtain written approval from the Engineer-in-Charge before proceeds by using the same for execution of work. The testing charges shall be borne by the contractor.**
- (xiii) All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested as per the design conditions before covering and their measurements in computerized measurement book duly test checked shall be deposited with Engineer in charge or his authorized representative, prior to hiding these items.
- (xiv) Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should conform to bylaws and municipal body / corporation where CPWD Specifications are not available. The contractor should engage licensed plumbers for the work and get the materials (fixtures/fittings) tested by the Municipal Body/Corporation authorities wherever required at his own cost.
- (xv) The contractor shall give performance test of the entire installation(s) as per the standing specifications before the work is finally accepted and nothing extra whatsoever shall be payable to the contractor for the test.
- (xvi) The contractor shall have to execute guarantee bonds in respect of water proofing works and other specialized works as per Performa enclosed.
- (xvii) The Contractor shall arrange electricity at his own cost for testing of the various electrical installations as directed by Engineer-in-Charge and for the consumption by the contractor for executing the work. Also all the water required for testing various electrical installations, fire pumps, firefighting/ firefighting equipments, fire sprinklers etc. and also testing water supply, sanitary and drainage lines, water proofing of underground sump, overhead tanks, water proofing treatment etc. shall be arranged by the contractor at his own cost. Nothing extra shall be payable on this account.
- (xviii) The quality of water in the nearby areas is not fit for construction work, therefore, water treatment plant of suitable capacity shall be installed by the contractor at each site of work. He would also be required to create capacity for storage for a period not less than 3 days for construction and curing purpose, for which nothing extra shall be paid to the contractor.

1.48 SUBMISSION AND DOCUMENTATION

- (i) The Contractor shall display all permissions, licenses, registration certificates, bar charts, other statements etc. under various labour laws and other regulations applicable to the works, at his site office. He should also keep at site at least one set of BIS Codes and

other relevant codes at site and produce the same if asked for by Engineer-In-Charge. In case of non compliance, these codes will be purchased from the Market and actual cost of purchase will be recovered from the next RA Bill of the Contractor.

- (ii) The Contractor shall make available four (04) sets of completed Building Drawings, "As Built Drawings" along with literatures, manuals, warranty certificates etc. of various installed fittings, fixtures and equipment for the completed projects. This shall be the prerequisite for payment of final bill.
- (iii) The Contractor shall make available three (03) sets of all services drawings including Electrical & HVAC work internal and external services i.e. Water Supply, Sanitary line and Drainage lines. This shall be the prerequisite for payment of final bill. These drawings shall have the following information:
- (iv) Run off for all piping and their diameters including soil, waste pipes and vertical stacks.
- (v) Ground and invert level of all drainage pipes together with locations of all manholes and connections, up to outfall.
- (vi) Run off for all water supply lines with diameters location of control valves, access panels etc.
- (vii) The contractor shall make available four (04) sets of computerized Standard Measurement Books (SMBs) having measurement of all the permanent standing in a building.
- (viii) The Performance Guarantee shall not be released to the contractor until the aforesaid drawings are submitted to the Engineer-in-Charge.
- (ix) To avoid delay, contractor should submit all samples well in advance so as to give timely orders for procurement.

1.49 Program Chart:

The Contractor shall prepare an integrated program chart within seven days of issue of award letter including civil activities for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment and machinery required for the fulfillment of the program within the stipulated period and submit the same for approval of the Engineer-In-Charge within seven days of the award of the work. These shall be submitted by the contractor through electronic media besides forwarding hard copies of the same. The integrated program chart so submitted should not have any discrepancy with the physical milestones attached in the contract agreement.

1.50 TEMPORARY WATER/ ELECTRICITY/ TELEPHONE CONNECTION

- (i) Arrangement of temporary telephone connection, water and electricity required by Contractor, shall be made by him at his own cost and also necessary permissions shall be obtained by him directly from concerned authorities, under intimation to the Department. Also, all initial cost and running charges, and security deposit, if any, in this regard shall be borne by him. The Contractor shall abide by all the rules/ bye laws applicable in this regard and he shall be solely responsible for any penalty on account of violation of any of the rules/byelaws in this regard. Nothing extra shall be payable on this account.
- (ii) The Contractor shall be responsible for maintenance and watch and ward of the complete installation and water / electricity meter and shall also be responsible for any pilferage,

theft, damage, penalty etc. in this regard. The Contractor shall indemnify the Department against any claim arising out of pilferage, theft, damage, penalty etc. whatsoever on this account. Security deposit for the work shall be released only after No Dues Certificates are obtained from the local Authorities from whom temporary electric/ water / telephone connection have been obtained by the Contractor. Nothing extra shall be payable on this account.

- (iii) The Department shall in no way be responsible for either any delay in getting electric and/or water and/or telephone connections for carrying out the work or not getting connections at all. No claim of delay or any other kind, whatsoever, on this account shall be entertained from the Contractor. Also contingency arrangement of stand-by water & electric supply shall be made by the Contractor for commencement and smooth progress of the work so that work does not suffer on account of power failure or disconnection or not getting connection at all. No claim of any kind whatsoever shall be entertained on this account from the Contractor. Nothing extra shall be payable on this account.

1.51 CLEANLINESS OF SITE

- i) The Contractor shall not stack building material/malba/muck on the land or road of the local municipal authority or on the land owned by the others, as the case may be. So the muck, rubbish etc. shall be removed periodically as directed by the Engineer-in-Charge, from the site of work to the approved dumping grounds as per the local byelaws and regulations of the concerned authorities and all necessary permissions in this regard from the local bodies shall be obtained by the Contractor. Nothing extra shall be payable on this account. In case, the Contractor is found stacking the building material/malba as stated above, the Contractor shall be liable to pay the stacking charges/penalty as may be levied by the local body or any other authority and also to face penal action as per the rules, regulations and bye-laws of such body or authority. The Engineer –in-Charge shall be at liberty to recover, such sums due but not paid to the concerned authorities on the above counts, from any sums due to the Contractor including amount of the Security Deposit and performance guarantee in respect of this contract agreement.
- ii) The contractor shall take instructions from the Engineer-In-Charge regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, services and compound walls are to be constructed.
- iii) The site of work shall be always kept clean due to constraints of space and to avoid any nuisance to the users of buildings in the adjacent plots. The Contractor shall take all care to prevent any water- logging at site. The waste water, slush etc. shall not be allowed to be collected at site. It may be directly pumped into the creek with prior approval of the concerned authorities. For discharge into public drainage system, necessary permission shall be obtained from relevant authorities after paying the necessary charges, if any, directly to the authorities. The work shall be carried out in such a way that the area is kept clean and tidy. All the fees/charges in this regard shall be borne by the Contractor. Nothing extra shall be payable on this account.

1.52 INSPECTION OF WORK

In addition to the provisions of relevant clauses of the contract, the work shall also be open to inspection by Senior Officers of CPWD. The contractor shall at times during the usual working hours and at all times at which reasonable notices of the intention of the Engineer-in-charge or other officers as stated above to visit the works shall have been given to the contractor, either himself be present to receive the orders and instructions or have a responsible representative duly accredited in writing, to be present for that purpose.

1.53 FINAL TESTING OF THE INSTALLATION

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

1.54 REFUND OF PERFORMANCE GAURENTEE

The performance guarantee shall be refunded to the contractor soon after the completion of work and recording of the completion certificate by the competent authority.

1.55 Recording of Hindrance & Maintenance of Hindrance Register –

- i) Whenever any hindrance whether on part of department or on part of contractor, comes to the notice of the Assistant Engineer, he shall at once make a note of such hindrance in the register kept at site, and immediately make a report to the Executive Engineer within a week.
- ii) The following points shall be kept in mind while entering the hindrances in the Hindrance Register:
 - a) The entry of date of start of hindrance and date of removal of hindrance shall be made on the same day as the hindrance takes place or the cause of the hindrance is removed, respectively.
 - b) The Executive Engineer shall work out the over lapping period, net if hindrance and of each hindrance within 15 days of removal of the cause of hindrance. For work outside headquarters, this shall be done as and when he visits the site.
 - c) The items of work affected due to any hindrance shall be clearly mentioned in the Hindrance Register by the Assistant Engineer, and the weightage shall be allowed on this basis.
 - d) Each hindrance shall be entered in the hindrance Register, which shall be authenticated by the Executive Engineer and Contractor.
 - e) The hindrance on part of contractor shall also to be entered in the Hindrance Register.
 - f) The hindrance shall be recorded carefully in the Hindrance Register after considering its effect on completion of work.
 - g) Review of hindrance register shall be compulsory in division office by EE and AAO at the time of payment of each Running Account Bill and final bill and certificate shall be recorded that all up to date hindrances on part of department and contractor have been recorded in the hindrance register.
 - h) The net delay on part of department or contractor shall be worked out after considering all the hindrances recorded in the hindrance register.

1.56 Safety, Health and Environment

Over and above the provisions made in CPWD Safety Code (part of **General Conditions of contract for CPWD works 2023**) the following will also be applicable:

In respect of all workmen directly or indirectly employed in the work for the performance of the contractor's part of this agreement, the contractor shall at his expense arrange for the safety provisions as per Indian Standard Safety codes shown below and shall at his own expense provide for all facilities in connection there with. In case the contractor fails to make arrangement and provide necessary facilities, he shall be liable to pay compensations prescribed under Workmen's Compensation Act 1923 as amended from time to time for each default and in addition the Engineer-in-charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the cost incurred on that behalf from the contractor, and no claims what so ever shall be entertained.

Details regarding some special provisions to be followed by contractor are as follows:

- a) **Usage of quality Personal Protection Equipments (PPEs)** through approved vendors. PPEs would include amongst others the following items:

Safety Helmets, Hearing Protection, Respiratory Protection, Eye Protection, Protective Gloves, Safety Footwear, High Visibility Clothing (Jacket) with approved Logo.

- b) **Working at Heights**

Contractor shall ensure that work at height is properly planned for any emergencies and rescue appropriately supervised, and carried out in a manner, which is reasonably practicable safe. Contractor shall ensure that work at height is carried out only when the weather conditions do not jeopardize the health or safety of persons involved in the work. Guardrail, Toe-board, Barrier or similar collective means of protection shall be of sufficient dimensions, of sufficient strength and rigidity for the purposes for which they are being used, and otherwise suitable.

Working Platform shall be of sufficient dimensions to permit the safe passage of persons and the safe use of any plant or materials required to be used and to provide a safe working area-having regard to the work being carried out there. Possess a suitable surface and, in particular, be so constructed that the surface of the working platform has no gap through which a person, material or object could fall and injure a person. A working platform and any supporting structure shall not be loaded so as to give rise to a risk of collapse or to any deformation, which could affect its safe use. Strength and stability calculations for scaffolding shall be carried out by the contractor. The dimensions form and layout of scaffolding decks shall be appropriate to the nature of the work to be performed and suitable for the loads to be carried and permit work and passage in safety.

A personal fall protection system designed for use with an anchor shall be securely attached to at least one anchor, and each anchor and the means of attachment thereto shall be suitable and of sufficient strength and stability for the purpose of supporting any foreseeable loading. Suitable and sufficient steps shall be taken to prevent any person falling or slipping from a personal fall protection system. Any other steps in the opinion of engineer-in-charge suggested will also be taken in Protection system

Only metal ladders shall be allowed. Any surface upon which a ladder rests shall be stable, firm, of sufficient strength and of suitable composition safely to support the ladder so that its rungs or steps remain horizontal, and any loading intended to be placed on it. A ladder shall be so positioned as to ensure its stability during use. A suspended ladder shall be attached in a secure manner and so that, with the exception of a flexible ladder, it cannot be displaced and swinging is prevented. No interlocking or extension ladder shall be used unless its sections are prevented from moving relative to each other while in use.

1.57 Existing Services:

Existing drains, pipes, electricity cables, overhead wires and telephone cables, sewer lines, water lines and similar services encountered in the course of the execution of the work shall be protected/ maintained against the damage by the contractor. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services. In case **temporary** shifting/supporting of such services is required to facilitate the work, the contractor at no extra cost shall do the same. The decision of the Engineer-in-Charge in this regard shall be final and binding.

- 1.58 All works pertaining to services including rerouting/diversion of services, routine testing, installation etc., completed in one or more than one process shall be subject to examination and approval to each stage thereof by the Engineer-in-charge or concerned department as would be notified by the Engineer-in-charge or his authorized representative when such stage is ready. In default of such notice the Engineer-in-Charge shall be entitled to appraise the quantity and extent thereof and the decision of Engineer-in-Charge or his authorized representative in this regard shall be final and binding.
- 1.59 The contractor shall make his own arrangement for the disposal of the spoils, waste of bentonite, all dismantled material, slush and foul materials, surplus earth to such place where the same shall not cause nuisance or any environmental problems anywhere and should be acceptable to the authorities concerned. No extra claim whatsoever shall be entertained due to above. The road connected to site should be kept nuisance or environmental problem free.
- 1.60 The contractor shall make his own arrangement at his own cost for the provision of telephone facilities at the site of works or at any other place.
- 1.61 The contractor shall make his own arrangements for obtaining electric & water connection(s) if required and make necessary payment directly to department concerned. The department will however make all reasonable recommendations to the authority concerned in this regard.
- 1.62 The contractor shall bear all incidental charges for cartage, storage and safe custody of materials brought to site.
- 1.63 GST on Works Contract as applicable shall be deducted from payment made to the contractor.
- 1.64 The contractor shall have registration with EPFO and ESIC. The ESI and EPF contributions on the part of employer in respect of this contract shall be paid by the contractor. These contributions on the part of the employer paid by the contractor shall be reimbursed by the Engineer-in-charge to the contractor on actual basis.

PARTICULAR SPECIFICATION

1. The concrete mix design/laboratory tests with or without admixture shall be got done by contractor at his own cost and will be carried out by the contractor through one of the laboratory/Test houses as mentioned in 1.50 (viii) of Special Condition.

(i) Approved Lab/Govt. Engineering Institutions as directed by the Engineer-in-charge.

The various ingredients for mix design / laboratory tests shall be sent to the test houses through the Engineer-in-Charge and the samples of such aggregate & cement shall be preserved at site by the department

2. The contractor shall submit the mix design report from any of above approved laboratory for approval of Engineer-in-Charge within 30 days from the date of issue of letter of acceptance of the tender. No concreting shall be done until the mix design is approved by the Engineer-in-charge. In case of white portland cement and the likely use of admixtures in concrete with OPC/white portland cement the contractor shall design and test the concrete mix by using trial mixes with white cement and/or admixtures also for which nothing extra shall be payable.

3. In case of change of source or characteristic properties of the ingredients used in the concrete mix during the work, a revised laboratory mix design report conducted at laboratory established at site shall be submitted by the contractor as per the direction of the Engineer-in-Charge.

4. **Water Proofing Treatment**

The contractor shall associate himself with the specialized firm, to be approved by the Engineer-in-charge in writing, for water proofing treatment for basement/lower ground floor, underground tank and on roofs. Guarantee in the prescribed proforma attached with tender document shall be given by the specialized firm, for a period of ten years from the date after the maintenance period prescribed in the contract, which shall be counter signed by the contractor as token of overall responsibility. In addition 10% (ten percent) of the cost of water proofing items shall be retained as guarantee to watch the performance of the work done. However half of this retained amount will be released after five years, if the performance of the work done is found satisfactory. If however any defect is noticed during the guarantee period, it shall be rectified by the contractor within seven days of intimation. In case it is not attended to, the same will be got done by another agency at the risk and cost of the contractor. This guarantee deposit can however be released in full if a bank guarantee of equivalent amount for 10 years is produced and deposited with the department.

SPECIAL CONDITION FOR CEMENT**1.0 CEMENT**

- 1.1 The contractor shall procure 43 grade ordinary Portland cement conforming to IS:8112 or Portland Pozzolana Cement conforming IS: 1489 (Part-I) as required in the work from the reputed manufacturers of cement such as ACC, Ultratech, Vikram, Shree Cement, Ambuja, Jaypee Cement, Century Cement J. K. Cement, Dalmia Cement, Star Cement, TAJ Cement, TOPCEM Cement, Valley strong Cement and Amrit Cement or from any other reputed cement Manufacturer having a production capacity not less than one million tones per annum as approved by ADG, NER. Supply of cement shall be taken in 50kg 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. Every fresh cement batch should be brought to site at least 30 days before they are to be used / consumed in the work.
- 1.2 The cement shall be got tested by the Engineer-in-Charge and shall be used on the work only after satisfactory test results have been received. The contractor shall supply free of charge the cement required for testing including its transportation cost to testing laboratories. The frequency and details of the tests shall be decided by the Engineer-in-Charge depending on the quantum of supply in each batch. The cost of tests shall be borne by the contractor.
- 1.3 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in clause 38 of the contract and shall be governed by the conditions laid therein. In case the cement consumption is less than theoretical consumption including permissible variation, recovery at rate so prescribed shall be made. In case of excess consumption, no adjustment shall be made. 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.
- 1.4 Damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in writing from the Engineer-in-charge. If he does not do so within 3 days of receipt of such notice, the Engineer-in-charge shall get it removed at the cost of the contractor.
- 1.5 The cement bags shall be stacked on proper floors consisting of two layers of dry bricks laid on well consolidated earth at a level of at least one foot above ground. The stacks shall be in rows of 2 and 10 bags high with minimum of 0.6m clear. Bags should be placed horizontally continuous in each line. Actual size / shape of godown shall be as per site requirement and nothing extra shall be paid on this account. The decision of Engineer-in-charge regarding capacity shall be final.
- 1.6 Cement register for the cement shall be maintained at site by the contractor. The account of daily receipts and issues of cement shall be maintained in the register in the proforma prescribed and signed daily by contractor or his authorized agent.

SPECIAL CONDITION FOR STEEL

1. The contractor shall procure TMT bars of **Fe 500D** grade or more from primary producers such as **SAIL, Tata Steel Ltd, RINL, Jindal Steel & Power Ltd and JSW Steel Ltd.**
 - 1.1 The TMT bars procured from primary producers shall conform to manufacture's specifications..
2. The contractor shall have to obtain vouchers 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 the 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 1.1 and 1.2 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 on written orders from the Engineer-in-charge to do so.
4. The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent their distortion & 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.
5. The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. The cost of tests shall be borne by the contractor.
6. The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 38 of the contract and shall be governed by the conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations recovery at the rate so prescribed shall be made. In case of excess consumption, no adjustment needs to be made.
7. The steel brought to the site and the steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge
8. Steel bars brought by the contractor for use in the work shall be got checked from the Engineer-in-Charge or his authorized representative of the work on receipt of the same at site before use.
9. If the quantity of steel actually used in the work is found to be more than the theoretical quantity of steel including authorized variation, nothing extra shall be payable to the contractor on this account. In the event of it being discovered that after the completion of the work the quantity of steel used is less than the quantity ascertained as herein before provided (allowing variation on the minus side as stipulated in **clause 38**). The cost of quantity of steel so less used shall be recovered from the contractor at rate as specified in schedule 'F'. Decision of the Engineer-in-Charge in regard to theoretical quantity of steel which should have been actually used and recovery of the rate specified shall be final and binding on the contractor.
10. In case the contractor brings surplus quantity of steel the same after completion of the work will be removed from the site by the contractor at his own cost after approval of the Engineer-in-Charge.
11. Reinforcement including authorized spacer bars and lappages shall be measured in length of different diameters, as actually (not more than as specified in the drawing) used in the work, nearest to a centimeter. Wastage and unauthorized overlaps shall not be measured.
12. The standard sectional weights referred to as **in CPWD specifications for works 2019** Vol. 1 will be considered for conversion of length of various sizes of MS bars, Tor steel bars and TMT bars into standard weight.

13. Records of actual sectional weight shall also be kept dia.-wise & lot-wise. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site. The decision of the Engineer-in-Charge shall be final for the procedure to be followed for determining the average sectional weight of each lot. Quantity of each diameter of steel received at site of work each day will constitute one single lot for the purpose. The weight of steel by conversion of length of various sizes of bars based on the actual weighted average sectional weight shall be termed as derived actual weight.

14. If the derived weight as in para 14 above is lesser than the standard weight as in para 13 above, the derived actual weight shall be taken for payment.

If the derived actual weight is found more than the standard weight than the standard weight as worked out in para 13 above shall be taken for payment. In such case nothing extra shall be paid for the difference between the derived actual weight and the standard weight.

15. Mixing of different type of steel/different grades of steel shall not be allowed in the same structural members as main reinforcement to satisfy clause 26.1 of IS:456.

16. Tolerances on Nominal Mass (individual sample) shall be as under:

| Sl. No. | Nominal size mm | Tolerances on the Nominal Mass, percentage |
|---------|----------------------------|--|
| 1 | Upto and including 10 | -8% |
| 2 | Over 10 upto& including 16 | -6% |
| 3 | Over 16 | -4% |

CONTRACT FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER PROOFING WORKS

(BASEMENT/LOWER GROUND FLOOR/UNDER GROUND TANK/ROOF)

The Agreement made this _____ day of _____ Two thousand and _____ between _____ son of _____ (hereinafter called the Guarantor of the one part) and the PRESIDENT OF INDIA (hereinafter called the Government of the other part).

WHEREAS THIS agreement is supplementary to a contract (hereinafter called the contract) dated _____ and made between the GUARANTOR OF THE ONE part and the Government of the other part, whereby the contractor, inter alia, undertook to render the buildings and structures in the contract recited completely water and leak-proof.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said structures will remain water and leak-proof for ten years from the date after the maintenance period prescribed in the contract.

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

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

- (a) Misuse of roof shall mean any operation which will damage proofing treatment, like chopping of firewood and things of the same nature which might cause damage to the 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/seepage 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 the 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 done by the department by some other agency contractor at the GUARANTOR’s risk and cost. The decision of the Engineer-in–charge as to the cost payable by the Guarantor shall be final and binding.

That if guarantor fails to make good all defects or commits breach thereunder then the Guarantor will indemnify the principal and his successors against all loss, damage, cost expense 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 presents have been executed by the Obliger _____ 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.

TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF ALUMINIUM DOORS, WINDOWS VENTILATORS, STRUCTURAL GLAZING & PVDF COATED ALUMINIUM COMPOSITE PANEL WORKS

The agreement made this _____ day of _____ Two Thousand and _____ between _____ son of _____ (hereinafter called the GURANTOR of the one part) and the PRESIDENT OF INDIA (hereinafter called the Government of the other part.)

WHEREAS THIS agreement is supplementary to a contract (Hereinafter called the Contract) dated _____ and made between the GUARANTOR OF THE ONE PART AND the Government of the other part, whereby the contractor inter alia, undertook to render the work in the said contract recited structurally stable, leak proof and sound material, workmanship, anodizing, colouring, sealing.

AND WHEREAS THE GURANTOR agreed to give a guarantee to the affect that the said work will remain structurally stable, leak proof and guaranteed against faulty material and workmanship, defective anodizing, colouring, sealing and finishing for two years to be reckoned from the date after the expiry of maintenance period prescribed in the contract.

NOW THE GUARANTOR hereby guarantee that work executed by him will remain structurally stable, leak proof and guaranteed against faulty material and workmanship, defective anodizing, colouring, sealing and finishing for 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 to nature and cause of defects shall be final.

During this period of guarantee, the guarantor shall make good all defects 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's risk and cost. The decision of the Engineer-in-Charge as to the cost, payable by the Guarantor shall be final and binding.

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

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

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

- 1. _____
- 2. _____

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

_____ in the presence of :

- 1. _____
- 2. _____

**LIST OF MACHINERY, TOOLS & PLANTS TO BE DEPLOYED BY THE CONTRACTOR
AT SITE AS & WHEN REQUIRED**

| Sl. No. | Name of Equipment | Numbers |
|----------------|---|---|
| | Equipment for Concrete work | |
| 1 | Concrete mixer (diesel) | 1 No. |
| 2 | Concrete mixer (electrical) | 1 No. |
| 3 | Needle vibrator (electrical) | 2 Nos. |
| 4 | Needle vibrator (petrol) | 2 Nos. |
| 5 | Steel shuttering | As per Additional Conditions Srl. No. 22 |
| 6 | Vernier Caliper | 2 Nos (01 No. digital & 01 No. manual). |
| 7 | Screw gauge | 2 Nos (01 No. digital & 01 No. manual). |
| 8 | Digital Weighing machine with 1 gm least count of capacity 10 kg. | 1 No. |
| 9 | List of equipment to be provided in the lab | As per mentioned in Clause-10A of Schedule -"F" |

LIST OF PREFERRED MAKES OF MATERIALS FOR CIVIL WORK

The materials of first/standard quality from the following preferred makes are to be used. In case it is established that the brands specified below are not available in the market, contractor shall submit alternative proposal for the approval of Engineer-in-Charge.

The contractor shall provide the materials as per the Make or Brand indicated below. The contractor shall obtain the approval of Engineer-in-Charge for the alterative brands, before the actual execution of items.

A. General Materials.

| Sl.No. | Materials | Brand/Manufacturer Name |
|--------|---|--|
| 1 | Cement (OPC/PPC) | ACC, Ultratech, Vikram, Shree Cement, Ambuja, Jaypee Cement, Century Cement J. K. Cement, Dalmia Cement, Star Cement, TAJ Cement, TOPCEM Cement, Valley strong Cement and Amrit Cement. |
| 2 | Steel | SAIL, Tata Steel Ltd, RINL, Jindal Steel & Power Ltd. and JSW Steel Ltd. |
| 3 | Galvanized plain/ Corrugated Sheets | Tata, Sail, Bhusan Power & steel Jindal. |
| 4 | Synthetic Enamel Paint/Emulsion / steel/ wood | 1 st quality paints of Berger, Asian Paints, Nerolac& ICI paints, Jenson & Nicholson. |
| 5 | Acrylic washable Distemper | 1 st quality paints of Berger, Asian Paints, Nerolac& ICI paints, Jenson & Nicholson. |
| 6 | Water proofing cement paint, Primer | 1 st quality paints of Berger, Asian Paints, Nerolac& ICI paints, Jenson & Nicholson. |
| 7 | Acrylic Exterior Paint | Apex Ultima, Weather Coat All Guard, Weather Shield Max, Jenson & Nicholson. |
| 8 | SS doors handles, locks/Mortice Latch and | Godrej, Harrison, Doorset, Plaza, Yale, Dorma, Ozone, Geze, JPM. |
| 9 | White Cement | ACC, Birla, J.K. white. |
| 10 | Ceramic/glazed Tiles | Somani, Kajaria, NITCO/AGL/Johnson. |
| 11 | Aluminum sections | Bhagwati Sai , Hindalco, Jindal, Indal, Bharuka, Aluminium composite panel – Alucobond or equivalent. |
| 14 | PVC Door frame and Shutters | Rajshree, Polyline, Duraplast, JAYNA. |
| 15 | Water proofing compound | CICO, FOSROC, Pidilite, BASF. |
| 16 | Structural Steel Sections | SAIL , TATA, RINL, Jindal Steel & Power Ltd. |
| 17 | Steel Window & Pressed Steel Frames | Multiwin, Ajanta. |
| 18 | Flush Door Shutters (IS:2202) | Greenply/Century/JAYNA/DURO BRAND/Archid Ply. |
| 19 | Dash / Anchoring Fasteners | HILTI, Fischer, BOSCH. |
| 20 | Marine Plywood | Archid Ply Industries, Century, Green Ply. |
| 21 | Fire Retardant Plywood | Archid Ply Industries, Century, Green Ply. |
| 22 | Plywood | Archid Ply Industries, Century, Green Ply. |
| 23 | Block Board | Archid Ply Industries, Century, Green Ply. |
| 24 | Nuts /Bolts & Screws | GKW, Atul. |
| 25 | Admixtures | Fosroc, SIKA, BASF, MC-Bauchemie Ltd. |
| 26 | Vitrified Tiles | Somany, Kajaria, Johnson, AGL, NITCO, RAK Full body doubly charged or super charged. |

P-74

| | | |
|---------------------------------------|---|--|
| 27 | Grout, Tile adhesive, Monomer Grout | Latecrete, Kerokoal, BASF, ArdexEndura, Ferrous Crete, Krishna conchem, Sika, CICO, Frecrete, Pidilite |
| 28 | Hydraulic door / floor spring | Godrej, Dorma, Everite, Doorset, Ozone, Geze. |
| 29 | EPDM Gasket | Hanu/ Annand. |
| 30 | Cement based Wall putty | Birla, JK, Sara. |
| 31 | Clear glass/clear float glass/toughened glass | Modi, Saint Gobain, AIS. |
| 32 | Gypsum plaster | Ferrow-crete (Ecro-500), Gyproc (Elite -90), Ultratech. |
| 33 | Clear float glass | Saint Gobain, Ashahi India, Modi Float |
| 34 | Aluminum fittings | Nulite, Ebco, Classic. |
| 35 | Steel Fire rated doors | Sukri, Shakti-Met, Navair, Adhunik, SaintGobain. |
| 36 | Fire rated door fittings | Dorma, Geze, Assaabloy, Shakti Hormann. |
| 37 | AAC Block | Val-Kon-Crete, Shreecement, Biltech, HIL. |
| 38 | AAC block Adhesive | Ferrous Crete, Ultra Tech, Saint GobainWeabr. |
| 39 | Crystalline water proofing | Pentron/Kryton/Chryso. |
| 40 | Polysulphide Sealant | Fosroc/Pdilite/Tuffseal. |
| 41 | Seismic Expansion Joints | Hercules Structures System, Sanfiled |
| 42 | Calcium Silicate false ceiling | Aerolite, Armstrong, Hilux. |
| 43 | Metal false ceiling | Armstrong, Saint Gobain, Hunter Douglas. |
| 44 | Gypsum Board false ceiling | Saint Gobain, Lafarge, Boral Board, Armstrong, Anutone. |
| 45 | Polycarbonate Sheet | Gallina India, Polygal India, Plastron India, Danpal, DPI, LEXAN, GE Plastic. |
| 46 | Ceramic steel Green chalkboard | Vision Ad Boards, Excel Boards, Writemark Boards. |
| Sanitary fixtures and Faucets. | | |
| 1 | Vitreous China Sanitary Ware fittings & accessories | Parryware, Hindware, Cera, Nycer, Jaquar |
| 2 | CP Fittings (IS 8931) | Jaquar, Kohler, Marc (Premium quality), Hindware, PRIMA (Standard Quality) with water saving features. |
| 3 | Plastic seat cover of WC | Hindware, Commander, Diplomat, PRAYAG |
| 4 | PVC Flushing Cistern | Hindware(Slim line), Commander, Hindustan |
| 5 | Infrared Sensor operated | Roca, Kohler, AOS-Robo, Encon, Utech, Lopal |
| 6 | Stainless Steel Sink | Nirali/JAYNA/ALLEX |
| 7 | Mirror | Atul, Jolly, Modiguard, Saint Gobain |
| 8 | PVC tanks | Sintex / Polycone/ Patton, PRAYAG |
| 9 | CI Manholes Frames & Covers and CI gratings | NECO, RIF, SKF, BIC |
| 10 | Ball valves/Water supply valves (IS:1703) | ZOLOTO, Leader, PRIMA |

| <u>Pipes and Fittings</u> | | |
|---|--|---|
| 1 | Centrifugally Cast (Spun) Iron soil, waste and vent pipes and fittings | Jaiswal NECO, HEPCO., BIC, RIF |
| 2 | PVC, UPVC Soil, Waste, rain water and Vent pipes and fittings | Supreme, Prince, Finolex, Ashirvad, PRAYAG |
| 3 | G.I. Pipes | Tata, Jindal (Hissar), TATA, AL-APPOLO, Prakash-Surya, Bhusan Power & Steel |
| 4 | G.I. Fittings | “R” Brand, Unik, Zoloto |
| 5 | C.I. Class LA Pipes | Electro Steel, Kesoram, Jindal, Kartar |
| 6 | Stone ware pipes | Bhaskar, Anand, Perfect, Parry |
| 7 | R.C.C. Pipes | ISI marked of approved Quality |
| 8 | CPVC Pipes and Fittings | Supreme, Astral, Ashirvad |
| 9 | CI Sluice valve | Kirloskar, IVC, Sondhi, Kejriwal |
| 10 | MS Pipe | TATA, Jindal (Hissar), Bhusan Power & Steel |
| 11 | SS sheet for pipes | Jindal, Rampart/POSCO/J-Press |
| 12 | PTMT Bath fittings | PRAYAG, PRIMA, PEARL, |
| 13 | Gun metal Gate Valve | LEADER, SANT, PRIMA |
| 14 | PPR Pipe | SFMC, Fusion |
| All other items shall be of ISI marked/as per approved sample kept at site of work. | | |

Schedule of Quantity

| Name of work :- Construction of Parents room with sanitary installation of JNV Pailapool, Cachar, Assam | | | | | |
|--|---|-----------------|-------------|-------------|---------------|
| Item No. | Particulars | Quantity | Unit | Rate | Amount |
| 1. | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m inwidth or 10 sqm on plan), including dressing of sides and ramming of bottoms, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. | | | | |
| 1.1 | All kinds of soil | 50.00 | cum | 218.60 | 10930.00 |
| 2. | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and for all lift. | 33.00 | cum | 161.60 | 5333.00 |
| 3 | Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete. | 4.00 | cum | 2161.20 | 8645.00 |
| 4. | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : | | | | |
| 4.1 | 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) | 0.40 | cum | 7365.15 | 2946.00 |
| 4.2 | 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) | 6.00 | cum | 6050.65 | 36304.00 |
| 5 | Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing: | | | | |

| | | | | | |
|-----|---|------|-----|----------|----------|
| 5.1 | 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) | 0.20 | cum | 8515.55 | 1703.00 |
| 6 | Centering and shuttering including strutting, propping etc. and removal of form work for : | | | | |
| 6.1 | Foundations, footings, bases for columns | 6.00 | sqm | 332.10 | 1993.00 |
| 7 | Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate | 7.00 | sqm | 370.85 | 2596.00 |
| 8 | Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : | | | | |
| 8.1 | 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) | 9.00 | cum | 8364.20 | 75278.00 |
| 9 | Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : | | | | |
| 9.1 | 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) | 2.20 | cum | 9861.70 | 21696.00 |
| 10 | Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived | 9.00 | cum | 10391.40 | 93523.00 |

| | | | | | |
|------|--|---------|-----|---------|-----------|
| | from natural sources). | | | | |
| 11 | Centering and shuttering including strutting, propping etc. and removal of form for: | | | | |
| 11.1 | Foundations, footings, bases of columns, etc. for mass concrete | 14.00 | sqm | 332.10 | 4649.00 |
| 11.2 | Suspended floors, roofs, landings, balconies and access platform | 41.00 | sqm | 766.55 | 31429.00 |
| 11.3 | Lintels, beams, plinth beams, girders, bressumers and cantilevers | 71.00 | sqm | 608.35 | 43193.00 |
| 11.4 | Columns, Pillars, Piers, Abutments, Posts and Struts | 33.00 | sqm | 804.25 | 26540.00 |
| 11.5 | Weather shade, Chajjas, corbels etc., including edges | 3.50 | sqm | 821.35 | 2875.00 |
| 12 | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. | | | | |
| 12.1 | Thermo-Mechanically Treated bars | 930.00 | kg | 89.65 | 83375.00 |
| 13 | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. | | | | |
| 13.1 | Thermo-Mechanically Treated bars | 1156.00 | kg | 89.65 | 103635.00 |
| 14 | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: | | | | |
| 14.1 | Cement mortar 1:6 (1 cement : 6 coarse sand) | 7.00 | cum | 6658.25 | 46608.00 |
| 15 | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : | | | | |
| 15.1 | Cement mortar 1:6 (1 cement : 6 coarse sand) | 14.30 | cum | 8288.40 | 118524.00 |
| 16 | Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in | | | | |
| 16.1 | Cement mortar 1:4 (1 cement :4 coarse sand) | 22.00 | sqm | 1018.05 | 22397.00 |

| | | | | | |
|------|---|-------|------|---------|----------|
| 17 | Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. | 18.00 | sqm | 1063.45 | 19142.00 |
| 18 | Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured). | 1.00 | sqm | 148.50 | 149.00 |
| 19 | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. | | | | |
| 19.1 | 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws | 2.00 | sqm | 3086.10 | 6172.00 |
| 20 | Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. | | | | |
| 20.1 | Fixed to steel windows by welding | 45.00 | kg | 181.00 | 8145.00 |
| 21 | Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete : | | | | |
| 21.1 | 300x16 mm | 1.00 | each | 260.30 | 260.00 |
| 22 | Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : | | | | |

P-80

| | | | | | |
|------|---|------|------|--------|---------|
| 22.1 | 250x10 mm | 2.00 | each | 104.40 | 209.00 |
| 23 | Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : | | | | |
| 23.1 | 125 mm | 2.00 | each | 60.05 | 120.00 |
| 24 | Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete. | | | | |
| 24.1 | Twin rubber stopper | 1.00 | each | 62.25 | 62.00 |
| 25 | Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge. | 5.00 | mtr | 408.25 | 2041.00 |

| | | | | | |
|------|---|------|-----|---------|---------|
| 26 | <p>Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.</p> | | | | |
| 26.1 | 30 mm thick pre laminated PVC door shutters | 2.00 | sqm | 2455.10 | 4910.00 |
| 27 | <p>Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.</p> | | | | |

| | | | | | |
|------|--|-------|-----|---------|----------|
| 27.1 | Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) | 19.00 | kg | 114.65 | 2178.00 |
| 28 | Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete. | | | | |
| 28.1 | Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides | 4.00 | sqm | 971.55 | 3886.00 |
| 29 | Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete. jointing with grey cement slurry @ 3.3 kg/ sqm including pointing the joints with white cement and matching pigments etc., complete. | 5.00 | sqm | 935.60 | 4678.00 |
| 30 | Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. | | | | |
| 30.1 | Size of Tile 600x600 mm | 31.00 | sqm | 1416.65 | 43916.00 |
| 31 | Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. | | | | |
| 31.1 | Size of Tile 600x600 mm | 3.00 | sqm | 1466.50 | 4400.00 |

| | | | | | |
|--------|--|--------|------|--------|----------|
| 32 | Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. | | | | |
| 32.1 | 110 mm diameter | 6.00 | mtr | 319.75 | 1919.00 |
| 33 | Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. | | | | |
| 33.1 | Coupler | | | | |
| 33.1.1 | 110 mm | 2.00 | each | 119.95 | 240.00 |
| 33.2 | Single tee with door | | | | |
| 33.2.1 | 110x110x110 mm | 2.00 | each | 205.45 | 411.00 |
| 33.3 | Bend 87.5° | | | | |
| 33.3.1 | 110 mm bend | 2.00 | each | 132.00 | 264.00 |
| 33.4 | Shoe (Plain) | | | | |
| 33.4.1 | 110 mm Shoe | 2.00 | each | 115.95 | 232.00 |
| 34 | Providing and fixing unplasticised - PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. | | | | |
| 34.1 | 110 mm | 6.00 | each | 310.85 | 1865.00 |
| 35 | Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams. | 2.00 | each | 47.90 | 96.00 |
| 36 | 12 mm cement plaster of mix : | | | | |
| 36.1 | 1:6 (1 cement: 6 coarse sand) | 103.00 | sqm | 294.35 | 30318.00 |
| 37 | 15 mm cement plaster on the rough side of single or half brick wall of mix : | | | | |
| 37.1 | 1:6 (1 cement: 6 coarse sand) | 103.00 | sqm | 339.10 | 34927.00 |
| 38 | Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. | | | | |
| 38.1 | 12 mm cement plaster | 17.00 | sqm | 386.55 | 6571.00 |
| 39 | 6 mm cement plaster of mix : | | | | |
| 39.1 | 1:3 (1 cement : 3 fine sand) | 46.00 | sqm | 253.05 | 11640.00 |

| | | | | | |
|------|--|--------|------|---------|----------|
| 40 | Distemping with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre, of approved manufacturer, of required shade and colour complete, as per manufacturer's specification. | | | | |
| 40.1 | New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre | 148.00 | sqm | 154.60 | 22881.00 |
| 41 | Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: | | | | |
| 41.1 | New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 ltr/10 sqm) | 119.00 | sqm | 142.95 | 17011.00 |
| 42 | Applying priming coat: Applying priming coat | | | | |
| 42.1 | With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood | 3.00 | sqm | 61.45 | 184.00 |
| 43 | Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : | | | | |
| 43.1 | Two or more coats on new work | 7.00 | sqm | 131.45 | 920.00 |
| 44 | Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete. | 148.00 | sqm | 123.85 | 18330.00 |
| 45 | Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: | | | | |
| 45.1 | White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests | 1.00 | each | 5781.35 | 5781.00 |
| 46 | Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick PVC board ground fixed to wooden cleats with C.P. brass screws and washers complete. | 1.00 | each | 1411.15 | 1411.00 |

| | | | | | |
|--------|---|------|------|---------|---------|
| 47 | Providing and fixing soil, waste and vent pipes : | | | | |
| 47.1 | 100 mm dia | | | | |
| 47.1.1 | Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989 | 3.00 | mtr | 1077.40 | 3232.00 |
| 48 | Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. : | | | | |
| 48.1 | For 100 mm dia pipe | 2.00 | each | 308.45 | 617.00 |
| 49 | Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete. | | | | |
| 49.1 | 100 mm dia | | | | |
| 49.1.1 | Sand cast iron S&S as per IS - 3989 | 2.00 | each | 597.60 | 1195.00 |
| 50 | Providing and fixing plain bend of required degree. | | | | |
| 50.1 | 100 mm dia | | | | |
| 50.1.1 | Sand cast iron S&S as per IS - 3989 | 2.0 | each | 439.75 | 880.00 |
| 51 | Providing and fixing heel rest sanitary bend | | | | |
| 51.1 | 100 mm dia | | | | |
| 51.1.1 | Sand cast iron S&S as per IS - 3989 | 2.0 | each | 439.75 | 880.00 |
| 52 | Providing and fixing terminal guard : | | | | |
| 52.1 | 100 mm | | | | |
| 52.1.1 | Sand cast iron S&S as per IS - 3989 | 1.00 | each | 439.75 | 440.00 |
| 53 | Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter : | | | | |
| 53.1 | 100 mm | 4.0 | each | 549.65 | 2199.00 |
| 54 | Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work : | | | | |
| 54.1 | 100 mm diameter pipe | 2.00 | mtr | 69.55 | 139.00 |
| 55 | Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour. | | | | |

| | | | | | |
|------|--|-------|------|--------|---------|
| 55.1 | 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms. | 1.00 | each | 600.35 | 600.00 |
| 56 | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. | | | | |
| 56.1 | 20 mm nominal outer dia Pipes | 5.00 | mtr | 512.40 | 2562.00 |
| 57 | Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on wall | | | | |
| 57.1 | 25 mm dia nominal bore | 8.00 | mtr | 491.20 | 3930.00 |
| 57.2 | 32 mm dia nominal bore | 4.00 | mtr | 563.55 | 2254.00 |
| 57.3 | 40 mm dia nominal bore | 10.00 | mtr | 725.15 | 7252.00 |
| 58 | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : | | | | |
| 58.1 | 25 mm nominal bore | 1.00 | each | 532.35 | 532.00 |
| 58.2 | 32 mm nominal bore. | 1.00 | each | 589.90 | 590.00 |
| 58.3 | 40 mm nominal bore | 1.00 | each | 707.30 | 707.00 |
| 59 | Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work : | | | | |
| 59.1 | 25 mm diameter pipe | 8.00 | mtr | 25.60 | 205.00 |
| 59.2 | 32 mm diameter pipe | 4.00 | mtr | 30.70 | 123.00 |
| 59.3 | 40 mm diameter pipe | 10.00 | mtr | 36.05 | 361.00 |
| 60 | Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) : | | | | |
| 60.1 | 25 mm nominal bore | 1.00 | Each | 369.35 | 369.00 |
| 60.2 | 32 mm nominal bore | 1.00 | Each | 409.45 | 409.00 |
| 60.3 | 40 mm nominal bore | 1.00 | Each | 523.20 | 523.00 |

| | | | | | |
|--------|--|--------|---------|--------|---------|
| 61 | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISi : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. | 500.00 | per ltr | 9.70 | 4850.00 |
| 62 | Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 | | | | |
| 62.1 | 15 mm nominal bore | 1.00 | each | 500.35 | 500.00 |
| 63 | Providing and fixing PTMT bib cock of approved quality and colour. | | | | |
| 63.1 | 15mm nominal bore, 86 mm long, weighing not less than 88 gms | 1.00 | each | 109.85 | 110.00 |
| 64 | Providing and fixing PTMT grating of approved quality and colour. | | | | |
| 64.1 | Circular type | | | | |
| 64.1.1 | 100 mm nominal dia | 1.00 | each | 33.20 | 33.00 |
| 65 | Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms | 2.00 | each | 136.60 | 273.00 |
| 66 | Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour. | | | | |
| 66.1 | 15 mm nominal bore with 45 cm length | 2.00 | each | 107.90 | 216.00 |
| 67 | Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : | | | | |

| | | | | | |
|--------|---|-------|-----|--------------|-------------------|
| 67.1 | For fixed portion | | | | |
| 67.1.1 | Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) | 26.00 | kg | 433.95 | 11283.00 |
| 68 | For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) | | | | |
| 68.1 | Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) | 23.00 | kg | 521.25 | 11989.00 |
| 69 | Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge (Cost of aluminium snap beading shall be paid in basic item): | | | | |
| 69.1 | With float glass panes of 4.0 mm thickness (weight not less than 10 kg/sqm) | 4.00 | sqm | 1019.80 | 4079.00 |
| 70 | Grading roof for water proofing treatment with | | | | |
| 70.1 | Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) | 2.00 | Cum | 7510.75 | 15022.00 |
| | | | | Total | 1077795.00 |
| | Add GST 18% Instead of 12% (including in DSR -2021) with a multiplying factor of 0.0633 for additional GST. | | | | 68224.00 |
| | | | | Total | 1146019.00 |
| | Add cost index for Cachar District, Assam @45% on DSR Items. | 45% | | | 515709.00 |
| | | | | Total | 1661728.00 |

Assistant Engineer(P)

Executive Engineer

PART "C"

PROFORMA OF SCHEDULES

SCHEDULE ‘A’

Schedule of quantities (Electrical): Page 108-111

SCHEDULE ‘B’

Schedule of materials to be issued to the contractor:

| Sl. 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 |
| -----NIL----- | | | | |

SCHEDULE ‘C’

Tools and plants to be hired to the contractor:

| Sl. No. | Description | Hire charges per day | Place of issue |
|-----------------|-------------|----------------------|----------------|
| 1 | 2 | 3 | 4 |
| ----- NIL ----- | | | |

SCHEDULE ‘D’

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

SCHEDULE ‘E’

| | | |
|---|---|---|
| Reference to General Conditions of contract | : | General Conditions of Contract-2023 CPWD-7 with upto date correction slip issued till last date of submission of bid. |
|---|---|---|

| | | |
|-------------------------------------|---|--|
| Name of work: | : | Construction of Parents room with attach toilet at Jawahar Navodaya Vidyalaya, Cachar , Pailapool , Assam (Electrical Work) |
| Estimated cost of Electrical work:- | : | Rs. 2,92,964/- |
| (i) Earnest money:- | : | As per major component |
| (ii) Performance Guarantee:- | : | As per major component |
| (iii) Security deposit :- | : | As per major component |

SCHEDULE ‘F’

| | | |
|-------------------------------|---|------------------------|
| General Rules & Directions: - | : | |
| Officer inviting tender: | : | As per major component |

| | | |
|--|--|---|
| Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3 | : | See below under clause 12 of Schedule 'F' |
| Definitions: | | |
| 2 (v) | Engineer-in-Charge | : Executive Engineer(E)-Silchar, C.P.W.D, Silchar |
| 2 (viii) | Accepting Authority | : As per major component |
| 2 (x) | Percentage on cost of materials and labour to cover all overheads and profits. | : 15% |
| 2 (xi) | Standard schedule of Rates | : DSR-2022 and Market rate |
| 2 (xii) | Department | : C.P.W.D. |
| 9 (ii) | Standard CPWD contract Form GCC 2020, C.P.W.D Form7 modified and corrected up to last date of submission of bid. | : Form-7 |

Clause 1

| | | |
|---|---|------------------------|
| 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 | : | As per major Component |
| Maximum allowable extension with late fee @ 0.1% per day of performance guarantee amount beyond the period provided in (i) above. | : | As per major Component |

Clause 2

| | | |
|--|---|--|
| Authority for fixing compensation under clause- 2. | : | Superintending Engineer-Silchar, CPWD, Silchar |
|--|---|--|

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 | : | As per major Component |
|---|---|------------------------|

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

| Sl. No. | Description of Mile stone(s) (Financial) | Time allowed in days (From date of start): | Amount to be withheld in case of non achievement of mile stone(s): |
|---------|--|--|---|
| 1. | Financial progress of the total cost 10% | 3 Months | In the event of not achieving the milestone, 1% of the tendered value of work will be withheld for failure in achieving each mile stone subject to a maximum amount of 4% |
| 2. | Financial progress of the total cost 30% | 6 Months | |
| 3 | Financial progress of the total cost 65% | 9 Months | |
| 4 | Complete work i/c leveling, dressing etc. 100% | 12 Months | |

| | | |
|------------------------------------|---|------------------------|
| Time allowed for execution of work | : | As per major component |
|------------------------------------|---|------------------------|

Authority to decide:

| | | | |
|-------|---|---|------------------------|
| (i) | Extension of time | : | As per major component |
| (ii) | Rescheduling of mile stones | : | As per major component |
| (iii) | Shifting of date of start in case of delay in handing over of site. | : | As per major component |

Clause 5.1 b (iii)

| | | |
|---|---|------------------------|
| The Contractor shall submit Progress Chart every month using the mutually agreed software or in other format decided by Engineer-in-Charge for the work done during previous month to the Engineer-in-charge on or before 5th day of each month failing which a recovery specific rate @. | : | As per major component |
|---|---|------------------------|

Proforma of schedule clause 5 schedule of handing over of site.

| Part | Portion of site | Description | Time period for handing over reckoned from date of issue of letter of intent |
|--------|--|-------------|--|
| Part A | Portion without any hindrance | | |
| Part B | Portion with encumbrances | | |
| Part C | Portions dependent on work of other agencies | | |

Clause 6

| | | |
|-------------------------------|---|----|
| Clause applicable – (6 or 6A) | : | 6A |
|-------------------------------|---|----|

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. | : | As per major component |
|---|---|------------------------|

Clause 7 A

| | | |
|--------------------------------------|---|-----|
| Whether applicable or not applicable | : | Yes |
|--------------------------------------|---|-----|

Clause 10A

| | | |
|--|---|--|
| List of testing equipment to be provided by the contractor at site lab | : | All equipment required for commissioning |
|--|---|--|

Clause 10 – B(ii)

| | | |
|--|---|----|
| Whether clause 10-B (ii) shall be applicable | : | No |
|--|---|----|

Clause 10C

| | | |
|---|---|-----|
| Component of labour expressed as percent of value of work | : | 15% |
|---|---|-----|

| | | |
|---------------------|---|----------------|
| Clause 10 CA | : | Not Applicable |
|---------------------|---|----------------|

| | | |
|---------------------|---|----------------|
| Clause 10 CC | : | Not Applicable |
|---------------------|---|----------------|

| | | |
|---|---|--|
| Clause 11 | | |
| Specifications to be followed for execution of work | : | CPWD General Specification for Electrical Works Part-I (Internal) 2013, |
| | : | General Specification for Electrical Works PART II (EXTERNAL) 1994, |
| | : | General Specification for Electrical Works PART V (wet riser & sprinkler system) 2006, |
| | : | General Specification for Electrical Works PART VI (Fire detection) 2018, |
| | : | General specification for Heating, Ventilation & Air conditioning (HVAC) work 2017. |
| | : | General Specification for Electrical Works PART VI (Fire detection) 2018, |

| Clause 12 | Type of work | Original work |
|------------------|---|----------------------|
| 12.2.& 12.3 | Deviation limit beyond which clauses 12.2 & 12.3 shall apply for building work. | No Limit |
| 12.5 (i) | Deviation limit beyond which clauses 12.2 & 12.3 shall apply for foundation work. | No Limit |

| | | |
|------|--|-----------------|
| | (except earth work) | |
| (ii) | Deviation limits for items in earth work subhead of DSR or related items | No Limit |

Clause 16

| | | |
|---|---|---|
| Competent Authority for deciding reduced rates. | : | i) Superintending Engineer-Silchar CPWD, Silchar |
|---|---|---|

Clause 18

| | | |
|--|---|-------|
| List of mandatory machinery tools & plants to be deployed by the contractor at site. | : | -Nil- |
|--|---|-------|

Clause 19

| | | | |
|--------------------|--|---|------------------------|
| Clause 19 C | Authority to decide penalty for each default | : | As per major component |
| Clause 19 D | Authority to decide penalty for each default | : | As per major component |
| Clause 19 G | Authority to decide penalty for each default | : | As per major component |
| Clause 19 K | Authority to decide penalty for each default | : | As per major component |

Clause 25

Constitution of Dispute Redressal Committee:

| | | | |
|---|----------|---|------------------------|
| 1 | Chairman | : | As per major component |
| 2 | Member | : | |
| 3 | Member | : | |

Clause 32

Requirement of Technical Representative (s) & recovery Rate

| Sl. No | Minimum Qualification of Technical representative | Number (of Major + Minor component) | Designation (Principal Technical / Technical representative) | Minimum experience | Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 36(i) | |
|-------------|---|-------------------------------------|--|--------------------|---|-------|
| | | | | | Figures | Words |
| ----NIL---- | | | | | | |

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

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

Clause 38

| | | | |
|--|---|---|-----|
| (i) | (a)Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of printed by CPWD with upto date correction slips :- | : | NA |
| (ii) Variations permissible on theoretical quantities: | | | |
| (a) | Cement for works with estimated cost put to tender not more than Rs. 5 lakhs | : | NA |
| | for works with estimated cost put to tender more than Rs 5 lakh | : | NA |
| (b) | Bitumen for all works. | : | NA |
| (c) | Steel Reinforcement and structural steel sections for each diameter, section and category | : | NA |
| (d) | All other materials. | : | Nil |

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

| Sl. No | Description of Item | Rates in figures and words at which recovery shall be made from the Contractor. | |
|-----------|---------------------|---|---|
| | | Excess beyond permissible variation | Less use beyond the permissible variation |
| ---NIL--- | | | |

General Terms and Conditions

1. Location

Jawahar Navoday Vidyalay, Cachar, Pailapool, Assam.

2. Related Documents

These additional specifications are to be read in conjunction with the specification given in the tender. In case any item/items or part thereof are not covered under these specifications, the same shall be carried out as per relevant part of the CPWD **General Specification for Electrical Works Part-I Internal -2013, Part -II External -1994, Part-VII (DG-Set) 2013 as amended upto date**, relevant I.E. rules, BIS/IEC and as per direction of Engineer- in-Charge. These additional specifications are to be read in conjunction with above and in case of variations; specifications given in this additional condition shall apply. However, nothing extra shall be paid on account of these additional specifications and conditions, as the same are to be read along with schedule of quantities for the work. In addition to this if required the instruction of DG set and transformer & sub-station, Government of Assam shall be followed for execution of work. In case of discrepancy among the specifications/conditions as mentioned above the precedence given in general condition of contract shall be followed.

3. Terminology

The definition of terms used in these specifications shall be in accordance with relevant IS.

4. Order of Preference:

In case of discrepancy, if any, between the description of items as given in the Schedule of quantities, technical specifications for individual items of work (including additional and commercial conditions) and IS Codes etc., the following order of preference shall be followed:

- (i) Schedule of quantities
- (ii) Additional and Commercial Conditions
- (iii) Technical specifications specified in the tender
- (iv) General Conditions of Contract for CPWD Works
- (v) Drawings
- (vi) CPWD General Specifications
- (vii) Relevant IS or any other International code in case IS code is not available

5. Site Information

The equipments will be installed at Jawahar Navoday Vidyalay, Cachar, Pailapool, Assam. The tenderer should, in his own interest, visit the site and familiarize himself with the site conditions before tendering.

(ii) General security restrictions are given as under:

- a) No inflammable materials including P.O.L. shall generally be stored at site of work.
- b) The movement of trucks and vehicles will be regulated in accordance with rules and regulations as approved by competent authorities.

- c) The contractor shall inform in advance, the truck registration number, Ownership of the trucks, names and address of the drivers and labours for necessary action by the security agency.
- d) Due to the site conditions, no space for construction of go down and stay of site staff may be allowed.
- e) Names and addresses of labourers/staff along with identity proof and residence address proof etc. working at site shall be furnished in advance for security verification for issue of passes.
- f) The labourers/staff should not be changed too frequently once the verification of the character and antecedents is done.
- g) As and when there will be security requirements, certain additional restrictions can be proposed as per the requirement of the situation.
- h) **IDENTITY CARDS:-** The identity cards will be issued to the workmen employed by the contractor after proper police verification for which Contractor shall submit a list of worker's to be deployed on site of work. The cost of photos would be borne by the contractor. They will be required to carry the identity- cards with them during their working inside the building.
- i) Due to security constraints, all the working personal may not be allowed to carry the mobile phone or any other electronic gadgets. The instruction of security personal in this regard shall be followed religiously.
- j) Therefore in view of the situation explained under above paragraphs the tenderer must visit the site and must get himself acquainted with the proposed site of work, study specifications and conditions carefully before tendering rates. Nothing extra shall be paid on account of compliance of any of these clauses. The hindrance due to security constraints shall be not be accounted towards adjustment of completion time mentioned in the tender document.

6. Conformity with statutory Acts, Rules, Standards and codes

- i) All components shall conform to relevant Indian Standard Specifications, International Standards and shall bear the stamp of the testing laboratory wherever existing and amended to date.
- ii) All electrical works shall be carried out in accordance with the provisions of Indian Electricity Act, 2003 and Indian Electricity Rules, 1956 amended to date. They shall also conform to CPWD General Specifications for Electrical works, Part-I: Internal, 2013, Part-II: external, 1994 and Part IV (Sub-Station) 2013, amended to date.

7. Safety Codes and Labour Regulations

- j) In respect of all labour employed directly or indirectly on the work for the execution of the DG set, sub-station & Transformer, public address and integrated management system contractor's part of work, the contractor at his own expense, will arrange for the safety provisions as per the statutory provision, B.I.S. recommendations, factory act, and workman's compensation act. CPWD code and instructions issued from time to time. Failure to provide such safety requirements would make the tenderer liable for penalty. In addition the Engineer-in-charge, shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost incurred thereon from the contractor.
- iii) The contractor shall provide necessary barriers, signals and other safety measures wherever necessary so as to avoid accident. He shall also indemnify CPWD against claims for compensation arising out of negligence in this respect. Contractor shall be liable, in accordance with the Indian law and Regulations for any accident occurring due to any cause. The department shall not be responsible for any accident occurred or damage incurred or claims arising there from during the execution of work. The contractor to cover the risk. No extra payment would be made to the contractor due to the above provisions thereof.

8. Works to be Arranged by the department

Unless otherwise specified in the tender documents, the following works shall be arranged by the Department:

- i) Space for accommodating all the equipments and components involved in the works. However, arrangement to make it lockable and its watch & ward shall be made by contractor himself.

9. Works to be done by the contractor

Unless otherwise mentioned in the tender documents, the following works shall be done by the contractor and therefore, their cost shall be deemed to be included in their tendered cost-whether specifically indicated in the schedule of work or not: -

- i) Suspenders, brackets and floor/wall supports for suspending/ supporting cable tray etc.
- ii) Painting of all exposed metal surfaces of equipments and components appropriate colour as per relevant part of bid document.
- iii) Making opening in the wall/floors/slabs or modifications in the existing openings wherever provided for cable/cable tray etc. Opening in the slab/retaining walls/brick wall etc. shall be made by means of core cutting machines only.
- iv) All electrical works including cable/wires, earthing etc. beyond power supply made available by the department.
- v) Making good all damages caused to the structure during installation and restoring the same to their original finish.
- vi) Approval from Local Body as may be required as per local bye-laws. (The contractor's responsibility shall be limited to the work executed by him.)

10. Rates

The rate quoted by bidder, shall be firm and inclusive of all taxes, duties and levies and all charges for packing, forwarding insurance, freight and delivery, installation, testing, commissioning etc. at site including temporary constructional storage, risks, overhead charges, general liabilities / obligation etc.

11. Power Supply

Unless otherwise specified, 3 Phase, 415 volts, 50 Hz power supply shall be arranged by the Department free of charge to the contractor at single point in both the block. However, further extension if required shall be made by contractor.

12. Acceptable Makes

The acceptable makes of the various equipments / components / accessories have been indicated in "Acceptable Makes" annexed with this document. The bidders shall work out the cost of the offers on this basis.

Successful bidder is to comply with the Public Procurement (Preference of Make in India), Order 2017 dated 15.06.2017, while executing the contract. If any provision made elsewhere in this NIT, which in contravention with the Make in India policy, the latter shall have preference over the former. Engineer-in-charge will have the final authority to take appropriate decision in the matter.

13 Machinery for Erection

All tools and tackles required for unloading/handling of equipments and materials at site, their assembly, erection, testing and commissioning shall be the responsibility of the contractor.

14 **Completeness of the Tender, Submission of Programme, Approval of Drawings and commencement of work**

i) Completeness of the tender:-

All sundry equipments, fittings, assemblies, accessories, hardware items, foundation blots, supports, termination lugs for electrical connections, cable glands, junction boxes and all other items which are useful and necessary for proper assembly and efficient working of the various equipments and components of the work shall be deemed to have been included in the tender, irrespective of the fact whether such items are specifically mentioned in the tender or not.

ii) Submission of programme:-

Within thirty days from the date of receipt of the letter of award, the successful tenderer shall submit his programme for submission of drawings, supply of equipment, installation, testing, commissioning and handing over of the installation to the Engineer-in-charge. This programme shall be framed keeping in view the building progress and the milestones fixed in Schedule 'F' Clause-5 of CPWD-7 shall be given priority.

iii) Submission of Drawings

The contractor shall submit the drawings to the Engineer-in-Charge for approval before start of work.

iv) Commencement of Work

The contractor shall commence work as soon as the drawings submitted by him are approved either in full or in part as the case may be.

15 Dispatch of Materials to Site and their Safe Custody

The contractor shall dispatch material to site in consultation with the Engineer-in-Charge. Suitable accommodation shall be made available free of charge temporarily. The arrangement to make it lockable/secure by means of partitions, locks etc. shall be responsibility of the contractor. Watch and ward however, shall be the responsibility of contractor. Program of dispatch of material shall be framed keeping in view the building progress. Safe custody of all machinery and equipment supplied by the contractor shall be the responsibility of the contractor till final taking over by the department.

16 **Extent of Work**

The work shall comprises of entire labour including supervision and all material necessary to meet a complete installation and such tests and adjustment and commissioning, as may be required by the department. The term complete installation shall not only mean major items covered by the specification but all incidental sundry components necessary for complete execution and satisfactory performance of

installation with all layout charts whether or not those have been mentioned in detail in the tender documents in connection with this contract as this is a turnkey job.

17 **Compliance with Regulations and Indian Standards:**

17.1 All works shall be carried out in accordance with relevant regulation, both statutory and those specified by the Indian Standards related to the works covered by this specification. In particular, the equipment and installation will comply with the following:

- i) Factories Act.
- ii) Indian Electricity Rules.
- ii) B.I.S. & other standards as applicable.
- iv) Workmen's compensation Act.
- v) Statutory norms prescribed by local bodies like CEA, Power Supply Co., Local Body etc.

17.2 After completion of the installation, the same shall be offered for inspections by the representatives of the Transformer & Substation work service, CEA, Power Supply Co., Local Body etc. The contractor will extend all help including test facilities to the representatives of Transformer & Substation work service, Government of Nagaland and their observations will be attended by the contractor. The installation will be commissioned only after getting clearance from CEA, Power Supply Co., Local Body etc.

17.3 Nothing in this specification shall be construed to relieve the successful tenderer of his responsibility for the design, manufacture and installation of the equipment with all accessories in accordance with currently applicable statutory regulations and safety codes.

17.4 Successful tenderer shall arrange for compliance with statutory provisions of safety regulations and departmental requirements of safety codes in respect of labour employed on the work by the tenderer. Failure to provide such safety requirement would make the tenderer liable for penalty of Rs. 50/- for each default. In addition, the department will be at liberty to make arrangement for the safety requirements at the cost of tenderer and recover the cost thereof from him.

18. **Indemnity :**

The successful tenderer shall at all times indemnify the department, consequent on this works contract. The successful tenderer shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause and the contractor shall be responsible for any accident or damage incurred or claims arising there from during the period of erection, construction and putting into operation the equipments and ancillary equipment under the supervision of the successful tenderer in so far as the latter is responsible. The successful tenderer shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the successful tenderer on account of the above.

19. **Co-ordination with other Agencies**

The contractor shall co-ordinate with all other agencies involved at the site of work so that the work of other agencies is not hampered due to delay in his work. The work, which directly affect the progress of work of other agencies, shall be given priority.

20. **Verification of Correctness of Equipment at Destination:**

The contractor shall have to produce all the relevant records to certify that the genuine equipments from the manufacturers has been supplied and erected.

21. **Care of the Building**

Care shall be taken by the contractor during execution of the work to avoid damage to the building. Care shall also be taken by the contractor to avoid the damage to any of these existing service/service lines, any part of the building etc. If any damage is caused to any of the existing services/service lines, or any part of the building the same shall be repaired /

rectified and made functional or restored so its original finish by the contractor immediately at his own expenses failing which the same shall be repaired/ rectified and made functional by department at the risk and cost of the contractor. The decision of the Engineer-in-charge in this regard shall be final & binding. He shall also remove all unwanted and waste materials arising out of the installation from the site of work from time to time.

22. Quality of Materials and Workmanship

- (i) The components of the installation shall be such design so as to satisfactorily function under all conditions of operation.
- (ii) The entire work of manufacture/fabrication, assembly and installation shall conform to sound engineering practice.
- (iii) All equipments and material to be used in work shall be manufactured in factories of good repute having excellent track record of quality manufacturing, performance and proper after sales service.
- (iv) All equipments and materials to be used in the work shall be brand new having its date of manufacturing not more than 6 month old from the date of delivery at site with manufacturer's certificates, warrantee cards, technical catalogues, instructions, manuals and wiring diagrams etc.

23. Safety Measures

All equipments shall incorporate suitable safety provision to ensure safety of the operating personnel at all times. The initial and final inspection reports shall bring out explicitly the safety provisions incorporated in each equipment.

24. Guarantee

- i) The contractor shall guarantee the complete system to maintain the specified conditions under all conditions of ambient temperature.
- ii) All equipments shall be guaranteed for a period of 12 months from the date of acceptance and taking over of the installation by the department against unsatisfactory performance and/ or breakdown due to defective design, material, manufacture, workmanship or installation. The equipment or component or any part thereof so found defective during the guarantee period shall be repaired or replaced free of cost to the satisfaction of the Engineer-in-Charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of Engineer-in-Charge in this regard shall be final.

25. Taxes and Duties

The tender is for entering into percentage rate works contract. The rates shall be inclusive of all taxes, duties, levies, cess, packing, transportation, handling etc. Statutory deduction of GST as applicable shall be made at source from each running /final bill payment. A certificate of TDS shall be issued by the department to the contractor.

26. Terms of Payments:

On account payments for part work (After stipulated and statutory deductions) as assessed by the Engineer-in-Charge for the applicable items in the contract shall be payable at part rates. Stages of payment for "Distribution Boards, MCBs, LED fittings, BLDC fans, street light panel, HDPE pipes UG cables etc."

P-102

| S.No. | Stage of work | Percentage of Rate |
|-------|---|--------------------|
| a | On initial inspection of material and delivery at site in good condition on pro-rata basis. | 70% |
| b | On completion of installation on pro-rata basis. | 15% |
| c | On completion of testing and commissioning. | 10% |
| d | At the time of payment of final bill. | 5% |

Executive Engineer(E)
Silchar Electrical Division
CPWD, Silchar, Assam-03

TECHNICAL CONDITIONS FOR ELECTRICAL WORK /INSTALLATION

1. All the works shall be carried out as per CPWD General Specifications for Electrical Works Part-I (Internal) 2013 & Part-II (External) 1994 Electricity Act, 2003 and Indian Electricity Rules, 1956 amended up to date.
2. Installations of split A.C. in the building, necessary openings in wall may be provided by with use of 75 mm PVC pipe sleeves at suitable locations for taking refrigerant pipes and cable to outdoor unit, so as to avoid unnecessary cutting/ damage to walls at a later stage. The slope of sleeve of PVC pipe should be towards exterior to avoid seepage of water into the room. This opening should be sealed properly after installation to avoid entry of vermin and rain water.
3. The condensate drain Pipe should be 40 mm PVC/ HDPE pipe be also provided and taken to nearest drain or up to the stack for collection & disposal of condensate. The slope of such pipe should be downwards. As far as possible, joints should be avoided in this pipe.
4. The length of connecting refrigerant pipes between outdoor and indoor unit be kept to minimum feasible at site. As the efficiency of the unit gets severely affected on increase of distance. The refrigerant pipes should be taken along the walls/ columns etc. duly clamped to their surface by proper saddling If walls etc. are not available, tray be used to support the refrigerant pipes.
5. The refrigerant pipes should be properly insulated as per the recommendations of the manufacturer of split type AC units.
6. General requirements of components:
 - 6.1 The MCB should be of same make as that of MCB DBs.
 - 6.2 The fan box cover shall be made from thick phenolic laminated sheet cover as per CPWD specification.
 - 6.3 The metallic junction boxes & looping boxes shall be covered with approved makes of phenolic laminated sheet.

7. Ratings of components:

All components in a wiring installation shall be of appropriate ratings of voltage, current and frequency, as required at the respective sections of the electrical installations in which they are used.

8. The laying of conduit in roof will be done properly and with due care and coordination with other agencies. The contractor shall keep a close watch on civil work and maintain proper coordination among all other discipline so that the laying of electrical conduit on roof slab is done as soon as the roof shuttering is ready.
9. The layout and orientation of conduit in roof slab as well as that in wall and position of DBs, switch boxes and fittings shall be finalized in consultation with the Engineer-in-charge or his authorized representative and as per drawings approved by the department, the conduit layout drawings are to be submitted by the contractor as per the site feasibility. Sizes of the conduits shall be as per the CPWD specification. When any deviation from the drawing is required, the same shall be finalized in consultation with the engineer-in-charge or his authorized representatives.
10. The decision of the engineer-in-charge is final. The wires / cables used for point wiring, circuit wiring, sub-main wiring, power wiring and other wirings shall be done by FRLS grade PVC insulated copper conductor single core cable of 1100 V grade and of makes as specified in the list of accepted makes of materials. All the wires should be terminated to the switch box / DB / MCB etc. by crimping with suitable size tinned copper lugs, unless the wire is single stranded. Nothing extra shall be paid on this account.
11. Changes / revisions incorporated by the civil wing in the construction and / or modification done in the drawings shall have to be co-related and decision of the engineer-in-charge should be obtained in case of any change. Junction boxes / pull through boxes of appropriate size shall be provided wherever required within the quoted rates. However, the length of conduit will be measured on linear basis wherever specified for linear measurements, including the length of box. Where more than one conduit is laid side by side, instead of small junction boxes for each

conduit one composite / common junction box shall be used within the quoted rates. Hidden / concealed items and earthing work shall be done in the presence of the Engineer-In-charge of the work or his authorized representative only.

12. The contractor shall give due notice for such work in advance to the department. The wireman / electrician engaged shall possess valid electrical workman permit in appropriate category as per prevailing rules. Recess type fittings which shall have to be fixed in false ceiling in recess, if any, shall be hanged from the real ceiling by conduit / GI wire or chain as required for which nothing extra shall be paid.
13. Wires to be terminated up to the fittings through the steel conduit / PVC flexible conduit as required. The extended portion shall be deemed to be included in the point wiring, nothing extra shall be paid. The GA drawing showing layout of the main board, allied equipment, if any, shall be got approved by the contractor from the engineer-in-charge before fabrication and execution.
14. The contractor shall have to furnish the insulation test report, earth test report, along with all required details of electrical load on the prescribed Performa for the electric connection from the supply company. The contractor shall submit the completion certificates and completion plan as per clause 1.26 of General specification for Electrical work (Part-I Internal)-2013.
15. The chases in wall shall be done by chase cutting machines, for which the contractor shall arrange adequate numbers of chase cutting machines i.e. chase cutters for cutting chases in wall etc. for laying of conduit within the scope of work within the quoted rates.
16. Unless otherwise single sided signage is specifically requisitioned by the engineer-in-charge, the LED type electric signage shall be of both sided type. The signage shall be with battery backup for 2 hours. The inscription shall be as to be decided by the client / Engineer in charge. The photo luminescent signage may have to be installed on wall / in recess or to be hanged from ceiling. In case of hanging from ceiling, suitable anti-corrosive steel chains should be used for hanging the signage. Electrical connection to the signage shall be done by 2 x 1.5 sq.mm copper conductor single core FRLS PVC cable to be drawn with PVC sleeve / PVC flexible conduit as deemed fit.
17. The connections of switches, sensors, earthing conductors & interconnections cables shall be made by adequate rating thimbles of approved standard makes only and nothing extra on this account shall be paid. If not complied, recovery shall be made @ Rs.50/ point / MCB. During laying of conduit, Fish wire shall be drawing into conduit without any extra cost. If not complied, recovery shall be made @ Rs.50/ point / MCB.
18. Modular type switches / sockets / telephone outlets / TV sockets are to be provided wherever indicated in the items. The same shall be of only one make. The modular plates of switches, sockets, telephone & TV sockets etc. shall be in two parts i.e. plates with metal base frames within quoted rates. Switch with power point will be with On/Off indicating lamp.
19. Metal double door DB shall have minimum IK 9 protection. Agency will submit technical submittal for same.
20. Adequate care to ensure that only tested and genuine materials of proper quality are used in work shall be ensured by firm.
21. Similarly, for fabricated equipment, the contractor will first submit dimensional detailed drawings for approval before fabrication is taken up in the factory. Suitable stage inspection at factory also will be made to ensure proper use of materials, workmanship and quality control.
22. The contractor shall give a trial run of Electrical Installation/ machinery for establishing its capability to achieve the specifications within laid down tolerances to the satisfaction of the Engineer-in-charge.
23. Provisions for services and proper planned of electrical work: -
The main contractor shall make provision such recesses, holes, openings, etc., as may be required for the electric, air conditioning and other related works. The main contractor has also to fix inserts, sleeves, brackets, conduits, base plates, insert plates, clamps etc. if any at

the time of casting of concrete, stone work & brick work. These inserts, sleeves, brackets, conduits, base plates, insert plates, clamps etc. shall be arranged by the contractor and shall be paid accordingly if these are not the part of equipment for which it is being provided.

24. The contractor shall ensure quality construction in a planned and time bound manner. Any substandard material or work which is not within permissible tolerance limits shall be summarily rejected by the Engineer-in-Charge.
25. The contractor shall make sample of installation using all approved materials, for approval of Engineer-in-charge before commencement of execution of mass scale work.
26. Check nuts shall be provided while terminating the M.S. conduits in switch board boxes for which nothing extra shall be paid.
27. All distribution boards shall be marked with circuits controlling the rooms/area/SDB controlled (preferable PVC Stickers). For noncompliance recovery shall be made @ Rs. 1000/- per DB.
28. Contractor will not provide any ceiling rose/connector/looping box etc. wherever false ceiling is being provided. The point wiring in that case will be extended up to the false ceiling level with suitable size connector and Flexible metal conduit. The wire from the end point up to the fixture shall be considered to be included in the point wiring. Nothing extra shall be paid for the same.
29. In electrical installation, only rigid conduits shall be used. Wherever providing of rigid conduits is not possible, flexible conduit pipe shall be provided for drawing/running the wires. However, such arrangement has to be kept minimum and only with the prior approval of Engineer-in-charge or his authorized representative.
30. Earthing and all items of work that cannot be checked later on are to be got approved from Engineer-in-charge or his authorized representative before proceeding further.
31. The contractor shall follow the shortest route for circuits, sub main, point wiring etc.
32. To facilitate drawing GI fish wire shall be provided along with laying of recessed conduit. Nothing extra shall be paid on this account.
33. All hardware items such as screws, thimbles, connectors, earth / neutral terminals, wires etc. which are essentially required for completing any item as per specifications will be deemed to have been included in the item even when the same have not been specifically mentioned.
34. All hardware material such as nuts / bolts / screws / washers etc. to be used in the work for switches shall be zinc / cadmium plated iron. The galvanized boxes of modular switch / sockets etc. shall be of the same make as of switch / socket etc.
35. All earthing material (plate, strip, wire) should be hot dip galvanized as. All concealed works and earthing shall have to be done in the presence of Engineer-in-Charge or his authorized representative.
36. While laying conduit, suitable minimum number of junction boxes shall be left for pulling the wires. These shall be placed in such a way that the same do not remain noticeable.
37. The ceiling roses wherever required to be provided are included in the scope of work without extra payment and the same shall also be of modular type & of the same make as that of switches & sockets along with earthing provision.
38. The contractor has to go through the site order book regularly and has to sign the same by authorized representative and carryout the instructions recorded therein by various officers of the department.
39. In case of LED bulbs/fittings all the LED bulbs/fittings shall be guaranteed for a period of 5 years.

LIST OF ACCEPTABLE MAKES OF ELECTRICAL ITEMS

Name of Work: - “Construction of Parents room with attach toilet at Jawahar Navodaya Vidyalaya,Cachar , Pailapool , Assam (Electrical Work)

APPENDIX-I

| Sl. No. | ITEM | APPROVED MAKE |
|---------|--|--|
| 1 | PVC insulated copper FRLS conductor wires (To be ISI Marked Only) | RR Kabel/ Havells/ Polycab/ Anchor/ Finolex(ISI Marked) |
| 2 | M.S. PIPE (To be ISI Marked Only) | AKG / NIC / BEC / AST/VIKAS/TATA / Jindal |
| 3 | Modular switch & socket, stepped type fan regulator, Modular blank plate, GI Box (To be ISI Marked Only) | Anchor/MK(Blenze Plus)/ /Legrand (Myris)/Havells |
| 4 | Integrated LED 4 feet LED Batten light | Havells (-REGALBATTENT 8UPTO1X22WSSBSWHNW) or equivalent in Philips/Crompton/ Bajaj/Jaquar/Wipro |
| 6 | 36 watt 2X2 Surface/Recess down light LED fitting | Havells(Model- PLANO2X2PLR36WLED830TAPS) or equivalent in /Philips/Crompton/Jaquar/Wipro/Bajaj |
| 9 | 9/10 Watt LED Wall bracket Light fitting | Havells(Model-Globe/Apple)or equivalent in Philips/Crompton/ Bajaj/Jaquar/Wipro |
| 10 | LED Surface Down Light 10-12 watt | Bajaj (model -BGSLO SLEEK SURFACE 12W) or equivalent in Philips/Crompton/ Havells /Jaquar/Wipro |
| 11 | 1200 mm sweep, BEE 5 star rated BLDC Ceiling Fan | Usha (Model Energia 32 5 star) or Equivalent in Orient/ Khaitan/ Bajaj / Havells/Crompton |
| 12 | Fresh Air fan with louvers of 250 mm sweep | Bajaj (Model - Maxima DXL 250) Equivalent in Orient/ Khaitan/ Usha / Havells/Crompton |
| 13 | DB / MCB / Isolator / Cable End Box | L&T/C&S/Siemens/Legrand/ Schneider/Havells |
| 14 | MCCBs | L&T(Model- dSine) or equivalent in C&S/Legrand/Siemens/Schneider/Havells |
| 15 | Power Cable/UG Cable | Havells/ Polycab/ Finolex / KEI / Crystal/RR Kabel/Richa |
| 16 | Cable Lugs | Dowell, Multi , A1 Electric |
| 17 | Fire Extinguisher | Life Guard / Padmini / Safe Guard / Minimax / Fire Shield / New age |
| 18 | DWC pipe(To be ISI Marked Only) | Duraline/Rex/Tirupati/Plastomatics/Zen Plasto / NEC |

NOTES:-

The acceptable makes of the various equipments / components / accessories have been indicated in “Acceptable Makes” annexed with this document. The bidders shall work out the cost of the offers on this basis.

Successful bidder is to comply with the Public Procurement (Preference of Make in India), Order 2017 dated 15.06.2017, while executing the contract. If any provision made elsewhere in this NIT,

which in contravention with the Make in India policy, the latter shall have preference over the former. Engineer-in-charge will have the final authority to take appropriate decision in the matter.

Executive Engineer(E)
Silchar Electrical Division
CPWD, Silchar, Assam-03

SCHEDULE OF WORK

Name of Work :Construction of Parents room with attach toilet at Jawahar Navodaya
Vidyalaya,Cachar , Pailapool , Assam (Electrical Work)

| Sl. No. | Description of item | Quantity | | Rate | Unit | Amount |
|---------|---|----------|--------|------|-------|--------|
| 1 | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. | | | | | |
| | a) Group "C" | 24 | Points | 1845 | point | 44280 |
| 2 | Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit along with 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. | 70 | mtrs | 433 | mtr | 30310 |
| 3 | Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit along with 2 Nos 4 sq. mm FR PVC insulated copper conductor single core cable for loop earthing as required. | 30 | mtrs | 662 | mtr | 19860 |
| 4 | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required | | | | | |
| | a) 2 X1.5 sq mm +1X1.5 sq. mm earth wire | 30 | mtrs | 327 | mtr | 9810 |
| 6 | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. | | | | | |
| | d) TV socket outlet | 1 | Nos | 148 | each | 148 |
| 7 | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc.as required. | | | | | |
| | a) 1 or 2 Module (75mmX 75 mm) | 1 | Nos | 298 | each | 298 |
| 8 | Supplying and fixing suitable size GI box with fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch etc. as required. | 2 | Nos | 586 | each | 1172 |

P-109

| | | | | | | |
|----|---|---|-----|---------|------|--------|
| 9 | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. 3 pin 5/6 amps modular socket outlets and 2 nos 5/6 amps modular switches, connection etc. as required. (For light plugs to be used in non residential buildings). | 6 | Nos | 676 | each | 4056 |
| 10 | Supplying & fixing suitable size GI box with fixing 25 A modular socket outlet and 25 A modular SP MCB, "C" curve etc. as required. | 3 | Nos | 727 | each | 2181 |
| | Total | | | | | 112115 |
| | SH-II (Fan & LED Fittings) | | | | | |
| 1 | Supplying, Installation, testing and commissioning of 2 feet x 2 feet Ultra modern designed architectural 32- 36 watt surface/recess mounted square LED luminaire having system lumen not less than 3200 lumen complete with all accessories directly on ceiling/wall i/c connection with 1.5 sq mm FRLS insulated copper conductor single core cable and earthing etc as reqd. | 6 | nos | 5625.00 | each | 33750 |
| 2 | Supplying, Installation, testing and commissioning of 9-11 watt 2 feet LED compact batten light fitting for mirror lighting complete with all accessories i/c connection etc as required. | 1 | nos | 241.00 | each | 241 |
| 3 | Supplying, Installation, testing and commissioning of following surface mounted square/Round type LED down light luminaire with aluminium die cast housing complete with diffuser, all accessories directly on ceiling/wall i/c connection with 1.5 sq mm FRLS insulated copper conductor single core cable and earthing etc as reqd. | | | | | |
| | a)9-12 watt | 2 | nos | 1136.00 | each | 2272 |
| 4 | Supplying & Erection of energy saving surface mounted, 9 to 11 watt, IP 66 LED Bulk head fitting comprising high brightness LEDs suitable for operation on 240 V, 50 Hz, single phase AC supply complete & all accessories i/c connection etc as required | 6 | nos | 1518.00 | each | 9108 |
| 5 | Supplying & Fixing of LED wall bracket fitting made of polycarbonate, complete with 1 no. 9w/ 10w LED lamp i/c connection with 1.5 sq. mm, FRLS PVC insulated copper conductor and all accessories as required. | 4 | nos | 748.00 | each | 2992 |

| | | | | | | |
|---|---|----|-----|---------|------|-------|
| 6 | Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS : 374- 2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required. | 4 | nos | 2730 | each | 10920 |
| 7 | Supplying, installation, testing & commissioning of non-mettalic Fresh Air Fan with louvers shutters etc. complete as required. | 1 | nos | 1771.00 | each | 1771 |
| | Total | | | | | 61054 |
| | SH-III (MCB DB and Accessories) | | | | | |
| 1 | Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board etc. as required.(But without MCB/RCCB/Isolator). | | | | | |
| | a) 16 way, Double door | 1 | Nos | 3141 | each | 3141 |
| 2 | Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. | | | | | |
| | a) Single pole | 14 | Nos | 256 | each | 3584 |
| 3 | Supply and fixing following rating,double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required | | | | | |
| | a)63 A | 1 | Nos | 435 | each | 435 |
| 4 | Supplying and fixing Cable End Boxes (IP 43) suitable for tripple pole and neutral,sheet steel, Vertical MCB distribution board, 415 volts, on surface/ recess, complete with testing and commissioning etc. | | | | | |
| | a) 16 way, Double door | 1 | Nos | 1200 | each | 1200 |
| | Total | | | | | 8360 |
| | SH:-IV (Earthing) | | | | | |

P-111

| | | | | | | |
|---|---|----|------|---------|------|--------------------|
| 1 | Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal/ coke and salt) as required. | 1 | Nos | 6855 | each | 6855 |
| 2 | Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required. | 5 | mtrs | 287 | mtr | 1435 |
| 3 | Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required. | 10 | mtrs | 42 | mtr | 420 |
| | Total | | | | | 8710 |
| | SH:-V (MV Cable Laying/DWC Pipe laying/End termination) | | | | | |
| 1 | Supplying and laying of one number 2 x 10 sq mm armoured PVC insulated and PVC sheathed/ XLPE UG power cable, working voltage upto & including 1.1 KV grade with aluminium conductor conforming to IS:7098 (part-I) and ammended upto date in following way as required | | | | | |
| | a) Existing RCC/HUME/METAL pipe | 25 | mtrs | 230.00 | mtr | 5750 |
| | b) In the existing masonry open duct | 5 | mtrs | 223.00 | mtr | 1115 |
| | c) On wall surface | 10 | mtrs | 279.00 | mtr | 2790 |
| 2 | Supplying and laying of following size DWC HDPE pipe etc., complete as required | | | | | |
| | a) 63 mm dia (OD-63 mm & ID-51 mm nominal) | 25 | mtrs | 247 | mtr | 6175.00 |
| 3 | Supplying and making end termination with brass compression gland and aluminium lugs etc as required. | | | | | |
| | a) 2 X 10 sq. mm (19 mm) | 2 | Nos | 241 | each | 482 |
| | Total | | | | | 16312 |
| | SH:-VI(Fire Fighting Equipment) | | | | | |
| 1 | Providing and fixing Dry Chemical Powder Fire extinguiser (Stored Pressure type) (4kg capacity) etc. complete as read. | 2 | Nos. | 3450.00 | Each | 6900 |
| | Total | | | | | 6900 |
| | Total | | | | | 213451.00 |
| | Add Difference of applicable GST 18 % in the palce of 12% (Multiplying Factor = 0.0633) | | | | | 9,290.03 |
| | Total | | | | | 2,22,741 |
| | Add cost enhancement 45% over DPAR'21 C.I of Cachar is 145 (base 100) as on 04/2022 over DPAR'21 | | | | | 70,223.00 |
| | Grand Total | | | | | 2,92,964.03 |
| | Say Rs | | | | | 2,92,964 |

Assistant Engineer(P)
CPWD,Silchar

Executive Engineer
CPWD,Silchar

PART "D"

CENTRAL PUBLIC WORKS DEPARTMENT

N.I.T. NO: 28/NIT/SE/EE-Silchar/CPWD/2023-24.

Name of work: Construction of Parents room with sanitary installation of JNV Pailapool, Cachar, Assam.

SCHEDULE OF QUANTITY

| Name of the Contractor | | | | | |
|-------------------------------|---|---|--|--------------|-------------------|
| Sl. No. | Name of component | Estimated cost (Civil& Electrical) (in ₹) | Percentage above or below the estimated cost | % in Figures | Total Cost (in ₹) |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | Construction of Parents room with sanitary installation of JNV Pailapool, Cachar, Assam | | | | |
| | Civil = | ₹ 16,61,728.00 | | | |
| | Electrical= | ₹2,92,964.00 | | | |
| | Grand Total = | ₹ 19,54,692.00 | | | |

1. The Column Nos 4 & 5 are mandatory to be filled by the bidders/tenderers. If all these columns are left blank, the tender become invalid.
2. The amount in figures in column No.6 shall appear automatically corresponding to the percentage quoted in column No.4 & 5.
3. The tenderer is required to quote the percentage only above or below or at par with the estimated cost to cover all the rates of item covered under the respective packages.
4. The percentage shall be written in 2 (two) place of decimal.
5. If the percentage selection in column No 4 is "At Par", by default the percentage will be considered as "Zero" only. In other words, if "At par" is selected in column No.4, then no need to fill column No.5.

Signature of Contractor

**Executive Engineer,
CPWD,Silchar-03.**

-----Blank page-----