

MILITARY ENGINEER SERVICES

NAME OF WORK:- PROVN OF AC WIRING FOR AC AT NP-88, NP-87 BLDG AND REPLACEMENT OF SUBMAIN WIRING WITH COPPER WIRING AT AF STN TEZPUR

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DRAWINGS: _____ SHEETS

TOTAL: _____ PAGES

SIGNATURE OF CONTRACTOR**FOR ACCEPTING OFFICER**

DATED: _____

Tele/Fax: 03712-258113

Military Engineer Services
Garrison Engineer (AF) Tezpur
Post: Salonibari, Dist.: Sonitpur
PIN - 784 104 (Assam)

No.:8145/ /E8

Apr 2026

Shri/M/S _____

PROVN OF AC WIRING FOR AC AT NP-88, NP-87 BLDG AND REPLACEMENT OF SUBMAIN WIRING WITH COPPER WIRING AT AF STN TEZPUR.

Dear Sir(s),

1. Tender documents in respect of above work are uploaded on the site www.defproc.gov.in. The tender is on single stage two cover e-tendering system. The contents of Cover I & Cover II are specified in NOTICE OF TENDER.
2. Bids will be received online by ACCEPTING OFFICER upto the date of and time mentioned in the NOTICE INVITING TENDER (NIT). No tender/bid will be received in physical form and any tender/bid received in such manner will be treated as non-bonafide tender/bid.
3. Bid will be opened on due date and time fixed for opening in the presence of tenders / bidders or their authorized representative, who have uploaded their quotation bid and who wish to be present at the time of opening the bids.
4. Your attention is also drawn to instruction on filling and submission of tender attached herewith. You may forward your points on tender documents and/or depute your technical representative for discussion on tender/drawings and to clarify doubts, if any, on or before the seek clarification end date (Refer critical dates). You are requested not to write piece meal points and forward your points duly consolidated before due date viz. the seek clarification end date (Refer critical dates).
5. Unenlisted contractors are required to submit the scanned copies (in pdf file) of documents required as per eligibility criteria mentioned in instructions for filling the tender documents and Appendix 'A' to NIT alongwith EARNEST MONEY DEPOSIT (EMD) and tender fee on e-procurement portal and submit the physical documents in the office of **Garrison Engineer AF Tezpur** within time limit specified in NIT. Inadequacy/deficiency of documents shall make the bid liable for rejection resulting in disqualification for opening of finance bid.
6. (a) Contractor having not executed standing security bond and standing security deposit in any MES formation shall upload scanned copy of EARNEST MONEY DEPOSIT (EMD) mentioned in notice of tender and shall ensure receipt of hard copy of EMD in the office of tender issuing authority before date & time fixed for this purpose. In case of failure to abide by any of these two requirements, the finance bid will not be opened.

(b) Within 28 days of receipt of the Letter of Acceptance, the successful contractor shall deliver to the Accepting Officer a Performance Security in any of the forms given below for an amount equivalent to 5% of contract sum (See Conditions 19 of GCC (IAFW-2249).
 - (i) A Bank Guarantee in the prescribed form.
 - (ii) Government Securities, FDR or any other Government Instruments stipulated by the Accepting Officer.

7. Enlisted contractors of MES shall submit the scanned copies (pdf file) of enlistment letter, tender fee and such other documents as mentioned in Appx 'A' to NIT on e-procurement portal and submit physical documents in the office of **Garrison Engineer AF Tezpur** before date & time fixed for this purpose.

8. The contractor must ensure that the tender/bid on the proper form is uploaded in time as the Accepting Officer will take no cognizance of any quotations/offer received in any other electronic or physical form like email/fax/by hand/through post from tenderer/bidder even if they are received in time.

9. In view of delays due to system failure or other communication related failures, it is suggested that the tender/bid be uploaded, if necessary, sufficiently in advance of the last due date and time fixed.

10. General Conditions of Contractors (IAFW-2249) (1989 Print) and errata and amendments thereto, Schedule of minimum fair wages and MES SSR (Part-Part-II and I) are not enclosed with these documents. These are available for perusal in the Office of **Garrison Engineer AF Tezpur**.

11. ANY TENDERER, WHICH PROPOSES ALTERATIONS TO ANY OF THE CONDITION, SPECIFICATIONS LAID DOWN IN THE TENDER DOCUMENTS OR ANY NEW CONDITION, WHATSOEVER, IS LIABLE TO BE REJECTED.

12. (a) Contractor having not executed standing security bond and standing security deposit in any MES formation upload scanned copy of EARNEST MONEY DEPOSIT (EMD) mentioned in notice of Tender shall ensure receipt of hard copy of EMD in the office of tender issuing authority before date & time fixed for this purpose. In case of failure to abide by any of these two requirements, the finance bid will not be opened.

(b) Within 28 days of receipt of the Letter of Acceptance, the successful contractor shall deliver to the Accepting Officer a Performance Security in any of the forms given below for an amount equivalent to 5% of contract sum (See Conditions 19 of GCC (IAFW-2249).

(i) A Bank Guarantee in the prescribed form.

(ii) Government Securities, FDR or any other Government Instruments stipulated by the Accepting Officer.

(c) Any grievances concerning this contract agreement on which contractor is not satisfied with decision of Accepting Officer shall be referred by him only to the Next Higher Engineer Authority (NHEA). The contractor shall under no circumstances communicate with any authority other than NHEA, unless he has exhausted the options to represent to all Engineer authorities upto NHEA. While representing his case to authorities above NHEA, copies of correspondences exchanged with all authorities shall be enclosed clearly bringing out his grievances on them. Any breach of this stipulation shall be treated as default on the part of the contractor and his grievance will not be entertained. In addition, he shall be liable for disciplinary action as deemed fit by the Registering Authority.

(d) Any complaint against the contractor received from a third party like suppliers of contractor, other contractors, his engineer, labour etc shall be referred to him by the GE. The contractor will be required to obtain settlement of the complaints from the originator and/or concerned authority and submit settlement letter to GE within 15 Days of receipt of referral from GE. Any failure in this regard will invite disciplinary action against the contractor by the Registering Authority.

Encls :- (As above)

**AGE (CONTRACTS)
FOR ACCEPTING OFFICER**

SIGNATURE OF CONTRACTOR

DATED: _____

INSTRUCTIONS ON FILLING AND SUBMISSION OF TENDER**1. EARNEST MONEY DEPOSIT (EMD)**

Contractor(s) who are not enlisted with MES/who are enlisted but have not executed the Standing Security Bond shall submit Earnest Money Deposit as detailed in Notice of Tender in one of the following forms, alongwith their tender/bid:-

- (a) Deposit at Call Receipt from a Scheduled Bank in favour of **Garrison Engineer (AF) Tezpur, payable at Tezpur.**
- (b) Receipted Treasury Challan, the amount being credited to the Revenue Deposit of **Garrison Engineer (AF) Tezpur.**

It is advisable that Earnest Money is deposited in the form of deposit call receipt from an approved Schedule Bank for easy refund. In case the tenderer/bidder wants to lodge EARNEST MONEY DEPOSIT in any other form allowed by MES, a confirmation about its acceptability will be obtained from the Accepting Officer in advance of the bid submission end date and time. Earnest Money Deposit shall be submitted in the name of **Garrison Engineer (AF) Tezpur.**

NOTES : Earnest Money Deposit (EMD) in the form of Demand Draft/Call deposit etc. will not be accepted NON -SUBMISSION OF EARNEST MONEY DEPOSIT (EMD) (scanned copy alongwith Technical Bid & hard copy before the date & time fixed for opening of BOQ) WILL RENDER THE BID DISQUALIFIED FOR OPENING OF COVER II (FINANCE BID)

2. PERFORMANCE SECURITY

Within 28 days of receipt of the Letter of Acceptance, the successful contractor shall deliver to the Accepting Officer a Performance Security in any of the forms given below for an amount equivalent to 5% of contract sum (See Conditions 19 of GCC (IAFW-2249).

- (i) A Bank Guarantee in the prescribed form.
- (ii) Government Securities, FDR or any other Government Instruments stipulated by the Accepting Officer.

3. CONTRACTORS ENLISTED WITH CHIEF ENGINEER EASTERN COMMAND AND WHO HAVE EXECUTED STANDING SECURITY BOND AND DEPOSITED STANDING SECURITY DEPOSIT BUT OF LOWER CLASS.

In case the tender/bid is accepted, the amount of Performance Security will be for an amount equivalent to 5% of contract sum. The amount is required to be lodged within 28 (Twenty Eight) days of the receipt by the contractor of notification of acceptance of tender /bid, failing which action will be taken as per the stipulations in para 19.3 of Condition 19 of GCC (IAFW-2249).

4. CONTRACTORS ENLISTED IN MES FORMATIONS OTHER THAN CE EASTERN COMMAND.

Contractors whose names are on the approved list of any MES formation i.e. other than CE Eastern Command and who have deposited Standing Security and have executed Standing Security Bond may tender/bid without depositing Earnest Money with the bid and if the Accepting Officer decides to accept the tender/bid, such tenderers will be required to lodge Performance Security for an amount equivalent to 5% of contract sum. The amount is required to be lodged within 28 (Twenty Eight) days of the receipt by the contractor of notification of acceptance of tender/bid, failing which action will be taken as per the stipulations in para 19.3 of Condition 19 of GCC (IAFW-2249).

5. GENERAL INSTRUCTIONS FOR COMPLIANCE

5.1 The bids received only in the electronic form will be considered. All bids shall be submitted on defproc.gov.in portal. Documents should be scanned and forwarded in 'pdf' form and 'xls' form as indicated.

5.2 Bids shall be uploaded on defproc.gov.in, portal on or before the bid closing date mentioned in the tender. No tender/bid in any other electronic or physical form like email/fax/by hand/through post will be considered.

5.3 Bid should be DIGITALLY signed using valid DSC. All pages of tender documents, corrections/alterations shall be signed/initialled by the lowest bidder after acceptance.

5.4 Drawings, if issued in physical form must be returned duly initialled by the tenderer/bidder in separate envelope indicating his name and address.

5.5 The tender shall be signed, dated and witnessed at all places provided for in the documents after acceptance, All corrections shall be initialled. The contractor shall initial every page of tender and shall sign all drawings forming part of the tender. Any tender/bid, which proposes alterations to any of the conditions whatsoever, is liable to be rejected.

5.6 In the technical bid, a scanned copy of power of Attorney in favour of the person uploading the bid using his/her DSC shall be uploaded. In case the digital signatory himself in the sole proprietor, scanned copy of an affidavit on stamp paper of appropriate value to this effect stating that he has authority to bind the firm in all matters pertaining to contract including the Arbitration Clause, shall be attached in pdf form. In case of partnership concern or a limited company, digital signatory of the bid/tender shall ensure that he is competent to bind the contractor (through partnership deed, general power of attorney or Memorandum and Articles of Association of the Company) in all the matters pertaining to the contracts with Union of India including arbitration clause. A scanned copy of the documents confirming of such authority shall be attached with the tender/bid in pdf form, if not submitted earlier. The person uploading the bid on behalf another partner(s) or on behalf of a firm or company using the DSC shall upload with the tender/bid a scanned copy (in pdf form) of Power of Attorney duly executed in his favour by such other or all of the Partner(s) or in accordance with constitution of the company. stating that he has authority to bind such other person of the firm or the Company as the case may be, in all matters pertaining to the contract including the Arbitration Clause.

5.7 Even in case of Firms or Companies which have already given Power Attorney to an individual authorizing him to sign tender in Pursuance of which bids are being uploaded by such person as a routine, fresh Power of Attorney duly executed in his favour stating specifically that the said person has authority to bind such partners of the Firm, or the Company as the case may be, including the condition relating to Arbitration Clause, should be uploaded in pdf form with the tender/id, unless such authority has already been given to him by the Firm or the Company. It shall be ensured that power of attorney shall be executed in accordance with the constitution of the company as laid down in its Memorandum & Article of Association.

5.8 Hard copies of all above documents should be sent by the contractor to the Tender issuing authority well in advance to be received before the date & time fixed for the same.

5.9 Bid (Cover 1 & 2) shall be uploaded online well in time.

5.10 The contractor shall employ Indian Nationals after verifying their antecedents and loyalty. Attention is also drawn to Special Condition referred herein after and also Conditions 24 & 25 of IAFW 2249 (General conditions of contract).

5.11 Tenderers/bidders who uploaded their priced tenders/bids and are desirous of being present at the time of opening of the tenders/bids, may do so at the appointed time.

5.12 The tenderer/bidder shall quote his rate on the BOQ file only. No alteration to the format will be accepted, else the bid will be disqualified and summarily rejected.

5.13 In case the tenderer/bidder has to revise/modify the rates quoted in the BOQ (excel sheet) he can do so only in the BOQ, through defproc.gov.in site only before the bid closing time and date.

5.14 Bidders are required to thoroughly verify before uploading their bids, for any revisions in BOQ issued by the department and are required to quote in the revised BOQ only, in case of revision of BOQ. Uploading of quotation in pre-revised BOQ will be considered as a wilful negligence by the bidder and his quotation will be considered non-bonafide.

6. REVOKATION /REVISION OF OFFER UPWARD/OFFERING VOLUNTARY REDUCTION, AFTER OPENING OF FINANCIAL BIDS LOWEST BIDDER.

In the event of lowest tenderer/bidder revoking his offer or revising his rates upward/offering voluntary reduction, after closing of bid submission date & time, his offer will be treated as revoked and the Earnest Money deposited by him shall be forfeited. In case of MES enlisted Contractor the amount equal to the Earnest Money stipulated in the Notice of tender, shall be notified to the tenderer/bidder for depositing the amount through MRO. Bids of such Contractors/bidders shall not be opened till date aforesaid amount equal to the earnest money is deposited by him in Govt. Treasury. In addition, bids of such tenderer/bidder and his related firm shall not be opened in second call or subsequent calls. Reduction offered by the tenderer/bidder on the freak high rates referred for review shall not be treated as voluntary reduction.

7 Department may issue amendments/errata in form of CORRIGENDUM to tender /revised BOQ to the tender documents. The tenderer/bidder is requested to read the tender documents in conjunction with all the errata/amendments/corrigendum, if any issued by the department.

8. These instructions shall form part of the contract documents.

SIGNATURE OF CONTRACTOR
DATED: _____

AGE (CONTRACTS)
FOR ACCEPTING OFFICER

NOTICE INVITING TENDER (NIT)

1. A tender is invited for the work as mentioned in Appendix 'A' to this NOTICE INVITING TENDER (NIT).
2. The work is estimated to cost as indicated in aforesaid Appendix 'A'. This estimate however, is not a guarantee and is merely given as a rough guide and if the work cost more or less, a tenderer/bidder will have no claim on that account. The tender shall be based on as mentioned in aforesaid Appendix 'A'.
3. The work is to be completed within the period as indicated in aforesaid Appendix 'A' in accordance with phasing, if any, indicated in the tender from the date of handing over site, which will be on or about two weeks after the date of Acceptance of tender.
4. Normally contractors whose names are on the MES approved list for the area in which the work lies, and within whose financial category the estimated amount would fall, may tender/bid but in case of term contracts, contractors of categories SS to E may tender/bid. Contractors whose names are on the MES approved list of any MES Formation and who have deposited standing security and have executed standing security bond may also tender/bid without depositing Earnest money along with the tender/bid and if the tender/bid submitted by such a tenderer/bidder is accepted, the contractor will be required to deliver to the Accepting Officer the amount of 'Performance Security' within twenty eight days of the receipt by him of notification of acceptance of his tender/bid, failing which action will be taken as per the stipulations in para 19.3 of Condition 19 of GCC (IAFW-2249). Not more than one tender/bid shall be submitted/uploaded by one contractor or one firm of contractors. Under no circumstances will a father and his son(s) or other close relations who have business dealing with on another be allowed to tender/bid for the same contract as separate competitors. A breach of this condition will render the tender/bids of both the parties liable for rejection.
5. The Office of **Garrison Engineer (AF) Tezpur** will be the Accepting Officer here in after referred to as such for purpose of the contract.
6. The Technical Bid and Financial Bid (Cover-1 and Cover-2) shall be uploaded by the tenderer/bidder on or before the date & time mentioned in **NIT**. A scanned copy of DD with enlistment details/documents shall be uploaded as packet 1/Cover-1 ('T' bid) of the tender/bid on e-tendering portal. DD is refundable in case T bid is not accepted resulting in non-opening of 'Q' bid. The applicant contractor shall bear the cost of bank charges for procuring and encashing the DD and shall not have any claim from Government whatsoever on this account.
 - 6.1 Tender form and conditions of contract and other necessary documents shall be available on eprocuremes.gov.in/eprocure.gov.in site for download and shall form part of contract agreement in case the tender/bid is accepted.
 - 6.2 In Case of contractor who has not executed the Standing Security Bond, the Cover-I shall be accompanied with by Earnest Money of amount as mentioned in Appendix 'A' in the form of deposit at call receipt in favour of concerned CCE/GE/GE(I)/AGE(I) (see Appendix 'A') by a scheduled Bank or in receipted treasury Challan the amount being credited to the revenue deposit of the concerned CCE/GE/GE(I)/AGE(I) (see Appendix 'A') .
 - 6.3 A contractor who is not enlisted for the area in which the work lies but whose name is in the MES approved list of any MES formation and who has deposited standing security and executed standing security Bond may bid without depositing earnest money along with tender; but if the Accepting Officer accepts the tender/bid, the contractor will be required to deliver to the Accepting Officer a 'Performance Security' within twenty eight days of the receipt by him of notification of acceptance of his tender/bid, failing which action will be taken as per the stipulations in para 19.3 of Condition 19 of GCC (IAFW-2249).

NOTICE INVITING TENDER (NIT) Contd..

6.4 A contractor who has executed standing security Bond but not corresponding to the appropriate class as mentioned above, shall deliver to the Accepting Officer a 'Performance Security' within twenty eight days of the receipt by him of notification of acceptance of his tender/bid, failing which action will be taken as per the stipulations in para 19.3 of Condition 19 of GCC (IAFW-2249).

6.5 The GE will return the Earnest Money wherever applicable to all unsuccessful tender/bidder by endorsing an authority on the deposit-at-call receipt for its refund, on production by the tenderer/bidder a certificate of the Accepting Officer that a bonafide tender/bid was received and all documents were returned.

6.6 The GE will return the Earnest Money to successful tender/ bidder by endorsing an authority on the deposit-at-call Receipt for its refund on receipt of an appropriate amount of Performance Security or will retain the same in part or full on account of performance security if such a transaction is feasible.

6.7 Copies of the drawings and other document pertaining to the work signed for the purpose of identification by the Accepting Officer or his accredited representative, sample of materials and stores to be supplied by the contractor will also be available for inspection by the tender/bidder at the office of Accepting Officer and concerned AGE during working hours.

7. The tenderers/bidders are advised to visit the site of work by making prior appointment with GE who is also the Executing Agency of the work (see appendix 'A'). The tenderes/bidders are deemed to have full knowledge of all relevant documents, samples, site etc., whether they have inspected them or not.

8. Any tender/bid which proposes any alteration to any of the conditions laid down or which proposes any other condition or prescription whatsoever, is liable to be rejected.

9. The uploading of bid implies that bidder has read this notice and the Conditions of Contract and has made himself aware of the scope and specification of work to be done and of the conditions and rates at which stores, tools and plants etc will be issued to him and local conditions and other factors having bearing on the execution of the work.

10. Tenders/bidders must be in possession of a copy of the MES Standard Schedule of Rates (see appendix 'A') including amendments and errata thereto.

11. Invitation for e- tender does not constitute any guarantee for validation of 'T' bid and subsequent opening of finance bid of any applicant/bidder, even of enlisted contractors of appropriate class, merely by virtue of enclosing DD. Accepting Officer reserves the right to reject the 'T' bid and not open the finance bid of any applicant/bidder. 'T' bid validation shall be decided by the Accepting Officer based on, inter alia, capability of the firm as per criteria given in Appx 'A' to this NIT. The applicant contractor/bidder will be informed regarding non-validation of his 'T' bid assigning reasons thereof through the eprocuremes website. The applicant contractor/bidder if he so desires may appeal to the next higher Engineer authority viz. **HQ Commander Works Engineer (Air Force) Borjhar**, on email id **afborj3-mes@nic.in / sswafborj3-mes@nic.in** with copy to the Accepting Officer on email before the scheduled date of opening of Finance Bid. The decision of the Next Higher Engineer Authority (NHEA) shall be final and binding. The contractor/bidder shall not be entitled for any compensation whatsoever for rejection of his bid.

NOTICE INVITING TENDER (NIT) Contd..

12. The Accepting Officer reserves the right to accept a tender submitted by Public Undertaking, giving a price preference over other Tender (s)/bids, which may be lower, as are admissible under the Government Policy. No claim for any compensation or otherwise shall be admissible from such tender/bidder whose tender/bid is rejected.

13. Accepting Officer does not bind himself to accept the lowest or any tender/bid or to given any reason for not doing so.

14. Irrespective of whatever is mentioned in condition 19.3 of IAFW-2249 with regard to suspension of tenders on account of non-submission of Performance Security, issue of tenders to such tenders shall remain suspended for a period of six months from the date of cancellation of contract under Condition 19.3 of IAFW2249 in case of unenlisted contractors. In case of MES enlisted contractors, issue of tenders shall remain suspended till deposit of EMD or six months from the date of cancellation whichever is later

15. This **Notice Inviting Tender (NIT)** including Appendix 'A' shall form part of the contract.

SIGNATURE OF CONTRACTOR
DATED: _____

AGE (CONTRACTS)
FOR ACCEPTING OFFICER

		Un-enlisted Contractor who have secured two works in MES should get themselves registered in the appropriate designated Class with any Registering Authority, else the firm will not be eligible for participation in tender unless until the firm is enlisted with the MES.
9.	Tender issuing and Accepting Officer	Garrison Engineer (AF) Tezpur PO-Salonibari, PIN-784104 District-Sonitpur, Assam Tele: 03712-258113, e-mail: aftezp4-mes@nic.in
10	Executing agency	GE (AF) Tezpur
11	Earnesy Money	Rs.97 ,000/- in favour of GE (AF) Tezpur in form of Deposit at callreceipt, FDR not acceptable. Note:- The bidders are required to sign the Bid Securing Declaration and upload copy of the same in Cover 1(Technical Bid) as below: - I/We hereby understand and accept that if I/We withdraw or modify my/our bids during the period of validity, or if I/We are awarded the contract and on being called upon to submit the Performance Security/Security Deposit, fail to submit the Performance Security/Security Deposit before the deadline defined in the request for bid documents/Notice Inviting Tender, I/We shall be debarred from exemption of submitting Bid Security/Earnest Money Deposit for a period of 6(Six) months, from the date I/We are declared disqualified from exemption from submission of Earnest Money Deposit/Security Deposit, for all tenders issued by MES during this period.
12	Performance Security	Within 28 days of receipt of the letter of Acceptance, the successful contractor shall submit to the Accepting officer a performance security in any of the forms as prescribed for an amount equivalent to 5% of the Accepted amount (Contract Sum/ Lump sum).

NOTES:-

1. In case after opening of Cover-I, the number of MES enlisted contractors of eligible class as well as unenlisted contractors, if any, fulfilling the other eligibility criteria given in NIT are less than 7 (Seven), applications in respect of contractors one and two class below the eligible class may also be considered subject to fulfilling the other eligibility criteria given in NIT. Therefore, MES contractor one and two class below eligible class may also bid for this tender. However, such contractors shall not be considered in case their present residual work in hand is more than 05 (Five) times their present tendering limit. However, in case such contractors fulfil the criteria of upgradation to the stipulated eligible class based on past experience of completed works (individual work experience and/or avg turnover, as applicable) and financial soundness (solvency and working capital), the ceiling of present residual work will not apply, and they will be considered for issue of tender. Such bidders shall upload in their Cover-I bid details of residual works in hand showing name of work, names of accepting officer, contact amounts, date of commencement and completion(stipulated) and progress as on bid submission end date. Such contractor, if claim to fulfil the criteria of upgradation shall also upload the requisite information/documents in support of upgradation. These details shall be verified by the Tender Issuing Authority from concerned formations in case bid of such contractors are considered for evaluation.”
2. In case after opening of Cover1, if the number of MES enlisted contractors of eligible class contractors as well as unenlisted contractors, if any, fulfilling the other eligibility criteria given in NIT are 7 (Seven) or more, applications of those ONE class below the eligible class bidders shall be considered, who have previously completed similar works satisfactorily & are meeting the criteria of up-gradation in respect of past experience of completed work (individual work experience and /or average annual turnover as applicable) & financial soundness (solvency/ financial soundness & working capital) as per details given in Manual on Contracts. Therefore, such contractors shall upload the requisite information/documents in the Cover1.
3. Unenlisted contractor shall be considered provided he meets the criteria. Foreign firms shall not be eligible for this tender. However Indian firms having foreign national/Indian Nationals staying abroad/ Indian national having taken foreign citizenship, as director(s) shall be considered subject to security clearance from the concerned authorities.
4. Contractors enlisted with MES will upload following documents in Cover-I for checking eligibility: -
 - (a) Application for tender on Firm's letter head
 - (b) Enlistment letter issued by the Registering Authority duly renewed for the cycle period in vogue.

NOTICE INVITING TENDER (NIT) Contd..

- (c) Scanned copy of DD/Banker Cheque towards cost of tender and EMD instrument in case SSD bond not signed at the time of registration.
 - (d) Any other documents required as described in this Appendix.
5. Contractors not enlisted with MES will be required to upload following documents in Cover-1 for checking eligibility.
- (a) Application for tender on Firm's letter head
 - (b) Scanned copy of DD/Banker Cheque towards cost of tender and Earnest Money Deposit (EMD) instrument.
 - (c) Copy of Police Verification Report /Police Clearance Certificate/Character Certificate from the Police authority of the area where registered office of the firm is located/notarized copy of valid passport of Proprietor/each Partner/each Director.
 - (d) All documents required for enlistment in MES for the class mentioned in Para 8(b) above as per Para 1.5 of Section 1 of MES Manual on Contracts 2020.
 - (e) Details of works being executed in MES, if any.
 - (f) Any other documents required as described in this Appendix
6. Tenders not accompanied by scanned copies of requisite DD/banker's cheque towards cost of tender and earnest money (as applicable) in Cover1 shall not be considered for validation of T bid and their financial Bids will not be opened.
7. Contractor should ensure that their original physical DDs and Earnest Money Deposit (EMD) instruments (as applicable) shall reach the office of Accepting Officer **within 7 (Seven) days** of bid submission end date, failing which following actions shall be taken.
- (a) In case of tender from enlisted contractors of MES, where scanned copies of requisite DD/Bankers Cheque towards cost of tender has been uploaded in Cover1 but physical copies are not received within the stipulated period, their financial bids (Cover 2) will be opened. However non-submission of physical copies of cost of tender shall be considered as willful negligence of the tenderer with ulterior motives and such tenderer shall be banned from bidding for a period of six months commencing from the date of opening of Financial Bid (Cover 2).
 - (b) In case of tender from unenlisted contractor, where scanned copies of requisite DD/ Bankers Cheque towards cost of tender have been uploaded in Cover 1 but physical copies are not received within the stipulated period, their financial bids (Cover 2) will not be opened. Name of such contractors along with complete address shall be circulated for not opening of their bids for a period of six months commencing from the date of opening of Financial Bid (Cover 2).
 - (c) In case of tenders from enlisted and un-enlisted contractor, where scanned copies of instrument for Earnest Money Deposit (as applicable) have been uploaded in Cover1, but the same are not received in physical form within stipulated time, such tenders shall not qualify for opening of Financial Bid (Cover-2).
8. Contractor will not be allowed to execute the work by subletting or through power of attorney holder on his behalf to a third party/another firm on his behalf. However, a contractor can execute the work through Power of Attorney to sons/daughters/Spouse of Proprietor/ Partner/Director and firm's own employees, Director, Project Manager **provided they are not having a separate enlisted firm in MES in their name as Proprietor/Partner/Director.**
9. After opening of Cover-1 and during its technical evaluation, in case of any deficiency is noticed in the documents required to be uploaded by the tenderers as per NIT, a communication in the form of e-mail/SMS/Speed Post etc shall be sent to the contractor to rectify the deficiency within a period of seven days from the date of communication failing which their financial bid (Cover-2) shall not be opened and contractor shall not have any claim on the same.

NOTICE INVITING TENDER (NIT) Contd..

10. Invitation for e- tender does not constitute any guarantee for validation of Technical bid and subsequent opening of financial bid of any applicant/bidder merely by virtue of enclosing DD, Accepting Officer reserves the right to reject the Technical bid and not open the financial bid of any applicant/bidder. 'Technical bid validation shall be decided by the Accepting Officer based on, eligibility of the firm as per the criteria given in this Appendix. Tenderer/ bidder will be informed regarding non-validation of his Technical bid assigning reasons therefore through the tender evaluation report which shall be uploaded on the website. Such tenderer if he so desires may appeal to the next higher Engineer authority viz. **HQ Commander Works Engineer (AF) Borjhar** on email id **afborj3-mes@nic.in / sswafborj3-mes@nic.in** with copy to the Accepting Officer on email before the scheduled date of opening of Cover 2. NHEA shall decide the matter within a period of seven working days from the date of receipt of appeal. The decision of the NHEA shall be final and binding. The tenderer/bidder shall not be entitled for any compensation whatsoever for rejection of his bid.

11. In case of un-enlisted contractors is already executing work in MES, he shall not be considered eligible for the subject tender if the total value of such work is more than twice the tendering limit of the MES class of contractor for which it is eligible. For the purpose, details of the works being executed by such a contractor shall be uploaded in the Cover-I of the bid and shall be checked/verified by the Accepting Officer.

12. In case the BOQ is revised through the corrigendum and the bidder has failed to quote on the revised BOQ (i.e. he has quoted on pre revised BOQ), such bid shall be treated as wilful negligence by the bidder and his quotation shall be considered non-bonafide. In such case the lowest tender shall be determined from amongst the valid/bonafide bids only. Accepting Officer may decide whether to re-tender or consider the lowest bonafide tender for acceptance.

13. Revoking the offer or revising the rates upwards or offering voluntary reduction by the lowest tenderer after opening of Cover-2 shall be considered as a willful default. For this default, a penalty of an amount equal to Earnest Money shall be levied. In case of an unenlisted tenderer, Earnest Money deposited by him shall be forfeited. In case of MES enlisted tenderer having deposited the Sanding Security Bond, an amount equal to the Earnest Money stipulated in the NIT shall be notified to the tenderer for depositing through MRO and consideration of such tenderer in tender evaluation for future work shall remain suspended till the aforementioned amount is deposited in the Government Treasury. No other disciplinary/administrative action shall be taken against such tenderers. In such a situation, the next lowest offer shall not be considered for acceptance. Instead, retendering shall be resorted to in a transparent and fair manner and the defaulting tenderer and his related firm, if any, shall not be eligible for this tender in second call or subsequent calls.

14. Tender to related firms shall not be issued simultaneously. Firms shall be termed as related if Proprietor/one or more Partners/Directors are common. Decision of Accepting Officer on issue/deny the tender to any one of the related firms shall be final and binding.

15. The tenderer/bidder shall upload copy of GST Registration Certificate and proof of possession of Provident Fund Code Number in addition to other mandatory documents as required. All workers employed directly or indirectly by the contractor shall be enrolled as members of provident fund and should give the Universal Account Number (UAN).

16. Court of the place from where tender has been published shall alone have jurisdiction to decide any dispute out of or in respect of this tender. After acceptance of tender, Condition 72 - jurisdiction of Courts, in GCC (IAFW-2249) shall be applicable.

SIGNATURE OF CONTRACTOR

File No: No.:8145/ /E8
Dated: Apr 2026

Military Engineer Services
Garrison Engineer (AF) Tezpur
Post: Salonibari, Dist.: Sonitpur
PIN - 784 104 (Assam)

**AGE (CONTRACTS)
FOR ACCEPTING OFFICER**

IN LIEU OF IAFW-1779 A
(REVISED-1955)

(To be used in conjunction with General Condition of Contracts IAFW-2249)

MILITARY ENGINEER SERVICES

Tele/Fax: 03712-258113

Garrison Engineer (AF) Tezpur
Post: Salonibari, Dist.: Sonitpur
PIN - 784 104 (Assam)

No.:8145/ /E8

Apr 2026

ITEM RATE TENDER AND CONTRACT FOR WORKS REQUIRED FOR PROVN OF AC WIRING FOR AC AT NP-88, NP-87 BLDG AND REPLACEMENT OF SUBMAIN WIRING WITH COPPER WIRING AT AF STN TEZPUR

Tenderers/Bidders who are qualified as per the eligibility criteria mentioned in the Notice Inviting Tender and having interalia sound past record is/are hereby authorised to tender for the above work. The tenderers/Bidders shall submit/upload various documents connected with the subject tender through online 'e-tendering' in website/ portal address www.defproc.gov.in before the due date and time.

THE PRESIDENT OF INDIA DOES NOT BIND HIMSELF TO ACCEPT THE LOWEST OR ANY TENDER.

**Signature of the Officer
Issuing/Uploading the Documents:
Appointment: AGE (Contracts)
DATE: Apr 2026**

SCHEDULE 'A'/BOQ
(LIST OF ITEMS OF WORK)

NAME OF WORK: PROVN OF AC WIRING FOR AC AT NP-88, NP-87 BLDG AND REPLACEMENT OF SUBMAIN WIRING WITH COPPER WIRING AT AF STN TEZPUR

NOTES:-

1 Description of items given in various items of Schedule is brief. Unit rates shall be deemed to allow for provision of materials, labour, process, operations and all special requirements and tests etc. detailed in the tender documents and shall be amplified and read in conjunction with special conditions, particular specifications, specifications of materials and workmanship and conditions in relevant trade sections of MES Standard Schedule of rates Part I & II and working conditions, contract drawings and other documents forming part of the contract documents.

2. Unit Rates

(a) The contractor shall calculate his own details and insert his unit rates against each item of BOQ/Schedule 'A' Part(s).

(b) Unit rates shall be deemed to include for material, Labour and Plant & Machinery complete and all the connected works required for carrying out the work as mentioned in Sch'A'/BOQ unless otherwise specifically mentioned.

(c) Unit rates quoted shall be deemed to be inclusive of all taxes and levies of Govt. so applicable such as GST/Sales Tax/VAT, GST on works contract, excise duty, toll tax, entry tax, income tax, workers welfare tax/cess, service tax etc. and nothing extra shall be paid on this account. Necessary deduction at source shall be made by the GE as applicable as per the mandatory statutory requirement of Central and State Government.

3. The total amount in Schedule-A / BOQ is not firm but will be treated as contract sum as referred to in IAFW-2249.

4. The quantities shown in Schedule-A / BOQ are approximate and are inserted for guidance only. These shall, however, not be varied beyond the limit laid down in Condition 7 of IAFW-2249 (General Conditions of Contracts.)

5. Method of measurement of all works shall be as described in MES Schedule, unless otherwise specified in these documents.

6. Tenderers are required to be fully acquainted with scope of work as catered for in the tender documents and also the site of work. No claim shall be entrained subsequently for any misunderstanding or any inaccuracy with regard to site conditions and provisions made in tender documents.

7. The materials/fixtures/fittings shall be procured from any of the firms/manufacturers whose names are mentioned in BOQ/Sch 'A'/ List of manufacturers of specific makes as per LIST in Particular Specifications.

8. The items of work considered in Schedule 'A' /BOQ are required to be executed as per site requirement for construction of entire completion of the works as specified and or as shown in contract drawings. The contractor is deemed to have ascertained the scope of work by going through the contract drawings and actual site condition.

SCHEDULE 'A'/BOQ (CONTD.)

9. Unit rate quoted by the contractor against various items of Schedule 'A'/BOQ shall, interalia, be deemed to include for any minor details of construction which are obviously and fairly intended and which may not have been specifically included in the tender documents but which are essential for the execution and completion of works. In case of difference of opinion between the contractor and the GE as to whether or not, any item of work constitutes 'Minor details of construction, the decision of Accepting Officer shall be final, conclusive and binding.
10. Method of measurement of all works shall be as per relevant IS and MES Standard Schedule of Rates 2009 (Part I - Specifications) and MES Standard Schedule of Rates 2020 (Part II - Rates), unless otherwise specified in these documents.
11. The entire work under this contract shall be completed within **180 Days** from the date of commencement as ordered by GE (AF) Tezpur in the work order.
12. **COMPLETION OF DEFECT LIABILITY PERIOD.** The work shall be treated as completed within the provisions of Condition 49 of IAFW-2249 only after the whole work is completed under the contract and taken over by MES. The defects liability period shall be **two years** as mentioned in the Condition 46 of IAFW-2249 shall commence from the date of completion as mentioned in completion certificate, which will be issued only after the completion of the entire work under the contract.
13. **TESTING.** It is made clear that cost of material for testing, all field apparatus required for sampling and testing as per MES Schedule/IS codes and manpower incident to such testing will be provided along with necessary transport arrangement to and fro to the approved testing agency or laboratory by the contractor during the construction phase of the work and defect liability period.
14. Applicable to Schedule 'A': - The under mentioned remarks shall be deemed to have been inserted in the BOQ: -
- (a) See list of drawings and specifications.
 - (b) See Schedule 'A' Notes.
 - (c) See Schedule 'A' Notes.
15. Unless otherwise specified, unit rate against each item of work shall be deemed to be inclusive of materials and labour, all plants, equipment and tools including testing for acceptance criteria complete.
16. Please note that No foreign exchange or import license facility will be arranged by the department for any material included in the subject tender. Further form 'D' will not be issued by the department for interstate purchase or the like.

SIGNATURE OF CONTRACTOR**AGE (CONTRACTS)
FOR ACCEPTING OFFICER**

SCHEDULE 'A' PART-II
(SCHEDULE OF CREDIT)

NAME OF WORK:- PROVN OF AC WIRING FOR AC AT NP-88, NP-87 BLDG AND REPLACEMENT OF SUBMAIN WIRING WITH COPPER WIRING AT AF STN TEZPUR.

NOTE:

1	The contractor shall take proper precaution for demolition /dismantling work. If any damage caused due to dismantling/demolition to the existing structure, the contractor shall make good the same at this own cost without any extra cost to the Govt.
2	All dismantling / taking down materials (except those included in Schedule of Credit and those re-used in the work) shall be returned to MES store without any extra cost to the Government. However useless materials as per the opinion of Engineer-in-Charge shall be removed outside MD land or thrown away at low laying area as directed by Engineer-in-Charge without any extracost to the Government.
3	The rates inserted by the department under column 5 is the minimum recovery rate which shall be final and binding.
4	Unless specifically mentioned in Schedule 'A', the Contractor shall not be permitted to incorporate the demolished materials in the work under any circumstances.
5	The contractor shall be allowed to take away the demolished materials only after deduction of credit amount from the Contractors payment due with prior permission of Engineer-in-Charge.
6	The quantities mentioned under Col-4 are for rough guidance only. However the quantities mentioned under this column will be measured as per actual quantity obtained from demolition/ dismantling against respective items of Schedule 'A'. No claim whatsoever due to any variation in quantities shall be entertained.

SN	Description of work	Unit	Qty	Rate (Rs) (Priced by the Dept)	Amount (Rs)
1	2	3	4	5	6
1	Old unserviceable point wiring of any description with cables, wooden battern / PVC casing and Capping / PVC conduit / with accessories	Point	560	32.00	17920.00
2	Old unserviceable DBs TPN/SPN	Each	120	28.00	3360.00
3	Old unserviceable Submain wiring	RM	1700	5.00	8500.00
4	Old unserviceable MCBs/MCBs of any type	Each	835	3.00	2505.00
5	Old unserviceable Sheet metal enclosure for meter	Each	12	50.00	600.00
6	Old unserviceable LED light/bulbs /bldg security light fittings of any type	Each	240	32.00	7680.00
			Total Rs.		40,565.00

SIGNATURE OF CONTRACTOR
DATED: _____

FOR ACCEPTING OFFICER

SCHEDULE 'B'

ISSUE OF MATERIALS ETC TO CONTRACTOR
(SEE CONDITION-10 OF IAFW-2249)

Srl No	Description of materials	Rate at which materials will be issued to contractor		Place of issue by name	Remarks
		Unit	Rate in Rs.		
1	2	3	4	5	6

-NIL-

SIGNATURE OF CONTRACTOR
DATED: _____

FOR ACCEPTING OFFICER

SCHEDULE 'C'

LIST OF TOOLS AND PLANT (OTHER THEN TRANSPORT)
WHICH WILL BE HIRED TO THE CONTRACTORS)
(See Condition 15, 34 & 35 of IAFW-2249)

SN	Quantity	Particulars	Details of crew	Hire charges per unit per working day	Standby charges per unit per off day	Place of issue	Remarks
1	2	3	4	5	6	7	8

.....NIL.....

SIGNATURE OF CONTRACTOR
DATED: _____

FOR ACCEPTING OFFICER

SCHEDULE 'D'

TRANSPORT TO BE HIRED TO THE CONTRACTOR)
(See Condition 16 & 35 of IAFW-2249)

S N	Quantity	Particulars	Rate per unit per working day	Place of issue by name	Remarks
1	2	3	4	5	6

.....NIL.....

SIGNATURE OF CONTRACTOR
DATED: _____

FOR ACCEPTING OFFICER

TENDER

To,

The President of India Having examined and perused the following documents: -

1. Specifications signed by AGE (Contracts)
2. Drawings details in the specifications.
3. Schedule 'A', 'B', 'C', 'D' attached hereto.
4. MES Standard Schedule Rates Part I (2009) & Part II (2020) (here-in-after referred to as the MES schedule) together with amendments Nos **01 to 03** for Part I and **1 to 122** for Part II
5. General Conditions of contracts, IAFW-2249 (1989 print) together with errata No **1 to 20** and amendments **1 to 49**.
6. **Water:** - Condition 31 of IAFW-2249 General Condition of Contract. Water will be supplied by MES

Should this tender be accepted, I/We agree

** (a) That the sum of **Rs. 97,000.00 (Rupees Ninety Seven Thousand Only)** forwarded as Earnest Money shall either be retained as part of security deposit or be refunded by the Government on receipt of the appropriate amount of Security Deposit, as per Condition 19 of IAFW-2249.

(b) To execute all the works referred to in the said documents upon the terms and conditions contained or referred to therein at the items rates contained in the aforesaid Sch 'A' or at such other rates as may be fixed under the provision of Condition 62 of IAFW-2249 and to carry out such deviations as may be ordered vide Condition 7 of IAFW-2249 upto a maximum of 10% (TEN PERCENT) and further agree to refer all disputes, as required by Condition 70 of IAFW-2249 to the Sole Arbitration of a Serving Officer having degree in Engineering or equivalent or having passed final/direct final examination of Sub-division II of the Institution of Surveyors (India) recognised by the Govt. of India to be appointed by the ADG (NEI) Guwahati or in his absence the Officer Officiating as ADG (NEI) Guwahati if specially delegated in writing by the ADG (NEI) Guwahati whose decision shall be final, conclusive and binding.

** To be deleted where NOT applicable.

Signature of the Contractor
Date :

AGE (Contracts)
For Accepting Officer

Contd.../-

TENDER (CONTD.)

Signature _____ in the Capacity of _____ duly authorized to sign
the tender for and on behalf of _____

(IN BLOCK LETTERS)

DATED : _____

SIGNATURE OF WITNESS

POSTAL ADDRESS _____

NAME _____

ADDRESS _____

TELEGRAPHIC ADDRESS _____

TELEPHONE NO. _____

ACCEPTANCE

_____ Alterations have been made in these documents and as evidence that these
alterations were made before the execution of the Contract Agreement and these have been initialed
by the Contractor and Shri _____

The said officer is hereby authorized to sign and initial on my behalf the documents forming part of this
contract.

The above tender was accepted by me on _____ day of _____ 2026 on behalf of the
President of India for the contract sum of Rs. _____

(Rupees _____

_____ Only)

Signature _____ dated this _____ day of _____ 2026.

**Appointment: GARRISON ENGINEER
ACCEPTING OFFICER
(For and on Behalf of the President of India).**

Contd.../-

GENERAL CONDITIONS OF CONTRACTS (IAFW-2249, 1989 PRINT)
MEASUREMENT CONTRACTS (IAFW-1779 & 1779-A)

A copy of the General Conditions of Contracts IAFW-2249 (1989 Print) with errata 1 to 20 and amendments 1 to 49 has been supplied to me/us and is in my/our possession. I/We have read and understood the provisions contained in the aforesaid General Conditions of Contracts before submission of this tender and I/We agree that I/We shall abide by the terms and conditions thereof as modified, if any, elsewhere in these tender documents.

It is hereby further agreed and declared by me/us that General Conditions of Contracts IAFW-2249 (1989 Print) including condition 70 thereof pertaining to settlement of disputes by Arbitration, containing 33 pages with errata 1 to 20 and amendments 1 to 49 form part of these tender documents.

It is also agreed by me/us that in case of any discrepancy in the interpretation of the contents between English and Hindi version, English version shall take precedence over Hindi version

FOR ACCEPTING OFFICER

SIGNATURE OF CONTRACTOR
DATED: _____

SCHEDULE OF MINIMUM FAIR WAGES

1. It is hereby agreed that the 'Schedule of Minimum Fair Wages' as published vide Govt. of India/State Govt./local authorities which is highest and which specifies minimum rates of wages for various categories of workman as applicable on the last due date of receipt of this tender and shall form part of this tender documents. The minimum rates of wages shall consist of all-inclusive rates and include also the wages for weekly day of rest.

2. My/our signature here under accounts to my/our having read and understood the provisions contained therein and I/We agree that I/We shall abide by the same and that aforesaid documents form part of this tender.

FOR ACCEPTING OFFICER

SIGNATURE OF CONTRACTOR
DATED: _____

SPECIAL CONDITIONS AND REQUIREMENTS**1. GENERAL**

- 1.1 The following Special Conditions shall be read in conjunction with the General Conditions of Contracts, IAFW-2249 (1989 print) and IAFW-2159 including errata/amendments thereto. Any provision in these special conditions if at variance with that of the aforesaid documents shall take precedence there over. The term General specification used in any of the documents forming part of the contract refer to the specification contained in the MES Schedule.

2. ADMISSION TO SITE BY CONTRACTOR AND RESPONSIBILITY TO ASCERTAIN HIS OWN INFORMATIONS

- 2.1 Refer paras 16 and 20 of Notice of Tender (IAFW-2162) and Condition 4 of IAFW-2249. The tenderer shall be deemed to have satisfied himself before submitting his tender as to the nature of the ground and sub-soil (so far as it is practicable), the climatic conditions, the form and nature of the site, nature of work and the manner of access to the site and the accommodation he may require. In general, the tenderer shall be deemed to have himself obtained all necessary information on inspection of site, as to risks, contingencies and other circumstances which may influence or effect his tender. No extra payment consequent on any mistake or misunderstanding or otherwise on this account shall be allowed.
- 2.2 The tenderer shall be deemed to have visited the site(s) before quoting rate and made themselves familiar with the working conditions, whether he actually inspect the site(s) or not.

3. AVAILABILITY OF LAND FOR STORAGE OF MATERIALS, ACCOMMODATION FOR LABOUR ETC

- 3.1 Delete the following from lines 5 to 9 of sub para 1 of Condition 24 of IAFW-2249 General Conditions of Contracts and insert as under in lieu thereof: -
"The contractor shall be permitted to store his materials including erecting temporary sheds thereof, temporary Workshops and the like at the area of land, marked for this purpose, on the site plan/shown by the Engineer in Charge free of rent, if it is on class A-1 land. For other types of land he shall be charged licence fee Re 1/- per year or part of a year for each and every separate area of land allotted to him. No land shall be allotted to the contractor for construction of huts for accommodation of labour.

4. CONDITIONS OF WORKING

- 4.1. The work lies in 'RESTRICTED AREA' The contractor and his workmen shall observe all the rules promulgated from time to time by the authority controlling the area VIZ prohibition of smoking lighting and fire precaution search of workmen/agents and transport on entry and exit and keeping to specified routes and working hours restrictions.
- 4.1.1 The contractor his agent(s)/representative workmen etc and his materials carts, trucks or their means of transports etc, will be allowed to entire through and leave only from such gate and at such times as the GE or authorities in charge of the Restricted Areas may at their sole discretion permit to be used. The contractor's authorized representative is required to be present at the place of entry and exit for the purpose of identifying his carts, trucks etc to the personnel in charge of the security of Restricted Area.
- 4.1.2 The contractor, his agent(s) and representative are required individually to be in possession of identity card or pass duly verified by the Garrison Engineer. The security staff will examine the identity card or pass at the time of entry into or exist from the restricted Area. Every workman shall be in possession of an identity card which shall be issued after a through investigation of the antecedents of the labour employed by the contractor and attested by Engineer-in-Charge in accordance with the Standing rules and origination of the unit. Contractor shall be responsible for the conduct and action of his workmen against on representative. Passes shall be returned at any time on demand by Engineer-in-Charge and in any case on completion of work.
- 4.2. The Contractor and his work people shall observe all the rules promulgated from time to time by the authority controlling the area in which the work is to be executed viz. prohibition of smoking, lighting and fire precautions, search of persons on entry and exit and keeping to specified routes, restricted hours of working etc. Any person found violating the security rules laid down by authority, shall be immediately expelled from the area without assigning any reasons whatsoever and no payment shall be admissible for any man hours lost on this account.

SPECIAL CONDITIONS AND REQUIREMENTS (CONTD.)

- 4.3 **VISIT TO SITE WITHIN THE RESTRICTED AREA** :-Permission to enter the restricted area before submission of tenderers can be obtained through the GE/AGE(I). Tenderers are advised to send prior intimation of their agents, representatives etc., if any, dates and time of their proposed visit so that necessary arrangements may be made by GE to secure admission. Whether a tenderer visits the site or not, he shall be deemed to have full knowledge of the conditions viz., restrictions of entering into / exit from and working within the Restricted Area.
- 4.4 **WORK ON HOLIDAYS:-** The contractor shall not carry out any work on gazetted holidays, weekly holidays and other non-working days except when he is specially authorized in writing to do so by the GE . The GE may at his sole discretion declare any day as holiday or non-working day without assigning any reason for such declaration. Nothing extra shall be admissible on this accounted for any man hours lost.
- 4.4.1 The units controlling restricted area, usually work during six days in a week and remain closed on the 7th day. The working hours available to the contractor's labour and staff are however, appreciably reduced because of the time taken in security checks observed at the time of entry, exit and during working hours.
- 4.4.2 The exact working hours, days and non-working days observed for the restricted area, where works are to be carried out, shall be deemed to have been ascertained by contractor before submitting his tender. The tenderers attention is invited to the fact that the total number of working hours for a unit are prescribed in regulations and they cannot be increased by the Garrison Engineer.
- 4.4.3 Contractor's materials, transport etc shall normally be permitted to come in/go out of the area between 8 AM to 6 PM only
- 4.4.4 Contractor may also be allowed to carry out the work beyond 6.00 PM and upto 8.00 PM (day and night). However no movements of materials and transport to/out of site of works shall be permitted during night unless special permission is obtained from the factories/ unit authority.
5. **CONTRACTOR'S REPRESENTATIVES AND WORKMEN**
- 5.1 Refer Condition 25 of IAFW -2249 which shall be deemed to be modified to the extent mentioned here in before. The contractor shall employ only Indian Nationals as his representatives, servants and workmen and verify their antecedents and loyalty before employing them for the works. He shall ensure that no person of doubtful antecedents and nationality is in any way associated with works. If for reasons of technical collaboration, or other consideration employment of any foreign national is unavoidable, the contractor shall furnish full particulars to this effect to the Accepting Officer at the time of submission of his tender.
- 5.2 **ENTRY / EXIT:-** The contractor, his agent (s) / representatives, workmen etc., and his materials, carts, trucks or other means of transports, tools, plants etc., will be allowed to enter through and leave only from such gate or gates and at such times as the GE or authorities in charge of the Restricted Area may at their sole discretion permit to be used. The contractor's authorised representative is required to be present at the place of entry and exit for the purpose of identifying his carts, truck etc., to the personal incharge of the security of Restricted Area.
- 5.3 **IDENTITY CARDS OR PASSES**
The contractor, his agents and representatives are required individually to be in possession of an identity card or pass duly verified by the GE. The identity card or pass will be examined by the security staff at the time of entry into or exit from the restricted area and also at any time or number of times inside the Restricted Area.
- 5.4 **IDENTITY OF WORKMEN**
- 5.4.1 Every workmen shall be in possession of an identity card. The identity card will be issued after thorough investigation of the antecedents of the labourers employed by the contractors and attested by the officer-in-charge of the unit concerned in accordance with the standing rules and regulations of the units.

SPECIAL CONDITIONS AND REQUIREMENTS (CONTD.)

- 5.4.2 Contractor shall be responsible for the conduct and action of his workmen, agents or representatives.
- 5.4.3 The contractor, his agent & representatives are required individually to be in possession of an identity card or pass or numbered token as issued by the Officer-in-charge of the unit, which will be examined by the security staff at the time of entry into or exit from the restricted area at any time or number of times inside restricted area.
6. **SECURITY OF CLASSIFIED DOCUMENTS.**
- 6.1 Contractor's special attention is drawn to Conditions 2-A and 3 of IAFW-2249 (General Conditions of Contracts). The contractor shall not communicate any classified information regarding the work either to subcontractors or others without the prior approval of the GE. The contractor shall also not make copies of the design/drawings and other documents furnished to him in respect of the work, and shall return all document on completion of the works or earlier on determination/Termination/cancellation of the contract. The contractor shall alongwith the final bill, attach a receipt of his having returned the classified documents as per Condition 3 of IAFW-2249 (General Conditions of Contracts).
7. **MINIMUM WAGES PAYABLE**
- 7.1 Refer Condition 58 of IAFW-2249. The contractor shall not pay wages lower than minimum wages for labour as fixed by the Govt. of India/State Govt./Union Territory under Minimum Wages Act or Contract Labour (Abolition and Regulation Act) whichever is higher.
- 7.2 The fair wage referred to in condition 58 of IAFW-2249 shall be deemed to be the same as the minimum wages payable as referred to above.
- 7.3. The contractor shall have no claim whatsoever, if on account of local factors and/or regulations, he is required to pay the wages in excess of minimum wages as described above during the execution of work.
8. **CO-OPERATION WITH OTHER AGENCIES**
- 8.1 The contractor shall permit free access and generally afford reasonable facilities to other agencies or departmental workmen engaged by the Govt. to carryout their part of the work, if any, under separate arrangements. The contractor shall not be allowed any extra payment on this account.
9. **QUARRIES**
- Quarries are not available on land, which is in the charge of the MES authorities; Condition 14 of IAFW-2249 shall thus be treated as deleted.
10. **WATER**
- 10.1 Refer condition 31 of IAFW-2249. If contractor desires to buy water from Government, water will be supplied by the department at the point(s) as indicated in the site plan or as directed by GE. The water supply shall be metered and the contractor shall pay for after used in works and by his workmen at the rate of **Rs.3.75 per every Rs 1000.00** worth of work done priced at contract rates. The supply of water may not be continuous, the contractor shall be deemed to have ascertained the hours of availability of water before submitting his tender. MES does not guarantee for break down in the system or if supply is not sufficient. The contractor shall make his own arrangements to store and supplement the water supply at his own cost.
- 10.2 The contractor if he so desires, will be allowed to augment the department's water supply by boring wells at his own cost at site(s) approved by the GE/AGE (I). On completion of the work, the contractor shall remove pipe etc. installed and make good the site as directed by Engineer-in-Charge without any extra cost of Government. No rebate shall be given for augmentation of water by the contractor and charges for water shall be recovered at the rate mentioned above. The contractor shall, however, ensure that water drawn from such sources is clean and free from all impurities and is suitable for mixing concrete, mortar, washing aggregate and curing of concrete as specified in IS 456.

SPECIAL CONDITIONS AND REQUIREMENTS (CONTD.)**11. SUPPLY OF ELECTRICITY**

- 11.1 In case the contractor desires to by electricity from MES, he shall be charged for the electric energy consumed at **Rs. 8.98** for lighting and power.
- 11.2 Electric supply required for the work shall be made available by the MES. The main switch and KWH metres to register the electric energy supplied shall be provided and installed by the MES. Contractor shall provide all necessary cables, fittings etc, from the main switch in order to ensure a proper and suitable supply of electricity for execution fo work. All contractors' installation shall conform to and be strictly in accordance with Indian Electricity Act and Rules. More over the layout of cables etc as proposed by him shall be as per plan approved by the Engineer-in-Charge.Any risk either for materials or personnel will be the contractor's responsibility.
- 11.3 GE or his representative shall be free to inspect all power consuming devices or any electric lines provided by the contactor. Any device or electric lines provided by the contractor which is not to the satisfaction of the GE shall be disconnected from the supply, if so desired by him.
- 11.4 MES do not guarantee for continuity for supply and no compensation whatsoever shall be allowed for supply becoming intermittent or for breakdown in the system.

12. SAMPLE OF MATERIALS

- 12.1 Refer Condition 10 of I.A.F.W. 2249 and Clause No.1.6 & 1.7 of MES Schedule Part I.
- 12.2 The tenderers are advised to inspect sample of the materials which are displayed in the office of the GE before submitting his tender. The tenderers shall be deemed to have inspected the samples and satisfied himself as to the nature and quality of materials, he is required to incorporate in the work, irrespective of whether he has actually inspected or not. The materials to be incorporated in the work by the contractor shall conform to or shall be superior in quality to the sample displayed and shall comply with the specifications given hereinafter.
- 12.3 The contractor shall not procure materials unless the samples are first approved by the GE.
- 12.4 The materials other than materials of local origins shall comply with the requirement of the latest IS.
- 12.5 The cost of testing of material shall be borne by the contractor, unit rates quoted shall include this provision. This aspect shall be kept in mind and nothing extra shall be admissible on this account.

13. RECORD OF MATERIALS.

- 13.1 The quantity of materials such as cement, steel, paints, water proofing compound, chemicals for antitermite treatment and the like, as directed by the Engineer in Charge (the quantity of which cannot be checked after incorporation in the works), shall be recorded in measurement books and signed by the contractor and the Engineer in Charge as a check to ensure that the required quantity has been brought to site for incorporation in the work.
- 13.2 All materials brought to site shall be checked by the Engineer in Charge and stored as directed by the Engineer in Charge and those already recorded in Measurement Book shall be suitably marked for identification.
- 13.3 Contractor shall produce vouchers/invoices from the manufacturers and/or their authorized agents for the full quantity of the following materials as a pre-requisite before submitting claims for payment for advances on account-of the work done and/or materials collected in accordance with Condition 64 of General Conditions of Contracts-IAFW-2249 :
- (i) All items for which payment is claimed in RAR as " material lying at site"
(ii) Cement
(iii) Reinforcement/ Structural steel. (iv) PVC conduit/Electrical wires

SPECIAL CONDITIONS AND REQUIREMENTS (CONTD.)

- | | |
|--------------------------------|--|
| (v) MCCB/MCB/DB/Switch/Sockets | (vi) HT and LT Cables |
| (vii) Test point terminal box | (viii) Copper strips |
| (ix) GI pipe | (x) Earthing plate |
| (xi) Ceiling Fan | (xii) All type light fittings |
| (xiii) Aluminium strips | (xiv) Carbon based ground enhancing compound |
| (xv) Copper rod | |

13.4 The contractor shall ensure that the materials are brought to site, in original sealed containers / packing, bearing manufacturer's marking except in the case of the requirement of materials(s) being less than smallest packing.

13.5 The vouchers/invoices will clearly indicate the contract number and the IS No., specific alternative to which the material conforms in case of various alternative in IS.

14. VALIDITY OF TENDER

14.1 The tender shall remain open for acceptance for a period of **60 (Sixty) Days** from the date on which the tender are due to be submitted. For the purpose of calculating this period, the day on which the tenders are due to be submitted shall be excluded.

15. CPM NET WORK DIAGRAM

15.1 The time and progress chart to be prepared as per Condition 11 of General Conditions of Contracts (IAFW-2249) shall consist of detailed network analysis and a time schedule. The critical path network shall be drawn jointly by the Engineer in Charge and the contractor soon after acceptance of tender and using software's like MS PROJECT or PRIMAVERA or any other suitable software. The time scheduling of the activities shall be done by the contractor so as to finish the work within the stipulated time. On completion of the time schedule a firm calendar date schedule shall be prepared and submitted by the contractor to the GE who shall approve it after due scrutiny. The schedule shall be submitted in four copies within two weeks from the date of handing over the site. In case the contractor fails to submit the CPM network diagram, the network prepared by the Engineer in Charge shall be binding on him.

15.2 During the currency of the work, the contractor is expected to adhere to the time schedule and this adherence shall be a part of his/their performance under the contract. During the execution of the work, the contractor is expected to participate in the reviews and updating of the network undertaken by the Engineer in Charge. These reviews may be undertaken at the discretion of the Engineer in Charge, either as a periodic appraisal measure or when the quantum of work ordered on the contractor is substantially changed through deviation orders or otherwise. Any revision of the time schedule as a result of the review, shall be submitted within a week by the contractor to the Engineer in Charge. for his approval after due scrutiny.

15.3 The contractor shall adhere to the revised time schedule thereafter. In case of contractor disagreeing with revised schedule, the same shall be referred to the Accepting Officer whose decision shall be final, conclusive and binding. Engineer in Charge's approval to the revised schedule resulting in a completion date beyond the stipulated date of completion shall not automatically amount to a grant of extension of time. Extension of time shall be considered and decided by the appropriate authority mentioned in Condition 11 of IAFW-2249 and separately regulated.

SPECIAL CONDITIONS AND REQUIREMENTS (CONTD.)

- 15.4 Contractor is expected to mobilize and employ sufficient resources to achieve the detailed schedule within the broad frame work of the accepted methods of working and safety.
- 15.5 No additional payment will be made to contractor for any multiple shift work or other incentive methods contemplated by him in his work schedule, even though the time schedule is approved by the department.
16. **RELEASE OF ADDITIONAL SECURITY DEPOSIT.**
- 16.1 Refer Conditions 22 and 68 of IAFW-2249. In case the contractor, has to deposit additional security for the contract, it is advised to deposit the additional security in two equal parts so as to facilitate its release in accordance with condition 68 of IAFW-2249.
17. **SITE FOR EXECUTION WORK**
- 17.1 Site for execution of work shall be available as soon as the work is commenced on the date as mentioned in the work order No 1. However, in case due to unavoidable circumstances it is not possible to make the entire sites available on the date of the commencement, the contractor shall have to arrange his programme accordingly. No claim whatsoever for not getting the entire site on the date of commencement of work & for giving the site gradually shall be tenable.
18. **BLANK**
19. **SAFETY PRECAUTION**
- 19.1 The contractor shall take every safety precaution at the time of execution of the work and to control traffic of road keeping danger boards, necessary lighting arrangements, fencing and watchman to avoid any damage. In case due to excavation or others the road is to be blocked the contractor shall, without any extra cost to the Govt. provide separate bypass so that normal traffic is not disturb.
- 19.2 Any damages to the existing road/building etc., shall be made good by the contractor with the same specifications as per existing work, without any extra cost to the Govt. In the e Engineer in Charge, the Engineer in Charge may provide the same for which the expenses incurred shall be recovered from the Contractor.
20. **RECORD OF CONSUMPTION OF CEMENT**
- 20.1 The contractor shall maintain a pucca bound register with serially numbered pages with all pages initialled by Engineer in Charge against numbering showing quantities of cement records and used in the work daily and balance at the end of each day. The form of record shall be as approved by Engineer in Charge. The register shall be signed daily by the representative of MES and the contractor in token of verification of its correctness and shall be checked by Engineer in Charge, at least once a week and on the days cement is issued to the contractor.
- 20.2 The register shall be kept at site safe custody of the contractor representative during the progress of the work and shall on demand, be produced for verification to the inspecting officers.
- 20.3 On completion of the work the contractor shall deposit the cement register with the Engineer in Charge for record.
21. **REIMBURSEMENT /REFUND ON VARIATION IN TAXES DIRECTLY RELATED TO CONTRACT VALUE.**
- 21.1.1 The rates quoted by the contractor shall be deemed to be inclusive of all taxes (including Sales tax/VAT on materials, Sales Tax/VAT on Works Contracts, turnover tax, Service tax, Labour welfare Cess/tax etc.), duties, Royalties, Octroi & other levies payable under the respective statutes. No reimbursement/ refund for variation in rates of taxes, duties Royalties, Octroi & other levies, and/or imposition/abolition of any new/existing taxes, Royalties, Octroi & other shall be made except as provided in sub para 23.1.2 here-in-below.

SPECIAL CONDITIONS AND REQUIREMENTS (CONTD.)

- 21.1.2 The taxes which are levied by Government at certain percentage rates of contract Sum/Amount shall be termed as "taxes directly related to Contract value" such as sales tax/VAT on Works Contracts, turnover tax, Service tax, Labour welfare cess/tax and like but excluding Income tax. The tendered rates shall be deemed to be inclusive of all "taxes directly related to Contract value" with existing percentage rates as prevailing on last due date for receipt of tenders. Any increase in percentage rate of "taxes directly related to Contract value" with reference to prevailing rates on last due date for receipt of tenders shall be reimbursed to the Contractor and any decrease in percentage rates of "taxes directly related to contract value" with reference to prevailing rates on last due date for receipt of tenders shall be refunded by the Contractor to the Govt./deducted by the Government from any payments due to the Contractor. Similarly imposition of any new "taxes directly related to Contract value" after the last due date for receipt of tenders shall be reimbursed to the Contractor and abolition of any "taxes directly related to Contract value" prevailing on last due date for receipt of tenders shall be refunded by the Contractor to the Govt./deducted by the Government from the payments due to the Contractor.
- 21.1.3 The contractors shall within a reasonable time of his becoming aware of variation aware in percentage rates/and or imposition of any further "taxes directly related to Contract value" give written notice thereof to the Engineer in Charge stating that the same is given pursuant to this Special Condition, together with all information relating thereto which he may be in a position to supply. The Contractors shall also submit the other documentary proof/information as the Engineer in Charge may require.
- 21.1.4 The Contractor shall, for the purpose of this condition keep such books of account and other documents as are necessary and shall allow inspection of the same by a duly authorized representative of Government, and shall further, at the request of the Engineer in Charge furnish, verified in such a manner as the Engineer in Charge may require, any documents so kept and such other information as the Engineer in Charge may require.
- 21.1.5 Reimbursement for increase in percentage rates/imposition of "taxes directly related to Contract value" shall be made only if Contractors necessarily and properly pays additional "taxes directly related to Contract value" to the Government without getting the same adjusted against any other tax liability or without getting the same refunded from the concerned Government Authority and submits documentary proof for the same as the Engineer in Charge may require".

22. RETENTION MONEY/COMPENSATION FOR DELAY

- 22.1 Refer Condition 64 of IAFW-2249 (Advances on account) and Condition 50 of IAFW-2249 (Compensation for Delay).
- 22.2 For the purpose of calculating retention money and liquidated damages under condition 64 of IAFW-2249 and compensation for delay in completion of work under condition 50 of IAFW-2249, the value of contract as revised by above mentioned price variation under modified Condition 63 of IAFW -2249 shall be taken into account.

23. OFFICIAL SECRET ACT

- 23.1 Refer Condition 24 of General Condition of Contract IAFW-2249. The contractors attention is invited to Indian Official Secret Act 1923 (xxx of 1923) particularly Sec 5 thereof. The contractors shall be bound by the provision of this Act.

24. DAMAGE TO EXISTING STRUCTURE/BUILDING

- 24.1 Any damage caused to the existing structure during the execution of work shall be made good by the contractor at his own cost and the site of work left clean and tidy on completion. Rectifications/ making good etc. shall conform to the standard of materials originally used in the work and finished work shall match with existing work in all respects to the entire satisfaction of the Engineer in Charge. In case of any dispute on this account the matter shall be referred to the Accepting Officer whose decision in writing shall be final, conclusive and binding.

SPECIAL CONDITIONS AND REQUIREMENTS (CONTD.)**25. ROCK MET IN EXCAVATIONS**

25.1 If during excavation, rock is met with GE shall be informed of this in writing by the contractor. The nature/type of rock met with shall be decided by the Engineer in Charge, whose decision is final and binding. If the nature of rock met with is 'Hard Rock' the same shall be priced and paid as excavation in hard rock at the rates as applicable to this contract. Hard rock obtained from excavation shall be properly stacked, measured and recorded in measurement book and will be the property of the Contractor. Credit at the rate of Rs. 950.00 per cubic metre of hard rock obtained shall be recovered from the Contractor. The measurement shall be signed by Engineer in Charge and contractor. Hard rock obtained thus can be reused in the execution under this contract subject to fulfilment of requisite specification specified here-in-after and after written approval of Engineer in Charge.

26. ADVANCE ON ACCOUNT OF MATERIALS WHICH DOES NOT LOOSE IDENTITY

26.1 Refer Condition 64 of the General Condition of Contract (IAFW- 2249) Advance on Account for following materials will be paid:-

- | | |
|---|-----------------------------------|
| 1. TMT Bars and Structural Steel | 8. Steel Windows/Ventilators, |
| 2. Floor/Wall Tiles, | 9. Aluminium Items. |
| 3. Salt Glazed Stoneware Pipes, | 10 Sanitary Fittings, |
| 4. Cast Iron/Ductile Iron Pipes, | 11 Galvanised Iron Pipes, |
| 5. Electrical Fittings/Fixtures & Equipment | 12 Water Supply Fittings/Fixtures |
| 6. Steel Tubular Poles, | 13 Street Light Luminaries. |
| 7. Factory Made Door Shutters, | 14 Galvalume Sheet |

27. FEMALE LABOUR

27.1 If the contractor desires to employ female labour on works to be carried out inside the area of a Factory, Depot, Park etc and a female searcher is not borne on the authorised strength of the Factory, Depot, Park etc, at the time of submission of the tender, he shall be deemed to have allowed in his tender for pay and allowances etc. for a Female Searcher (Class (IV) servant/GP 'D' servant) calculated for the period, female labour is employed by him inside that area. If more than one contractor has/have to employ female searcher in addition to the authorised strength of the Factory, depot, park etc the salary and allowances paid to additional female searcher(s) shall be distributed on an equitable basis between the contractors employing female labour taking into consideration the value and period of completion of their contracts. The GE's decision in regard to the amount recoverable on this account from any contractor shall be final and binding.

28. GUARANTEE FOR ANTITERMITE TREATMENT

28.1 Should the GE at any time during construction or reconstruction or prior to the expiration of period of **10 (Ten) years** after the certified date of completion of work as per contract finds that buildings have been infested with termites, the contractor shall on demand in writing from the GE, specifying the building(s) complained or not with standing the same may have been inadvertently passed, certified and paid for forthwith under take to carry out such treatment as may be necessary to render (the said building) free from termite infestation at his own expense for period of ten years from the certified date of completion and in the event of failing to do so within a period to be specified by the GE in his demand aforesaid, the GE shall under take such treatment at the risk and expenses in respect of the contractor. The liability of the contractor under this condition shall not extend beyond the period of ten years from the certified date of completion unless the GE has previously given notice to the contractor. Conditions of contract (IAFW 2249) shall be deemed to be amended to the extent as mentioned above.

SPECIAL CONDITIONS AND REQUIREMENTS (CONTD.)

28.2 An amount of security deposit equal to the individual security deposit calculated, based on the amount of antitermite treatment at contract rates for the buildings for which treatment to be carried out shall be retained out of the final bill amount towards security deposit for antitermite treatment and will be refunded to the contractor after expiry of the period of ten years from the certified date of completion by the PM provided there are no termite infestation in the buildings. Conditions 10, 46 and 68 of General Conditions of Contracts (IAFW 2249) shall be deemed to be amended to the extent mentioned above.

29. GUARANTEE FOR WATER PROOFING TREATMENT

- 29.1 The period of guarantee for the water proofing treatment shall be ten years from the certified Date of completion. The Contractor shall be responsible for effectiveness of the water proofing treatment during this period and any leakage noticed therein during this period shall be made good by him at his own cost. The Contractor shall furnish guarantee in favour of the Garrison Engineer for the efficacy of the water proofing treatment during the guarantee period.
- 29.2 An amount of security deposit equal to the individual security deposit calculated based on the amount of water proofing treatment at Schedule 'A' rates for treatment carried out shall be retained from the contractor's final bill as security deposit for the water proofing treatment which shall be released to the contractor only after expiry of guarantee period. The contractor may alternatively furnish a fixed deposit receipt in favour of GE in lieu of sum to be retained as security deposit for water proofing treatment from any approved Schedule Bank.
- 29.3 Condition 46 of the General Conditions of Contracts (IAFW 2249) shall be deemed to be amended to the extent mentioned above.

30. ARBITRATION CONCILIATION ACT

- 30.1 The scope of conciliation shall be restricted to the following types of disputes with financial limits as indicated therein:-
- (a) Disputes relating to levy of compensation for delay in completion actual amount of compensation.
 - (b) Disputes relating to technical examination of works.
 - (c) Disputes relating to interpretation of the provisions of the contract with reference to their application to parties.
 - (d) Disputes relating to non return of Schedule 'B' stores over issued to the contractor.
 - (e) Any other disputes having fair chances of being resolved by conciliation and considered fit to be referred to conciliation by the parties.
- For item (b), (c), (d) and (e) each as stated above the financial limit shall be Rupees two lakhs or one percent of the contract amount whichever is less.
- 30.2. COMMENCEMENT OF CONCILIATION PROCEEDINGS
- 30.2.1. The party initiating conciliation shall send to the other party a written invitation to conciliate briefly identifying their subject of the dispute.
- 30.2.2. Conciliation proceedings shall commence when the other party accepts in writing the invitation of conciliate.
- 30.2.3. If the other party rejects the invitation, there will be no conciliation proceedings. If the party initiating conciliation does not receive a reply within 30 days from the date on which he sends or within such other periods of time as specified in the invitation he may elect to treat this as a rejection of the invitation to conciliate and if he so elects, he shall inform in writing the other party accordingly.
31. **NUMBER OF CONCILIATORS.** There shall be a Sole Conciliator.
- 31.1. **APPOINTMENT OF CONCILIATOR.** All disputes brought out in Para 27.1 (a) to (e) above shall be referred to the Sole Conciliator viz serving officer not below the rank of Superintending Engineer/Superintending Engineer (QS&C) having degree in Engineering or equivalent or having passed final/direct final examination of Sub Division II of Institution of Surveyors (India) to be appointed by the Chief Engineer Air Force Shillong or in his absence the officer officiating as Chief Engineer Air Force Shillong or in his absence the officer officiating as Chief Engineer Air Force Shillong specifically delegated by the Chief Engineer Air Force Shillong

SPECIAL CONDITIONS AND REQUIREMENTS (CONTD.)

- 33.2. STATUS OF EFFECT OF SETTLEMENT AGREEMENT. The settlement agreement signed by the parties as a result of conciliation proceedings shall have the same status and effect as it is an arbitral award on agreed terms.
34. **QUALIFIED TRADESMEN:**
- 34.1 The compliance with the Condition 26 of IAFW-2249 (General Conditions of Contract), the contractor shall employ skilled/semi-skilled tradesmen who are qualified and possessing certificate in particular trade from Industrial Training Institute (ITI)/National Institute of Construction Management and Research (NICMAR)/ National Academy of construction (NAC) Hyderabad Similar reputed and recognised Institute by State/Central Government to execute the works of their respective trade. The number of such qualified tradesmen shall not be less than 25% of total skilled/semi-skilled tradesmen required in each trade. The contractor shall submit the list of such tradesmen along with requisite certificates to Engineer in Charge for verification and approval. Notwithstanding the approval such tradesmen by, if the tradesmen are found to have inadequate skill to execute the work of their trades, leading to unsatisfactory workmanship, the contractor shall revoke such tradesmen within a week after written notice to this effect by **the Engineer in Charge** and shall engaged other qualified tradesmen after prior approval of Accepting Officer's decision whether a particular tradesmen possesses requisite qualification, skill and expertise commensurate with nature of work, shall be final and binding. No. compensation whatsoever on this account shall be admissible.
35. **CLEANING DOWN**
- 35.1 Refer Condition 49 of IAFW-2249 (General Conditions of Contracts).
- 35.2 The contractor shall clean all floor, walls, remove cement/lime/paint marks/drops, etc. clean the joinery glass panes etc., touch up all painters work and carryout all other necessary items of work in connection herewith and leave the whole premises clean and tidy before handing over the building(s).
36. **FEES CHARGABLE BY POLICE AUTHORITIES FOR VERIFICATION OF CHARACTER AND ANTECEDENTS**
- 36.1 Verification of Character and antecedents of Proprietor/Partners/Directors of the firm in connection with issue of tender and of Enlistment will be done by Govt. and accordingly payment to police authorities if any towards verification of character and antecedents shall be borne by the Contractor.
- 36.2 Verification of antecedents of Contractor's representatives/labour deployed at site in connection with execution of work under the contract, as per security requirement of User Unit/Installation shall be the responsibility of the contractor and all expenses in connection with verification of antecedents by Police Authority/Security Agency shall be borne by the contractor.

SIGNATURE OF CONTRACTOR

Dated :

**AGE (CONTRACTS)
FOR ACCEPTING OFFICER**

PARTICULAR SPECIFICATIONS**1.0 GENERAL**

1.1 The work under this contract shall be carried out in accordance with Schedule 'A' Part-I the particular Specifications, the drawings, forming part of the contracts and General Specifications and other provisions in MES SSR Part-I & MES SSR Part-II.

1.2 The terms "General Specifications" referred to here-in-before as well as referred to in IAFW-2249 (General Condition of Contracts) shall mean the specifications contained in the MES Schedule as mentioned above.

1.3 General Rules, specifications, special conditions and all preambles in the MES Schedule shall be deemed to apply to the work under this contract unless mentioned otherwise in these documents, in which case, the provision in these documents shall take precedence over the aforesaid provisions in the MES Schedule.

1.4 Particular specifications given here-in-after are brief and are only to particularise, amend or emphasize the aforesaid specification which are not repeated here. In case of any discrepancy between the two, specifications mentioned here-in-after shall take precedence over SSR.

1.5 The unit quoted by the tenderer shall be deemed to include for any minor details/items of work and/or construction which are obviously and fairly intended and which may not have been included in these documents but which are essential for the execution and entire completion of the work. In the event of any disputes, the decision of the Accepting Officer shall be final conclusive and binding.

2.0 SCOPE OF WORK

2.1 The Contract includes for the full, final and entire completion of the work described in Schedule 'A' specified in these particular specification of this tender.

2.2 Probable sources of materials are given in Appendix 'A' to particular specifications and contractor may bring material conforming to the specifications from other sources without any price adjustment. If the contractor proposed to use material from such sources these shall be approved in writing by the GE before procurement in bulk and incorporation in the work.

2.3 The work described in Schedule 'A' shall be carried out in the buildings as directed by the Engineer-in-Charge. The order preference of the buildings shall be ordered by the Engineer-in-Charge.

3.0 SAMPLES AND MATERIALS

3.1 All materials, articles and equipment incorporated in the work shall be brand new and shall be procured from the manufacturer's authorised agents of the manufacturer and these shall be brought at site in original packing. If any article is manufactured in more than one quality, the same of first quality shall be provided. These materials shall be got approved from the GE in writing before placing bulk order for incorporation in the works. Two samples of each article (Except heavy equipment articles for which the decision of GE shall be final and binding) shall be produced by the contractor for the approval of GE well in time, keeping in view the activities agreed in CPM chart. The approved samples shall be signed by GE as well as contractor representative and shall be kept in safe custody till the expiry of the defects liability period.

3.2 The material, articles and equipment of local origin referred to in SOURCE OF MATERIAL shall be procured from the sources indicated against each and shall conform to the quality and the grading specified in SSR/IS.

3.3 The materials, articles and equipments except materials listed in Particular Specification Section-II here-in-after shall bear ISI certification mark. If ISI marked materials are not available, then conforming to relevant IS and if conforming to IS are also not available then these shall be of best quality available in the trade as approved by the GE. The decision of the GE in this regard shall be final, conclusive and binding.

PARTICULAR SPECIFICATIONS (CONTD....)**4.1 GENERAL**

- (a) All work of internal electrification shall be executed by fully qualified licensed electricians all as per the latest engineering practice and latest IS codes/ IE Rules. Certificate of qualification shall be produced on demand by Engineer-in-Charge.
- (b) The exact position of electrical fitting and fixture shall be all as directed by Engineer-in-Charge at the time of execution without any price adjustment.
- (c) The runs of wires and locations of fittings shall be marked on walls and soffits of roof / floor slabs for the wiring before execution of the work for the approval of Engineer-in-Charge. The contractor may have to realign the wiring and/or relocate the fittings required for final approval at no extra cost to Govt. The entire work shall be completed on the basis of above approved layout.
- (d) Looping-in-system of wiring shall invariably be used through out the location in the buildings.
- (e) All equipments, fittings and accessories, materials etc, selected for the wiring installation shall conform to the relevant Indian Standards wherever these exist.
- (f) Contractor shall produce samples of all the fittings accessories, materials etc for approval by the GE, before incorporation in work.
- (g) Notwithstanding, then fact that an equipment has passed the inspection carried out during the stage of manufacture, the contractor is not relieved from his obligations to conform to the quality, workmanship, guarantee of performance etc.
- (h) Any defective material, equipment or workmanship which come to the notice of the GE or his representative after installation shall be liable for rejection and the contractor shall have to replace such materials, equipments etc or rectify the defects at his own cost.

5.0 CARRYING OUT REPAIR WORKS

5.1 The required number of tradesmen with their helpers and the contractor or his authorised representative will report to MES complaint station on every working day and will be available between 0900 hours to 1730 hours for receiving instructions to carryout the repairs works as required for day to day maintenance. They will note complaint(s) and obtain repairs slip(s) from Engineer-in-Charge or JE (E/M). All complaint shall be attended to from door to door of the users and in case contractor finds that house is locked and repairs work could not be carried out this aspect shall be reported at MES complaint station in the evening of each day. Next day or any other day as may be directed by the Engineer-in-Charge, the complaint(s) shall be again attended. For performance of the complaint (s) due to house locked the contractor will not be entitled for any compensation.

5.2 The contractor is required to attend every complaint within 12 hours on intimation and complete the repairs work. Where major repair is involved it must be done with in five (5) days. In case these complaints are not attended to within above stipulated period, compensation of Rs. 50.00 (Rupees Fifty only) per day complaint for each day (i.e 24 hrs) shall be recovered from the contractor and maximum recovery for this account shall of 10 (Ten) days. Major repairs shall be decided by the Engineer-in-Charge.

5.3 The contractor or his authorised representative is also required to obtain the completion of rectification of defects complaint(s) from the occupant of the building duly signed and dated as token of proof of satisfactory completion of work. The contractor will submit a statement showing details of items replaced and work carried out alongwith building number and corresponding complaint number at every 15 (fifteen) days which shall be recorded in the measurement book. The complaint chart such prepared shall be signed by both the parties. Old unserviceable material obtained shall be property of the contractor as per schedule of credit and serviceable material obtained shall be deposited in MES store yard.

PARTICULAR SPECIFICATIONS (CONTD....)**6.0 DISMANTLING / DEMOLITION / TAKING DOWN**

6.1 The work of dismantling/ demolition/ taking down shall be done carefully and in a workman like manner. Any damage done by the contractor or his workmen to the electric fittings and appliances fitted in the buildings etc while working shall be made good by him at his own expenses. In case it becomes inevitable, the contractor shall dismantle the fittings/ fixtures carefully and refix after carrying out repair. Nothing extra shall be paid to him on this account.

6.2 All the materials retrieved from demolition/ dismantling/ taking down shall become the Government property except those listed in Credit Schedule. The rates inserted by the MES or quoted by the contractor (whichever is more) shall be deemed to include removal or disposal of all waste materials from site of work and site shall be left clean and tidy to the entire satisfaction of Engineer-in-Charge.

7.0 SHEET METAL ENCLOSURES FOR MCB, ISOLATOR (DBs)

7.1 Sheet steel enclosure for mounting isolators and MCB's shall be fabricated out of steel as manufacturer Design and specifications and finished to steel stove enamel. Label channels shall be provided labeling out going corresponding to circuit. Two knock out of suitable dia shall be provided at top for incoming cables but at bottom number of ways, Bus bars shall be rates accordingly. Distribution boards (DB) shall be recessed in walls to become flush with wall. Proper marking shall be provided in the DB to indicate type in DBs.

7.2 **MCBs:** MCBs shall have silver tungsten contact clamp connections suitable for flush and surface mounting and shall be capable or being fixed directly on bus bars. MCB shall conform to IS-8828. The breaking mechanism shall embody both thermal over load and magnetic short circuit tripping devises having rupturing capacity 3 KVA minimum.

8.0 FLEXIBLE COPPER WIRE

8.1 The flexible copper wire shall be PVC insulated unseathed multi flexible wire copper conductor form make Finolex/ Havells/ Rich/ RPG/ Kalinga

9.0 ELECTRICAL WIRING**9.1 SCREW AND NAILS ETC**

All screw and nails used in the point/sub main wiring work shall be cadmium plated steel. Screw which are visible such as over switch boxes, laminated sheet top covers etc shall be of brass chromium plated.

9.2 SYSTEM OF WIRING

9.2.1 Wiring shall be of the type with conductor size as described in Schedule 'A'.

9.2.2 Cables used for point and sub main wiring shall be of FRLS variety with multistranded copper conductors and invariably be IS : 694 marked.

9.2.3 Wiring shall be done without any junction or connection boxes on line.

9.2.4 Special attention is drawn to termination of cable ends of point and sub main wiring cables. All exposed ends of multistranded cable, whether terminating at MCBs or switches (incl piano switches) or at electrical fitting shall be crimped together with suitable lugs using proper crimping tools. In exceptional cases where the Engineer-in charge is convinced that crimping/provision of lugs is not possible these ends shall be soldered together.

9.2.5 Proper colour coding viz red/yellow/blue wire for phases, black wire for neutral and green wire for earthing shall be adopted strictly in point wiring.

PARTICULAR SPECIFICATIONS (CONTD....)

9.2.6 The conduits shall be ISI marked and proper accessories at junction, bends and successive lengths shall be provided. For fixing of conduits and their accessories etc, PVC sleeves and cadmium plated screws shall invariably be used.

9.2.7 Joint between conduits and accessories shall be securely made to ensure earth continuity.

9.2.8 All the fan boxes shall be covered with 3mm thick plastic laminated sheet white and contractor's rate for the point for fan shall deemed to include for this provisions.

9.3 CIRCUITS

9.3.1 Each circuit shall have its separate neutral conductor originating from neutral bus bar in DBs.

9.3.2 IS-732 provides that in a lighting circuit not more than 10 points shall be connected and maximum load shall be 800 watts. Similarly two power lugs may be connected to one circuit with a maximum load of 2 Kw and power and light sub-circuits should be separate.

(a) All circuits and sub circuits shall be designed by making a provision of 20 percent increase in load due to any future modification.

(b) Not more than 8 light/fan point (etc) shall be connected to one circuit within the maximum load ceiling. This will allow scope of extension without over-loading and piecemeal changes. The incoming MCB should be a closely graduated one instead of indiscriminately putting a 6 Amps SP MCB in a lighting circuit. A spare way shall be kept in the DB to cater for extension.

(c) The power circuit with 2 normal power plugs be controlled by a 10 Amps SP MCB, thereby limiting the load to 2 KW approximately.

(d) In case of equipment like geyser, air-conditioners, water coolers etc only one power plug shall be connected to the circuit and protected by a suitable graded MCB.

(e) Lights and fans may be wired on a common circuit. In installations requiring the use of group control for switching operations, circuits for socket-outlets shall be kept separate from lights and fans. Even these may be wired to separate circuits if further separate group control is required on ground.

9.3.3 Cable markers/identification sleeves shall be provided in DBs to identify the cable leading to a particular circuit to avoid trial and error method for circuit identification during fault rectification. Proper colour code shall be followed so that phase, neutral and earth conductors can easily be identified.

9.3.4 In case of single phase circuits, it shall be ensured that the phase conductor is taken on the single pole switches in 'OFF' position. There should be no live conductor at the outlet controlled by that switch.

9.3.5 Power circuit and lighting circuit which have three pin type socket outlets shall have a separate earth wire for each circuit brought upto the earth terminals on the control boards from where the circuit originates.

9.3.6 Sub bus bar chambers shall be connected with two distinct cables with lugs and nuts/bolts. All circuits shall be planned in advance and got approved from the Engineer –in-Charge before execution and fixing the controls and fittings.

9.3.7 PVC insulated copper conductor cable as mentioned in Schedule shall run in the conduit/PVC Casing-capping as continuous earthing and connected to all light fittings, ceiling fans, sockets points and regulators. The cost of the same shall be deemed to be included in the unit rates of point wiring.

PARTICULAR SPECIFICATIONS (CONTD....)**9.4 SWITCHES/ SOCKETS**

9.4.1 Fittings for concealed wiring/surfaces wiring such as socket, outlets, flush type switches and the like shall be of high grade bakelite and or ISI marked. All other fittings shall be approved make as specified in Schedule 'A' and as approved by the GE.

9.5 CEILING ROSES – As specified in Schedule A and ISI marked ceiling rose shall be provided.

9.6 CAST IRON/ MILD/ STEEL BOXES

The boxes for fixing various fittings such as switches, socket, fan regulators etc shall be of cast iron or sheet metal of required size and flush mounting type (refer clause 6.52.4 of IS- 782). Average thickness of cast iron boxes shall not be less than 2.5mm. The cast iron box shall be embedded in the wall and need not be fixed to wooden plugs with counter sunk MS screw. The contractor may at his discretion provide galvanised MS screws. MS boxes shall not be less than 1.6 mm thick if supplied in lieu of cast iron.

9.7 The materials shall be also as follows:-

Srl No.	Material	Reference to para of MES Schedule Part-I
(a)	Cable, cords and earth lead	19.24
(b)	Cable for internal wiring for light fitting, power and sub mains	19.25
(c)	Conduit & conduit fittings	19.29
(d)	Ceiling rose	19.32
(e)	Socket outlet	19.40
(f)	Fluorescent tube light fittings and accessories	19.35
(g)	Sunk type boxes	19.38
(h)	Lamp holders	19.41
(j)	Distribution fuse boards and cutouts	19.44
(k)	Main switches	19.45
(l)	MCBs	19.46
(m)	Screws and fastenings	19.31
(n)	Wooden plugs and rawl plugs	19.30
(o)	Wooden battens, blocks and boards	19.28

9.8 **WORKMANSHIP:** Refer para 19.101 to 19.115 of MES Schedule (Part-I).

9.8.1 **GENERALLY:** CI sunken boxes shall be embedded in cement mortar (1:3) flush with the wall to a minimum depth of 100mm without wooden plug. Each box shall have earth dolly. Corners of these boxes shall 6mm thick.

9.9 TESTING

9.9.1 Wiring installation shall be tested as per IS-732 and test sheet in IAFW-1794-A dully signed by the contractor and Engineer-in-Charge shall be provided by the contractor in triplicate at no extra cost to the department.

9.9.2 TESTING OF EARTH CONTINUITY

The earth continuity conductor including metal conduits shall be tested for electric continuity and the electrical resistance of the same alongwith the earthing lead but excluding any added resistance or earth leakage circuit breaker measured from the connection with the earth electrode to any point in the earth continuity conductor in the completed installation shall not exceed one Ohm. The record sheets be signed by contractor and Engineer-in-Charge.

9.9.3 TESTING POLARITY OF SWITCHES

In a two wire installation, a test shall be made to verify that all switches in every circuit have been fitted in the same conductor through-out and such conductor shall be labeled or marked for connection to the phase conductor.

9.9.4 INSULATION TEST OF WIRING

On completion of installation, the insulation resistance of wiring shall be measured as specified in clause 19.146.1 of MES Schedule (Part-I). The insulation resistance & earth should be not less than 25 Mega Ohms divided by the number of outlets for PVC insulated cables. The records of tests shall be signed by contractor and Engineer-in-Charge.

9.10 **TERMINALS:-** In surface type wiring and concealed conduit wiring the terminal points for power/ light socket outlet switches etc shall terminate in recessed cast iron (mild steel) boxes fitted flush with wall surface. The cover of boxes for surfaces/conduit type wiring shall be plastic laminated sheet 3mm thick. Rates for points wiring shall be deemed to include for above provisions except for modular point wiring. All such terminal boxes shall be properly earthed and connected to earth dolly.

9.11 Test certificate shall be submitted for the various tests conducted in the factory as per relevant codes/ ISS.

10.0 CASING AND CAPPING

10.1 Casing capping shall be PVC non metallic of standard sizes of 25mm all as required. The weight of PVC casing capping of sizes 25mm shall not be less than 150gm/RM respectively. It shall be plain, parallel and smooth, fair finished, flawless and shall have proper press type self double looking design box type. PVC casing-capping shall be either white or off white or as approved by the GE. The PVC casing-capping shall be ISI marked and shall be of make as listed in Appx 'B' to particular specification.

10.2 Fittings and accessories for casing capping wiring shall be of PVC and shall have thickness not less than of casing capping itself as approved by the GE. These shall be designed and constructed to match with the corresponding sizes of casing capping.

10.3 These casing/ capping and fitting accessories shall be fixed to the surface of walls by means of PVC sleeves /dash fasteners with zinc plated steel screws at distance required for proper holding all as directed by the Engineer-in-Charge. However, in long runs this distance shall not exceed 75cms.

11.0 BLANK**12.0 PRODUCTION OF PURCHASE VOUCHERS**

12.1 The contractor shall produce the original purchase vouchers on demand to the Engineer-in-Charge for the materials incorporated in the work and Xerox copy of the same after defacing in the original vouchers shall be handed over to the Engineer-in-Charge.

13.0 MISCELLANEOUS

13.1 Unit rates quoted shall be deemed to allow for all minor extras and constructional details which are not specifically mentioned any wherein tender documents but are essential for the execution work to conform to good workmanship and sound Engineering practice.

13.2 In case of difference of opinion as to whether or not a certain item of work constitutes " Minor extra and constructional details" the decision of the Accepting Officer shall be final, binding and conclusive.

14.0 SAFETY PROCEDURE AND PRACTICES. Refer clause 19.2.7 of SSR Part-I (2009).

15.0 FIRE SAFETY. Refer clause 19.2.8 of SSR Part -I (2009).

16.0 MATERIAL AND SAMPLES

16.1 The main items to be incorporated in work like cables, switches, sockets, fittings, MCBs, DBs etc shall invariably be ISI marked. Where ISI marked products are not available in the country, these shall conform to relevant BS specifications.

16.2 Approval of GE referred to in clause 19.2 of MES SSR (Part-I) shall be in writing.

16.3 Samples of all materials, fittings & fixtures to be supplied by the contractor shall be submitted to GE for his approval. The contractor shall procure the items in bulk and commence the work only after the samples are approved in writing by the GE. The contractor shall ensure that all the materials incorporated in the work are identical in all respects. Samples approved and samples destroyed in testing shall be returned to the contractor after completion of contract. No payment shall be made for samples destroyed in testing.

16.4 Make of materials shall be as given in Appendix 'B', to particulars specifications.

16.5 All manufactured articles required for incorporation in work shall be brought to site in the manufacturer's original packing with the seal intact. The materials shall be procured from the manufacturers or their authorised dealers only and original purchase vouchers (duly machine numbered & bearing the ST/CST/TIN number) and manufacture's test certificates shall be submitted by the contractor to the deptt for inspection and perusal before approval of material. Incorporation shall be done after material is approved by GE in writing.

16.6 Executives and the contractor are to clearly understand the "sample approval" and "material approval" are two distinct activities & phase and proper record for both these activities in a proper sample & material approval register is to be kept.

16.7 Notwithstanding, the fact that an equipment has passed the inspection carried out during the stage of manufacture, the contractor is not relieved from his obligations to conform to the quality, workmanship, guarantee of performance etc.

16.8 Any defective materials, equipment or workmanship which may come to the notice of the GE or his representative after installation shall be liable for rejection and the contractor shall to replace such materials, equipments etc or rectify the defects at his own cost.

17.0 BLANK

18.0 BLANK.

19.0 PVC INSULATED SINGLE CORE 1100 VOLTS GRADE CABLE (PVC UNSHEATHED)

19.1 The conductor shall be of copper wires. The insulation shall be consisting of compounded polyvinyl chloride. The thickness of insulation shall not be less than normal value mentioned in appropriate table of IS-694. The insulation shall be applied by the extrusion process.

19.2 Cable for internal wiring for light power and sub mains shall be with copper conductor as mentioned in Schedule 'A'.

PARTICULAR SPECIFICATIONS (CONTD....)

19.3 Weather proof cables for house service connection shall be single core or twin flat/ with aluminium conductor conforming to IS-9968 (Part-I 1981 or IS-694 1977) as indicated.

19.4 The cable for wiring shall be from one of the following manufacturers as indicated in Appendix 'B' here-in-after and as approved by GE.-

20.0 LAYING AND JOINTING OF CABLES

20.1 The cable shall be laid and jointed as specified in SSR (Part-I) IS-1055 and in accordance with the instruction furnished by the cable manufacturers.

20.2 The cable shall be laid as per para 19-75 and 19-76 of SSR Part-I.

20.3 The sand for the purpose of cushioning and cover shall be fine sand and shall be provided as per Para 10.75 of SSR Part-I and as approved by the GE.

20.4 After brick protection covers are laid the remaining trenches shall be filled with excavated earth all as specified in Sch 'A'.

20.5 Whenever the cable has to cross the road, it shall cross on a skew to reduce the angle or bend as the cable enters and leaves the road crossing, GI pipe light grade of proper size shall be buried 1mtr below the road surface for drawing of cable. The ends of the pipe shall be plugged with bituminous compound so as to prevent entry of waste material.

20.6 The cable shall be snaked at all the joints and junction boxes. Snaking shall be as directed by the Engineer-in-Charge. Extra length on account of snaking shall also be measured under respective item of Sch 'A'. The quantity payable under Schedule 'A' shall be length of cable laid including length of snaking and no price adjustment shall be made for variation in quantities of connected (filled) item like sand cushioning and brick protection to cable.

20.7 JOINTING OF LT CABLES: -**20.8 TESTING OF CABLE**

20.8.1 Testing during Laying: - All new cables shall be mugged tested before jointing. After jointing is completed, all low voltage (LV) cables shall be mugged tested and high voltage (HV) pressure tested before commissioning. The cable shall be tested for: -

- (a) Continuity
- (b) Absence of cross holding
- (c) Insulation resistance between conductors.
- (d) Insulation resistance to earth.

20.8.2 **Testing after Laying and jointing:** - Immediately after the initial laying and jointing work is completed a high voltage test shall be applied to HT cables to ensure that they have not been damaged during or after the laying operations and that there is no flaw in jointing. The following tests shall also be carried out in all cables: -

- (a) Insulation resistance test - Sectional and overall.
- (b) Continuity test - Sectional and overall.
- (c) Full load test
- (d) Earth test.

21.0 MCCB and MCBs shall be of the rupturing capacity as described in Sch 'A'.

PARTICULAR SPECIFICATIONS (CONTD....)

21.1 MCB shall have quick made and break non-welding silver alloy contacts both on the manual and automatic operation. MCBs shall be of thermal magnetic type with inverse time delay over current tripping having a short circuit rupturing capacity as indicated in respective items of Schedule 'A' and if no rupturing capacity indicated in items of Schedule 'A' then it shall be of 10KA. In case Multiple type MCBs, the tripping must be on all the poles and operating handle shall be common. Pressure clamp terminals for stranded solid conductor insertion are acceptable upto 4 sq mm for copper and for higher ratings the terminals shall be suitably extended for bolted lugs connections. All terminals shall be suitably screwed. MCBs shall be housed in distribution board fabricated out of sheet steel and shall have IP-40 degree of protection to prevent entries of dust. Ample clearance between the conductors and sheet steel body shall maintained in order to obviate any chance of short circuit. Movable conduit entry plates shall be provided at top and bottom to facilitate drilling holes to suit individual requirement. The MCBs shall be mounted on a high grade rigid insulating support and connected by electrolytic copper bus bars phase separation barriers made out of arc resistant materials between the phase. Bus bars shall be colour coded for Phase identification and shall be PVC shrouded.

21.2 Suitable earth terminal shall be provided on the distribution board for bonding to earth.

22.0 STANDARD OF QUALITY AND WORKMANSHIP

22.1 All equipments and materials to be incorporated in this work shall be standard make of the company as indicated conforming to ISI and shall strictly comply with latest relevant ISI/BSS as the case may be and the same shall be got approved in writing by the GE.

22.2 Repairs/rewinding of motor and pumps shall be carried out all as described in Sch 'A' and in accordance with guideline, laid down in the relevant Indian Standards.

22.3 The contractor shall make all precautions against damage to the remain parts of motor/pump which are not required to be repaired/replaced. In case any damage is made to the remaining part, the same shall be good by the contractor without any extra cost to the department. All material are (other than those listed in Sch of credit) taken down/dismantling/replaced as per direction of Engineer-in-Charge and shall be the property of the Govt. Contractor shall segregate such material in to serviceable and unserviceable as directed by Engineer-in-Charge. Serviceable material shall be removed and deposited in MES Store Yard as directed. The cost of segregating material and deposit in MES store yard and disposal of unserviceable material shall be deemed to be included in the quoted rates by the contractor under Sch 'A'.

22.4 The contractor shall make all precautions regarding safety of his workman while carrying, repairs/replacement of motor/pumps.

22.5 Details in support of claims for payment against each items of Sch 'A' shall be attached/number of motor/pump, make and capacity etc without which the claim will not be entertained.

23.0 TIMELY PLANNING/PROCUREMENT ACTION BY CONTRACTOR

23.1 The Contractor shall have to submit detailed catalogues/pamphlets/drawings of major equipments to the Accepting Officer for approval within one month of placement of work order. The accepting Officer would convey his decision within two weeks and thereafter procurement action would be organized by the contractor and latest within twelve weeks of placement of work order, the contractor shall produce documentary evidence to the effect that he has placed orders for various equipments of makes specified in the tender on the manufacturer or his authorized dealer to the Accepting Officer

23.2 No foreign exchange shall be made available by the department.

23.3 Manufacturers test certificates as per ISS test procedures for items to be incorporated in work shall be submitted by the contractor.

24.0 EARTHING

24.1 MS boxes and alloying parts made of metal shall be bounded together and connected by means of earthing conductors to an efficient earthing system. All earthing shall be in conformity with IE rules. The earthing shall conform to IS-3043.

24.2 The electrical resistance measured between earth connection at the main distribution board and any other point on the completed installation shall be low enough to permit the passage of current necessary to operate circuit breakers and shall not exceed phase current. All metal clad switches and other equipment carrying single phase current shall be connected to earth by a single connection. All metal clad switches carrying medium voltage shall be connected with earth by two separate and distinct connections.

24.3 No earth pit shall be made within 1.5 meter of a wall or foundation. Effort shall be made to location them in grass lawns or near flower beds or water taps. The distance between two earthing pits shall be at least 2 meter.

25. TESTING ON COMPLETION

25.1 On completion, the electrical installation shall be tested jointly by the contractor and the Engineer-in-Charge as per IS-732 and the results, duly signed by both shall be submitted to GE for approval. Completion shall not be issued till testing is done and results approved by GE. The following tests shall invariably be done: -

- (a) Insulation resistance.
- (b) Earth resistance.
- (c) Testing of earth continuity path.
- (d) Testing of polarity of non-linked, single pole switches.

All arrangements incl labour, material and equipment required for testing shall be made by the contractor and no extra shall be admissible to him on this account since his quoted rates are deemed to include for these.

Signature of Contractor

AGE (Contracts)
For Accepting Officer

PARTICULAR SPECIFICATIONS (CONTD....)**LIST OF MAKES/MANUFACTURERS OF EQUIPMENTS/MATERIALS**

NOTE (Applicable to all items): Approved names of manufacturers of various items/equipment to be incorporated in this work unless otherwise specified in Schedule 'A'/BOQ and in particular specifications shall be as under and as specified here-in-before:-

SI No	Product	Approved makes
1	PVC Insulated cable 1100 V FRLSH Copper /Aluminium Conductor	Havells
		Polycab
		Anchor
		Grandlay Electricals
		KEI
		Finolex
		Gold Medal
2	PVC/XLPE insulated PVC sheathed Heavy duty armoured/ unarmoured cable upto 1100 Volts copper /aluminium conductor	Havells
		Polycab
		Gloster
		Gemscab Industries
		KEI
		Grandlay Electricals
3	PVC Conduit	AKG Plastics Pvt Ltd
		Finolex
		Presto Plast
		Gold Medal
4	Switch fuse / Change Over Switch	Havells
		L&T
		Legrand
		ABB
		Schneider
5	MCB, RCCB, RCBO & Distribution Boards for MCB & MCCB, Isolators, SPN enclosures	Legrand
		L&T
		ABB
		Schneider
		Gold Medal
		Havells
6	Switch/Buzzer/Socket/ Bell/ Ceiling Rose / Regulator Piano type/Plug top/Lamp holder	Havells Reo
		Legrand
		Schneider
		L&T
		SSK
		Anchor
		Gold Medal
7	Switch/Socket Regulator Modular Type	Havells (Carbtree)
		Anchor Penta PC
		Legrand
		L&T
		Schneider Zencelo
		Panasonic
		Gold Medal
		Honeywell
Polycab		

PARTICULAR SPECIFICATIONS (CONTD....)

SI No	Product	Approved makes
8	Exhaust /Ceiling Fans / Air circulation/ Wall Mounting Fan	Havells
		Bajaj
		Orient
		Usha
		Crompton
		Khaitan
		Polar
		V Guard
		Panasonic
		Gold Medal
9	Electronic type Fan Regulator	Legrand
		Havells
		Bajaj
		Orient
		Crompton
10	Water Heater (Geyser)	Jaquar & Company
		AO Smith
		Usha
		Bajaj
		Havells (Adonia Series)
11	LED Light Fittings for Indoor and Outdoor Use	Signify Innovations India Ltd (Brand - Philips & Ecolink)
		Orient Electric
		Bajaj
		Havells
		Halonix
		Philips
		Osram
		Wipro
		Syska
		Jaquar
		Surya Roshni
		Panasonic
		Crompton
Gold Medal		
12	BLDC Fans	Atomberg
		Havells
		Bajaj
		Crompton
		Orient
		Khaitan

Note: -

1. If no make is specified in the tender documents, the item shall be ISI marked. However, if no ISI marked materials / items are manufactured, the same shall be confirming to IS specifications or make as approved by the E-in-C's Branch, New Delhi /ADG/Command Chief Engineers.

2. Irrespective of whatever make is specified in Schedule 'A' or PS, any other make if approved by the Engineer-in-Chief/ADGs/Command Chief Engineers of MES may also be procured in the work subject to compliance with CA specifications.

Signature of Contractor

AGE (Contracts)
For Accepting Officer