# NOTICE INVITING E-TENDER
# (COMPOSITE TENDER)

| | |
|---|---|
| **N.I.T. No.** | **:** 04/ NIT / FTR / BSF / JAL / 26-27 |
| **Name of Work** | **:** Renovation and Upgradation of Toilet Blocks of ADM Block at Ftr HQ BSF Jalandhar (Pb) |
| **Estimated Cost** | **: Rs. 15,92,600/- (Rupees Fourteen Lakh Ninety Two Thousand Six Hundred)** **(Civil Work: - 13,38,560/- + Elect Work :- 2,54,,040/-)** |
| **Earnest Money** | **: Rs. 31,852/-** |
| **Time allowed** | **: 180 Days** |

Certified that this N.I.T. amounting to **Rs. 15,92,600/- (Rupees Fourteen Lakh Ninety Two Thousand Six Hundred)** only contains **119** pages only, in chronological order.

**AC (Works)**
**FTR HQ PB**

**DC (Elect)**
**FTR HQ PB**

**APPROVED / NOT APPROVED**

**Dy Commandant (Works)**
**FTR HQ BSF PB**

# INDEX

| S.No. | DESCRIPTION | PAGENO. |
|---|---|---|
| 1) | NIT approval (Front page) | 01 |
| 2) | Index | 02 |
| | **PART–A** | 03 |
| 3) | Press Notice (Notice Inviting e-tenders) | 04 |
| 4) | Information and instructions forbidders for e-tendering forming part of bid document and to be uploaded on e-tenders web site. | 05-07 |
| 5) | Format for receipt of deposition of original EMD (Form-A) | 08 |
| 6) | CPWD-6 for e-tendering | 09-16 |
| 7) | Percentage Rate Tender and Contract of Work (FormCPWD-7) | 17-18 |
| 8) | IntegrityPact | 19-20 |
| 9) | Form of bank guarantee for earnest money deposit / performance guarantee / security deposit/mobilization advance | 21-22 |
| 10) | Form of Earnest Money (Bank Guarantee) | 23 |
| 11) | Form of Performance Security (Guarantee) Bank Guarantee Bond | 24-25 |
| 12) | Proforma for Integrity Agreement | 26-31 |
| 13) | Guarantee bond to be executed by contractors for removal of defects after completion in respect of water proofing works. | 32-33 |
| | **PART–B(MajorComponent)** | 34 |
| 14) | Proforma of schedules (A to F) | 35-41 |
| 15) | General conditions | 42-49 |
| 16) | Special conditions for cement & Steel | 50-55 |
| 17) | Additional Conditions | 56-57 |
| 18) | General Specifications | 58-59 |
| 19) | Particular Specifications (civil works) & Special conditions | 60-61 |
| 20) | List of testing Equipment to be provided by the contractor at site | 62-63 |
| 21) | List of approved manufactures / suppliers(General) | 64-67 |
| | **PART–C(MinorComponent)** | 68 |
| 22) | Proforma of Schedules–(AtoF) | 69-74 |
| 23) | Clause 10–A & 18 (Annexure) | 75 |
| 24) | Proforma for Associating Agency for E & M Works (Proforma-A) | 76 |
| 25) | Special Conditions (for all E & M component) | 77-78 |
| 26) | Form-G Consent Letter from Associated agency for E & M works | 79 |
| 27) | Form–H (Proforma for eligible associating agencies for minor components of work) | 80 |
| 28) | Form-I(Memorandum of Understanding) | 81 |
| 29) | Willingness Certificate | 82 |
| 30) | General Terms and Conditions & Special conditions for Electrical installation | 83-92 |
| 31) | Form of supplementary Agreement | 93-94 |
| 32) | Building Drawing and Specifications | 95 |
| 33) | Compliance to make inIndia policy | 96 |
| 34) | List of approved makes to be incorporated in tender documents (E & M works) | 97-106 |
| 35) | Proforma for quoting the rates | 107 |
| 36) | Schedule of Quantity for Civil works | 108-115 |
| 37) | Schedule of Quantity for Electrical Works | 116-119 |

# PART- A

# Press Notice (Notice Inviting e-tender)

The Dy Commandant (Works),FTR HQ BSF Punjabon behalf of the President of India invites online **Percentage rate** tenders from approved and eligible contractors of CPWD and non-CPWD contractors(i.e. Punjab State PWD / MES / P & T (BSNL) / Railways) for the following work :-

| S. No | NIT No. | Name of work | Estimated cost put to tender | Earnest Money | Period of Completion | Last date & time of online submission of bid, original EMD, copy of receipt or deposition of original EMD and other documents as specified in the Press Notice | Time and date of opening of tender |
|---|---|---|---|---|---|---|---|
| 01 | 04/ NIT / FTR / BSF / JAL / 26-27 | Renovation and Upgradation of Toilet Blocks of ADM Block at Ftr HQ BSF Jalandhar (Pb) . | **Rs.15,92,600/-** | **Rs. 31,852/-** | **180 Days** | 26.05.2026 at 1100 HRS. Ftr HQ BSF PB | 28.05.2026 1130 HRS Ftr HQ BSF PB |

The tender forms and other details can be obtained from the web site www.eprocure.gov.in and www.bsf.gov.in .

Correction - Nil, Insertion - Nil,Omission - Nil. AC(Works) FTR HQ PB DC(Works FTR HQ PB DC(Elect) FTR HQ PB

# Information and Instruction for Bidders for e-Tendering forming part of Bid Document and to be uploaded on e-Tenders Web Site.

The Dy Commandant (Works),FTR HQ BSF Punjab invites,on behalf of President of India,**on line percentage ratetenders** from approved and eligible contractors of CPWDand non-CPWD contractors(i.e. Punjab State PWD / MES / P & T (BSNL)/ Railways) for the following work mentioned below:-

| S. No | NIT No. | Name of work | Estimated cost put to tender | Earnest Money | Period of Completion | Last date & time of online submission of bid, original EMD, copy of receipt or deposition of original EMD and other documents as specified in the Press Notice | Time and date of opening of tender |
|---|---|---|---|---|---|---|---|
| 01 | 04/ NIT / FTR / BSF / JAL / 26-27 | Renovation and Upgradation of Toilet Blocks of ADM Block at Ftr HQ BSF Jalandhar (Pb) . | **Rs.15,92,600/-** | **Rs. 31,852/-** | **180 Days** | 26.05.2026 at 1100 HRS. Ftr HQ BSF PB | 28.05.2026 1130 HRS Ftr HQ BSF PB |

1. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
2. Information and Instructions for bidders posted on website shall form part of bid document.
3. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of contract to be complied with and other necessary documents can be seen and downloaded from website www.eprocure.gov.in free of cost.

4. Those contractors not registered on the website (e-tendering portal) are required to get registered beforehand. If needed they can be imparted training on online tendering process as per the details available on the website.

5. The intending bidder must have valid class-III digital signature certificate 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 and PDF format.

8. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in pink colour and the moment rate is entered, it turns sky blue. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).

9. The EMD can be paid in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee including e- Bank Guarantee from any of the Commercial Banks. The intending bidder has to fill all the details such as Banker's name, Demand Draft/Fixed Deposit Receipt/Banker's Cheque/Bank Guarantee number, amount and date.

10. It is mandatory to upload scanned copies of all the documents including GST Registration as stipulated in the bid document. If such document is not uploaded the bid will become invalid.

11. If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the contractor, the bid shall become invalid

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

    a) Enlistment order of the Contractor.

    b) Copy of Electrical Licence of eligible class of the bidder :-

        (i) In case, bidder does not have electrical Registration &licence, he shall submit an undertaking that
        " I/We will either obtain valid electrical Registration & licence at the time of award of work or associate contractor having valid electrical Registration &licence of eligible class. Before award of the work, the L-1 bidder will submit the valid electrical Registration and licence or MoU with the other appropriate validelectrical Registration &licence holder firm within week time, failing which the work may not be accepted".

    c) Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee including e-Bank Guarantee from any of the Commercial Banksdrawn in favorof IG FTR HQ

BSF Punjab shall be scanned and uploaded on the e-Tenderingwebsite within the period of bid submission. **EMD shall be made /issued only from account of the bidder / tenderer submitting the bid/tender. EMD made /issued from the account other than that of the bidder / tenderer submitting the bid,shall not be accepted**.

d) Copy of receipt for deposition of original EMD issued from **DDO/Engg Officer** of any BSF Establishment (i.e. Command HQ / Frontier HQ / Sector HQ / Training Centre/ Bn HQ BSF).

e) Contact details of the Contractor in separate sheet:
   (i) Mailing Address-
   (ii) Contact Phone / mobile No-
   (iii) E-Mail ID –

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

If the bidder has not obtained GST registration as applicable, then he shall scan and upload following undertaking along with bid documents. "lf work is awarded to me, I/we shall obtain GST registration certificate, as applicable, within one month from the date of receipt of award letter or before release of any Payment by BSF, whichever is earlier, failing which I/we shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by BSF or GST department in this regard."

g) PAN Card.

h) EPF & ESIC Registration Certificate

i) **Certificates of Work Experience**:
Completion certificate issued by Officer of the rank of Executive Engineer or the equivalent in support of execution of similar works in case of registration with CPWD as well as other than CPWD Dept.
**The completion certificate should include the name of work, agreement No., estimated cost, tendered / awarded cost, stipulated date of start, completion cost of work and actual date of completion of work etc**.

j) **To become eligible for issue of bid, the bidders shall have to furnish an affidavit (Rs.100) as under**:-(**as per Para 1.2.2 of SOP for CPWD Works Manual 2024**)

(a) Tender ID:-_____ (b) Name of work :-_____

"I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Further, if such a violation comes to the notice of Department, then I/We shall be debarred for tendering in BSF 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 the Earnest Money/Performance Guarantee".

**Note: If the above-mentioned documents are not scanned and uploaded within the period of bid submission the bid shall be treated as invalid and cancelled.**

Dy Commandant (Works)
FTR HQ BSF Punjab

**FORM-A**

## FORMAT FOR DEPOSITING EARNEST MONEY

## Receipt of Deposition of Original EMD

Receipt No……. Date……..

| | | |
|---|---|---|
| 1. | Name of work | |
| 2. | NIT No | |
| 3. | Estimated Cost | |
| 4. | Amount of EMD | |
| 5. | Last date of submission of bid | |

(To be filled by NIT approving authority at the time of issue of NIT and uploaded along with NIT)

**# To be filled by EMD receiving officer**

| | | |
|---|---|---|
| 1. | Name of contractor # | |
| 2. | Form/shape of EMD No & Date # | |
| 3. | Amount EMD Deposit# | |
| 4. | Date of submission of EMD# | |

Signature, Name and Designation of
EMD Receiving officer along with Office stamp

## CPWD-6 FOR E-TENDERING

1.Percentage rate bids are invited on behalf of President of India from approved and eligible contractors of CPWDand those of appropriate list of Punjab State P.W.D / M.E.S / P & T (BSNL) / Railways) for the work of:-

Renovation and Upgradation of Toilet Blocks of ADM Block at Ftr HQ BSF Jalandhar (Pb) .

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

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

1.1The work is estimated to cost **Rs. 15,92,600 Civil Work: - 13,38560/- + Elect Work :- 2,54,040/-).**This estimate, however, is given merely as a rough guide.

1.1.1 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids. 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 **Criteria of eligibility for CPWD as well as non-CPWD Contractors** :-

Three similar works each of value not less than 40% of estimated cost or two similar works each of value not less than 60% of estimated cost or one similar work of value not less than 80% of estimated cost (all figures rounded to nearest convenient figure) during the last 7 years ending last day of the month previous to the one in which tenders are invited.

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

**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 work(s) has/have not been got executed through another contractor on back to back basis. Further, if such a violation comes to the notice of Department, then I/We shall be debarred for tendering in BSF 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 the Earnest Money/Performance Guarantee".

2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD **7**/ 8 (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.

3. The time allowed for carrying out the work will be 180 Days from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.

4. (i) The site for the work is available.

**or**

The site for the work shall be made available in parts as specified below:-

**Renovation and Upgradation of Toilet Blocks of ADM Block at Ftr HQ BSF Jalandhar (Pb) .**

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 **www.eprocure.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. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee including e-Bank Guarantee from any of the Commercial Banks (drawn in favour of respective HQ i.e SDG/ADG/IG/DIG) shall be scanned and uploaded on the e-Tendering website within the period of bid submission. The original EMD should be deposited alongwith prescribed format mentioned in Form-A of NIT to any of BSF DDO /Engg Officer i.e. **Command HQ / Frontier HQ / Sector HQ / Training Centre/ Bn HQ BSF** before last date & time of submission of bid. The EMD receiving authority (DDO/Engg Officer) of any BSF establishment **i.e. Command HQ / Frontier HQ / Sector HQ / Training Centre/ Bn HQ BSF**shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (as per enclosed Form-A) uploaded by tender inviting authority in the NIT.The authority receiving original EMD also intimates tender inviting authority about deposition of EMD by the agency.

8.1 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 lac, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee including e- Bank Guarantee of any Commercial bank having validity for a period of 90 days for single bid works and 180 days for two bid system or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

8.2 The earnest money given by all the tenderers except the lowest tenderer shall be refunded immediately after the expiry of stipulated bid validity period or after opening of financial bid subsequent to receipt of intimation by the tender inviting authority after acceptance of the successful bidder, whichever is earlier.

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

8.4 The bid submitted shall be opened at 1130 HRS on 28.05.2026

9. The bid submitted shall become invalid and e-Tender processing fee (if applicable) shall not be refunded if:

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

10. The contractor whose bid is accepted will be required to furnish performance guarantee at specified percentage of the tendered amount as mentioned in schedule E and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with 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 within the period specified in Schedule F.

11. The description of the work is as follows:
**Renovation and Upgradation of Toilet Blocks of ADM Block at Ftr HQ BSF Jalandhar (Pb) .**

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

12. 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.

13. 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.

14. 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.

15. The contractor shall not be permitted to bid for works in the BSF responsible for award and execution of contracts, in which his near relative is posted a Senior 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 BSF or in the Ministry of Home Affairs. Any breach of this condition by the contractor would

render him liable to be removed from the approved list of contractors of this Department.

16. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.

17. The bids for the work shall remain open for acceptance for a period of 30 (thirty) days from the date of opening of bids 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.

18. This notice inviting Bid shall form a part of the contract document. The successful bidder/ contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-

(a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.

(b) Standard C.P.W.D. Form 7/8 or other Standard C.P.W.D. Form as applicable.

19. **For Composite Bids :**

19.1.1 2IC/DC (Works) BSF in charge of the major component will call bids for the composite work. The cost of bid document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite bid.

19.1.2 The bid document will include following three components:

**Part A**:- CPWD-6, CPWD-7/8 including schedule A to F for the major component of the work, Standard General Conditions of Contract for CPWD 2014 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.

19.1.3 The eligible tenderers quote rates for various items of major as well as minor components of work. The lowest tenderer is decided based on quoted rates in respect of all the schedules attached in tender documents. It will be obligatory on the part of the contractor to sign the tender documents for all the components (Major and minor components).

19.1.4 Acceptance of the tender will be done by the NIT approving authority within his powers to accept tenders. After the work is awarded, the contractor has signed the agreement and one set of agreement will be handed over to concerned officer of minor component for carrying out execution of work.

19.1.5 Running payment for the major component will be made by Engineer-in-Charge of major component to the main contractor. Similarly, running payment for minor components shall be made by the Engineer-In-Charge of minor components directly to contractor. But the progressive expenditure statement must include the major as well as minor components up to date expenditure.

19.1.6 Supervision of various components of works will be carried out by concerned wings of the department under the overall co-ordination of the IG (Works) or any other officer as notified by the department from time to time.

19.1.7 Levy of Compensation under Clause 2, if any, will be decided by the SE or any other officer as notified by department from time to time. The amount to be withheld under Clause 5 of the contract will be decided by the Engineer-in-Charge of the respective component.

19.1.8 The composite work is treated as complete when all the components (i.e major and minor) of the work are complete. The completion certificate of the composite work will be recorded and signed by Engineer-In-charge of major component as well as minor component.

19.1.9 Arbitration case / Court case, if any, shall be handled by the Engineer-in-Charge of the major component or any other officer as notified by Department from time to time along with the support of Engineer-in-Charge of the minor components.

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For and on behalf of President of India

Dy Commandant (Works)
Ftr HQ BSF Punjab

CPWD-7

# GOVERNMENT OF INDIA
# BORDER SECURITY FORCE

## Percentage Rate e-Tender & Contract for Works

**Tender for the work of:-**

**Renovation and Upgradation of Toilet Blocks of ADM Block at Ftr HQ BSF Jalandhar (Pb) .**

## TENDER

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

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

I/We agree to keep the tender open for a period of **75 (seventy five) days** from the date of opening of technical bid in case tenders are invited on 2 /3 bid/ system for specialised work and not to make any modification in its terms and conditions.

I/We have deposited EMD for the prescribed amount in the office of concerned Executive Engineer as per the bid document.

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

successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.
Further, I/We agree that in case of forfeiture of Earnest Money or Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

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

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

Dated……  Signature of the contractor

Witness……..#  Postal Address……#
Address :…….#
Occupation…….#

**ACCEPTANCE**

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

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

For & on behalf of the President of India

Signature…….
Dated……
Designation……

* To be filled by the EE.
# To be filled by the contractor.

**INTEGRITY PACT**

To

_____

_____

_____

_____

Subject: - NIT No. **……..** For the work …**……..**

Dear Sir,

It is hereby declared that Border Security Force is committed to follow the principle of transparency, equity and competitiveness in public procurement/e-tendering.

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 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 Border Security Force.

Yours faithfully,

**Dy Commandant (Works)**
**Ftr HQ BSF Punjab**

To

The Dy Commandant (Works),
Ftr HQ BSF Punjab

Sub :-**Submission of tender for the work of** "**Renovation and Upgradation of Toilet Blocks of ADM Block at Ftr HQ BSF Jalandhar (Pb) .**

"

Dear Sir,

I / We acknowledge that Border Security Force 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 Border Security Force. I/ We acknowledge and accept the duration of 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, Border Security Force 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,

Signatures of Contractor with seal and address

(to be signed by the bidder and same signatory competent / authorized to sign relevant contract on behalf of B.S.F.)

**ON NON-JUDICIAL STAMP PAPER OF MINIMUM RS. 100**

(Guarantee offered by Bank to BSF in connection with the execution of contracts)
Form of Bank Guarantee for Earnest Money Deposit/Performance Guarantee/Security Deposit/Mobilization Advance

1. Whereas the 2IC/DC(Works) …… (name of BSF Establishment) ……., BSF on behalf of the President of India (hereinafter called "The Government")has invited bids under ……(NIT number)……. dated …… for …… (nameof work) …… The Government has further agreed to accept irrevocable Bank Guarantee for Rs. ……. (Rupees …… only) valid upto …… (date)*…… as Earnest Money Deposit from ……. (name and address of contractor) ……..(hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT

OR**

Whereas the 2IC/DC(Works) …….. (name of BSF Establishment) ……., BSF on behalf of the President of India (hereinafter called "The Government") has entered into an agreement bearing number ……..... with ……..... (name and address of the contractor) …….. (hereinafter called "the Contractor") for execution of work …… (Name of work) ……... The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. ……. (Rupees …… only) valid upto …….. (date)..…… as Performance Guarantee/Security Deposit/Mobilization Advance from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.

2. We, …… (indicate the name of the bank) ……. (herein after referred to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs. …….. (Rupees……. only) on demand by the Government within 10 days of the demand. 3. We, ……(indicate the name of the Bank) ……, do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said Contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee.

However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. …….. (Rupees …….only)

4. We, …… (indicate the name of the Bank) ……., further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any Court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the Contractor shall have no claim against us for making such payment.

5. We, …… (indicate the name of the Bank) ……., further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said Contractor or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said Contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. We, …… (indicate the name of the Bank) …….., further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.

7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.

8. We, …….. (indicate the name of the Bank) ……., undertake not to revoke this guarantee except with the consent of the Government in writing.

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

Date .....
Witnesses:
1. Signature……
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.

## FORM OF EARNEST MONEY (BANK GUARANTEE)

WHEREAS, contractor..... (Name of contractor) (hereinafter called "the contractor") has submitted his tender dated ..... (date) for the construction of ..... (name of work) (hereinafter called "the Tender")

KNOW ALL PEOPLE by these presents that we ..... (name of bank) having our registered office at ..... (hereinafter called "the Bank") are bound unto ..... (Name and division of Executive Engineer) (hereinafter called "the Engineer-in-Charge") in the sum of Rs. ..... (Rs. in words .....) for which payment well and truly to be made to the said Engineer-in-Charge the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this ..... day of ..... 20... .

THE CONDITIONS of this obligation are:

(1) If after tender opening the Contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender;

(2) If the contractor having been notified of the acceptance of his tender by the Engineer-in-Charge:

(a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required; OR

(b) fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor,

We undertake to pay to the Engineer-in-Charge up to the above amount upon receipt of his first written demand, without the Engineer-in-Charge having to substantiates his demand, provided that in his demand the Engineer-in-Charge will note that the amount claimed by his is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date* .....after the deadline for submission of tender as such deadline is stated in the Instructions to contractor or as it may be extended by the Engineer-in-Charge, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE ..... SIGNATURE OF THE BANK

WITNESS ..... SEAL

(SIGNATURE, NAME AND ADDRESS)

*Date to be worked out on the basis of validity period of 6 months from last date of receipt of tender.

## FORM OF PERFORMANCE SECURITY (GUARANTEE)

## BANK GUARANTEE BOND

1. In consideration of the President of India (hereinafter called "the Government") having agreed under the terms and conditions of agreement No._____dated_____made between_____and_____{hereinafter called "the said contractor(s)"} for the work _____ _____ _____(hereinafter called "the said agreement") having agreed to production of an irrevocable Bank Guarantee for Rs._____ (Rupees _____ only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement,
   We _____
   (indicate the name of the Bank)
   (hereinafter referred to as "the Bank") hereby undertake to pay to the Government an amount not exceeding Rs._____/- (Rupees_____only) on demand by the Government.

2. We _____ do hereby undertake to
   (indicate the name of the Bank)

   pay the amounts due and payable under this Guarantee without any demure, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor (s). Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs._____/-(Rupees_____only).

3. We, the said bank further undertake to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal.
   The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the contractor(s) shall have no claim against us for making such payment.

4. We_____further agree that the guarantee
(indicate the name of the Bank)

herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in-Charge, on behalf of the Government, certifies that the terms and conditions of the said agreement have been fully and properly carried out by the said contractor(s) accordingly discharges this guarantee.

5. We_____ further agree with the Government that
(indicate the name of the Bank)
the Government shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor(s) and to 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(s) or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said contractor(s) 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. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).

7. We_____ lastly undertake not to
(indicate the name of bank)
revoke this guarantee except with the previous consent of the Government in writing.

8. This guarantee shall be valid upto_____ unless extended on demand by Government. Notwithstanding anything mentioned above, our liability against this Guarantee is restricted to Rs._____/-(Rupees_____only) and unless a claim in writing is lodged with us within Six Months of the date of expiry or the extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Dated the _____ day of_____

for_____
(Indicate the name of the Bank)

**To be signed by the bidder and same signatory competent / authorized to sign the relevant contract on behalf of BSF.**

**INTEGRITY AGREEMENT**

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

**BETWEEN**

President of India represented through Executive Engineer i.e. 2IC/DC(Works), .....,(Name of BSF Establishment)

BSF, ....., (Hereinafter referred as the

(Address of Division)

'**Principal/Owner**', which expression shall unless repugnant to the meaning or

context hereof include its successors and permitted assigns)

**AND**

.....

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

through ..... (Hereinafter referred to as the

(Details of duly authorized signatory)

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

**Preamble**

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

(Name of work)

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) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:

a) The 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)/Contract(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

d) The 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.

d) 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 EMD/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 3 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, BSF.

**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 intensions.

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 :

**ANNEXURE - 38**

**(Refer SOP No. 5/30)**

**GUARANTEE BOND TO BE EXECUTED BY CONTRACTORS FOR REMOVAL OF DEFECTSAFTER COMPLETION IN RESPECT OF WATER PROOFING WORKS**

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

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

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

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 five years to be reckoned from the date after the CONSTRUCTION period prescribed in the contract.

Provided that the guarantor will not be responsible for leakage caused by earthquake or structural defects or misuse of roof or 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 shall be final.

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

That if GUARANTOR fails to execute the water proofing or commits breach thereunder then the GUARANTOR will indemnify the Principal and his successors against all loss, damage,

cost, expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Government the decision of the Engineer-in-Charge will be final and binding on the parties.

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

Signed, sealed and delivered by OBLIGOR in the presence of-1.

2.

Signed for and on behalf of THE PRESIDENT OF INDIA by ..... in the presence of 1.

# PART-B

# (Major Component)

# PROFORMA OF SCHEDULES ('A' TO 'F')

**(MAJOR COMPONENT OF WORK)**

## SCHEDULE 'A'

Schedule of quantities - As per the schedule of work enclosed.

## SCHEDULE 'B'

Schedule of materials to be issued to the contractor:-

| S.No | Description of item | Quantity | Rates in figures & words at which the material will be Charged to the contractor | Place of issue |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| ……..Nil…… | | | | |

## SCHEDULE 'C'

Tools and plants to be hired to the contractor

| S.No | Description | Hire charges per day | Place of issue |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| …….Nil……. | | | |

**SCHEDULE 'D'**

| | | |
|---|---|---|
| Extra schedule for specific requirements / documents for the work, if any. | : | Attached at page No…… (if any) |

**SCHEDULE 'E'**

| | | |
|---|---|---|
| Reference to General Conditions of contract | **:** | CPWDGeneral conditions of contract forworks -2023 for construction works(as modified and corrected up to date). |
| Name of Work | **:** | **Renovation and Upgradation of Toilet Blocks of ADM Block at Ftr HQ BSF Jalandhar (Pb)** |
| **Estimated cost of work** | **:** | **Rs. 15,92,600/- (Rupees Fourteen Lakh Ninety Two Thousand Six Hundred)(Civil Work: - 13,38,560/- + Elect Work :- 2,54,,040/-)** |
| (i) Earnest Money | **:** | **Rs. 31,852/-**( to be returned after receiving performance guarantee) |
| (ii) Performance Guarantee | **:** | **5% of tendered value. or ECPT(whichever is higher) If lowest TA is less than 80% of ECPT the PG amount will be increased by the difference of 80% of ECPT &TA.** |
| (iii) Security Deposit | **:** | 2.5% of tendered value. |

**SCHEDULE-'F'**

**GENERAL RULES & DIRECTIONS:**

| | | |
|---|---|---|
| Officer inviting tender | **:** | Dy Commandant (Works), FTR HQ BSF PB |
| 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. | | |

**Definitions:-**

(i**) Engineer-in-charge**

| | | |
|---|---|---|
| For Major component (Civil work) | : | 2IC/DC(Works) concerned |
| For Minor component (Elect work) | : | 2IC/DC(Electrical) concerned |
| (ii) Accepting Authority | : | Dy Commandant (Works), FTR HQ BSF PB |
| (iii) Percentage on cost of materials and labour to cover all overheads and profits | : | 15% |
| (iv) Standard Schedule of Rates | : | Delhi Schedule of Rates - 2023 |

(v) Department : BSF
(vi) Standard CPWD Contract Form : CPWD form –7 as modified and corrected up to date of call of tender.

**Clause 1**

(i) Time allowed for submission of Performance Guarantee Programme Chart (Time& progress) in days : 07 days

(ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above in days : 07 days

**Clause 2**
Authority for fixing compensation under clause 2 : Commandant (Works),

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

**Clause 5**
Number of days from the date of issue of letter of acceptance for reckoning date of start : 10 days

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

| S. No | Description of Mile Stone(s) (Physical) | Time allowed (from date of start) | Amount to be withheld in case of non-achievement of milestones) |
|---|---|---|---|
| …….(To be filled by the Engineer-in-charge)……. | | | |

Time allowed for execution of work : **180 Days**

**Authority to decide**

| | | | |
|---|---|---|---|
| (i) | Extension of time | : | Engineer in charge or Engineer in charge of Major Component in case of composite Contracts, as the case may be. |
| (ii) | Rescheduling of milestones | : | Superintending Engineer / Comdt (Works) in Charge or Superintending Engineer / Comdt (Works) in charge of Major Component, as the case may be. |
| (iii) | Shifting of date of start in case of delay in handing over of site | | Engineer-in-charge i.e 2IC/DC (Works) |

**PERFORMA OF SCHEDULES Clause 5 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 | Portion dependent on work of other agencies | | |

**Clause 6** : Applicable (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 : 20% of tendered amount.

**Clause 7 A**
Whether clause 7A shall be applicable. : Yes, applicable

**Clause 8A**
Authority to decide compensation on account if contractor fails to submit completion plans : Commandant (Works)

**Clause 10 A**
List of testing equipment to be provided by the contractor at site Lab. : As per enclosed Annexure – 'A'.

**Clause 10 B(ii)**

| | | |
|---|---|---|
| Whether Clause 10 B(ii) shall be applicable | : | Not applicable. |
| **Clause 10 C** | : | Not applicable. |
| **Clause 10 CA** | : | Not applicable. |
| **Clause 10 CC** | : | Not applicable. |

**Clause 11**

| | | |
|---|---|---|
| Specifications to be followed for execution of work | : | C.P.W.D. Specifications 2019 Vol-I to II with up-to-date Correction Slips issued up to the last date of receipt of tender and additional conditions and Specifications as attached in the Tender |

**Clause 12**

| | | |
|---|---|---|
| Type of work | : | Renovation Works |

**Clause 12.2 & 12.3**

| | | |
|---|---|---|
| Deviation Limit beyond which Clauses shall apply for building work excluding foundation | : | No Limit |

**Clause 12.5**

| | | |
|---|---|---|
| (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) | : | -do- |
| (ii) Deviation Limit for items mentioned in earth work sub head on DSR and related items. | : | -do- |
| (iii)Gross value of work done | : | As per General Condition of contract for renovation works - 2023 (as modified and corrected upto date) |

**Clause 16**

**Competent Authority for deciding reduced rates**.

Sub-standard work must be got rectified and if necessary, may be redone. Acceptance of sub-standard work at reduced rate should be done only under exceptional circumstances. Total value of items of agreement rate for which the Superintending Engineer accepts sub-standard work in a contract shall not exceed 5% of the Contract value. In case, total value of such items exceeds 5%, prior approval of FHQ (Engg Dte), BSF, New Delhi will be necessary

**Clause 18**

Listof mandatorymachinery, tools & plants tobedeployedbythecontractor at site:

1 ..... 2 ..... 3.....(*TobefilledbyEngineer-in-charge*)
4..... 5..... 6.....(*To befilled byEngineer-in-charge*)
7..... 8..... 9.....(*To befilled byEngineer-in-charge*)

**Clause 19C –** Engineer-in-Charge to decided penalty for each default.

**Clause 19D –** Engineer-in-Charge to decided penalty for each default.

**Clause 19G –** Engineer-in-Charge to decided penalty for each default.

**Clause 19K –** Engineer-in-Charge to decided penalty for each default.

**Clause 25**
**Constitution of Dispute Redressal Committee (DRC) for total claims more than ₹ 25 Lakh:**

1.Chairman – IG of some other Ftr.
2.Member – Concerned DIG
3.Member- Any nominated officer by Ftr IG
4.Member- Concerned EE (Only to present the case).

**Constitution of Dispute Redressal Committee (DRC) for total claims upto ₹25 Lakh:**

1.Chairman – DIG of some other Ftr. to be nominated by IG.
2.Member- Executive Engineer, Any other Ftr. to be nominated by IG.
3.Member- Executive Engineer, of some other Ftr. to be nominated by IG
4.Concerned Executive Engineer (Only to present the case).

**SDG/ADG of Command HQrs and Ftr IG is competent to appoint DRC in both cases.**

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

| S. No | Minimum Qualification of Technical Representative | Discipline | Designation Of Technical staff | Minimum Experience | Number | Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 32(i) | |
|---|---|---|---|---|---|---|---|
| | | | | | | Figures | Works |
| 1. | ……(To be filled by the Engineer-in-charge as per requirement)…….. | | | | | | |

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

**Clause 38**

| | | | | |
|---|---|---|---|---|
| (i) | (a) | Schedule / statement for determining theoretical quantity of cement and bitumen on the basis of **Delhi Schedule of Rates 2023** printed by the CPWD | : | As per additional specifications attached with NIT |
| (ii) | | Variations permissible on theoretical quantities: | | |
| | a) | Cement | | |
| | | For works with estimated cost put to tender not more than Rs. 25 lakh. | : | 3% plus/minus. |
| | | For works with estimated cost put to tender more than Rs. 25 lakh. | : | 2% plus/minus |
| | b) | Bitumen for all works | : | 2.5% plus only & Nil on minus side |
| | c) | Steel Reinforcement and structural steel sections for each diameter, section and category | : | 2% plus / minus |
| | d) | All other materials | : | NIL |

# GENERAL CONDITIONS

## 1.0 Scope of work

**The quoted rates of the contractor include all the following activities, except otherwise specified**

(i) The scope of work also includes Preliminary works like setting and maintenance of permanent bench marks reference points, central line of the carriageway etc. It shall also include making adjustment in the layout if required as per site conditions and as directed by the Engineer-in-Charge. The layout shall be got approved from the Engineer-in-charge before starting actual work. Existing levels of the area under the scope of work shall also be recorded.

(ii) Clearing of site for construction of the work and all activities connected therewith before commencement of work to the satisfaction of the Engineer-in-Charge.

(iii) Maintenance of all works during construction till handling over to the Department.

(iv) Protection and maintenance of existing services.

(v) Provision for all safety measures for traffic, pedestrian workmen, machinery etc. as considered necessary *by* the Engineer-in-charge.

(vi) Identification of services like sewer lines, water supply lines, electric and telephone cables etc. well in advance of actual execution.

(vii) It may be noted that all the safety requirements as may be felt necessary by the Engineer- in-Charge, shall have to be provided for allowing the traffic to pass underneath the superstructure at all times during the construction period.

(viii) In case of defective construction by the contractor or on account of any other reason attributable to the contractor if the consultants appointed by the department, .submit additional claims for re-designing on account of additional input by them, due to such reasons, the same shall also be borne by the contractor. The opinion of the Engineer-in-charge in these matters shall be final and binding.

(ix) All ancillary and incidental facilities required for execution of the work i.e. labour camps, stores, offices for contractors, work shop facilities, watch and ward, temporary structure for plants and machinery, well equipped, site laboratory as mentioned in the tender document, water storage structure, tube wells, electric /telephone installation and charges, liaison work, protection work during execution and not included in the main Items, any other Item /activity contained elsewhere in the tender documents which is necessary for execution of work in the opinion of the Engineer-in-Charge.

(x) Pumping and bailing out water in suitable manner as directed by Engineer-in-Charge.

(xi) It is also made clear that intending tenderer should visit the sites of work including contractor's compound and physically assess the activities which are involved for completing the work, including the quantum of work besides the information supplied in the tender document. No claim whatsoever shall be entertained on this account.

(xii) The construction agencies shall make arrangement for a regular fortnightly or other frequency as desired by Engineer-in-Charge for the documentation of the progress of work.

(xiii) Activities related to setting of various Items such as permanent bench-marks, reference points, central line of carriageway, layout of foundations and bearings etc. shall be performed by total station survey.

(xiv) The contractor shall provide barricading along the length of road if required and suitable light shall be provided with barricading, if required. Contractor shall not be paid anything extra for the barricading. In case the Agency fail to provide barricading as per direction of Engineer in charge. The same shall be provided by the department at his risk and cost.

(xv) Services like water supply lines, sewer lines, storm water drains, electricity lines, telephone lines over head and underground cables /structure, if any falling in the alignment of the work, (which are required to be removed or shifted in the opinion of the Engineer-in-Charge) shall be removed /shifted by the department if found necessary by the Engineer-in-charge. Time taken for its shifting, removal, diversion shall be accounted for towards according extension of times if it actually causes hindrance in execution as per the discretion of the Engineer-in-Charge. No claim for delay or otherwise due to above reasons shall be entertained on this account.

**2.0 Samples of Material:-**

Sample of materials and other articles required for execution of work shall be got approved from the Engineer-in-Charge before use in the work. The quantity of samples brought by the contractor shall be judged by standards laid down in the relevant BIS specifications.

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

2.2 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 & contractor shall be bound to replace / remove such sub-standard / defective work immediately.

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

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

For certain Items, if frequency of tests is not mentioned in the CPWD Specifications then relevant IS code shall be followed and tests shall be carried out @25% of the frequency specified therein.

**3.0 Samples for Testing:-**

3.1 The contractor shall provide samples of material required for testing free of charge. The cost of tests shall be borne by the contractor / department in the manner indicate below:-

a) By the contractor, if the results show that the material does not conform to relevant specifications.

b) By the department, if the result shows that the material conforms to relevant specifications.
All other expenditure required to be incurred for taking samples; conveyance, packing etc. shall be borne by the contractor himself.

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

a) All necessary tests as per the NIT/CPWD specifications / relevant BIS codes shall be carried out on all the materials whether ISI marked or otherwise. Wherever NIT/CPWD specifications / relevant BIS codes do not specify the frequency of tests, the same shall be carried out as per the directions of the Engineer-in-Charge. Nothing extra whatsoever shall be payable on this account.

b) Testing at Manufacturer's place – All materials which are specified to be tested at the manufacturer's works shall satisfactorily pass the tests in presence of the authorized representative of Engineer-in-Charge before being used in the work. In case all requisite testing facilities are not available at the manufacturer's premises, such testing shall be conducted at laboratory approved by the Engineer-in-Charge. The charges for such testing shall be borne by the contractor.

3.3 The contractor has to establish field laboratory at site including all necessary equipment (conforming to BIS) as per Annexure attached and skilled manpower for field tests at his own cost Contractor has to establish compression testing machine of suitable capacity at site and 90% of the cube test will be carried out in lab at site and 10% of the cube test will be carried out in the lab as per clause below.

3.4 Testing of the building material will be done as per the following priority.
a) CPWD Testing Lab.
b) Any Govt. / State undertaking Lab.
c) Other approved laboratory by BSF / CPWD.

**4 Quality Assurance:-**

4.1 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 brief quality assurance program within two weeks of the award of the work. The quality assurance program should include the name of the Engineers and make of materials proposes to be used in the work.

4.2 The contractor shall get the source of various raw materials namely aggregate, cement, sand, steel, water etc. to be used on the work, approved from the Engineer-in-Charge and trial mixes for controlled concrete shall be done using the approved materials. The contractor shall stick to the approved source unless it is absolutely unavoidable. Any change shall be done with the prior approval of the Engineer-in-Charge for which tests etc. shall be done by the contractor at his own cost.

4.3 Lists of approved makes and brands of materials for work are annexed hereto. Makes and brands of Materials specified therein shall only be used on the work. The contractor shall submit brand / make of various materials to be used for the approval of the Engineer-in-Charge along with sample.

4.4 The contractor shall submit shop drawings of staging and shuttering arrangement for approval of Engineer-in-Charge. The contractor shall also submit bar bending schedule for approval of Engineer-in-Charge before execution.

4.5 All material shall 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.

4.6 Except for the Items, for which particular specifications are given or where it is specifically mentioned otherwise in the description of the Items in the schedule of quantities, the work shall generally be carried out in accordance with the MORTH specification 2001 and "CPWD Specifications 2019 Vol I to II with up to date correction slips (Hereinafter to be referred to as CPWD Specifications) and instructions of Engineer-in-Charge. Wherever CPWD Specifications are silent, the latest IS Codes / Specifications shall be followed.

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

4.8 Sample including brand / quality of materials and fittings to be used in the work shall be got approved from the Engineer-in-Charge, well in advance of actual execution and shall be preserved till the completion of the work.

4.9 Unless otherwise specified in the schedule of quantities, the rates tendered by the contractor shall be all inclusive and shall apply to all lifts & all heights, floors including terrace, leads and depths and **nothing extra shall be payable on this account**.

4.10 The rates for all Items of work shall, unless clearly specified otherwise, include cost of all labour, material, tools and plants and other inputs involved in the execution of the Item and **nothing extra shall be payable on this account**.

1. The contractor(s) shall quote all-inclusive rates against the Items in the schedule of quantities and **nothing extra shall be payable for any of the conditions and specifications** mentioned in the tender documents unless specifically specified otherwise.

**2.** Unless otherwise specified in the schedule of quantities, the rates for all Items, shall be considered as inclusive of pumping / bailing out water, wherever necessary for which **no extra payment shall be made.**

3. The rate for all Items, in which the use of cement is involved, is inclusive of charges for curing.

4. The foundation trenches shall be kept free from water while works below ground level are in progress.

5. The work shall be executed and measured as per metric dimensions given in the schedule of quantities, drawings etc. (FPS units wherever indicated are for guidelines only).

6. Any legal or financial implications resulting out of disposal of earth shall be sole responsibility of the contractor. **Nothing extra shall be paid on this account**.

7. 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.

8. The contractor shall indemnify the Govt. against any claims or obligations arising out of any damage to adjacent property, structure or to building work done by him.

**Licenses**

8.1 The contractor shall pay to the municipal, police or other authorities all the fees etc. if required for execution of work, obtain requisite licenses for temporary constructions, enclosures, and pay all fees, taxes and charges which shall be livable on account of their observations in executions of the contract. No extra claim will be entertained on this account. However, department shall provide necessary assistance by way of forwarding the applications of the contractor.

8.2 All license fees, royalty charges shall be paid by the contractor direct to the authorities concerned. **No extra claim will be entertained on this account**.

9. In case services are encountered during excavation / earth work and such services are required to be shifted, the contractor is bound to carry out the shifting operation as per guidance / instructions and with the approval of the Engineer-in-Charge. However, necessary payments shall be made in this regard as per provision of the agreement.

10. Many other agencies would be executing work simultaneously at site. The contractor shall maintain proper co-ordination with other agencies in maintaining progress of work. In case of any dispute, the decision of the Engineer-in-Charge shall be final and binding.

~~11. The contractor shall be required to comply with the provisions of Delhi labour welfare fund notified by the Delhi Govt. on 13.07.04 as per which if the contractor employs directly or through other persons, five or more than five persons on any working day during the preceding 12 months, owes a statutory obligation to deposit:-~~

~~(i) Fines realized from employees.~~
~~(ii) Unpaid accumulations.~~
~~(iii) Contribution of employees @75 paisa per employee, per six months.~~
~~(iv)Contribution of employer Rs.2.25 per employee, per six months.~~

~~As per the provision of the above said Act. All employees are covered, except managerial and supervisory staff drawing as wages Rs.2,150/- per month or more, engaged in different establishments and if any employ fails to deposit the amount payable under the provisions of the said Act., penal interest would be charged @1% P.M. for first three months and thereafter penal interest would be charged @1.5% P.M. and the arrears are recoverable as arrears of "Land Revenue".~~

12. The contractor shall have to make his own arrangement for housing facility for staff and labour away from construction site and shall have to transport the labour to and fro between construction site and labour camp at site own cost. No labour huts will be allowed to be constructed at the project site except a few temporary sheds for Chowkidars and Storekeeper. The decision about how many huts can be allowed for Chowkidars and Storekeeper at project site shall rest with the Engineer-in-Charge and the contractor shall have no claim on this account.

**13. GST or any other tax applicable in respect of inputs procured by the contractor for this contract shall be payable by the Contractor and Government will not entertain any claim whatsoever in respect of the same. However, component of GST at time of supply of service (as provided in CGST Act 2017) provided by the contract shall be varied if different from that applicable on the last date of receipt of tender including extension if any.**

14. **Maintenance of Register of Tests**

(i) All the registers of tests carried out at construction site or in outside laboratories shall be maintained by the contractor which shall be issued to the contractor by Engineer-in-Charge in the same manner as being issued to BSF field staff.

(ii) All samples of materials including cement concrete cubes shall be taken jointly with contractor by JE and out of this at least 50% samples shall be taken in presence of AE in charge. If there is no JE, all samples of materials including cement concrete cubes shall be taken by AE jointly with contractor. All the necessary assistance shall be provided by the contractor. Cost of samples materials is to be borne by the contractor and he shall be responsible for safe custody of samples to be tested at site.

(iii) All the tests if field lab setup at construction site shall be carried out by the Engineering staff deployed by the contractor which shall be 100% witnessed by JE and 50% of tests shall be witnessed by AE –in-Charge. At least 10% of the tests are to be witnessed by the Assistant Engineer.

(iv) All the entries in the registers will be made by the designated Engineering Staff of the contractor and same should be regularly reviewed by JE/AE/EE.

(v) Contractor shall be responsible for safe custody of all the test registers.

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

If all the test registers and hindrance register is not submitted along with each alternate R/A Bill & Final Bill than no payment shall be released to the contractor.

**15. Maintenance of Material at Site (MAS) Register-**

(i) 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 in the same manner as being issued to BSF field staff.

(ii) Each of the entry of receipt of material at site shall be 100% test checked by JE or by AE if there is no JE.

(iii) Each MAS register shall be checked by JE at least twice a week and at least once a week by AE. If there is no JE then MAS registers will be checked by AE at least twice a week

(iv) Cement Register shall be reviewed by AE at least once in a month.

**16. Programme Chart:-**

The Contractor shall prepare a programme chart for the execution of work, showing clearly all activities from the start of work to completion within the stipulated period and submit the same for approval of the Engineer-In-Charge within two weeks of the award of the contract.

**17**. Normally contractors shall not be allowed to work at night. Work at night shall, however, be allowed if the site conditions / circumstances so demand. However, if the work is carried out in more than one shift or at night, **no claim on this account shall be entertained**

The contractor shall be bound to follow the instruction and restrictions imposed by the Administration/Police authorities on the working and/or movement of labour, materials etc. and nothing extra shall be payable on this account or due to less/restricted working hours or suspension of work or any detours in movement of vehicles due to stated instructions and restrictions.

**18**. The contractor shall also be required to follow the rules & restrictions imposed on working /movement/stacking of materials by the local competent authority at all times. Nothing extra shall be payable on this account.

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

**20**. **SITE CONDITIONS**

Site conditions given hereunder and elsewhere are given as guidelines and contractor shall satisfy himself regarding all aspects of site conditions and no claim will be entertained on the plea that the information supplied by the department is erroneous or insufficient.

**21 Location**

As mentioned in the name of work.

22 **Traffic restrictions & Permissions**

Work has to be executed without disrupting the traffic and thus, limited space shall be available for execution of the work. The contractor will have to carefully plan his sequence of operations so that the traffic moves unhindered at all times. The traffic diversion plan evolved by the contractor for execution of the work at all locations will require approval of Police Department. Modifications suggested by the Traffic Police and also by the department shall be implemented by the contractor during execution of the work

**23 Climatic conditions**

The climate in the region is extreme with three major seasons- winter, summer and rainy. The winter season lasts from October to March, summer season from April to June and rainy season from July to September. This is only for guidance and there may be variations.

**24 Housing, water supply, Drainage and Electricity**

No accommodation is available at the site of work. The contractor has to make his own arrangements for electric connection, housing, stores and field offices, accommodations for his labour and other employees etc. Contractor should visit the site and see in what manner he is able to arrange the above. Arrangement of water for drinking purpose in addition to the water required for construction work is also to be made by the contractor. No other space shall be made available at work site except for temporary site office/ contractor's compound. However onus will be on contractor to arrange the space on its own. No claim whatsoever will be entertained on this account.

**25** It shall be deemed that the contractor has satisfied himself as to the nature and location of the work, general and local conditions and particularly those pertaining to transport, handling and storage of materials, availability of labour, weather conditions at site and general ground / sub soil conditions and the contractor has to estimate his cost accordingly.

**26** The BSF will bear no responsibility for the lack of such knowledge and also the consequence thereof to the contractor. The information and site data shown in the drawings and mentioned herein and elsewhere in these tender documents are furnished for general information and guidance only. The Engineer-in-charge in no case shall be held responsible for the accuracy thereof or / and whatsoever, interpretations or conclusions drawn there from/ by the contractor and no claim shall be entertained whatsoever if the site conditions/ information is different or otherwise incorrect as it is presumed that the contractor has satisfied himself for all possible contingencies, situations, bottlenecks and acts of coordination which may be required between the different agencies

**27** In case of flooding of site on account of rain or any other cause, or any other damage whatsoever, no claim financially or otherwise shall be entertained, not withstanding any other provisions elsewhere in the tender documents.

**28** The contractor shall remove the malba on regular basis to keep the site neat and clean during the execution of the work. In case the Agency fails to remove the malba, the same shall be removed by the department at his risk and cost.

# SPECIAL CONDITIONS FOR CEMENT

1. The contractor shall, at his own expense procure and provide all materials including cement and steel required for the work.

2. 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.

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

4. The contractor shall also employ necessary watch and ward establishment for the safe custody of materials at his own cost. The contractor shall be fully responsible for the safe custody of materials brought by him/ issued to him even though the materials may be under double lock and key system.

5. Contractor has to produce manufacturers test certificate for each lot of cement & steel procured at site.

**6. CONDITIONS FOR CEMENT:-**

6.1 The contractor shall procure 43 grade ordinary Portland Cement conforming to IS 8112/ Portland Pozzolana cement conforming to IS 1489 (Part-I), as required in the work, from reputed manufacturers of cement such as ACC, UltraTech, Vikram, Shree Cement, Ambuja, Jaypee Cement, Century Cement & J.K. Cement or from any other reputed cement Manufacturer having a production capacity not less than one million tones per annum as approved by ADG for that sub region. The tenderers may also submit a list of names of cement manufacturers which they propose to use in the work. The tender accepting authority reserves right to accept or reject name(s) of cement manufacturer(s) which the tenderer proposes to use in the work. No change in the tendered rates will be accepted if the tender accepting authority does not accept the list of cement manufacturers, given by the tenderer, fully or partially. The supply of cement shall be taken in 50 kg. bags bearing manufacturer's name and ISI marking. Samples of cement arranged by the contractor shall be taken by the Engineer-in-charge and got tested in accordance with provisions of relevant BIS codes. In case the test results indicate that the cement arranged by the contractor does not conform to the relevant BIS codes, the same shall stand rejected, and it 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.

6.2 The cement shall be brought at site in bulk supply of approximately 50 tonnes or as decided by the Engineer- in- charge. The cement godown of the capacity to store a minimum of 2000 bags of cement shall be constructed by the contractor at site of work or which no extra payment shall be made.

6.3 Double lock provision shall be made to the door of the cement godown. The keys of one lock shall remain with the Engineer-in-Charge or his authorized representative and the keys of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement godown. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-Charge at any time.

6.4 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 cost of tests shall be borne by the contractor/Department in the manner indicated below:

(a) By the contractor, if the results show that the cement does not conform to relevant BIS codes.

(b) By the Department, if the results show that the cement conforms to relevant BIS codes.

6.5 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the cement consumption is less than theoretical consumption including permissible variation, recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to made.

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

6.7 The 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.

6.8 The cement in bags shall be stacked by the contractor in two god owns one for fresh arrival to be tested for quality and another already tested in use having weather proof roof and walls and on a proper floor consisting of two layers of dry bricks laid on well consolidated earth at a level at least 30 cm above the ground level. These stacks shall be in rows of two bags deep and 10 bags high with a minimum of 60 cm. clear space all round. The bags should be placed horizontally continuous in each line as per sketch given in **CPWD Specifications – 2019**. The sketch is only for guidance. Actual size / shape of godowns shall be as per site requirement. The decision of Engineer-in-Charge regarding the capacity needed will be final and nothing extra shall be paid on this account.

6.9 Cement register for the cement shall be maintained at site. The account of daily receipts and issue of cement shall be maintained in the register by the authorized representative of the Engineer-in-charge and signed daily by contractor or his authorized agent.

6.10 Cement, which is not used within 90 days from its date of manufacture, shall be tested at Govt. laboratory. Until the results of such tests are found satisfactory, it shall not be used in any work.

# PROFORMA FOR THE CEMENT REGISTER

| PARTICULARS OF RECEIPT | | | PARTICULARS OF ISSUE | | | REMARKS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of receipt | Quantity received | Progressive Total | Date of issued | quantity issued | Item of work for which issued | Quantity returned at the end of the day | Total issued | Daily Balance in hand | Contractors initials | J.E's initials | Asstt. Engg. initials | A.E. | Periodical Check |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** |
| | | | | | | | | | | | | | |

## SPECIAL CONDITIONS FOR STEEL

1.1 The contractor shall procure TMT bars of Fe550 grade from primary producers such as SAIL, Tata Steel Ltd., RINL, Jindal Steel & Power Ltd. and JSW Steel Ltd. or any other producer as approved by CPWD who are using iron ore as the basic raw material/input and having crude steel capacity of 2.0 Million tons per annum and above.

In case of non-availability of steel from primary producers the NIT approving authority may permit use of TMT reinforcement bars procured from secondary producers having Integrated Steel Plants (ISPs) using iron ore as the basic raw material for production of crude steel which is further rolled into finished shapes in-house having crude steel capacity of 0.5 Million tonne per annum and more.

In case of non-availability of steel from primary producers as well as ISPs then the NIT approving authority may also permit use of TMT reinforcement bars procured from secondary producers in such cases following conditions are applicable.

The grade of the steel such as Fe550 grade to be procured is to be specified as per BIS 1786-2008.

(a) The secondary producers must have valid BIS license to produce HSD bars conforming to IS 1786 : 2008. In addition to BIS license, the secondary producer must have valid license from either of the firms Tempcore, Thermex, Evcon Turbo & Turbo Quench to produce TMT Bars.
(b) The TMT bars procured from primary producers & ISP shall conform to manufacture's specifications.
(c) The TMT bars procured from secondary producers shall conform to the specifications as laid by Tempcore, Thermex, Evcon Turbo & Turbo Quench as the case may be.
(d) TMT bars procured either from primary producers ISP or secondary producers, the specifications shall meet the provisions of IS 1786: 2008 pertaining to Fe 550 grade of steel as specified in the tender

1.2 The contractor shall have to obtain and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work.

1.3 Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications as defined under para (1)(d) & (1)(e) above, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time or written orders from the Engineer-in-Charge to do so.

1.4 The steel reinforcement bars shall be brought to the site in bulk supply of 10 tonnes or more, or as decided by the Engineer-in-charge.

1.5 The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent their distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.

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

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

1.7 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/Department in the manner indicated below:

(a) By the contractor, if the results show that the steel does not conform to relevant BIS codes.

(b) By the Department, if the results show that the steel conforms to relevant BIS codes.

1.8 The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to be made.

1.9 The steel brought to site and the steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.

1.10 Contractor shall be permitted to use TMT reinforcement bars procured from secondary producers subject to rate of providing & laying TMT reinforcement bars as quoted by the contractor in the tender shall also be reduced by Rs.7.00 per kg. (Which includes Contractor's Profit and Over Heads as applicable).

1.11 In case the contractor bring 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.

1.12 The mild steel and medium tensile steel bars to be used shall conform to latest version of IS: 432 and cold twisted bars and TMT bars shall conform to the latest version of IS: 1786.

1.13 i) Reinforcement including authorized spacer bars and lappages shall be measured in length of different diameters as actually (not more than as specified in the drawings) used in the work nearest to a centimeter. Wastage and un-authorized overlaps shall not be measured.

ii) The standard sectional weights referred to as in Table 5.4 in para 5.3.4 in CPWD Specifications (Vol-I) 2009 for Cement Mortar, Cement Concrete and RCC Works will be considered for conversion of length of various sizes of M.S. Bars and T.M.T. bars into Standard Weight.

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

iv) a) If the Derived Weight as in sub-para (iii) above is lesser than the Standard Weight as in Sub-para (ii) above then the Derived Actual Weight shall be taken for payment.

b) If the Derived Actual Weight is found more than the Standard Weight, the Standard Weight as worked out in sub-para (ii) 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.

# ADDITIONAL CONDITIONS

1. The work shall be carried out in such a manner so as not to interfere or affect or disturb other works, being executed by other agencies, if any.
2. Any damage done by the contractor to any existing work shall be made good by him at his own cost.
3. The work shall be carried out in the manner complying in all respects with the requirement of relevant byelaws of the local bodies under the jurisdiction of which the work is to be executed and nothing extra shall be paid on this account.
4. The contractor shall make his own arrangement for obtaining electric connection (s) if required, and make necessary payment directly to the department concerned.The department will however make all reasonable recommendations to the authority concerned in this regard.

5. The Contractor or his authorized representative should always be available at the site of work to take instructions from departmental officers, and ensure proper execution of work.

6. The structural and other drawings for the work shall at all times, be properly correlated before executing any work and no claim whatsoever shall be entertained in his respect.

7. The contractor shall maintain in good condition, all works executed till the completion of entire work allotted to the contractor.

8. Royalty at the prevalent rates and all other incidental expenditure shall have to be paid by the contractor on all the, metal shingle, earth sand, bajri etc. collected by him for the execution of the work direct to the concerned Revenue Authority of the State or Central Govt. His rates are deemed to include all such expenditure and nothing extra shall be paid.

9. The malba / garbage, removed from the site shall be disposed off by the contractor at any suitable place as directed by the Engineer-in-Charge.

10. All work and materials brought and left upon the ground by the contractor or by his order for the purpose of forming part of the works, are to be considered to be the property of the President of India and the same are not to be removed or taken away by the contractor or any other person without special license and consent in writing of the Engineer-in-Charge, but the President of India is not to be in any way responsible for any loss or damage which may happen to or in respect of any such work or materials either by the same being lost or damaged by weather or otherwise.
11. Unless otherwise provided in the schedule of quantities the rates, tendered by the contractor shall be all-inclusive and shall apply to all heights, depths, leads and lifts.

12. The contractor shall construct suitable godown at the contractor's compound for storing the materials safe against damage due to sun, rain dampness, fire, theft etc. He shall also employ necessary watch and ward establishment for the purpose and no extra claim whatsoever shall be entertained on this account.

13. Material shall be kept in joint custody of the contractor and the representative of the Engineer-in-charge. The empty containers shall not be removed from the site of work till the relevant Item of work has been completed and permission obtained from the Engineer-in-Charge.

14. The area shall be kept dry when the work is in progress even below water table. Nothing extra shall be paid for removal of slush / sludge, bailing out water due to sub-soil condition, rains, spring etc.

15. The temporary warning lamps shall be installed at all barricades during the hours of darkness and kept lit at all times during these hours.

Failure to comply with the requirements mentioned above shall be deemed to be breach of the contract on the part of the contractor for which the contractor shall be liable to action under relevant clauses/conditions of the agreement. The Engineer-in-Charge shall give notice to the contractor for such default and the contractor shall comply with the same within one day of such notice failing which the Engineer-in-Charge will get the barricading set right in accordance with above provisions at risk and cost of the contractor in addition to the compensation payable by the contractor for default.

16. For taking the permission to execute the work, if any required from any Government Department like Traffic Police, local body etc. the contractor will associate themselves with the department.

17 The bitumen content in bituminous mix shall be checked by conducting the bitumen extraction test conforming to IRC:SP:11 at regular interval during progress of work. The actual consumption of bitumen shall be worked out based on such test results. The theoretical consumption shall be worked out based on the approved design mix formula. The actual consumption (based on extraction test as well as MAS account) if found less than theoretical one, the recovery shall be made from contractor for bitumen of grade 80/100, **VG-30**, etc. as appropriate at the rate as mentioned under **Clause 42 in Schedule- 'F'** for less use of bitumen. The work found executed with bituminous mix having bitumen content lesser than permissible variation of (-) 0.3% (by weight on similar basis as of design mix) shall be considered as sub-standard work and hence shall be liable for rejection. However, nothing extra shall be paid if actual consumption so worked out is higher than theoretical consumption. This is without prejudice to action under other relevant clauses of the agreement.

18 All stone aggregate and stone ballast shall be of hard stone variety to be obtained from approved quarries.

19 Sand to be used for all works excluding filling shall be of standard quality. The same shall consist of hard siliceous materials. It shall be clean sand**.**

20. All the dismantle material will be stacked by contractor and handed over to the department after completion of work with proper listing counting of dismantle material as per direction of engineer- in-charge and nothing extra payment shall be made for this.

21. For the release of payments (after receiving the pass order from the 2IC/DC (Works) /(Elect), BSF) necessary action will be taken by NCDDO (DDO). For any payment related issues of the bill has to contact with Admin officer only of the establishment (not contact in this regard to Engineering Br. or DDO).

23. PAD (Pay & Accounts Division) BSF, Pushpa Bhawan, Madangiri, New Delhi-110017 is the payment authority for releasing of the payment.

# GENERAL SPECIFICATIONS

1 The work, in general, shall be executed as per the description of Item, and CPWD specifications 2019 Vol, I & II with correction slips up to the date of receipt of tender.

2 All the works unless otherwise specified hereinafter or permitted by Engineer-in-Charge shall be done in accordance with the latest editions of IRC codes as on the date of receipt of tenders or any other specified code. In addition, relevant IS Codes. (Latest revision), and CPWD Specifications 2019 Vol, I & II with upto date correction slips shall also be applicable.

Any additional standard specifications or criteria published by the IRC/BIS or other foreign standard and in practice on the date of receipt of tenders shall also be taken into account. In the absence of any definite provisions on any particular issue in the above mentioned specifications, the design and construction shall be in conformity with the Sound Engineering Practice and in all such matters the decision of the Engineer-in-Charge shall be final and binding on the contractor and nothing shall be paid extra.

In case of any discrepancy or contradiction amongst the specified standards the following order of preferences shall generally prevail.

i. Nomenclature of item etc given in Schedule of Quantities.

ii. Particular Specifications & Special conditions for this work, if any.

iii. Particular Specifications, Special Conditions, Special Conditions for Cement & steel and additional conditions if any.

iv. General Specifications and General Conditions, if any.

v. Drawings attached with the tender.

vi. CPWD specifications, 2019 Vol I & II with upto date correction slips.

vii. All relevant IS Codes with the latest revisions.

If there are varying or conflicting provisions made in any document forming part of the contract, the Engineer-in-Charge shall be the deciding authority with regard to the Intention / interpretation of the document and his decision shall be binding without any reservations.

3. The contractor shall ensure quality control measures on different aspects of construction materials, workmanship and correct construction methodologies to be adopted. He shall have to submit brief quality assurance programme within two weeks of the award of the work detailing list of Engineers and make of different materials to be used in the work.

3.1 The contractor shall submit brand/make of various materials to be used for the approval of the Engineer-in-Charge along with samples and once approved, he shall stick to it.

3.2 The contractor shall submit shop drawings of staging and formwork arrangement etc. for the approval of Engineer-in-Charge. The contractor shall also submit bar bending schedule for approval of Engineer-in- Charge before execution.

3.3 The contractor shall get the water tested with regard to its suitability for use in the works and get written approval from the Engineer- in-Charge before he proceeds with the use of same for execution of works. If the tube well water is not suitable, the contractor shall arrange Municipal water at his own cost and nothing extra shall be paid to the contractor on this account. Water charges shall not be recovered in case arrangement of water is made at his own by the contractor.

3.4 Wherever any reference to any Indian Standard Specifications and other relevant codes occur in the documents relating to this contract same shall be inclusive of all amendments issued thereto or revision thereof, if any, upto date of receipt of the tender.

3.5 All the drawings shall at all times be properly correlated by the contractor before executing the work and no claim what so ever shall be entertained for failing to do *so.* In case of any discrepancy in the specifications, schedule of quantity and drawings, the decision of the Engineer-in-charge shall be final, conclusive and binding on the contractor.

3.6 Rates for the Items are inclusive of all labour, materials, T&P, incidental charges, contractors profit and overheads etc. unless, otherwise, specified. The contractors shall quote the rates accordingly.

# PARTICULAR SPECIFICATIONS
## CIVIL WORKS

### 1. EARTH WORK

The work shall be done in accordance with CPWD Specifications using mechanical equipment's and machinery as per site condition and without any damage to nearby structure.

### 2. CONCRETE WORK

The concrete work shall be done in accordance with CPWD Specifications.

### 3. PRE-CAST RCC WORK

Pre-cast reinforced concrete units shall be of grade or mix and cement content as specified in the schedule of quantities. Provision shall be made in the mould to accommodate fixing devices such as hook, flats etc and forming of notches and holes. Each unit shall be cast in one operation. A sample of the unit shall be got approved from Engineer-in-charge before taking up the work.
Pre-cast units shall be clearly marked to indicate the top of member and its location.
Pre-cast units shall be stored, transported and placed in position in such a manner that these are not damaged.

The compaction of the concrete shall be done by vibrating table or external vibrator, as approved by Engineer-in-charge. The rate quoted for the Item shall include the element for framework and mechanical vibration.

Rate for Item includes cost of all materials, shuttering, reinforcement, M.S Sheet, labour and all operations involved. Cost of M.S. frames, lugs including their welding, lifting hooks is also included.

### 4. Shuttering:-

The contractor shall use steel shuttering as approved by the Engineer-in-charge. Minimum size of shuttering plates shall be 600mm x 900mm except for the case when closing pieces required completing the shuttering panels. Dented, broken, cracked, twisted or rusted shuttering plates shall not be allowed for use on the work.

The shuttering plates shall be cleaned properly with electrically driven sanders to remove any cement slurry or cement mortar or rust. Proper shuttering oil or de-bonding compound or Plastic sheets shall be applied on the surface of the shutter plates in the requisite quantity before assembly of steel reinforcement.

### 5. Brick work:-

5.1 The brick work shall be carried out with good quality well burnt FPS Bricks of specified class designation.

5.2 The rate shall also include for leaving chases / notches for dowels / cramps for all kinds of cladding to come over brick work.

5.3 Brick masonry shall be with FPS. Contractor shall intimate the source of supply of bricks & samples of the bricks shall be got approved from the Engineer-In-Charge in advance.

## PARTICULAR SPECIFICATIONS & SPECIAL CONDITIONS

1. The work shall be done as per MORTH/CPWD Specifications. Cost of all tests shall be borne by the contractor. Job Mix formula shall be carried out by contractor from laboratory approved by the Executive Engineer /Assistant Engineer. Cost of Job Mix formula etc shall be borne by contractor.

2. Design mix shall be done in approved lab like IITs, CRRI, NITs or Central/State owned laboratory approved by Engineer-in-charge. Cost of design mix shall be borne by contractor.

**ANNEXURE – A**

## LIST OF EQUIPMENT IN SITE TESTING LABORATORY

| PARTCULARS | | ITEM | QUANTITY |
|---|---|---|---|
| 1. Aggregate Testing | | | |
| | 1 | Set of coarse sieves 30cm dia (GI Sheet frames with aperture size (40 mm, 25mm, 20mm, 16mm, 17.5mm, 10mm, 4.75 mm all with lid and pan) | 1 Set |
| | a) | Motorised sieve shaker for the above sieves. | 1 No. |
| | 2. | Set of fine sieves 20 cm dia of Brass with aperture size (4.75 mm, 2.36mm, 1.18 mm, 600 mic, 300 mic, 75mic all with lid and pan) | 1 Set |
| | a) | Motorised sieve shaker for the above sieves. | 1 No. |
| II Weighing Equipment | 1. | Physical balance capacity 200 gms | 1 No. |
| | 2. | Dial type spring balance having knob capacity 100 kgs reading to ½ kg. | 2 Nos. |
| | 3. | Counter Scale capacity 1 kg & 10 kg | 1 No. / each |
| | 4. | Weighing Platform Capacity 100 kg | 1 No. |
| | 5. | Iron weights of 5kg, 2kg, 150gm, 200gm, 100gm | 2 Nos. / each |
| | 6. | Brass Weights of 50gm, 20gm, 10gm, 5gm, 2gm, 1gm | 2 Nos. / each |
| III | 1. | Cube testing Machine | 1 No. |
| IV | 1. | Slump cone in case of RCC work. | 2 Nos. |

1. The contractor has to deploy cube testing machine if the cost of cement concrete grade 1:2:4 (M-15) and richer mix is more than Rs 25 lacs. In other cases, the testing charges of cube shall be borne by the contractor.

2. These equipment/T &P/machinery shall be the mandatory requirement over and above those pertaining to arrangement of concrete from RMC producing plants as mentioned elsewhere in the tender documents. In case the requirement at any stage exceeds that given above the same shall be arranged as per need by the contractor at his own cost.

3. Nothing extra whatsoever shall be payable on this account.

4. All the equipment, T & P and machinery shall be kept in good conditions.

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

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

7. To maintain horizontal & vertical profile of the building the contractor have to do the total station survey with least count of 1 second at his own cost and nothing extra shall be paid for this.

8. Before starting the work, the spot level of the site is to be done by the total survey station instrument by the contractor and three sets of spot level drawings are to be submitted by the contractor to the department before starting work.

**Note:- The equipment's not relevant for this work may be exempted by Engineer- in-Charge on the written request of the agency**.

| LIST OF APPROVED MANUFACTURES/SUPPLIERS (GENERAL) | | |
|---|---|---|
| **S.NO** | **MATERIAL** | **APPROVED PRODUCT / MAKE** |
| 1 | CEMENT (OPC/PPC) | ULTRATECH, ACC , DALMIA, NUVOCO, AMBUJA, SHREE, STAR, OR AS DIRECTED BY ENGINEER-IN-CHARGE |
| 2 | STRUCTURAL STEEL SECTIONS AND REINFORCEMENT | TATA(TISCON), SAIL, RINL, JINDAL STEEL & POWER LTD., JSW STEEL LTD |
| 3 | DAMP PROOF MATERIAL/ POLY SULIPHIDE SEALENT/ ADMIXTURES/ WATER PROOFING COMPOUND/ INJECTION GROUTING | DR. FIXIT, FOSROC, BASF, IMPERMO, CICO, ZYDEX, DOW, CORNING, CHOKSEY, TUFFSHEAL, SIKKA, |
| 4 | WHITE CEMENT | J.K. WHITE, BIRLA WHITE |
| 5 | LOCKS/ LATCH | GODREJ, HARRISON, YALE, LINK. |
| 6 | SS WIRE MESH | STERLING ENTERPRISES, TRIMURTY WELDED, SPC (SELECTED PRODUCTS CO). |
| 7 | ADHESIVE | PIDILITE, FOSROC, SIKA, CICO, BASF, |
| 8 | EPOXY MORTAR | FOSROC, SIKA, DR. FIXIT, CICO. |
| 9 | DASH FASTENER | HILTI, FISHER, BOSCH, CANON |
| 10 | FLUSH DOOR SHUTTERS (DOOR SHUTTERS (DECORATIVE/ NON DECORATIVE)/ LAMINATES/ PRELAMINATED PARTICLE BOARD/ BOARD & PLYWOOD | GREENPLY, CENTURY, NATIONAL, DURO, JAYNA (JAIN WOOD INDUSTRIES), MERINO, ACTION TESA, NOVOPAN, KITLAM, ARCHID, PLY, ACTION TESA (ISI MARKED) |
| 11 | HYDRAULIC DOOR CLOSE R/ FLOOR | GODREJ, DORMA, HEFFLE, KICH, HETTICK, HARDWYN |
| 12 | WOODEN DOOR FITTINGS OF BRUSHED STEEL | B & R, GODREJ, DORMA, HEFFLE, KICH, HETTICK.(ISI MARKED) |
| 13 | S.S. STAIRCASE RAILING/ ACCESSORIES | KICH, D-LINE, JINDAL STAINLEES STEEL LTD.(ISI MARKED) |
| 14 | FIRE CHECK DOOR | PROMAT, KUTTY DOOR, NAVAIR, SAINT GOBAIN, SIGNUM FIRE PROTECTION INDIA PVT. LTD.) |
| 15 | FIRE CHECK ACCESSORIES CALCIUM/ SMOKE SEAL STRIP/ DOOR, CLOSER LOCK | PROMAT, NAVAIR, ASTRO FLAME. |
| 16 | PREMIUM ACRYLIC EXTERIOR PAINT WITH LOW VOC / INTERIOR ACRYLIC PAINT AND PRIMER WITH LOW VOC/ | ASIAN, BERGER, NEROLAC, DULUX |
| 17 | ANODISED ALUMINIUM HARDWARE (HEAVY DUTY) | CLASSIC HARDIMA, EVERITE, SIGMA (ISI MARKED) |
| 18 | HARDWARE FITTINGS | GODREJ, HFFLE, HETTICH, KICH, DORMA, POLYTUF (R.S. INDUSTRIES). |
| 19 | TEMPERED GLASS | MODL SAINT GOBAIN, ASAHl, MODI GUARD |
| 20 | POLYSTER POWDER COATING | NEROLAC, BERGER, J & N |

| | | |
|---|---|---|
| 21 | ALUMINIUM SECTIONS | HINDALCO, INDALCO, JINDAL |
| 22 | FRICTION STAY HINGES | EARL-BIHARl, HETTICK, DORMA, HEFFLE. |
| 23 | NUTS, BOLTS AND SCREWS | HETTCK, HEFFLE, KICH, DORMA |
| 24 | EPDM GASKET | HANU, ANAND |
| 25 | STRUCTURAL SILICON/WEATHER SILICON | DOW CORNING, WACKER, 3M |
| 26 | ADHESIVE TAPE | NORTON, 3M (ISI MARKED) |
| 27 | GLAZED CERAMIC TILES / VITRIFIED TILES | KAJARIA, SOMANY, NITCO, ORIENT, CERA, JOHNSON |
| 28 | CEMENT CONCRETE TILES/ HARDONITE TILES | NITCO, HINDUSTAN, PODDAR, ULTRA TILES, NTC |
| 29 | TILE ADHESIVE | CICO, PIDILITE, FERROUS, BALENDURA, LETECRETE. |
| 30 | CHEQUERED TERRAZO TILES | NITCO, BHARAT, PODDAR, ULTRA TILES, NTC, CERA, SOMANY. |
| 31 | CLAY TILES ON ROOF | KENJAI, JOHNSON. |
| 32 | CC PAVERS | NITCO-{ROCKARD), PODDAR. ULTRA TILES |
| 33 | GRASS PAVER | UNISTONE, ULTRA |
| 34 | WATER-PROOF CEMENT PAINT/ SYNTHETIC ENAMEL PAINT/ PLASTIC EMULSION PAINT | SNOWCEM, ASIAN, BERGER, NERQLAC, DULUX |
| 35 | VITREOUS CHINA SANITARY WARE | PARRYWARE, HINDWARE, ESSCO,KOHLER SOMANY, CERA. |
| 36 | FIRECLY SINK & DRAIN BOARDS | PARRY, SUNFIRE |
| 37 | S.S. KITCHEN SINKS | NILKANTH, AMC, COBRA, SPC (SELECTED PRODUCTS CO.), CERA, M/S PRAYAG POLYMERS (P) LTD, KINGSTON (PLASTO CRAFT SANITARY INDIA PVT. LTD.) |
| 38 | C P BRASS BATH FITTINGS | JAQUAR, HlNDWARE, KOHLER, SOMANY, PRIMA CERA, KINGSTON, PRAYAG, ESSCO (JAQUAR) |
| 39 | SOIL, WASTE & VENT PIPES & FITTING (A) CENTTIFUGAL CAST IRON | NECO, SKF, HE1'C0, BIC RPMF (RAJ PATIERN MAKERS & FOUNDERS PVT. LTD.), RIF (RAJ IRON FOUNDRY) (ISI MARKED) |
| 40 | LA (CI) PIPES | NECO,JINDAL,PUNJAB FOUNDRY LTD |
| 41 | G.I. PIPES | TATA, JINDAL (HISSAR), BANSAL, SURYA PRAKASH, SYNTEX. |
| 42 | GI FITTINGS (MALLEABLE CAST | UNIK, ZOLOTO |
| 43 | GUNMETAL VALVES | LEADER, SANT, ZOLOTO |
| 44 | STONEWARE PIPE & GULLY TRAPS | PERFECT, PARRY |
| 45 | R.C.C. PIPES (NP-2) | LAKSHMI, SOOD & SOOD, JAIN & Co. |
| 46 | MS PIPES | TATA, SAIL, JINDAL, ELECTRO STEEL |
| 47 | C.I. DOUBLE FLANGED SLUICE | KIRLOSKAR, IVC, BURN |
| 48 | C.I. DOUBLE FLANGED NON-RETURN VALVE | KIRLOSKAR, LEADER |
| 49 | C.I. MANHOLES COVERS | BIC, RIF,SPC (SLELECTED PRODUCTS CO.) |

| | | |
|---|---|---|
| 50 | UPVC PIPE | SUPPEREME, PRINCE, FINOLEX, AKG, KISHAN (ISI MARKED) |
| 51 | BALL VALVES | ZOLOTO, IBP, ARCO |
| 52 | UNGLAZED VITRIFED TILES | JHONSON (ENDURA), SOMANY (DURASTONE) |
| 53 | SPIDER FITTINGS | DORMA, HEFELE,KICH,HETTICK |
| 54 | MINERAL FIBRE FALSE CEILING | ARMSTRONG, ANUTONE |
| 55 | LIGHT WEIGHT CALCIUM SILICATE FALSE CEILING TILES | AEROLITE, HILUX |
| 56 | ACOUSTICAL PANELS | ARMSTRONG, ANUTONE |
| 57 | 6MM THICK TOUGHENED HEAT REFLECTIVE GLASS | SAINT GOBAIN, ASAHI, MODIGUARD |
| 58 | GLASS REINFORCED CONCRETE | UNISTONE, ULTRA, GYPROC. |
| 59 | UPVC WINDOW, VENTILATION AND DOORS | FENESTA, REHAU, NCL-VEKA |
| 60 | MULTI LATERED POLYCARBONATE PANEL/ FAÇADE SYSTEM | GE PLASTICS, DANPLAN |
| 61 | STAINLESS STEEL HARDWARE FITTINGS | DORMA, GODREJ, KICH, HAFFLE, HETTICK |
| 62 | HUBLESS PIPES & FITTINGS | NECO, SKF, RPMF, (RAJ PATTERN MAKERS & FOUNDERS PVT LTD.) |
| 63 | FRP DOOR SHUTTER AND FRAME | SPC (SELECTED PRODUCTS CO.) JAIN DOORS PVT. LTD, JAYNA (JAIN WOOD INDUSTRIES) |
| 64 | SOLID PVC CUPBOARD SOLID KITCHEN CABINET AND SOLID PVC DOORS. | RAJSHREE, SINTEX |
| 65 | PVC DOORS & FRAMES | RAJSHREE, SINTEX |
| 66 | ISI MARKED FLUSHING CISTERNS | HlNDWARE, JINDAL, CERA, PARRYWARE, PRAYAG |
| 67 | MANUFACTURER OF MS STEEL SECTION WINDOWS, MS TUBLER SECTION WINDOWS & MS PRESSED STEEL DOOR FRAMES | SAN HARVIC, AGUE JANGID ENGINEERING WORKS |
| 68 | PTMT BATHROOM FITTINGS | M/S PRAYAG POLYMERS (P) LTD, POLYTUF (R.S. INDUSTRIES) KINGSTON (PLASTOCRAFT SANITARY INDIA LTD.) |
| 69 | SUPER PLASTICIZER | PIDILITE, FOSROC, SIKA, CICO, BASF, |
| 70 | FRP SHUTTER | FIBER GLASS ENGINEERS, ASHOO MODEL |
| 71 | CURTAIN CARRIER | VISTA LEVLOR OR EQUIVALNET |
| 72 | DRAPERY ROD | VISTA LEVLOR OR EQUIVALNET |

| | | |
|---|---|---|
| 73 | TUBLAR SECTION WINDOW | M/S CLASSIC ENGINEERS & FABRICATOR, RAIPUR, M/S MULWIN INDUSTRIAL CORPORATION, KOLKATA |
| 74 | HARDNER | HARDCRETE OF SNOWCEM INDIA,MC DERITOP, DR FIXIT |
| 75 | EPOXY PRIMER & PAINTS | BERGER, PIDILITE, ASIAN, NEROLAC |
| 76 | PRIMER | ASIAN, ICI, BERGER, NEROLAC |
| 77 | PVC RAIN WATER PIPE & FITTING | FINOLAX, CLASSIC OF KISAN, ASTRAL,SUPREME, PRINCE |
| 78 | BIO TOILET | SINTEX OR EQUIVALENT AS PER SPECIFICATION |
| 79 | ALL SANITARY FITTING PTMT | PRAYAG, PRINCE, KLASSIC, SUPREME, ASTRAL |
| 80 | PP-R PRPE & FITTING | SINTEX, FINOLEX, ASTRAL, SUPREME, SFMC |
| 81 | SYNTHETIC POLYMERIC RUBBER COMPUND | ARMSTRONG, SUPERLON, VIDOFLEX |
| 82 | TEXTURE EXTERIOR WALL | BERGER. NEROLAC, ASIAN, ICI-DULUX |
| 83 | OIL BOUND DISTEMPER | BERGER. NEROLAC, ASIAN, ICI-DULUX |
| 84 | VIRTUOSOS CHINA WASH BASIN | HINDWARE / PERRYWARE /CERA |
| 85 | VITREOUS CHINA PEDESTAL FOR | PEDSTAL OF PERRYWARE / HINDWARE |
| 86 | VITREOUS CHINA FLOOR MOUNTED EUROPEAN W.C. WITHOUT/WITH CISTERN/ VITREOUS CHINA WALL HUNG W.C. WITH VITREOUS CISTERN (COMPONENT)/ ORISSA PAN/ VITREOUS CHINA HALF STALL URINAL/ VITREOUS CHINA WASH BASIN | PERRYWARE / HINDWARE /CERA |
| 87 | LOW LEVEL PVC CISTERN SINGLE FLUSH | SLEEK MODEL CISTERN OF PVC OF HINDWARE OR SLIMLINE DELUXE MODEL OF |
| 88 | DUAL FLUSH FLUSHING CISTERN | SLEEK DUAL FLUSH PVC CISTERN OF HINDWARE OR SLIMLINE DUAL OF PERRYWARE, CEAR |

# PART- C
# (Minor Component)

# PROFORMA OF SCHEDULES : A TO F

**SCHEDULE 'A'**

(FOR MINOR COMPONENT OF WORK) Schedule of quantities for E&M Works:
Attached at Page No. ……

SCHEDULE "B"

**Schedule of materials to be issued to the contractor.**

| S. No | Description of item | Qty | Place of issue | Remarks |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

SCHEDULE „C"

**Tools and plants to be hired 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 "D"

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

SCHEDULE "E"

**Reference to General Conditions of Contract: General Conditions of contract for Central PWD construction work 2023 as amended/modified up to last date of submission of bid.**

| | | |
|---|---|---|
| **Name of work:** | | **Renovation and Upgradation of Toilet Blocks of ADM Block at Ftr HQ BSF Jalandhar (Pb) (EI AND FANS)** |
| **Estimated Cost of work** | | Electrical work Rs. 2,54,040/- **(Electrical Component)** |
| (i) | Earnest Money | As given in Major Component |
| (ii) | Performance Guarantee | As given in Major Component |
| (iii) | Security Deposit | As given in Major Component |

SCHEDULE 'F'

## General Rules & Directions:

Officer inviting Tender: As given in Major Component

**Definitions:**

| | | |
|---|---|---|
| 2 (i) | Engineer-in-Charge for electrical item of work | DC (Elect)/EE (Elect)FTR HQ BSF PB |
| (ii) | Accepting Authority | As given in Major Component |
| (iii) | Percentage on cost of materials and Labour to cover all overheads and profits | 15% |
| (iv) | Standard Schedule of Rates | Delhi Schedule of Rates 2025 with up to date correction slips. |
| (v) | Department | Border Security Force (BSF) |
| (vi) | Standard CPWD Contract Form: | GCC 2023 construction work, CPWD Form 7 as modified& corrected up to date of opening of tender |

**Clause-1:**

| | | |
|---|---|---|
| (i) | Time allowed for submission of Performance Guarantee Programme Chart (Time& progress) in days | As given in Major component |
| (ii) | Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above in days | As given in Major component |

**Clause-2:**

| | | |
|---|---|---|
| (i) | Authority for fixing compensation under clause 2 | As given in Major Component |

**Clause-5:**

| | | |
|---|---|---|
| (i) | Number of days from the date of issue of letter of acceptance for reckoning date of start | As given in Major Component |
| (ii) | Time allowed for completion of | As given in Major Component |

| | | |
|---|---|---|
| | Work | |

TABLE OF MILE STONES

| |
|---|
| Same mile stones as for major components shall be applicable for civil as well as electrical parts of the work. The electrical contractor will ensure that electrical components of the work are executed in time without giving any chance for slippage of mile stones on account of delay in execution of associated electrical works by him. However, in case mile stones are not achieved by the contractor for the project the amount to be withheld under clause 5 of the contract will be done by the Engineer-in-charge of major component only. |

**Authority to decide:**

| | | |
|---|---|---|
| (i) | Extension of time | As given in Major Component |
| (ii) | Rescheduling of mile stones | As given in Major Component |
| (iii) | Shifting of date of start in case of delay in handing over of site | As given in Major Component |

**Clause-5.2:**

**Nature of Hindrance Register (either Physical or Electronic):** As given in Major Component

**Clause-6 :**

| | | |
|---|---|---|
| (i) | Clause applicable - (Computerized Measurement Book) | Yes |

**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 | Nil |

**Clause-7A:**

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

**Clause-7 B:**

| | |
|---|---|
| Whether clause 7 B shall be applicable | Yes |

**Clause-8A:**

| | |
|---|---|
| Authority to decide compensation on account if contractor fails to submit completion plans | As given in Major component |

**Clause-10A:**

| | |
|---|---|
| List of testing equipment's to be provided by the agency at site lab | Enclosed at page No…….. |

**Clause-10B (ii):** Not applicable

**Clause-10 C:** Applicable

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

**Clause-10CA: As per Major Component**

| S. No. | Material covered under this clause | Nearest Materials (other than cement, reinforcement bars and the structural steel) for which All India Wholesale Price Index shall be followed. | Base Price of all Materials covered under clause 10 CA (**Bare Rates without GST**) |
|---|---|---|---|
| **Nil** | | | |

**Clause-10 CC : Not Applicable**

**Clause-11:**

| **Specifications to be followed for execution of work:** | |
|---|---|
| **Electrical work** | 1. CPWD General Specifications for Electrical Works (Part-1) Internal –2023,with up to date correction slips.<br>2. CPWD General Specifications for Electrical Works (Part-II) for External 2023with up to date correction slips.<br>3. CPWD General Specifications for Electrical Works (Part-IV) for Sub-station 2013 with up to date correction slips.<br>4. CPWD General Specifications for Electrical Works (Part-III) for Lift – 2003with up to date correction slips.<br>5. CPWD General Specifications for Electrical Works 2024 (Part-VII) for DG Set with up to date correction slips.<br>6. CPWD General Specifications for Electrical Works (Part-V) for wet riser ands prinkler system – 2020 with up to date correction slips.<br>7. CPWD General Specifications for Electrical Works Heating, ventilation & Air conditioning (HVAC) – 2024 with up to date correction slips.<br>8. CPWD General Specifications for Electrical Works (Part-VI) for Fire Detection and Alarm System -2018 |

**Clause-12:**

**Type of work: Original Work / Renovation Work**

| | | |
|---|---|---|
| **12.2 &12.3** | Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for building work | 100% |
| **12.5** | Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for foundation work (except items mentioned in earth work sub head in DSR and related items) | 100% |
| | Deviation Limit for items mentioned in earth work sub head of DSR and related items. | 100% |

**Clause-16:**

| **Competent Authority for deciding reduced rates:** | |
|---|---|
| **Elect. work** | DC (Electrical)/EE(Elect) |

**Clause-18:**

List of mandatory machinery, tools & plants to be deployed by the contractor at site:
**As per list enclosed and as required refer in page no……..**

**Clause-19 :**

Schedule of rate of recovery for defaults committed in respect of clause 19 and its sub clauses hereof in terms of delay days:

| S. No. | Clause | Rate of recovery for default (Rs.) |
|---|---|---|
| 1 | 19C | As given in Major Component |
| 2 | 19D | |
| 3 | 19G | |
| 4 | 19K | |

**Clause 25**

| | |
|---|---|
| **Conciliator:** | As provided in Schedule „F" of Major Component. |
| **Arbitrator appointing authority:** | |
| **Place of Arbitration:** | |

**Clause-32:**

**Requirement of Technical Representative(s) and Recovery Rates :**

| "Requirement of Technical Representative(s) and Recovery Rate" | | | | | | |
|---|---|---|---|---|---|---|
| Minimum Qualification of Technical Representative | Discipline | Designation (Principal Technical/ Technical representative) | Minimum experience | Number | Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 36(i) | |
| | | | | | Figure | Words |
| Graduate Engineer or Diploma Engineer | Elect | Principal Technical Representative (Project Planning/site /billing Engineer) | 2 years or 5 years | 1 | 30,000/- Per Month | Fifteen Thousand per month |
| "Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers."Diploma holder with minimum 10 year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirementof degree engineers. | | | | | | |

(i) (a) Schedule / statement for determining theoretical quantity of cement and bitumen on the basis of **Delhi Schedule of Rates 2025** printed by the CPWD : **D.S.R- 2025 with upto date correction slips**

(ii) Variations permissible on theoretical quantities:

a) Cement

For works with estimated cost put to tender not more than Rs. 25 lakh. :

For works with estimated cost put to tender more than Rs. 25 lakh. : As per Major component

b) Bitumen for all works :

c) Steel Reinforcement ands tructural steel : sections for each diameter, section and category

d) All other materials :

**ANNEXURE**

## Clause 10 – A & 18

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

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

PROFORMA – „A"

**PROFORMA FOR ASSOCIATING AGENCY FOR E&M WORKS**

I/we hereby propose the following agency for execution of E&M work component mentioned herein. Consent Letter (Form-„G") from the proposed associated agency will be produced at the time of award of work within 7 days after being the lowest bidder.

Name of work **Renovation and Upgradation of Toilet Blocks of ADM Block at Ftr HQ BSF Jalandhar (Pb) (EI AND FANS)**

a) Component of E&M Work : ……. ……..
b) Name of Associated Agency : ……. ……..
c) Details of Enlistment : ……. ……..
d) Category and Class of Enlistment : ……. ……..
e) Monetary limit of work in Enlistment : ……. ……..
f) Validity of Enlistment : ……. ……..
g) Copy of Enlistment Order attached : (Yes /No)
h) Copy of electrical contractor license attached: (Yes /No)
i) Copy of completion certificates of similar work experience attached (Yes /No)
j) Copy GST Registration attached (Yes/No)
k) Copy PAN Card Attached (Yes/No)
l) Consent Letter of agency attached (Yes/No)

Encls: Self Attested photocopies of as stated above.

Seal & Signature of the Main Contractor

## SPECIAL CONDITIONS (FOR ALL E & M COMPONENTS)

1. Copy of Electrical License of eligible class of the bidder.

   (a) In case, bidder does not have electrical license, he shall scan and upload following undertaking along with bid documents,

   "I/We will either obtain valid electrical license at the time of award of work or associate contractor having valid electrical license of eligible class. Before award of the work, the L-1 bidder will submit the electrical license or MoU with the other appropriate electrical license holder firm within week time, failing which the work may not be accepted".

   (b) The L-1 bidder after award of work can change the electrical license holder firm during the execution of work with prior approval of the concerned DC (Elect).

   Associate Agency of the respective components of E&M work shall also be submitted as per attached **Performa - A.**

2. In case the main contractor is himself eligible (as per eligibility criteria) for executing any specific minor component and intends doing the job himself, he may not be required to associate with another agency for that minor component of work. In such cases the main contractor also has to submit the documents as per eligibility criteria mentioned for associated agency of individual E&M component.

3. In support of the eligibility conditions of the proposed associated electrical contractor, copy of their registration documents, Electrical Contractor's License, PAN Card, GST Registration and verifiable work completion certificates similar works(as per clause1.2.1) duly attested by the applicants (Main Contractor) shall be submitted to the concerned (Minor Component in–charge) Executive Engineer (Electrical) for deciding the eligibility. Proposal for associating agency for minor components of work shall be submitted in Form- "H" of this tender document from each associate independently for all electrical and mechanical components.

4. The Executive Engineer (E) will give approval for associating within 7 days after receipt of proposal from contractor, if submitted documents are found in order.

5. Thereafter, the main contractor will have to submit MOU signed with the approved associated agency for minor component. The MOU in the enclosed form (**Form– „I"**) shall be signed by both the parties i.e. main contractor as 1st party and associated electrical contractor as 2nd party for all electrical and mechanical components and submit the same within 7 days of receipt of approval from Executive Engineer(E).

6. The main contractor has to enter into agreement with contractor associated by him for execution of minor component. Copy of such agreement shall be submitted to Executive Engineer (E) in charge of minor component as well as Executive Engineer, in-charge of major component.

7. In the event of the concerned E&M agency (Associated agency) is not performing satisfactorily or failure of associate contractor to complete the E&M work, shall remove the associate agency deployed on the work and shall submit name of new associate

agency who fulfills the conditions mentioned in NIT to execute the left-over work without any loss of time or variation in cost to the department. Such associate agency shall also give an undertaking along with the main tenderer that both of them shall stand guarantee for the equipments already supplied for which payment has been released by the Department, in part. If any equipment supplied for the work, during the currency of the earlier Associate contractor and paid partly by the Dept., becomes redundant / not in a position to be installed and commissioned and put to beneficial use due to change in agency for execution of E&M work, the main contractor shall be liable for replacement of the equipment(s) at no cost to Department. No change of Electrical Contractor will be allowed without prior approval of the Engineer-in-charge of the work.

8. Materials for all E & M works shall be procured only from the original equipment manufacturers / authorized dealers of OEM. The contractor shall submit all documentary details in fulfillment of this condition regarding procurement of materials including relevant test certificates.

9. Executive Engineer (E) shall be the Engineer-in-charge as far as electrical works are concerned. Separate tender schedule abbreviated CPWD-7 and Special Conditions for Electrical Work are appended with this tender. It will be obligatory on the part of the contractor/ tenderer to sign the tender documents for all the component parts.

10. The main contractor shall be responsible and liable for proper and complete execution of the Electrical and Mechanical component of works and ensure coordination and completion of both civil and electrical work.

11. The associate contractor or his representative along with main contractor or his representative shall attend the inspection of the work by the Engineer-in-Charge of E&M works as and when required.

12. Before completion of defect liability period of one year, the main contractor has to submit Security Deposit of 2.5% of the price quoted by him for SITC of LED fittings for the remaining 4 years warranty period in acceptable form i.e. FDR / Bank guarantee.

**Form- "G"**

**CONSENT LETTER FROM ASSOCIATE AGENCY FOR E&M WORKS**

Name of work: **Renovation and Upgradation of Toilet Blocks of ADM Block at Ftr HQ BSF Jalandhar (Pb)(EI AND FANS)**

Agreement No :.....

I/We hereb y give my consent to associate with M/s..... ,for executing the minor component of work of .....(Mention category).

I/We will execute the work as per specifications and conditions of the agreement and as per directions of the Engineer–in-Charge for the corresponding minor work till the completion of the work.

I/We will be responsible for necessary action to hand over the installations and for rectification of defects and repair during the maintenance /warranty period.

Also I/We will employ full time technically qualified Engineer/supervisor for the minor component of the work as required for the work. I/We will attend inspection of officers of the department as and when required.

Applicable for Internal EI Component:

I/We will agree that I/we will obtain undertaking from LED manufacturers for 5 years warranty and submit to Engineer –in-charge.

I/We agree to submit security deposit in acceptable format (FDR/BG/DD) @5% of rates quoted for LED fittings be for expiry of defective liability period of one year for the remaining warranty period of 4 years which will be refunded after completion of 5 years warranty.

Date :

Signature with date of Major component

Signature with date of Associate / MinorComponent

Contractor Address

Contractor Address

Witness with address
(From major component contractor side)

Witness with address

(From minor component contractor side)

FORM –"H"

**PROFORMA FOR ELIGIBLE ASSOCIATING AGENCIES FOR MINOR COMPONENTS OF WORK**

**Name of work** **Renovation and Upgradation of Toilet Blocks of ADM Block at Ftr HQ BSF Jalandhar (Pb)** **( EI AND FANS)**

**Agreement No :……**

I/we here by propose the following agencies as per mentioned against each for executing corresponding minor component so work. Their consent letter are also attached

| Sl. No | Name of Associated Contractor | Category and class of registration | Enlistment copy/completion Certificates attached | Monetary Limit Of work | Validity of registration | Consent letter attached (Yes/No) |
|---|---|---|---|---|---|---|
| 1. | | | | | | |
| (Part-C)<br>SH-(A)<br>Electrical Installation. | | | | | | |

Note : Self Attested photocopies of enlistment order, valid electrical contract or license, annual pre-qualification order, work experience certificates of each agency for each component to E&M work shall be submitted.

Signature of contractor.

**Form- "I"**

**MEMORANDUM OF UNDERSTANDING (MoU)**

1] M/s [Name of the firm with full address]
Enlistment Status

Valid Upto:
[Henceforth called the main contractor]
And

2] M/s [Name of the firm with full address]
Enlistment Status

Valid Upto:

[Henceforth called Associated E&M Contractor or Electrical Contractor]

For the execution of ……..(mention category) component of E&M work in the contract for the work : …… …… ……..…… ……." as per Schedule of Quantities, Specifications, Terms and Conditions of the said contract.

We state that MoU between us will be treated as an agreement and has legality as per Indian Contract Act (amended up to date) and the department (BSF) can enforce all the terms and conditions of the agreement for execution of the above work. Both of us shall be responsible for the execution of work as per the agreement to the extent this MoU allows. Both the parties shall be paid consequent to the execution as per agreement to the extent this MoU permits. In case of any dispute, either of us will go for mediation by the Engineer-in-charge of E&M work. Any of us may appeal against the mediation to the As given in Major Component. His decision shall be final and binding on both of us.

We have agreed as under:

1. The electrical contractor will execute all electrical works in the wholesome manner as per terms and conditions of the agreement.
2. The electrical contractor shall be liable for disciplinary action if he fails to discharge the action(s) and other legal action as per agreement.
3. All the machinery and equipment, tools and tackles required for execution of the electrical works, as per agreement, shall be the responsibility of the Electrical Contractor.
4. The Technical and other site staff required for the said E&M work shall be arranged by the Electrical Contractor as per terms and conditions of the agreement.
5. Site order book maintained for the said work shall be signed by the main contractor as well as by the Engineer of the Associated E&M Contractor or Associated E&M Contractor himself.
6. All the correspondence regarding execution of the electrical work shall be done by the department with the Associated Contractor with a copy to the main contractor. In case of non-compliance of the provisions of agreement, the main contractor, as well as the associated contractor shall be responsible. The action under clauses 2 and 3 shall be initiated and taken against the main contractor.

Date:
Place:

Signature of Main Contractor

Signature of Associated E&M Contractor

1. Witness with address
address (From major component contractor side)

2. Witness with
(From minor component contractor side)

WILLINGNESS CERTIFICATE

Name of work: **Renovation and Upgradation of Toilet Blocks of ADM Block at Ftr HQ BSF Jalandhar (Pb) ( EI AND FANS)**

I hereby give my willingness to work as electrical contractor for the specialized work of"_____" in the above mentioned work. I will execute the work as per specifications and conditions for the agreement and as per direction of the Engineer in-Charge. Also, I will engage full time technically qualified supervisor/engineer for the works. I will attend inspections of officers of the department as and when required.

Date: _____

Place: _____

[Signature of the Associate Electrical Contractor][Stamp with Address]

GENDERAL TERMS AND CONDITIONS

Name of work **Renovation and Upgradation of Toilet Blocks of ADM Block at Ftr HQ BSF Jalandhar (Pb) ( EI AND FANS)**

**General**

The copy of CPWD General Specifications are readily available in CPWD website www.cpwd.gov.in under the link publication.

**Location:**

Work shall be carried out at _____. The contractor is advised to visit the site of work to have an idea of the execution of the work; failure to do so shall not absolve their responsibility to do the work as specified in agreement. The brief about work is that it consists of providing internal Electric Installation work i/c luminaires, DBs, lighting conductor, etc for to be constructed at BICIT Campus BSF New Delhi.

The work shall be executed as per CPWD General Specifications for Electrical works part-I (internal) 2013, 2023 ,Part-II(external)1995, 2023 as amended upto date,Part IV Sub station relevant I.E. Rules, industry standards, BIS/IES and as per directions of Engineer-in-charge. These additional specifications/conditions are to be read in conjunction with above and in case of variations; specifications given in these additional conditions shall apply. However, nothing extra shall be paid on account of these Specific conditions, as the same are to be read along with schedule of works for the work.

The tenderer should visit the site and get familiarize with the site conditions before quoting the rates for tendering.

No T&P shall be issued by the Department and nothing extra shall be paid on account of this.

Type of contract
The work to be awarded by this tender shall be treated as indivisible works contract.

1. **Terms of payment**

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 not exceeding the percentage indicated against the stages of work.

| S.No | Stage of work | Percentage of Rate On Tendered Amount |
|---|---|---|
| (a) | Supply of material at site in good condition along with manufacture's test reports. | 70% |
| (b) | On completion of installation in all respect. | 20% |
| (c) | Testing, Commissioning & handing over to the department. | 10% |

For other items, the part rates will be decided by the Engineer-In-Charge of the work and shallbe binding on the contractor.

2. **Security Deposit**

Security Deposit shall be deducted from each running bill and the final bill to the extent of 2.5% of the gross amount payable subject to a maximum amount of 2.5% of the tendered value. The security deposit shall be released on the expiry of guarantee period of 12 Months stipulatedin the contract.

3. **Performance Guarantee**

As per major component of work.

Income Tax, labour cess & other statutory deductions etc shall be made at source as per the prevalent laws. The deductions of Security Deposit, Income-Tax, GST etc. shall be done after calculation of the above due payments as per clauses 3.1 to 3.3 and net payment shall be reduced accordingly.

4. **Rates**

The rates quoted by the tenderer, shall be firm and inclusive of all taxes including GST and all charges for packing forwarding, insurance, freight and delivery, installation, testing, commissioning etc at site including temporary construction of storage, risks, overhead charges, general liabilities/obligations and clearance from Local Body. However, the fee for the Local Body inspections shall be borne by the department.

The department will not issue Octroi exemption certificate.
The contractor has to carry out maintenance as per manufacturer" standards for a period of 12 months from the date of handing over. Nothing extra shall be paid on this account.

5. **Completeness of Tender**

All sundry equipment, fittings, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections and all other items which are useful and necessary for efficient assembly and installation of wall fan and components of the work shall be deemed to have been included in the tender irrespective of the face whether such items are specifically mentioned in the tender documents or not.

6. **Storage and Custody of Materials**

For storage of sundry materials and erection equipments or else the agency has to make his own arrangements. No separate storage accommodation shall be provided by the department. Watch and ward of the stores and their safe custody shall be the responsibility of the contractor till the final taking over of the installation by the department.

## 7. Care of the Building

Care shall be taken by the contractor while handling and installing the various equipments and components of the work to avoid damage to the building. He shall be responsible for repairing all damages and restoring the same to their original finish at his own cost. He shall also remove at his cost all unwanted and waste materials arising out of the installation from the site of work.

## 8. Completion Period

The completion period indicated in the tender documents is for the entire work of planning, designing, approval of drawings etc arrangement of materials &equipments, delivery at site including transportation, installation, testing, commissioning and handing over the entire system to the satisfaction of the Engineer-in-charge.

## 9. Guarantee

All equipments shall be guaranteed for a period of as per major component from the date of taking over the installation by the department, against unsatisfactory performance and /or break down due to defective design, workmanship or material. The equipments or components, or any part thereof, so found defective during guarantee period shall be forthwith 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 the Engineer-in-charge in this regard shall be final & building on the contractor.

The tender shall guarantee among other things, the following: -

a) Quality, strength and performance of the materials used as per manufacturers standards.

b) Safe mechanical and electrical stress on all parts under all specified conditions ofoperation.

## 10. Power Supply

In any case, electricity connection at one point shall be provided by client/department, if available and agreed by client department. However, contractor shall be responsible for arranging power supply and there shall be no obligation from department to make available power supply for execution of work and while quoting, contractor has to keep in mind that power and water has to be arranged by contractor himself at his own cost and included in the quoted rates. No hindrance on account of non- availability of power supply from client department or BSF shall be considered and contractor shall be responsible for any delay in work on account of above.

11. **Water Supply**

Arrangement of Water supply for testing & for successful installation & completion of the system shall be in the scope of successful firm without any extra cost.

12. **Acceptable Makes of Various Equipments**

The acceptable makes of various equipment's/components/accessories have been indicated in "Schedule of work". The tenderer shall work out the cost of the offer on basis of acceptable makes along with other terms & conditions of contract. Alternate makes are not acceptable. For makes not available in the contract, contractor shall submit at least three makes for approval by Engineer-in-charge. Only makes approved in writing by Engineer-in-Charge shall be binding to the contractor will be used at site. Any material brought at site without prior approval of Engineer-in-charge may be rejected, even if the make is available in NIT and contractor shall be responsible for any such rejection of material. If any material approved by Engg in charge the parameters, specifications and rates of other all the make will be at par with approved make material..

13. The successful tenderer should furnish well in advance three copies of detailed instructions and manuals of manufacturers for all items of equipment's regarding installation, adjustments operation and maintenance including preventive maintenance & trouble shooting together with all the relevant data sheets, spare parts catalogue etc all in triplicate.

14. **Extent of work**

The work shall comprise of entire labour including supervision and all materials necessary to make a complete installation and such tests and adjustments and commissioning, as may be required by the department. The term complete installation shall not only mean major items of the plant and equipments covered by specifications 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 details in the tender documents in connection with this contract as this is a turnkey job. The site of work is scattered and spread or large area consisting of hilly and rolling terrain. The quoted rates shall be deemed to be inclusive of all kind of leads, lifts, clearing of site/jungle and nothing extra shall be paid, whatsoever on such account.

15. In addition to supply, installation, testing and commissioning of complete installation,, following works shall be deemed to be included within the scope of work to be executed by the tenderer as this is a turnkey job

(i) Minor building works necessary for installation of equipments, foundation, making of opening in walls or in floors and restoring them to their original condition / finish and necessary grouting etc. as required. The quoted rates will be inclusive including dismantling the existing electrical items to be carried out during the new work.

(ii) All supports for rising mains, cables and MS channels for erection of panels, etc as are necessary.

(iii) Getting Local Body inspection done & obtaining approval for energizing the installation if required. However, necessary fees for inspection shall be borne by the Department.

(iv) Arrangement of electric supply (Single / Three phase) and water supply for

execution and successful commissioning of the system.

(v) Small wiring, inter-connection etc inclusive of all materials and accessories, necessary to comply with the regulations as well as proper and trouble free operation of the equipment.

(vi) Closing of the cable entry points in sub-station against seepage of water, rodents etc.

(vii) Tools and tackles required for handling and installation.

(viii) Necessary testing equipments for commissioning.

(ix) Watch and Ward of materials and/or installation and equipments till their handling over to the department.

(x) All minor building works, such as equipments foundation if required cutting and making good holes, grouting of channels belts as required. Cutting and making good damages etc.

(xi) Provision of supports/clamps for equipments, cables etc wherever required.

(xii) Arranging necessary load for full load testing of Transformer and DG sets, in case same is not available with Client department.

16. **Works to be done by the Department**

Unless otherwise mentioned in the tender specifications the following works shall carried out by the department.

i) To make the site available for the work. The contractor should select such equipment for installation as can be properly installed in the spaces shown in specification drawings. While no guarantee can be given minor modification required by the contractor if mentioned in the tender or intimated immediately after the receipt of tender shall be carried out if structurally possible.

Exclusion and work to be done by other agencies:

The following shall be excluded from the scope of the work:

a) Major dismantling of any existing building work.

17. **Inspection and Testing**

All the tests certificate of the equipments are required to submit alongwith delivery of material.

Exclusion and work to be done by other agencies:
The following shall be excluded from the scope of the work:

a) Major dismantling of any existing building work.

Copies of all documents of routine and type test certificates of the equipment/cable carried out at the manufacturer's premises shall be furnished to the Engineer-in-charge and consignee.

After completion of the work in all respects the contractor shall offer the installation for testing and operation.

18. **Validity**

Tenders shall be valid for acceptance for a period as per major component of work from the date of opening.

Compliance with Regulations and Indian Standards

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
iii) BIS & other standards as applicable
iv) Workmen's compensation Act
v) Statutory norms prescribed by local bodies, Power supply co., etc.

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.

19. 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. 500/- 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.

20. **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 their 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.

21. **Erection Tools**

No tools and tackles either for unloading or for shifting the equipments for erection purposes would be made available by the department. The successful tenderer shall make his own arrangement for all these facilities.

22. **Cooperation with other agencies**

The successful tenderer shall co-ordinate with other contractors and agencies engaged in the construction of buildings, if any, and exchange freely all technical information so as to make the execution of this work/contract smooth. No remuneration should be claimed from the department for such technical cooperation. If any unreasonable hindrance is caused to other agencies and any completed portion of the work has to be dismantled and re-done for want of cooperation and coordination by the tenderer during the course of work, such expenditure incurred will be recovered from the successful tenderer if the restoration work to the original condition or specification of the dismantled portion of the work was not undertaken by the tenderer himself.

23. The work will be carried out with least disturbance during shifting & shut down taken in consultation with the client department.

24. 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.

25. **Painting**

This shall include cost of painting of the entire installation.

26. **Maintenance**

Sufficient trained and experienced staff shall be made available to meet any exigency of work during the guarantee period of 1 year from the handing over of the installation.

27. **Interpreting specifications**

In the case of discrepancy between the schedule of Items, the specification and/ or the drawings, the following order of preference shall be observed:-

i. Schedule of Work.
ii. Specific Conditions.
iii. General Terms and Condition.
iv. Drawings.
v. CPWD Specifications.
vi. NBC – 2016
vii. Indian Standard Specifications of B.I.S.
viii. Special conditions & additional condition mentioned in part-B of NIT
ix. General Terms & Condition mentioned in part-B of NIT

However, the order of preference provided is in general and higher of specifications available in above documents/acts/codes shall be followed. Contractor is advised to quote the rates accordingly keeping in mind that highest of specification available shall be adopted.

28. General Terms & Condition, Special conditions & additional condition mentioned in part-B of NIT (i.e. Civil Component of work) shall also be applicable for part-C of NIT as well if not specifically mentioned in Part-C of NIT.

29. Excavation shall include hard rock excavation as well and nothing extra shall be paid on this account.

30. In case cable is laid at depth less than as mentioned in NIT/CPWD specifications recovery at Rs. 15 per 10 cm depth /meter of cable length shall be recovered from bill. This shall also be applicable for GI pipe work, DWC pipe work, Earthing work as well.

31. Challan & Test Certificate for all items amounting more than Rs. 25000/- shall be

submitted along with running bill in case both challan & Test certificated are not submitted R.A. bill shall not be considered & contractor shall be responsible for any delay in payment. However, contractor RA bill shall be cleared after withholding 10% of TA of item against non-availability of Challan & test certificates, if agreed by contractor. However, in any case without submission of Challan & test certificates to department final bill shall not be considered as submitted and delay in processing of final bill arising out of such non submission of challan and TC shall entirely be upon contractor

32. Contractor shall submit cable route plan for approval before start of cable work. In case drawings for area / layout are not available with department these drawings shall be prepared by contractor at his on cost. For the purpose of assessment of work contractor is advised to visit the site to get familiar with site conditions before quoting his rates. Similarly, drawing of new wiring work will also be provided by contractor to the department after completion of work free of cost.

33. For all Extra items OR deviation items payable at market rates, contractor shall submit copy of original Invoice of material along with proof of payment (i.e.RTGS receipt, bank statement etc).

34. All cabling & street light work shall be carried out as per CPWD specifications (External) 1995.Contractor shall obtain written clearance from JE/AE in charge of work before refilling the excavated trenches, otherwise it shall be presumed that contractor has not excavated required depth and item/component of item for excavation and refilling for trenches shall not be paid and contractor shall be responsible for such non- payment.

35. Contractor shall get approval of Makes & Models of material before their use at site. The technical specifications / catalogue shall also be submitted along with submission for approval. In case unapproved material is found to be used /installed at site or kept at site store for installation, department shall not only confiscate such material but also be at liberty to recover cost for removal of material from site from contractor's bill.

36. Contractor shall be fully responsible for shifting of services encountered at site like electrical lines/power cables / telephone, tv, data cables/electric poles/light poles/feeder pillar (whether energized or not)/dismantling and handing over such material to department. For shifting of such services including dismantling of such material required for smooth working at site, nothing extra shall be paid. Contractor is advised to visit site before quoting his rates.

37. List of Acceptable makes has been provided in NIT. For each item to be used at site, contractor shall submit model number for each item of minimum three different make for approval by Engineer-in-charge. Only approved make & model/material shall be used at site. Any material found at site which has not been approved can be rejected and shall not be paid. Contractor will be solely responsible for non-payment due to use of non-approved material. The submission for material for approval shall be minimum two weeks before its use at site.

38. No drawing/technical submittal shall be accepted through email. Hard copy of drawings duly signed by Contractor's Engineer will only be approved.

39. All the LED bulbs/LED fittings and Substation equipments viz transformer/HT panel/CSS shall be guaranteed for a period of 5 years. All items except LED bulbs/LED fittings and Substation equipments viz transformer/HT panel/CSS shall be guaranteed

    for a period of one year. Contractor will give warrantee certificates to the department for all items.

40. In case of any discrepancy in the size of the items elaborated in the Schedule of Work, the material of next higher size available in the market to that of the size specified in the Schedule of Work shall be provided without any extra cost.

41. If the material specified in the Schedule of Work become non available due to technology advancement or otherwise then the product of better specifications shall be accepted provide there is no functional change of requirement without any extra cost.

42. All the material viz. CSS, DG set, substation panel/HVAC panel, fire alarm system etc shall be BMS compatible.

43. In case of variation in the light fitting wattage/specifications then the fittings having more lumens per watt shall be preferred and better specification products shall be accepted.

44. In case of any discrepancy/Non availability about the availability of material of requisite specification/size/design as per SCHEDULE OF WORK the same shall be brought to the notice the deptt. within one week from the publication of bid, otherwise it shall be deemed that the Agency has no objection about the size/design/ specification of the material as depicted in the Schedule of Work. In that case, the item of higher/better specification/size shall be provided during execution without any extra cost and without alteration of the functional requirement.

45. The Contractor shall offer for factory inspection for any Electrical equipment/material having value more than 15.00 lacs.

DC(Elect)/EE (Elect)

**FOR ELECTRICAL INSTALLATION**

1. All hardware items such as screws, thimbles, G.I. wires etc. which are essentially required for completing an item as per specifications will be deemed to be included in the item even when the same have not been specifically mentioned.
2. All hardware materials such as nuts/bolts/screws/washers etc. to be used in the work shall be zinc/cadmium plated iron.
3. Any conduit which is not be wired by the contractor shall be provided with GI fish wire for wiring by some other agency subsequently. Nothing extra shall be paid for the same.
4. While laying conduit, suitable junction boxes shall be left for pulling the wires.
5. Copper wire shall be FRLS (as per schedule of work) PVC insulated multi-stranded conductor. Termination of multi- stranded conductors shall be done using crimping type thimbles at both the ends. Nothing extra shall be paid for the same.
6. Material to be used in the work shall be ISI marked. The makes of material have been indicated in the list of acceptable makes. No other make will be acceptable. The material to be used in the work shall be got approved from the Engineer-in-Charge before its use at site. The Engineer-in-Charge shall reserve the right to instruct the contractor to remove the material which, in his opinion, is not as per specifications.
7. Where switches/sockets/telephone outlets are to be provided, the same shall be of only one make and GI box shall be of same make as Modular switch/socket.
8. The earthing shall be carried out in the presence of the Engineer-in-Charge or his authorized representative. Earthing shall be accepted only after verification of earth resistance at site by Engineer-in-charge or his authorized representative.
9. The contractor will cover the switch board sheet and other electrical items by any mean before carrying out distemper/painting work in any building or clean the same after finishing the painting work at his own cost.
10. All fittings/fans will be earthed as per specifications.
11. Sockets used shall be interlocking shutter type.
12. Following markings shall be provided on LED lights for guarantee/warranty condition free of cost by agency:-
    a) Name of Agency :-
    b) Date of Installation:-
    c) Warranty valid upto:-

Non providing of such marking shall attract recovery, recovery will be decided by the Engineer-in-Charge and shall be recovered from bill.

**DC(Elect)/EE (Elect)**

**FORM OF SUPPLEMENTARY AGREEMENT**

This Agreement made this day the ..... 20.....between ..... hereinafter called the First Party which expression shall include his heirs, executors and administrators/their successors and assigns and the President of India, hereinafter called the Second Party, which expression shall include his successors and assigns, shown as under:

1. That this Agreement shall be called as Supplementary Agreement to the Agreement No.....relating to the Name of work entered into by the parties

   to this Agreement.

2. That WHEREAS the First Party has substantially completed the execution of the work described in and covered by the Agreement No..... except the items
   mentioned in the Schedule annexed to this Agreement and whereas the items of the work mentioned in the Schedule annexed to this agreement cannot now be executed on account of Comprehensive maintenance of the lifts, and some other work; and whereas both the parties are desirous that the items mentioned in the Schedule annexed to this Agreement should be executed by the First Party after the completion of the sanitary work, electric installation and some other work, it is hereby further agreed as under :

(a) That First Party shall and will execute the work covered by the items mentioned in the Schedule annexed to this Agreement at the rates and as per the terms and conditions of the original Agreement No whatsoever called upon to do so by the Engineer-in-charge, within a period of one year from the date hereof.

(b) That the First Party shall have absolutely no claim of whatsoever nature against the Second Party for doing the work mentioned in the Schedule annexed to this Agreement as required under clause (a) above, except that which he would be entitled to under the original Agreement No…… .....

(c) That the First Party shall have to execute all the items which the Engineer-in-charge consider necessary.

(d) That the First Party shall start with the work of the remaining items mentioned in the Schedule annexed to this Agreement within ..... days from.....on the receipt of a letter to the effect from the Engineer-in-Charge or from any date fixed in the said letter and shall complete the said work within the time fixed by the Engineer-in-Charge or as extended by him from time to time.

(e) That on the due execution and completion of this Agreement by the parties, the bill of the First Party in relation to the work already done by him under the Original Agreement No.....shall be provisionally finalized by the Second Party and payment on account, if any amount due, shall be made to the First Party provided that the Second Party shall have a right to retain such amount as is considered reasonable by him as a security for the execution of the work mentioned in the Schedule annexed to this Agreement and the Second Party shall have right to deal with the said amount of security as he thinks proper under the terms and conditions of the Original Agreement. Further, on the due execution and original completion of this Agreement, the First Party shall be entitled to claim back his security deposit relating to the work in question, subject to the right of the Second Party to retain such amount as mentioned elsewhere in this NIT, after the maintenance period of 5 year, as the case may be mentioned in clause of the Original Agreement, is over.

(f) That the final bill relating to the entire work under the two agreements shall be prepared after the completion of the entire work covered by Agreement No. ..... and this Agreement. (3) Except as modified by this Agreement the said Agreement No..... shall remain in full force and effect.

IN WITNESS WHEREOF THE ABOVE MENTIONED PARTIES HAVE PUT THEIR SIGNATURE ON THIS DAY THE.....

## BUILDING DRAWINGS & SPECIFICATIONS

1. The Contractor shall submit to the Engineer-in-charge two copies of Building Drawings for Electrical work for approval before start of work. Subsequent to the approval of the shop drawings, the Contractor shall submit six copies of Building Drawings for execution to the Engineer-in-Charge.

2. Building drawings shall be submitted for the following conditions:

   (a) Conduit layout plan
   (b) Layout plan indicating location and heights of all fitting, fixtures
   (c) Single Line Diagram for Distribution Circuit starting from Main Supply till DBs indicating capacities of components.

3. The Contractor can only commence the work after the approval of above documents by Engineer-In-Charge.

**DC(Elect)/EE(Elect)**

# COMPLIANCE TO MAKE IN INDIA POLICY

1. Public Procurement (Preference to Make in India) order 2017 issued by competent authority of Government of India shall be implemented during selection of materials and execution of work accordingly. Any Manufacturer if not included in the approved make list, may be considered by the Engineer-in-Charge provided such manufacturers comply the above policy along with their product meeting the specifications and other details of the required item.

2. All the material supplied by the Agency should be in line with the Make in India guidelines, if there are some makes fulfilling the specifications & Make in India guidelines, then same should be brought to the notice of this office for necessary action.

**DC(Elect)/EE(Elect)**

| List of approved makes to be incorporated in tender documents (E&M Works) | | |
|---|---|---|
| **S.no.** | **Details of material/equipment** | **Manufacturer`s name/make** |
| | **I.E.I., MCB DB & MCB, cable & Wires** | |
| 1 | MCB, Isolator, Industrial Plug Socket, RCCB, RCBO`s | Schneider Electric ACTI-9(N)/ Legrand (DX3)/ Hager/ L&T(Exora)/ ABB(S200M)/ Seimens (Betaguard) |
| 2 | MCBDB & Loose wire Box | Schneider Electric / Legrand/ Hager/ L&T/ ABB(Elegance) / Seimens/Indoasian (optipro)/Anchor |
| 3 | Change Over Switch | L&T/ Havells/ HPL/ Hager/ Schneider/socomec |
| 4 | Automatic Transfer switch(ATS) | Asco/ Russel/ Socomac/ Hager/ ABB/ L&T/Havells/HPL/ Schneider |
| 5 | FRLS PVC ins. Copper cond. Single core cable for wiring (ISImarked) | Havells//Polycab/RR Kabel/KEI |
| 6 | Armoured/ Unarmoured telephone cable, coaxial cable | Delton/Finolex/ RR Kabel/ Havells/Bonton/ Anchor/NEC/ KVVS/ //Polycab/KEI |
| 7 | MS Conduit (ISI marked) withheavy duty MS Conduit pipe accessories. | BEC/ NIC/ AKG/ RMCON/JPC/Steel Kraft ( Note:- the make of accessories shall be same that of conduit pipe & will comply to IS/14768 part2 2003) |
| 8 | PVC Conduit (ISI marked) with heavy duty PVC Conduit pipe accessories. | AKG/BEC/ RMCOM/ MKI/ Precision (ISI Marked) |
| 9 | Modulear Switch, Socket/Telephone socket/ cableTV Socket/ Data outlet socket/ Fan Regulator/ G I Boxes Etc (Wiring accessories). | Legrand/Hager/Scheinder/Crab-tree(Havells) /L&T/Anchor |
| 10 | Selector Switch & Toggle switch | Salzer(L&T)/ Siemens/ Kaycee/ Rishabh/ ABB/Philips |
| 11 | PVC Trunking | MK/Schneider Electric / Legrand. |
| 12 | GI pipe | Tata / Jindal(Hissar)/ Prakash Surya/Consoul. |
| 13 | Paints | ICI/ Asian/Berger |
| 14 | Terminal Block & Connectors | Elmex/ Connect well/FTC |
| 15 | Phenolic laminated sheet/ Bakelite sheet | Hylem/ Formica(P-I grade)/ Mylam/ Greenlam. |
| 16 | Cat-6/Cat-6A cable, Wires &Fiber optic cable | Amp, Avaya/Beldon/Legrand/Molex/ Schneider/Bonton/Anchor/KVVS/HPL/AKG |
| | **Fans & Fittings** | |

| | | |
|---|---|---|
| 1 | Fluorescent fittings | Wipro/ Phillips/ Crompton Greaves/ Havells/Osram/Jaquar |
| 2 | LED Fittings | Wipro/ Phillips/ Crompton Greaves/ Havells/ Osram /Jaquar |
| 3 | Exhaust Fan | Havells/ Crompton Greaves/ Usha/ Almonard/ Orient |
| 4 | Ceiling Fan | Havells/ Crompton Greaves/ Usha/ Orient/ Bajaj/Orient Electric |
| 5 | Wall Bracket fitting | Havells/ Crompton Greaves/ Decon/ Phillips / Jaquar |
| 6 | Lamps/ Fluorescent Tubes/ T5Fluorescent Tubes/ LED Lamp | Wipro/ Phillips/ Crompton Greaves/ Havells/Osram/Jaquar/ Bajaj |
| 7 | Geysers | Racold/CG/Havells/ Usha/Venus/ Bajaj/V GUARD |
| | **Street Lighting** | |
| 1 | LED Post Top fitting | Wipro/ Phillips/ Crompton Greaves/ Havells/ / Halonix/Bajaj/Orient Electric |
| 2 | LED Street Light fitting | Crompton-RAPTOR PRO (HL) /Havells-ENDURA SUNDOWN TG, or equivalent make /Philips/ BAJAJ/Wipro |
| 3 | LED Street light with inbuilt solar panel & controller | Wipro/ Phillips/ Crompton Greaves/ Havells/Osram/Jaquar/ Bajaj/HPL/ |
| 4 | Ornamental MS & CI Pole (Factory Finish) | Keselac Schreder-Ecopole3m ATG in GI with baseplate/Valmont/ Wipro/ Phillips/ Crompton Greaves/Bajaj/ Paruthi Engineers Pvt. Ltd./Luster/ twinkle/Bajaj/Consoul. |
| 4A | Steel tubular MS Pole & GI pipe (Medium Class) | Tata/Jindal(Hissar)/Bansal- /Surya/Swastik /Utkarsh (ISI Marked) |
| 5 | Hot Dipped Galvanized OctogonalPole (Factory Finish) | Bajaj/Crompton/Volmont/Transrail/Crompton |

| | | |
|---|---|---|
| 6 | FR Polycarbonate Junction box/ Enclosure | Hensel/ Spelsberg/ Neptune-bals/SYNTEX |
| 7 | XLPE insulated PVC Sheathed Alum. / Copper conductor Armored cable of 1.1 KV grade | RR Kabel/ KEI/ Havells/ Polycab/ Grandlay |
| | **Sub -Station Equipments** | |
| 1 | LT Panel / Meter panel board/Outdoor Feeder Pillar/ APFC Panels / Bus Ducts . | Tricolite Electrical Industries/ Control & Switchgears Pvt. Ltd./ Sterling & Wilson/ Milestone/ Adlec control systems Pvt. Ltd./AdvancePanels & Switchgears Pvt. Ltd./ Allied Engineers-Lucknow/Havells/Indoasian/Engineers&Engineers/ LS Power control/Consoul/Dynamic/NEC/SPC Electrotech/R.P.Control/Coronet(Coronet Engineers Pvt.Limited)/Amit Engineering company(on trial basis) and CPRI approved manufacturer |
| a) | LT Panel / Meter panel board/Outdoor Feeder Phillar/ APFC Panels / Bus Ducts ( PTTA Manufacturers) | SHALABH(U.K)/HPL/Expert/Zeniya/Application control/ CPRI approved manufacturer |
| 2 | Air Insulated Rising Main | C&S/ L&T/Schneider/Legrand/ Godrej/LS Power control./NEC/R.P.Control |
| 3 | Sandwich type Bus Trunking | C&S/ L&T/Schneider/Legrand/ Godrej/LS Power control./R.P.Control |
| 4 | Moulded Case Circuit Breaker(MCCB) Thermal release/ Microprocessor based(Ics=Icu=100%) | Schneider -CVS/Legrand/ ABB/Siemens |
| 5 | Power/ Aux. contactor 3/4 pole | Schneider -CVS/Legrand/ ABB/Siemens |
| 6 | Potential transformer/ Current Transformer | Automatic Electric/ Gilbert & Maxwell/ Matrix/ Precise/ L&T/ Kappa |
| 7 | LED type indicating lamp/ Push Button | Schneider Electric / L&T/ Seimens/ C&S/Vaishno |
| 8 | Over load Relays | Schneider Electric / L&T/ Seimens/ C&S/ABB/Havells |
| 9 | Conventional/ Electronic Digital Meters (A/V/PF/Hz/KW/KWH) | Conzerv/ L&T/ Secure/ AE/ C&S/HPL |
| 10 | Timer | Schneider Electric / Legrand/ Hager/ L&T/ ABB/ Seimens/ C&S |
| 11 | Fastners/ GI Clamp | Hilti/ Fisher/ Chilli/ GMGR |
| 12 | D.W. Corrugated HDPE pipe (ISI marked) | Duraline/Jain Irrigation/Avadhpoly tube/ Gemini/ISI approved |
| 13 | Transformer (oil/Dry type) | Crompton/ ABB/ Schneider/ Voltamp |
| 14 | HT panel / Ring Main unit | Crompton/ Seimens/ABB/ L&T/Schneider/LS Power control/Consoul/Coronet(Coronet EngineersPvt.Limited) |

| | | |
|---|---|---|
| 15 | HT Cable (ISI marked) | KEI/ Havells/Polycab/ Gloster. |
| 16 | HT End Termination/ Cable jointing Kit | Reychem/Denson/ Cap Seal/Safekei/ 3M |
| 17 | ACBs with Display | Schneider Electric(MasterpactNW6.0A) / Legrand(DMX3MP4)/ L&T(U-Power- OMEGA)// Seimens(3WL- ETU45B)/ C&S(Win Master2.4.1)/ |
| 18 | Rubber Mat | Jyoti/ Deep Jyoti/ Premier ( duly ISI marked) |
| 19 | Ammeter | Rishabh/ L&T/ AE/ C&S/ HPL |
| 20 | Voltmeter | Rishabh/ L&T/ AE/ C&S/ HPL |
| 21 | Fire Extinguishers( ISI marked) | Minimax/ Safex/ Lifeguard/ Kanex/ Omex/Ceasefire/ Andex/Kalpex/Atasee |
| 22 | Capacitor & Reactors/ APFC Relay | Epcos/L&T/ Ducati/ ABB/ Siemens/Schneider/Havells |
| 23 | XPLE insulated PVC sheathed Alum. / Copper conductor Armored / Unarmored cable of 1.1 KV grade | RR Kabel/ KEI/ Havells/ Polycab/ Grandlay |
| 24 | Cable Glands double compressionwith Earthing links | Baliga lighting/ Comet/ Cosmos/ Dowells/ Gripwell |
| 25 | Bimetallic Cable Lugs | Comet/ Dowells( Biller India)/Hax Brass(CopperAlloy India) / Jainson/ Action. |
| 26 | MS / GI Cable tray,Raceways | Pilco/ Slotco/Pasco/ MEM/ BEC/Steelways/Legrand/Trueleader/LS Powercontrol/R.P.Control/RMCON/AKG. |
| 27 | Programmable logic controller (PLC) | Seimens/ Allen Bradley/ L&T |
| | DG Set | |
| 1 | Diesel operated generating engine | Cummins India/ Caterpillar/ ashokLayland/KOEL/Greaves/ Volvo Penta/ Perkins |
| 2 | Alternator | Stamford/ Lerroy Sommer/ Kirlosker Electric/Caterpillar/ Crompton |
| 3 | DG set Canopy/ Enclosure & AMFpanel | As per OEM/ OEA of respective DG setmanufacturer |
| 4 | Alarm Annunciator | Advani Oralikon/ L&T/ Minilec |
| | **Fire Fighting Equipment** | |
| 1 | MS Pipe | Tata / Jindal(Hissar)/ Prakash Surya |
| 2 | GI pipe | Tata / Jindal(Hissar)/ Prakash Surya |
| 3 | Forged steel fittings/ Flanges | Johnson Industries/ VS Forge/ JK Forging/ Trueforge |
| 4 | Forged steel fittings &Flanges( For Welding joints) | VS Forge/ Rohini/ Kanwal Forge/johnson/ Trueforge |
| 5 | Pipe Hangers | chilli/ Hilti/ GMGR |

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| 6 | Gun Metal/ Brass valve(ISI marked)/( Full way Globe valve/ Non return valve) | Sant /Leader/Advance/Zoloto/ Kirloskar |
| 7 | Butterfly/ Sluice valve(ISI marked). | Audco/Sant /Leader/Advance/Zoloto/ Kirloskar |
| 8 | Check valve(ISI marked). | Audco/Sant /Leader/Advance/Zoloto/ Kirloskar |
| 9 | Foot Valve( cast iron/ Gunmetal) | Audco/Sant /Leader/Advance/Zoloto/ Kirloskar |
| 10 | Y Type Strainer | Audco/Sant /Leader/Zoloto/ Kirloskar |
| 11 | Fire / Sprinkler pump / Terrace Fire pump | Kirloskar/ KSB/ Grundfos/Wilomather&platt |
| 12 | Electric Motor | ABB/ Siemens/ kirloskar/ Grundfos/crompton/NGEF |
| 13 | Diesel Engine for Fire Pump | Cummins India/ Ashok Layland/ KOEL/Greaves |
| 14 | Couplings (Type -Type) | Lovejoy/ Fenner/ Dunlop |
| 15 | Anti Vibration Mountings | Kanwal Industries Corporation/ Dunlop/ GERB/Resistoflex |
| 16 | Pressure Switch (ISI marked) | System Sensor/Infoss/Danfoss/Switzer/Honeywell& Siemens |
| 17 | Pressure Gauge (ISI Marked) | H Guru/ Fiebig/dwyer |
| 18 | Double / Single Headed LandingValve (ISI marked) | Minimax/New Age/ Safeguard/ Lifeguard/ Padmini/Omex/Andex/Atasee/Kalpex/Padmini |
| 19 | Male Female fire Hose Coupling(SS 304) (ISI marked) | Minimax/New Age/ Safeguard/ Lifeguard/ Padmini/Omex/Andex/Atasee//Kalpex/Padmini |
| 20 | First Aid Hose Drum / Fire Hose Reels / Shut off Nozzle (Gunmetal / ABS) (ISI Marked) | Minimax/New Age/ Safeguard/ Lifeguard/ Eversafe/Omex/Andex/Atasee//Kalpex/Padmini |
| 21 | SS 304 / Gun metal Branch Pipe &Nozzle (ISI Maked) | Minimax/New Age/ Safeguard/ Lifeguard/ Omex/Andex/Atasee//Kalpex/Padmini |
| 22 | Fireman Axe | Minimax/ New Age/ Safeguard |
| 23 | Water Flow Switch (FM/UL Listed) | System Sensor/Rapid Control/Potter/Switzer |
| 24 | Rust Preventive polymeric 4mm thick tape for pipes diectly buried inground pipe protection pypkoat (A W4) Wrapping (ISI Marked) | Pypcoat/ Marphalt/ Rustech/ Safex |
| 25 | Level Controller & Indicator (water) (ISI Marked) | Auto pump/ Cirrus Engineering / Techtrol |
| 26 | Fire Brigade Inlet Connecetion (ISIMarked) | Minimax/New Age/ Safeguard/ Lifeguard/ Omex/Eversafe/Kalpex/Padmini |
| 27 | Thermoplastic pipe for first AidHose Reel (ISI Marked) | New Age/ Safeguard/ Lifeguard/ Padmini/Omex/Eversafe/Atasee/Kalpex |
| 28 | Fire Sealent | Promat/ Birla 3 M/ Hilti |

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|---|---|---|
| 29 | Over load Relays | Schneider Electric / L&T/ Seimens/ C&S/ABB/Havells |
| 30 | power/ Aux. contactor 3/4 pole | Schneider Electric / Legrand/ Hager/ L&T/ ABB/Seimens/ C&S/BCH/Havells/HPL |
| 31 | LED type indicating lamp/ Push Button | Schneider Electric / L&T/ Seimens/ C&S/ABB |
| 32 | LT jointing kit / Termination | Reychem/Denson/ Cap Seal/Safekei/ 3M |
| 33 | RRL Hose pipe (ISI Marked) | New Age/ Safeguard/ Lifeguard/ Padmini/Omex/Atasee/Kalpex |
| 34 | Dry Battery | Exide/ Amar Raja/ HBL/ Pulse/ Amco |
| 35 | Battery Charger | Statcon/ Amar Raja/ CDC/ AE/ Expofyn/ thyconIndia |
| 36 | Epoxy Paint | ICI/ Asian/Berger/Nerolac |
| 37 | Air Release Valve | Rb/ Tbs/ Cimbrio/ Zoloto |
| 38 | Analogue/ Digital Measuring Instruments (Voltmeer/ Ammeter/Enrgy meter/ KW/ PE/ Multi Function meter) | AE/ Rishabh/ L&T/ C&S/ Conzerve/HPL |
| 39 | Aluminium / Copper power cable /Control cable (Armoured / Unarmoured) | Havells/RR Kabel/Polycab/Gloster/KEI |
| 40 | Cable glands & Lugs | Dowells/Jainsons//Action/Wago/Gripwell/Cornet/Polycab |
| 41 | Solenoid Valve / Spray Nozzle | Perker/ HD/ Tyco/ Emersion |
| 42 | Sprinkler | HD/ Tyco/Reliable/ Wormald/Viking/Atasee |
| 43 | Sprinkler Heads/ Water Curtain Nozzle | Tyco/ Viking/ Omex/ Newage/ Lifeguard |
| 44 | Steel Flexible Extension | Omex/ Newage/ Tyco/ Lifeguard |
| 45 | Vibration Eliminator | Resistoflex/ D Waren /Kanwal |
| 46 | Welding Electrodes | Advani/ ESAB/ L&T |
| 47 | Deluge Valve | Tyco/ Viking/ HD |
| 48 | Cast Iron Valve | Kirloskar/ Kartar/ Kalpana/ Joloto/ Audco/ Advance |
| 49 | Fire extinguisher(Portable/Wheeled) | Atasee/Kalpex |
| 50 | Rubber hose for water suction and Discharge (ISI Marked) | Padmini, Minimax/ New Age / Ceasefire/ Padmini /Tyco/Superex |
| 51 | Rubber hose for welding purpose (ISI Marked) | |
| 52 | General Purpose Rubber Water Hose (ISI Marked) | |
| 53 | Controlled percolating Fire FightingHose (ISI Marked) | |
| | **Fire Alarm Syatem** | |

| | | |
|---|---|---|
| 1 | Addressable Manual call box | Notifier/ Johnson control/ Honeywell/ Siemens/Bosch/ASES(Agni Suraksha) |
| 2 | Addressable type fault isolator | Johnson control/ Honeywell/ Siemens/ Bosch/ EST(Edward) |
| 3 | Strobe lights cum hooter | Notifier/ Johnson control/ Honeywell/ Siemens/Bosch/ASES(Agni Suraksha) |
| 4 | Addressable control modules forhooter | Notifier/ Johnson control/ Honeywell/ Siemens/Bosch/ASES(Agni Suraksha) |
| 5 | Addressable monitor module forflow switch | Notifier/ Johnson control/ Honeywell/ Siemens/Bosch/ASES(Agni Suraksha) |
| 6 | Addressable type fire alarm controlpanel | Notifier/ Johnson control/ Honeywell/ Siemens/Bosch/ASES(Agni Suraksha) |
| 7 | Network repeater panel | Notifier/ Johnson control/ Honeywell/ Siemens/Bosch/ASES(Agni Suraksha) |
| 8 | Addressable multi sensing fire delector (Combination of optical type smoke detector and ROR type heat detector) | Notifier/ Johnson control/ Honeywell/ Siemens/Bosch/ASES(Agni Suraksha) |
| 9 | Cat-6 cable, Wire & Fiber optic cable | Amp/ Avaya/Beldon/Legrand/Molex/ Schneider./Anchor |
| 10 | Response Indicator | Agni devices/ Apollo/ System sensor/ Electroquip |
| 11 | Addressable/conventional PASystem | Notifier/ Johnson control/ Honeywell/ Siemens/Bosch/ASES(Agni Suraksha) |
| 12 | Fire supression system | Notifier/ Johnson control/ Honeywell/ Siemens/Bosch/ASES(Agni Suraksha)/Kalpex |
| | **Water supply pump sets** | |
| 1 | Mono submersiblepump set | KSB/ CG/ Kirloskar/ Grundfos |
| 2 | Submersible pump set | KSB/ CG/ Kirloskar/ Grundfos |
| 3 | GI pipe | Tata/ Jindal Hissar/ Prakash Surya |
| 4 | Sluice Valve / Check Valve / Butterrfly Valve / Non Return Valve | Kirloskar/ sant/ Leader/ Joloto/ Audco/ Advance |
| 5 | Submersible Cable | RR Kabel/ KEI/ Havells/Polycab/ Grandlay/ Bonton |
| | **EPBAX System** | |
| 1 | EPABX Syatem | Siemens/ Cisco/ Alcatel/ Coral/ Panasonic/ Avaya |
| 2 | Master console phone | Siemens/ Cisco/ Alcatel/ Coral/ Panasonic/ Avaya |
| 3 | Telephone instrument | Beetal/ Tata/ Panasonic/Coral |
| 4 | 18 SWG Sheet (Crone box) | Topaz/ coral/ crown |
| 5 | Constant Voltage transformer | Topaz/ Bhurji/ Delta/ Servokon |
| 6 | Unarmoured telephone wire | Delton/Finolex/ RR Kabel/ Havells/HPL |
| 7 | Cat-6 cable, Wires & Fiber opticcable | Amp/ Avaya/Beldon/Legrand/Molex/ Schneider./NEC/KVVS/HPL |
| | **Air Conditioner & water purifier** | |

| | | |
|---|---|---|
| 1 | Split air conditioner (premier range) | Mitshubshi Electric/ Mitshubshi Heavy Industries/Toshiba/ O general/ Daikin/ Hitachi |
| 2 | Split air conditioner (Normal range) | Voltas/ Carrier/ Blue star/ LG/ Panasonic |
| 3 | Window Type Air Conditioner (Premier Range) | O General/Mitshubshi/Hitachi |
| 4 | Window Type Air Conditioner (Normal Range) | Voltas/ Blue star/ LG/ Carrier |
| 5 | Voltage Stablizer | V Guard/ Blue bird/ voltas/ Servokon/ Logicstate |
| 6 | RO/ Water Purifier | Kent/ Ion Exchange/ Aquaguard/ Venza/Atsin |
| 7 | Drinking water cooler | Voltas/ Blue star/ Usha/Atsin |
| 8 | Water cooler with inbuilt RO | Ion Exchange/ Aquaguard/ Venza/Atsin |
| | | |
| | **Solar Water Heating system** | |
| 1 | Solar Water Heating system | Inter solar/ Racold/ Electrotherm/ Rashmi /V-Guard |
| | **CCTV System** | |
| 1 | IP Based camera (Dome / PTZ / Bullet / C-Mount type) | Bosch/ Pelco/ Axis/Avizolon/ Mobotix/Heinrich/IDIS |
| 2 | Conventional Camera (Dome / PTZ / Bullet / C-mount type | Bosch/ Pelco/ Axis/Avizolon/ Mobotix/Heinrich/IDIS |
| 3 | DVR / NVR / Server | Bosch/ Pelco/ Axis/Avizolon/ Mobotix/IDIS |
| 4 | Switch | Cisco/ Zyxel/ Zuniper/ Brocade |
| 5 | Data Network Cable | Amp/ Avaya/Beldon/Legrand/Molex/ Schneider/NEC. |
| 6 | Mounting / Floor Rack | Netrack/ Beldon/ Comrack/ valrack |
| 7 | Media Convertor | Cisco/ Zyxel/ Zuniper/ Brocade |
| 8 | Fire wall | Zyxel/ Fourdinet/ Cisco |
| 9 | Connector | D-Link/ Molex/ Amp/ Beldon |
| | **Uninterrupted Power Supply (UPS)** | |
| 1 | Online / off line UPS | Numeric/ Eaton/ APC/ Vertiv/ Mitsubshi/ Toshiba |
| | | |
| | **Solar Power Generation System** | |
| 1 | Solar Power Generation System | REIL/ BEL/ CEL/ REC/ SOLON/ VIKRAM/ ABB/ MOSER BEAR/ WIPRO/LUMINUS/MNRE APPD |
| 2 | Junction Box | VNT/ SUN GARNER/ OEM of SPV Modules |
| 3 | SPV Inverter | Sungrow/ Delta/ SMA/ ABB/MNRE APPD |
| 4 | Module Mounting Structure | As per MNRE/ Manufacturer's standard |
| 5 | XLPE Alumunium / Copper cable | F Havells/RR Kabel/Polycab/Gloster/KEI |
| 6 | Solar cable XLPO Insulated (DC) | RR Kable / Polycab/ Havells/ Finolex/ Lapp/ Paragon(Electron)/Bonton/Svarn//NEC/KVVS/ HPL |
| | **HVAC** | |

| | | |
|---|---|---|
| 1 | Split Air conditioner | Mitshubshi Electric/Mitshubshi Heavy Industries/ OGeneral/Daikin/Hitachi, Toshiba/LG/ Daikin |
| 2 | Window type Air Conditioner | Mitshubshi Electric/ O General//Hitachi |
| | | Voltas/ blue star/LG/ Panasonic/Carrier/ Daikin |
| 3 | Voltage Stabilizer | V Guard / Blue Bird / Voltas |
| | | Servokon/Logicstate |
| 4 | VRV A.C (Outdoor/Indoor/Remote Control/Y Joint) | Daikin / Hitachi/ Mitshubishi Electric/O General/LG/Toshiba |
| 5 | Copper Refrigerant Piping | Rajco / Mandev / Totaline/Kwality Tubes/Shree Shyam |
| 6 | Nitrile Rubber Insulation (For Duct / Drain Pipe / Refrigerant PipeInsulation) | Armaflex/Aeroflex/K Flex/Eurobatex/Superlon |
| 7 | UPVC drain pipe | Supreme/Finolex/Astral/Ashirvad |
| 8 | Multicore Copper flexible Cable | Finolex/Polycab/RR Kabel/KEI |
| 9 | Two way pressure independentbalancing & control valve | Siemens/Danfoss/Belimo |
| 10 | Adhesive for insulation | Pidilite/Superlon/Armacell |
| 11 | GI/GSS Sheet for ducting | Tata/SAIL/Jindal Hissar/ Asawa insulation |
| 12 | Auto air vent | Zoloto/Rapid cool/Emerald/Cimberio |
| 13 | Air Handling Unit with coil | Zeco/Edgetech/Waves/Flaktwood/VTS/Systemair |
| 14 | Air Washer | Zeco/Edgetech/Waves/Flaktwood/ Humidin/Symphony |
| 15 | Axial flow/Centrifugal Fan | Kruger/Greenheck/Wolter/Nicotra/Systemair/ Comefri/ Air flow |
| 16 | Balancing Valve | Advance/L&T/Honeywell/Danfoss/Belimo |
| 17 | Dash Fasteners | Canon / Fischer /Hilti |
| 18 | Variable Pumping System | Grundfos/Armstrong/Xylem ITT/wilo/Kirloskar |
| 19 | Chilled/Hot water circulation and Condenser water pump | Grundfos/Armstrong/Xylem ITT/wilo/Kirloskar |
| 20 | Electric Motor | ABB / Siemens / Kirloskar / Grundfos / NGEF / Crompton Greaves |
| 21 | CPRX Compound/Tar Felt | Shalimar Tar Product/Asian/Pidilite |
| **Miscellaneous Item** | | |
| 1 | High mast pole | Bajaj/Vipin ST Poles/CG |
| 2 | GI/Copper Strip and Earthing material | Bharti/Indiana/Slotco |
| 3 | Chemical Earthing | JMV LPS Ltd./PragatiElectrocom/Ecosafe/Duval Messien(Terec) |
| 4 | Occupancy Sensor/Lighting Control System | Philips/Schneider/Legrand/Siemens |
| 5 | Other Item from make list | Approve by Engineer-in-Charge |

Note: 1. Only applicable items as per requirement of the tender.

2. Department reserves the right to reject any material used without Prior

approval from Engineer-in-Charge. No payment shall be made for such rejected material.

3. Public Procurement (Preference to Make in India) order 2017 issued by competent authority of Government of India shall be implemented during selection of materials and execution of work accordingly. Any Manufacturer if not included in the approved make list, may be considered by the Engineer-in- Charge provided such manufacturers comply the above policy along with their product meeting the specifications and other details of the required item.

4. The decision of the Engg-In-Charge in regard to use of any particular brand out of above mentioned brands and equivalent or other make shall be final and binding to the contractor.

5. For Each item to be used at site ,contractor shall submit model number for each item of minimum three different make for approval by Engg-In-Charge.

**DC(Elect)/EE(Elect)**

PROFORMA FOR QUOTING THE RATES

| | | | | | |
|---|---|---|---|---|---|
| NIT No. | | | | | |
| Name of work : **Renovation and Upgradation of Toilet Blocks of ADM Block at Ftr HQ BSF Jalandhar (Pb)** | | | | | |
| Estimated Cost put to tender | | **₹ 15,92,600/- only** (Civil work **₹ 13,38,560/-** + Electrical work **₹ 2,54,040/-**) | | | |
| Name of the Contractor | | | | | |
| Sr. No | Name of component | Estimated Cost | Percentage above or below the estimated cost | % in Figures | Total in cost |
| 1. | Civil Work | | | | |
| 2. | Electrical work | | | | |
| | Total | | | | |

1. Only one of the options is to be filled. More than one option shall be rejected.
2. Rate filled in any form shall be considered only in % age.
3. Rate filled at any other place in the document shall not be considered
4. No condition shall be accepted.

## Schedule of Quantity for Civil Work

Name of work : **Renovation and Upgradation of Toilet Blocks of ADM Block at Ftr HQ BSF Jalandhar (Pb)**

| S.No. | Description of Items | Qty | Unit | Rate | Amount |
|---|---|---|---|---|---|
| 1 | Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.For thickness of tiles 10 mm to 25 mm | 208.32 | sqm | 71.42 | 14878.21 |
| 2 | Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix) | 3.84 | cum | 2368.53 | 9095.16 |
| 3 | Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :Of area 3 sq. metres and below | 12.00 | Each | 139.63 | 1675.56 |
| 4 | Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead. | 6.48 | sqm | 259.26 | 1680.00 |
| 5 | Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge. | 12.00 | Each | 130.48 | 1565.76 |
| 6 | Dismantling of flushing cistern of all types (C.I./PVC/Vitreous China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead. | 12.00 | Each | 109.02 | 1308.24 |
| 7 | Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead :100 mm dia pipe | 12.00 | mtr | 444.32 | 5331.84 |
| 8 | Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead. | 135.30 | sqm | 53.17 | 7193.90 |
| 9 | Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge. | 1.22 | cum | 3455.37 | 4215.55 |
| 10 | Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.In cement mortar | 2.82 | cum | 2004.57 | 5652.89 |
| 11 | Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete | 208.50 | sqm | 19.22 | 4007.37 |
| 12 | Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge : 15 mm to 40 mm nominal bore | 60.00 | mtr | 145.76 | 8745.60 |
| 13 | Disconnecting damaged overhead/terrace PVC water storage tank of any size from water supply line and removing from the terrace including shifting at ground level as per direction of Engineer-in- charge. | 6.00 | Each | 422.04 | 2532.24 |

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| 14 | Cleaning and de-silting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge. | 5.00 | Each | 105.38 | 526.90 |
| 15 | Cleaning of chocked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial de-silting of manholes and de-chocking of sewer lines. De-chocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150mm dia upto 300mm dia for all depth. | 6.23 | mtr | 331.55 | 2064.23 |
| 16 | Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In- Charge. | 41.00 | sqm | 652.83 | 26766.03 |
| 17 | Dismantling of old S.W. pipes including breaking of joints and bed concrete stacking of useful materials near the site within 50 m lead and disposal of unserviceable materials into municipal dumps : 100 mm diameter | 14.00 | mtr | 86.60 | 1212.40 |
| 18 | Dismantling of old S.W. pipes including breaking of joints and bed concrete stacking of useful materials near the site within 50 m lead and disposal of unserviceable materials into municipal dumps : 150 mm diameter | 12.00 | mtr | 95.79 | 1149.48 |
| 19 | Dismantling of manhole including R.C.C. top slab, C.I. cover with frame, including stacking of useful materials near the site and disposal of unserviceable materials within 50 m lead as per direction of Engineer-in-Charge : Rectangular manhole 90x80 cm and 45 cm deep | 2 | Each | 2472.25 | 4944.50 |
| 20 | Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : All kinds of soil Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia | 20.00 | mtr | 342.64 | 6852.80 |
| 21 | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil. | 15.00 | cum | 253.27 | 3799.05 |
| 22 | Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete. | 4.36 | cum | 2066.41 | 9009.55 |
| 23 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from | 7.62 | cum | 6342.60 | 48330.61 |

| | | | | | |
|---|---|---|---|---|---|
| | natural sources) | | | | |
| 24 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand(zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources) | 7.30 | cum | 7665.78 | 55960.19 |
| 25 | Making plinth protection 50mm thick of cement concrete 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) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation leveling & dressing & finishing the top smooth. | 27.20 | sqm | 729.07 | 19830.70 |
| 26 | Centering and shuttering including strutting, propping etc. and removal of form for : Foundations, footings, bases of columns, etc. for mass concrete | 60.00 | sqm | 819.75 | 49185.00 |
| 27 | 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. | 159.24 | sqm | 1233.72 | 196457.57 |
| 28 | Providing and laying rectified Glazed Ceramic floor tiles of size 300x300mm or more (thickness to be specified by the manufacturer), of 1stquality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4(1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. | 58.14 | sqm | 1294.09 | 75238.39 |
| 29 | 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. | 28.50 | mtr | 479.40 | 13662.90 |

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| 30 | 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 30mm 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 75 mm 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 (5 mm 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.30 mm thick plain PVC door shutters. | 9.00 | sqm | 3097.01 | 27873.09 |
| 31 | 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 :250x16 mm | 6.00 | Each | 295.06 | 1770.36 |
| 32 | 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 : 200x10 mm | 6.00 | Each | 97.01 | 582.06 |
| 33 | 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 : 100 mm | 12.00 | Each | 57.94 | 695.28 |
| 34 | Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15 x 3 mm and nuts & bolts complete. Galvanised M.S. Wire gauze with 0.63mm dia wire and 1.4 mm aperture on both sides. | 2.31 | sqm | 821.89 | 1898.57 |
| 35 | Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows all complete with : 4.0 mm thick glass panes. | 2.31 | sqm | 1035.90 | 2392.93 |
| 36 | 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. | | | 0.00 | 0.00 |
| | Single tee with door | | | 0.00 | 0.00 |
| | 110x110x110 mm | 10.00 | Each | 227.83 | 2278.30 |
| | Single tee without door | | | 0.00 | 0.00 |
| | 110x110x110 mm | 10.00 | Each | 215.37 | 2153.70 |

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| | Bend 87.5° | | | 0.00 | 0.00 |
| | 110 mm bend | 10.00 | Each | 146.29 | 1462.90 |
| 37 | 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. 110 mm | 12.00 | Each | 361.27 | 4335.24 |
| 38 | 15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 fine sand) | 169.62 | sqm | 372.66 | 63210.59 |
| 39 | 6 mm cement plaster 1:3 (1 cement: 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams. | 71.25 | sqm | 385.94 | 27498.23 |
| 40 | 6 mm cement plaster of mix : 1:3 (1 cement: 3 fine sand) | 85.68 | sqm | 292.34 | 25047.69 |
| 41 | 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. | 169.62 | sqm | 151.84 | 25755.10 |
| 42 | Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer, of required shade and colour all complete : New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre | 140.26 | sqm | 180.64 | 25336.57 |
| 43 | Finishing walls with Acrylic Smooth exterior paint of required shade :Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface | 60.30 | sqm | 117.49 | 7084.65 |
| 44 | Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:wo or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture. | 3.24 | sqm | 220.14 | 713.25 |
| 45 | Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :One or more coats on old work. One or more coats on old work. | 2.70 | sqm | 100.02 | 270.05 |
| 46 | 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:White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests | 6.00 | Each | 6584.68 | 39508.08 |
| 47 | Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge. | 6.00 | Each | 17721.15 | 106326.90 |

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| 48 | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap | 6.00 | Each | 1828.46 | 10970.76 |
| 49 | Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings. | 6.00 | Each | 1637.90 | 9827.40 |
| 50 | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.Flexible pipe 32 mm dia | 6.00 | Each | 116.32 | 697.92 |
| 51 | Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete. | 6.00 | Each | 1564.54 | 9387.24 |
| 52 | 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.450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms | 6.00 | Each | 689.81 | 4138.86 |
| 53 | Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors : 100 mm inlet and 100 mm outlet Sand cast iron S&S as per IS: 3989. | 6.00 | Each | 1942.59 | 11655.54 |
| 54 | Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms. | 6.00 | Each | 163.80 | 982.80 |
| 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. 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. | 6.00 | Each | 689.81 | 4138.86 |
| 56 | Providing and fixing PTMT shelf 440 mm long, 124 mm width and 36 mm height of approved quality and colour, weighing not less than 300 gms. | 6.00 | Each | 693.94 | 4163.64 |
| 57 | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. : Internal work - Exposed on wall | | | 0.00 | 0.00 |
| | 20 mm nominal outer dia. Pipes. | 18.00 | mtr | 325.96 | 5867.28 |
| | 25 mm nominal outer dia .Pipes. | 18.00 | mtr | 390.71 | 7032.78 |
| | 40 mm nominal outer dia. Pipes. | 18.00 | mtr | 683.97 | 12311.46 |

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| 58 | 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. | | | 0.00 | 0.00 |
| | 20 mm nominal outer dia .Pipes. | 48.00 | mtr | 523.08 | 25107.84 |
| | 25 mm nominal outer dia .Pipes. | 30.00 | mtr | 610.31 | 18309.30 |
| 59 | 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. | | | 0.00 | 0.00 |
| | 15 mm dia. nominal bore | 18.00 | mtr | 356.51 | 6417.18 |
| | 20 mm dia. nominal bore | 18.00 | mtr | 425.49 | 7658.82 |
| | 25 mm dia. nominal bore | 24.00 | mtr | 536.80 | 12883.20 |
| 60 | Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete : 25 to 40 mm nominal bore | 15.00 | Each | 887.28 | 13309.20 |
| 61 | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : | | | 0.00 | 0.00 |
| | 25 mm nominal bore | 5.00 | Each | 605.60 | 3028.00 |
| | 40 mm nominal bore | 4.00 | Each | 803.80 | 3215.20 |
| 62 | Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :20 mm nominal bore | 6.00 | Each | 450.01 | 2700.06 |
| 63 | Providing and fixing uplasticised PVC connection pipe with brass unions :30 cm length 15 mm nominal bore | 30.00 | Each | 82.71 | 2481.30 |
| 64 | Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size ), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design: | 2.00 | Each | 10569.12 | 21138.24 |
| 65 | Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) | | | 0.00 | 0.00 |
| | 25 mm nominal bore | 6.00 | Each | 427.39 | 2564.34 |
| | 40 mm nominal bore | 6.00 | Each | 614.25 | 3685.50 |
| 66 | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. | 3000.00 | ltrs | 10.70 | 32100.00 |

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| 67 | Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :15 mm nominal bore | 6.00 | Each | 493.12 | 2958.72 |
| 68 | Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.15 mm nominal bore | 6.00 | Each | 798.54 | 4791.24 |
| 69 | Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15 mm nominal bore. | 12.00 | Each | 652.35 | 7828.20 |
| 70 | Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:893 .15mm nominal bore | 12.00 | Each | 558.79 | 6705.48 |
| 71 | Providing and fixing PTMT grating of approved quality and colour. Circular type. 100 mm nominal dia. | 12.00 | Each | 36.58 | 438.96 |
| 72 | Making hole up to 20x20 cm and embedding pipes up to 150 mm diameter in masonry and filling with cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)including disposal of malba. | 30.00 | mtr | 203.55 | 6106.50 |
| 73 | Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design : | | | | |
| | 100 mm diameter S.W. pipe | 36.00 | mtr | 938.70 | 33793.20 |
| 74 | Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | 2.00 | Each | 12425. 75 | 24851.50 |
| 75 | Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved. | 50.00 | Each | 256.82 | 12841.00 |
| 76 | Providing and fixing PTMT soap Dish Holder having length of 138 mm, breadth 102 mm, height of 75 mm with concealed fitting arrangements. Weighing not less than 106 gms. | 6.00 | Each | 108.44 | 650.64 |

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| 77 | Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours.The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry. | 14.40 | sqm | 600.39 | 8645.62 |
| 78 | Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm or 340x410x265 mm sizes respectively. | 12.00 | each | 740.80 | 8889.60 |
| 79 | Providing and fixing on wall face PVC pipes having pressure 6 kg/cm2 for swerage line . 100 mm diameter of make Finolex /Kisan /Prince. | 60.00 | mtr | 458.23 | 27493.80 |
| 80 | Providing and fixing CP Hand Shower (Health Faucet) With 8mm Dia 1 Meter Long Flexible Tube And Wall Hook with necessary connection concealed fitting arrangements completed as per direction Engineer-in-charge. | 12.00 | each | 719.82 | 8637.84 |
| 81 | Providing and fixing Stainless Steel Overead shower of size 150x150 mm and shower arm 300mmto 450mm with with 15 or 20 mm inlet complete as per diection of Engineer-in-charge | 4.00 | each | 761.36 | 3045.44 |
| 82 | Dismantling and credit to Govt. By dismantling and taking away the old PVC Door shutter with frame including removal of all dismanted material from site of work its credit to contractor complete cleaning of site , dosposal of unservicable material, taking out, etc, all complete as per direction of engineer-in-charge. | 12.00 | each | -102 | -1224.00 |
| 83 | Dismantling and credit to Govt. By dismantling and taking away the GI pipe 15 mm to 40 mm, all complete as per direction of engineer-in-charge. (dismantled pipe and fitting shall be the property of the contractor). | 136.80 | kg | -5.5 | -752.40 |
| 84 | Dismantling and credit to Govt. By dismantling and taking away the low level cistern, all complete as per direction of engineer-in-charge. (dismantled cistern shall be the property of the contractor). | 12.00 | each | -75 | -900.00 |
| 85 | Dismantling and credit to Govt. By dismantling and taking away the Old PVC water storage tank including removal of all dismanted material from site of work its credit to contractor complete cleaning of site , dosposal of unservicable material, taking out, etc, all complete as per direction of engineer-in-charge. | 6.00 | each | -180 | -1080.00 |
| | | | | | 1338560.22 |
| | | | | say Rs | 13,38,560/- |

**Dy Commandant (Works)**
**Ftr HQ BSF Punjab**

## Schedule Of Quantity For Electrical Work

**NAME OF WORK:- Renovation and upgradtion of toilet block of ADM Block at FTR HQ BSF Jalandhar(PB) (SH: EI & FANS)**

| S/N | Description of items | Qty | Unit | Rate | Amount |
|---|---|---|---|---|---|
| **PART (A)-INTRNAL ELECTRIFICATION** | | | | | |
| 1 | Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq.mm FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel/PVC conduit including dismantling as required Group C **(Including making surface good as orginal with cement plaster putty & paint and dismantling the existing wiring, conduit pipe etc as required.)** | 30 | Point | 1064 | 31920.00 |
| 2 | 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 medium class PVC conduit, with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc. as required. Group C **(Including making surface good as orginal with cement plaster putty & paint and dismantling the existing wiring, conduit pipe etc as required.)** | 12 | Point | 1704 | 20448.00 |
| 3 | Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required. **(Including making surface good as orginal with cement plaster putty & paint and dismantling the existing wiring, conduit pipe etc as required.)** | 60 | Meter | 373 | 22380.00 |
| 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 medium class PVC conduit as required. Havells / Polycab / Finolex / RR Kabel) **(Including making surface good as orginal with cement plaster putty & paint and dismantling the existing wiring, conduit pipe etc as required.)** | 0 | | | 0.00 |
| 4.1 | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire | 90 | Mtr | 267 | 24030.00 |
| 4.2 | 2 X 4 sqmm + 1 x 4 sq. mm earth wire | 75 | Mtr | 373 | 27975.00 |

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| 5 | Supplying and drawing 3x1.5 of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. **(Including making surface good as orginal with cement plaster putty & paint and dismantlin**g the existing wiring, **conduit pipe etc as required.)** | 90 | metre | 104 | 9360.00 |
| 6 | Supplying and drawing 3x4 of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. **(Including making surface good as orginal with cement plaster putty & paint and dismantling the existing wiring, conduit pipe etc as required.)** | 90 | metre | 160 | 14400.00 |
| 7 | Supplying and fixing following piano type switch/socket on the existing switch box/cover including connections and dismantling the existing etc as reqd. | 0 | | | 0.00 |
| | a) 5/6 amp switch | 36 | each | 63 | 2268.00 |
| | b) 3 pin 5/6 A socket outlet | 6 | each | 75 | 450.00 |
| 8 | Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator). **(4+12) WAY (Including making surface good as orginal with cement plaster putty & paint and dismantling the existing wiring, conduit pipe etc as required.)** | 6 | each | 4377 | 26262.00 |
| 9 | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. **Three pole** | 3 | each | 1070 | 3210.00 |
| 10 | Supplying and fixing 63 A rating, TP , 415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. | 6 | each | 2950 | 17700.00 |
| 11 | Supplying and fixing Single pole 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. **Single pole** | 27 | Each | 256 | 6912.00 |

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| 12 | Providing fixing and installation of 200 amp aluminium BUs bar including connection etc on wall and finishing with cement plaster paint etc as required. **(Including making surface good as orginal with cement plaster putty & paint and dismantling the existing wiring, conduit pipe etc as required.)** | 3 | each | 7500 | 22500.00 |
| 18 | Supplying, installation, testing and commossioning of 20 watt LED batten luminaire in polycarbonate housing with minimum light output 100 lumen/watt complete with all accessories, electronic driver, diffuser as required. | 9 | Each | 280 | 2520.00 |
| 19 | Supplying, installation, testing and commossioning of **Mirrior light** 9/10 watt LED batten luminaire in polycarbonate housing with minimum light output 100 lumen/watt complete with all accessories, electronic driver, diffuser, as required. | 9 | Each | 365 | 3285.00 |
| 21 | Installation, Testing and Commissioning of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. upto 450mm required. | 12 | Each | 556 | 6672.00 |
| 22 | Installation, Testing and Commissioning of pre-wired, fluorescent fitting / compact fluorescent/ LED fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS/HFFR PVC insulated, copper conductor, single core cable and earthing etc. as required. | 12 | Each | 259 | 3108.00 |
| 15 | Providing and fixing 12 mm wooden plywood for fixing of exhaust size on wall including cutting sutable size hole and fixing the sheet on wall with suitabl size nut bolts etc as required. | 48 | sqft | 180 | 8640.00 |
| | | | | **TOTAL** | 254040.00 |

**Dy Commandant (Elect)**
**Ftr HQ BSF PB**

Signature Not Verified
Digitally signed by R HARIKRISHNAN
Date: 2026.05.13 13:26:36 IST
Location: eProcure-EPROC