CONTENT PAGE

NAME OF WORK: REPAIR AND MAINTENANCE OF COOLING APPLIANCES, SUMMER APPLIANCES, REFRIGERATION AND MISC WORK AT ALHILAL MIL STN

| Srl No. | Description | Page from | Page To |
|------------|---|-----------|---------|
| 1. | Contents page | 0 | 1 |
| 2. | Tender forwarding letter | 02 | 06 |
| 3. | Notice of tender including Appendix 'A' to notice of tender and amendments thereto | 07 | 14 |
| 4. | Tender and item rate contract for works by measurements (IAFW-1779A (Rev-1955) | 15 | 29 |
| 5. | Special conditions | 30 | 34 |
| 6. | Particular specification | 35 | 53 |
| 7. | List of drawings/buildings | - | , |
| 8. | General condition of contracts (IAFW-2249) (1989 reprint) including amendments/errata thereto | 54 | 113 |
| 9. | Schedule of minimum fair wages | 11 | 4 |
| 10. | Errata/Amendments to tender documents | | |
| 11. | Relevant correspondence, if any | | |
| 12. | Acceptance letter | | |
| | Total pages | | |

Drawing Sheet (if applicable)

NOTE:

Documents at srl No. 8 & 9 are not attached with the tender documents which will be seen in any of the MES office. These documents shall form part of contract agreement and be deemed to have been read by the contractor.

Signature of Contractor

Tele Civ: 01894-231421 FAX No: 01894-230025

E-mail: <u>gemesplp20@gmail.com</u>

Garrison Engineer Military Engineer Services Palampur (HP)-176061

REGISTERED POST

8001/GEP-48/2024-25/03/E8 **15 Oct 2024**

M/s-----

NAME OF WORK: REPAIR AND MAINTENANCE OF COOLING APPLIANCES, SUMMER APPLIANCES, REFRIGERATION AND MISC WORK AT ALHILAL MIL STN

- 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 systems. The contents of Cover I & Cover II are specified in NOTICE OF TENDER.
- 2. Bids will be received online by **GARRISON ENGINEER**, **PALAMPUR** up to the date 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 bonafied tender/bid.
- 3. Bid will be opened on due date and time fixed for opening in the presence of tenderers/bidders or their authorized representatives, 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/drawing and to clarify doubts, if any, on or before "Clarification end date" mentioned on the site https://defproc.gov.in for subject tender. You are requested not to write piece meal points and forward your points duly consolidated before "Clarification end date".
- 5. Un-enlisted 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 along with EARNEST MONEY DEPOSIT (EMD) and tender fee on https://defproc.gov.in portal and submit the physical documents in the office of **GE Palampur** 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 opening of bid. In case of failure to abide by any of these requirements, the bid will be treated as non-bonafide and bid will not be opened.
- (b) Within 28 days of receipt of letter of acceptance, the successful contractor shall required to deposit performance security in any of the form given in clause 19 of IAFW-2249 for an amount equal to 5% of the contract sum in favour of Accepting officer. Work order No 1 shall be placed only after submission of Performance Security of adequate value by the contractor. Failure of the successful contractor to comply with the requirements of sub-clause 19.1 of IAFW-2249 shall constitute sufficient grounds for cancellation of the award and forfeiture of Earnest Money. In case of MES enlisted contractor, ,amount equal to the Earnest Money stipulated in the Notice Inviting Tender, shall be notified to the tenderer for depositing the amount through MRO. Issue of tender to such tenderers remains suspended till the aforesaid amount equal to the Earnest Money is deposited in Government Treasury.

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 https://defproc.gov.in portal and submit physical documents in the office of **GE Palampur** 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 Contracts (IAFW-2249) (1989 Print) and errata and amendments thereto, Schedule of minimum fair wages and MES SSR 2009 Part-I-specifications and SSR 2020 Part-II rates are not enclosed with these documents. These are available for perusal in the Office GE Palampur.
- 11. Any tenderer, which proposes alterations to any of the condition, specification laid down in tender documents or any new condition, whatsoever, is liable to be rejected.
- 12. If contractor does not quote his rate against any item or "NQ" appears in rate/amount column,then it shall be deemed that rate quoted is Rupees Zero i.e. the contractor intends to execute the particular item at no cost basis (free of cost) to the Govt. Items and their quantities for which no rates or prices have been quoted shall be deemed to have been covered by the rates and prices quoted for the other items of bills of quantities. Hence contractors are advised to cross check his quoted rates in the BOQ before summiting bid online..No representation by the contractor on this matter shall be entertained by the department.
- 13. This letter shall form part of the tender documents

Yours faithfully,

Signature of Contractor

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 Palampur.
- (b) Receipted Treasury Challan, the amount being credited to the Revenue Deposit of Garrison Engineer Palampur.

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 well in advance of the bid submission end date and time. Earnest Money Deposit shall be submitted in the name of GE Palampur.

<u>NOTES</u>: Earnest Money Deposit (EMD) in the form of cheque/Bank Guarantee 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 letter of acceptance, the successful contractor shall required to deposit performance security in any of the forms given in clause 19 of IAFW-2249 for an amount equal to 5% of the contract sum in favour of Accepting officer. Work order No 1 shall be placed only after submission of Performance Security of adequate value by the contractor, Faiure of the successful contractor to comply with the requirement of sub clause 19.1 of IAFW-2249 shall constitute sufficient grounds for cancellation of the award of work and forfeiture of the Earnest Money. In case of MES enlisted contractor, amount equal to the Earnest Money stipulated in the Notice Inviting Tender, shall be notified to the tenderer for depositing the amount through MRO. Issue of tender to such tenderer shall remain suspended till the aforesaid amount equal to the Earnest Money is deposited in Government Treasury.

- 3 .All contractor enlisted with any MES formation and who have deposited the standing security deposited and have the standing security bond, fulfilling the eligibility criteria may tender witout depositing the earnest money.
- 4. EMD summated by all unsuccessful bidders shall be released immediately after acceptance of lowest bid. EMD of lowest bidder (in case if applicable) shall only be released after receipt of performance security.

5. **GENERAL INSTRUCTIONS FOR COMPLIANCE**

5.1 The bids received only in the electronic form will be considered. All bids shall be submitted on https://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 https://defproc.gov.in 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/initialed by the lowest bidder after acceptance.
- 5.4 Drawings, if issued in physical form, must be returned duly initialed 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 initialed. 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.
- In the technical bid, a scanned copy of Power of Attorney in favour of the person uploading 5.6 the bid using his/her DSC shall be uploaded. In case, the digital signatory himself is 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 of another partner(s) or on behalf of a firm or company using his 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 in case of 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 of 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/bid; 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 3 referred hereinafter and also conditions 24 & 25 of IAFW 2249 (General conditions of contract).

- 5.11 Tenders/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 "https://defproc.gov.in" site only before the bid closing time and date.

6. <u>REVOCATION/REVISION OF OFFER UPWARD/OFFERING VOLUNTARY REDUCTION, AFTER OPENING OF FINANCIAL BIDS BY LOWEST BIDDER</u>

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 Contractors, 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 the 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. C P M (CRITICAL PATH METHOD)

- 7.1 The project planning for work covered in the scope of tender is based on CPM.
- 7.2 The tenderer/bidder is accepted to be fully conversant with the CPM technique and employ technical staff who can use the technique in sufficient details. Sufficient books and other literature on the subject are widely available in the market which the tenderer,/bidder may make use of.
- 7.3 The tenderer's/bidder's attention is drawn to special condition of the tender regarding preparation of the detailed network analysis and time schedule for the work and his liability for employing sufficient resources to adhere to his schedule. Any inability on the part of the tenderer/bidder in using the technique will be taken as his technical inefficiency and will affect his class of enlistment and future prospect/invitation to tenders for future works.
- 7.4 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.

MILITARY ENGINEER SERVICES NOTICE INVITING TENDER (NIT)

- 1. A tender is invited for the work as mentioned in Appendix 'A' to this NOTICE INIVITING 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 of 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 the 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. In case, the Accepting officer decides to accept the lowest tender of bidder the tenderer would be required to lodge performance security deposit as notified by the accepting officer in any of the form given in General condition of contracts for an amount equivalent to 5% of the contract sum in any of the forms prescribed in condition 19.1 of IAFW-2249 within 28 days of receipt of the letter of Acceptance. Failure of the successful contractor to comply with the requirements of condition 19.1 of IAFW-2249 shall constitute sufficient grounds for cancellation of the award of work and forfeiture of the Earnest Money. In case of MES enlisted contractor, amount equal to the Earnest Money stipulated in the Notice inviting Tender, shall be notified to the tenderer for depositing the amount through MRO. Issue of tender to such tenderers shall remain suspended till the aforesaid amount equal to the Earnest Money is deposited in Government Treasury.
- 5. 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 relative who have business circumstances with a father and his son(s) or other close relation who have business dealing with one another be allowed to tender/bid for the same contract as separate competitors. A brech of this condition will render the tenders/bids of both the parties liable for reject.
- 6. The Office of **GE Palampur** will be the Accepting Officer here in after referred to as such for purpose of the contract.

7. Performance security

- 7.1 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 the contract sum.
 - (a) A Bank Guarantee in the prescribed form.
 - (b) Government Securities FDR or any other Government Instruments stipulated by the Accepting officer.
- 7.2 If the performance security is provided by the successful contractor in the form of Bank Guarantee. It shall be issued by Nationalized/Scheduled Indian Bank but its confirmation shall be done only the Head Office of the Bank.

MILITARY ENGINEER SERVICES NOTICE INVITING TENDER (NIT)

7.3 All compensation or other sums of money payable by the contractor to the Governments under the terms of this contract or under any other contract with Government may be deducted form or paid by the sale of a sufficient part of the Performance Security or from the interest arising there from or from any sums which may be due or become due to the contractor by the Government on any account whatsoever and in the event of his Performance Security being reduced by reason of any such deduction, or sale as aforesaid the contractor shall within ten days thereafter make good in cash or securities endorsed as aforesaid any sum or sums which may have been deducted from or realized by the sale of his Performance Security or any part thereof.

Government shall not be responsible for any loss of securities or any depreciation in the value of securities while in their charge nor for loss of interest thereon.

- 7.4 In the event of contract being cancelled under condition 52, 53 & 54 of General Conditions of Contract, the Performance Securities shall be forfeited in full and shall be credited into Consolidated Fund in India.
- 7.5 Refund of performance security: The performance security deposit referred above may be refunded to the contractor after expiration of the defect liability period or date of release of final bill which is later by GE provided always that the contractor shall first final bill have been paid and contractor have rendered a no-demand certificate (IAFW-451) (vide condition 46)

7.6 Bank Guarantee Bond against Performance Security

- 7.6.1 Condition 19.1 of IAFW-2249 provides for submission of Performance Security by the successful contractor in the form of Bank Guarantee Bonds or Govt. Securities, FDR or any other form of deposit stipulated by the Accepting Officer.
- 7.6.2 The full amount of Performance Security for each contract shall be given by the contractor in any one of the forms stipulated in Para 6.7.1 above, Mix of forms for Performance Security for same contract shall not be allowed.
- 7.6.3 If the Performance Security is provided by the successful contractor in the form of a Bank Guarantee. It shall be issued by Nationalized/Scheduled Indian Bank but its confirmation shall be done only from the Head Office of the Bank.
- 7.6.4 The period of validity of the Bank Guarantee Bond against Performance Security shall be upto and including the scheduled date of expiry of Defects Liability period plus minimum 60 days beyond that. In case final bill is not paid during this period, the contractor shall get the validity of performance Guarantee extended to cover such enlarged time required for payment of final bill.
- 7.6.5 In case at a later stage, on account of delay in completion of work or due to any other reason. It is considered that the validity date stipulated in the Bank Guarantee against Performance Security should be extended, and then the contractor shall be directed by the Accepting Officer of the contract to have the validity extended before the date of validity expires. If the contractor fails to do so, the Bank Guarantee shall be en-cashed before expiry.

MILITARY ENGINEER SERVICES NOTICE INVITING TENDER (NIT)

7.6.6 If any recovery is outstanding against the contractor, release of Bank Guarantee is subject to compliance of the procedure for effecting recovery/withholding the due amount as stipulated in condition 67 of IAFW-2249 as amended.

- 8. 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 / Bankers cheque 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 en-cashing the DD and shall not have any claim from Government whatsoever on this account..The applicant shall also renew or forward fresh DD / Bankers cheque at his own cost on demand by Accepting Officer in case of delay in tender action / postponement of tender / validity of DD / Bankers cheque expired.
- 8.1 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.
- 8.2 In case of contractor who has not executed the Standing Security Bond, the Cover-1 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 **GE Palampur** (see Appendix 'A') by a scheduled Bank or in receipted treasury Challan the amount being credited to the revenue deposit of the **GE Palampur** (see Appendix 'A').
- 8.3 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 the tender; but if the Accepting Officer accepts the tender/bid, the contractor will be required to lodge Performance security deposit as notified by the Accepting officer in any of form given in General conditions of contracts for an amount equivalent to 3% of the contract sum in term of condition of contract..
- 8.4 A contractor who has executed standing security Bond but not corresponding to the appropriate class as mentioned above, shall lodge Performance security deposit as notified by the Accepting officer in any of form given in General conditions of contracts for an amount equivalent to 3% of the contract sum in term of condition of contract..
- 8.5 **GE Palampur** will return the Earnest Money wherever applicable to all unsuccessful tenderers/bidders 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 bonafied tender/bid was received and all documents were returned.
- 8.6 **GE Palampur** will either return the Earnest Money to the successful tenderer/bidder by endorsing an authority on the deposit-at-call Receipt for its refund on receipt of an appropriate amount of Performance Security Deposit.
- 8.7 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 tenderer/bidder at the office of Accepting Officer at **GE Palampur** during working hours.

MILITARY ENGINEER SERVICES NOTICE INVITING TENDER (NIT)

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

- 10. 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.
- 11. 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.
- 12. Tenderers/bidders must be in possession of a copy of the MES Standard Schedule of Rates (see Appendix 'A') including amendments and errata thereto.
- 13. 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 / Bankers cheque. 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 Appendix 'A' to this **NIT**. The applicant contractor/bidder will be informed regarding non-validation of his 'T' bid assigning reasons thereof through the defproc website. The applicant contractor/bidder if he so desires may appeal to the next higher Engineer authority viz **HQ CWE Yol Cantt** (HP) on email **Id** vlpz4-mes@nic.in with copy to the Accepting Officer on <a href="mailto:e-mailto
- 14. The Accepting Officer reserves the right to accept a tender submitted by a 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 tenderer/bidder whose tender/bid is rejected.
- 15. Accepting Officer does not bind himself to accept the lowest or any tender/bid or to give any reason for not doing so.
- 16. This **Notice Inviting Tender (NIT)** including Appendix 'A' shall form part of the contract.

Signature of Contractor

APPENDIX 'A' TO NOTICE INVITING TENDER (NIT) (For Works Costing Less Than Rs. 50 crore and Specialist E/M Works Costing Less Than Rs. 5 Crore)

| 1. | Name of work | REPAIR AND MAINTENANCE OF COOLING APPLIANCES, SUMMER APPLIANCES, REFRIGERATION AND MISC WORK AT ALHILAL MIL STN |
|----|---|--|
| 2. | Estimated Cost | Rs. 15.00 Lakh (At Per Market) |
| 3. | Period of completion | 180.00 days |
| 4. | Cost of tender documents | Rs 500/- in the form of DD/Bankers cheque from any scheduled Bank in favour of GE Palampur and payable at Palampur (H.P). (Note: In case of retendering the contractor who had quoted in the previous |
| | | call is not required to submit the cost of tender) |
| 5. | Website/portal address | www.defproc.gov.in |
| 6. | Type of Contract | The tender shall be based on IAFW-1779A and General Conditions of Contracts (IAFW-2249) with Schedule 'A'. The contractor is required to quote their rates against each items of Schedule 'A' |
| 7. | Timeline details: | |
| | (a) Bid submission start | |
| | (b) Bid submission end date | Refer critical dates on the website. |
| | (c) Date of bid opening | |
| 8. | Eligibility Criteria | |
| | (A) For MES enlisted contractors | Contractors shall be enlisted with MES in Class 'E' and above and category c(i) subject to satisfactory remarks wrt performance in respect of Wks in hand as reflected in Work Load return (WLR) or any other report circulated by competent engineer authority. |
| | (B) For contractors not enlisted with MES | (i) Contractor not enlisted with MES should meet the enlistment criteria of 'E' class & category c(i) contractor with regard to satisfactorily completion of requisite value works with Central/State Government/Central/State PSUs/AWHO/AFNHB/CGEWHO/ DGMAP, annual turnover, bank solvency, working capital, and other requirement given in Para 1.4 & 1.5 of Section of MES Manual of Contracts 2020 as available in all MES formations as well as MES website (www.mes.gov.in) |
| | | (ii) Not carrying adverse remarks in Work Load Report (WLR) or any other similar report circulated by any competent authority, if already working in MES. |
| | | (iii) Not suspended/debarred/blacklisted (either permanently or temporarily) from participating in any bid or for business dealings by any Central/State Government Department or any Central/State Government PSU or any Autonomous Body under Central/State Government or any Local Body as on the bid submission end date. |

| | (c) Technical PQC criteria | In case of Solar Power Works and Runway / Pavements, technical PQC criteria as stipulated in Manual on Contracts and as per Policy letters issued by E-in-C's Branch from time to time shall be included suitably. |
|-----|--------------------------------------|--|
| 9. | Tender issuing and Accepting Officer | Garrison Engineer Palampur PIN-176061 Ph 01894 231421 Email ID gemesplp20@gmail.com |
| 10. | Execution agency | GE Palampur |
| 11. | Earnest Money | Rs 30,000/- in favour of GE Palampur in the form of Deposit at call receipt, FDR not acceptable |

NOTES:

- In case after opening of Cover 1, the number of MES enlisted contractors of eligible class as well as eligible unenlisted contractors, if any, fulfilling the other eligibility criteria give in NIT is less than 7 (Seven), applications in respect of MES contractors of one class or two classes (in case of remote and difficult areas to be decided as per list circulated by CE command/ADG) below the eligible class shall also be considered subject to fulfillment of other eligibility criteria given in the NIT. Therefore MES contractor's one class below (two classes below in case of remote and difficult areas) may also bid for this tender. Such contractors (contractors of one/two classes below the eligible class) shall not be considered in case their present residual work in hand is more than FIVE TIMES their present tender limit. However in case such contractors fulfill the criteria of up gradation to the stipulated eligible class based on past experience of completed works (individual works experience and/or average annual turnover, as applicable) and financial soundness (solvency/financial soundness and working capital), the ceiling of present residual work will not apply and the will be considered for issue of tender. Such bidders shall upload in their Cover-1 bid details related to residual work in hand like details of works in hand showing names of work, names of Accepting Officers, Contract amounts, date of commencement and completion (stipulated) and progress as on bid submission date. Such contractors, if claim to fulfill the criteria of up gradation shall also upload the requisite information/documents in support of up gradation. These details shall be verified by the Tender Issuing Authority from concerned formations in case bids of such contractors are considered for evaluation.
- In case after opening of Cover-1, the number of MES enlisted contractors of eligible class as well as un-enlisted contractors, if any, fulfilling the other eligibility criteria given in NIT, are 7 (Seven) or more, applications of only those one class below the eligible class bidders shall be considered, who have previously completed similar works satisfactorily and are meeting the criteria of up gradation in respect of past experience of competed works (individual work experience and/or average annual turnover as applicable) and financial soundness (solvency/financial soundness and working capital) as per details given in Manual on Contracts. Therefore such contractor shall upload the requisite information/documents in the Cover-1.
- 3. Un-enlisted contractor shall be considered provided he meets the criteria. Foreign firms shall not be eligible for this tender. However Indian Firms having foreign nationals / 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-1 for checking eligibility:-

- (a) Application for tender on Firm's letterhead.
- (b) Enlistment letter issued by the Registering Authority duly renewed for the cycle period in vogue.
- (c) Scanned copy of DD / Bankers Cheque toward cost of tender and EMD instrument in case SSD bond in not signed at the time of registration.
- (d) Copy of Provident Fund Code number.
- (e) Copy of GST Registration number

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 letterhead.
- (b) Scanned copy of DD / Bankers cheque toward 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 the 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) List of all other documents required can be obtained from GE Office during working hours.
- 6. Tenders not accompanied by scanned copies of requisite DD/Bankers Cheque towards cost of tender and earnest money (as applicable) in Cover-1 shall not be considered for validation of 'T' bid and their Financial Bids will not be opened.
- 7. Contactors should ensure that their original physical DDs and Earnest Money Deposit (EMD) instruments (as applicable) reach the office of Accepting Officer within **five days (05)** of bid submission end date (*The number of days to be mentioned shall be as decided by the Accepting Officers, but it shall not be less than 5 days) failing which following action shall be taken:-
 - (a) In case of tenders from an enlisted contractor of MES, 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 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 tenders from un-enlisted 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 contractors, where scanned copies of instruments for Earnest Money Deposit (as applicable) have been uploaded in Cover-1but the same are not received in physical form within stipulated period, 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 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 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 date of communication failing which their financial bid (Cover 2) shall not be opened contractor shall not have any claim on the same.
- 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 to 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 criteria given in Appendix. Tender / bidder will be informed regarding non-validation of his Technical bid assigning reasons therefore through tender evaluation report which shall be uploaded on the website. Such tender, if desires, may appeal to the next higher Engineer Authority (NHEA) viz . HQ CWE Yol Cantt on e-mail Id ylpz4-mes@nic.in with copy of the Accepting Officer on emails i.e. Garrison Engineer Palampur on e-mail Id gemesplp20@gmail.com 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 tender / bidder shall not be entitled for any compensation whatsoever for rejection of his bid.

11. In case an un-enlisted contractor is already executing works in MES, he shall not be considered eligible for the subject tender if the total value of such works is more than twice the tendering limit of the MES Class of contractor for which it is eligible. For this purpose, details of works being executed by such a contractor shall be uploaded in the Cover-1 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 revised BOQ (i.e he has quoted on pre revised BOQ), such bid shall be treated as willful negligence by the bidder and his quotation shall be considered non-bonafide. In such cases 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 upward 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 un-enlisted tenderer having deposit the Standing Security Bond, 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 works 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 of 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. **Performance Security**: Within 28 days of receipt of the letter of acceptance, the successful contractor shall deliver to the Accepting Officer a performance security an amount equivalent to 5% of the contract sum.
- 16. **Jurisdiction of Courts**: Court of the place from where the tender has been issued 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 of IAFW-2249 shall be applicable

Signature of contractor.

No: 8001/GEP-48/2024-25/02/E8

Garrison Engineer Military Engineer Services Palampur (HP) – 176061 AGE (Contracts)
For Garrison Engineer

Dated:15 Oct 2024

DISTRIBUTION:

1. CE Pkt Zone 2. CWE Yol 3. CWE Mamun 4. CWE Pkt 5. GE (KH) Yol 6. GE Dalhousie 7. GE Mamun 8. GE E/M Mamun 9. GE (P) Mamun 10. GE (S) Pkt 11. GE (AF) Pkt 12. GE (W) Pkt 13. AGE (I) Dharamshala.

REGISTERED:

MES Builders Association of India (Regd.), PO Box No. 69, Gandhi Nagar, Jammu (J&K) MES Builders Association of India (Regd.), Old Subji Mandi, Dhangu Road, Pathankot (PB)

MES Builders Association of India (Regd.), Near Piru Singh Chowk, Yol Cantt

IN LIEU IAFW-1779A (REVISED 1955) (To be used and read in conjunction with General Condition of Contracts IAFW-2249 (1989 Print) MILITARY ENGINEER SERVICES

Garrison Engineer Military Engineer Services Palampur (HP)

8001/GEP-48/2024-25/03/E8

15 Oct 2024

| NAME OF V | NORK: REPAIR | AND MAINT | ENANCE OF | COOLING | APPLIANCES, | SUMMER | APPLIANCES |
|-----------|---------------------|------------------|------------------|---------|---------------|--------|-------------------|
| | REF | RIGERATION | AND MISC | WORK AT | ALHILAL MIL S | TN | |

| 1 | Shri/M/S | of is/a | are |
|---------------|---|---|-----|
| hereby | authorized to tender for the above mentioned work. | | |
| 2. | The tender is to be uploaded on MES website https://defpro | oc.gov.in refer critical dates. | |
| 3. | All correspondence must be returned to this office whether or | not the tender has been submitted. | |
| 4. quoting | All correspondence concerning to this tender shall be address the reference as given. | sed as indicated on the top of this lette | er |
| | THE PRESIDENT OF INDIA DOES NOT BIND HIMSELF TO ANY TENDER. | ACCEPT THE LOWEST TENDER O | ЭR |
| | | | |
| | | | |
| | | | |
| Signa | ure of Contractor | AGE (Contracts) For Garrison Engineer | |

SCHEDULE 'A'

NOTES:-

1. The **Schedule 'A'** of this contract has **two parts** as under:-

(i) Schedule 'A' Part-I: (E/M Works).

(ii) Schedule 'A' Part-II: (Credit of old materials retrieved from demolition/dismantling).

For Schedule of items of these part, refer BOQ sheet in Excel format which is part of the tender documents. The quantities shown under column 3 of BOQ are provisional and are inserted as a guide only. However these quantities shall not be varied beyond the limits laid down under condition 7 of IAFW-2249. The total amount quoted by the tenderers in BOQ shall be carried over to General Summary manually and the contract sum shall be arrived at after deducting amount of schedule of credit (if applicable) from the total quoted amount in BOQ.

- 2. The BOQ has not been pre-priced by the MES. The tenderers shall calculate their own unit rate for each item independently and quote their rates in figures only in the BOQ and submit the same online only. The total amount so arrived at shall be manually carried forward to the General Summary at the place provided for it. The total amount so arrived at shall not be firm but will be treated as "Contract sum" as per condition 6 (A) of IAFW-2249.
- 3. The description of the items of works as given under Col 2 in the BOQ in the excel format is in brief and shall be read in conjunction with particular Specifications, Specifications contained in Standard Schedule of Rates including preamble therein, Special Conditions, General Specifications and drawings including notes therein.
- 4. The rates for all items shall be for "Material and Labour" or "Supplying and Fixing" including connecting, testing, commissioning unless otherwise specifically described as "Labour only" and/or "Supplying only" and/or "Fixing only" for any particular item in the description of item under Col 2.
- 5. <u>Period of Completion</u>: The entire work under this contract shall be completed in an overall period of **180 days** from the date of commencement of work as ordered in Work Order No.1 to be placed by GE Palampur.
- 6. The unit rates for each item quoted by tenderer shall be deemed to include all taxes, levies etc imposed by Govt. and controlling authorities of the area time to time. The unit rates quoted by tenderer shall also be deemed to include the cost of all minor details, processes and operations which may not have been mentioned or shown on drgs but which are essential for the satisfactory completion of the work in a sound and workman like manner. In case of any difference of opinion between GE and contractor as to whether or not certain items of works constitute (s) minor details, which are included in the contractor's contract sum, the decision of Accepting Officer shall be final, conclusive and binding.
- 7. Method of measurement for all items listed in Schedule 'A' shall be as given in MES Standard Schedule of Rates unless specifically stated otherwise hereinafter for any item of work particularly.
- 8. The material obtained from demolition/dismantling shall be stacked at site for the verification and inspection of the Engineer-in-Charge/GE. The serviceable material shall be reused in the same work to the extent approved by Engineer -in-Charge/GE as per the description of the item of Schedule 'A'. The balance-retrieved material shall be the property of the contractor and shall be credited to the contractor as per Schedule of credit. The material so credited will be removed from the site after written permission of Engineer -in-Charge. The material obtained from demolition but not covered in Schedule of credit shall be the property of Govt. and shall be deposited in MES Store Yard of Engineer -in-Charge without any extra cost to the Govt. The debris obtained from demolition/ dismantling shall be disposed off to a distance exc. 250m but not exc. 500m and shall be deposited in low lying area as directed by the Engineer-in-Charge.
- 9. The site/buildings for execution of work will be made available to contractor immediately after acceptance of tender. In case all the buildings mentioned in the contract are not readily available in one go, the contractor will organized his resources/working program accordingly. The contractor shall have no claim what so ever later on, on account of non handing over of all the buildings in one go.

SCHEDULE 'A'(Contd....)

10. Please note that the least quoted rate shall be considered for acceptance for all the common nature of item of Sch 'A'.

- 11. As per Government of India, Ministry of Labour and Employment New Delhi Circular No 35025/02/2014-SS II dated 15 Jul 2015, it is mandatory for the contractor that all the workers deployed by him are enrolled as members of provident fund and should be given Universal Account Number (UAN).
- 12. It shall be mandatory for the Engineer -in-charge that while clearing the bills/payments (RAR) of contractor, a certificate be obtained from the contractors that all workers employed by him directly or indirectly are registered from EPF and the due contributions have been credited into their accounts. Contractor shall submit details of EPF submitted along with each RAR to Engineer -in-charge.
- 13. "<u>Taxes, duties & levies etc (refer Special Condition for Reimbursement/refund on variation in</u> "Taxes directly related to contract value')".

The contractor's quoted rates shall be deemed to be inclusive of all taxes/cesses viz GST, duties, royalties, octroi and other levies payable under respective statutes as applicable on the date of receipt of tender. It may be noted that any tender imposing any condition in this regard or on any other account shall be treated as a conditional tender and the same shall be liable to be rejected.

- 14. It is mandatory for the contractor to credit the wages of his worker /labourers through their Adhaar linked bank accounts and also submit the details /proof of the disbursement of wages to his worker/labourers employed by him to Engineer -in-charge before claiming RAR/Final bill of the work done.
- 15. <u>Defect Liability Period</u>. The defects liability period shall be twelve calendar months after the works have been handed over to Government (hereinafter referred to as the "defects liability period").
- 16. Performance Security: The bidder shall deposit performance security deposit @ 5% of contract sum in the form of FDR or BGB in favour of GE Palampur within 28 days from date of receipt of acceptance letter for a validity period up to 60 days beyond the date of completion of defect liability period. Failure of the successful contractor to comply with the requirements of condition 19.1 of IAFW-2249 shall constitute sufficient grounds for cancellation of the award of work and forfeiture of the Earnest Money. In case of MES enlisted contractor, amount equal to the Earnest Money stipulated in the Notice inviting Tender, shall be notified to the tenderer for depositing the amount through MRO. Issue of tender to such tenderers shall remain suspended till the aforesaid amount equal to the Earnest Money is deposited in Government Treasury.
- 17. **SCOPE OF WORK** The tender comprising the maint services. Work shall be carried out at **Palampur Mil Stn**.
 - (a) <u>Maint Pgme 2024-25</u>:- REPAIR AND MAINTENANCE OF COOLING APPLIANCES, SUMMER APPLIANCES, REFRIGERATION AND MISC WORK AT ALHILAL MIL STN

Signature of Contractor

SCHEDULE 'A' PART-II SCHEDULE OF CREDIT

SCHEDULE OF CREDIT FOR RETRIEVED MATERIALS FROM DEMOLITION/DISMANTLING

NOTES:-

- The items covered in this Schedule shall become the property of the contractor who shall be responsible to remove them outside the site of work at his cost after written permission of Engr-in-Charge and when the recovery for the said material have made from running account receipt or final bill whichever is earlier. In no case materials shall be allowed to accumulate on the site of work. The serviceable items dismantled/ demolished but not covered under this Schedule shall be returned to MES store Yard of **AGE E/M of GE Palampur** at no extra cost to the Government. The unserviceable materials not covered under this Schedule shall be removed from site of works as directed by Engineer-in-Charge at no extra cost to the Government.
- 2 Measurements for the dismantling shall be taken jointly by MES representative and the contractor and shall be recorded in measurement book.
- Quantities shown under Col 4 are provisional and inserted as guide only. However, these shall not be varied beyond the limits laid down in condition 7 of IAFW-2249 (General Conditions of Contract).
- Full quantities as obtained from dismantling /demolition of items irrespective of their serviceability shall be considered under this Schedule.

| Srl | Brief description of items | Unit | Qty | | Amount in | Remarks |
|-----|---|------|--------|--------|-----------|---------|
| No | | | | Rs | Rs. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. | Old unsv compressor of any capacity | Each | 14.00 | 700.00 | 9800.00 | |
| 2. | Old unsv relay any type and capacity | Each | 11.00 | 10.00 | 110.00 | |
| 3. | Old unsv condenser coil | Each | 13.00 | 150.00 | 1950.00 | |
| 4. | Old unsv freezer assembly | Each | 11.00 | 50.00 | 550.00 | |
| 5. | Old unsv thermostat | Each | 11.00 | 20.00 | 220.00 | |
| 6. | Old unsv gas regulating valve | Each | 1.00 | 5.00 | 5.00 | |
| 7. | Old unsv starting and running capacitor of any capacity | Each | 1.00 | 5.00 | 5.00 | |
| 8. | Old unsv condenser 1.5/2.5/4 mfd | Each | 238.00 | 2.00 | 476.00 | |
| 9. | Old unsv fan regulator | Each | 200.00 | 2.00 | 400.00 | |
| 10. | Old unsv DB 4/8 way, sheet metal enclosures etc | Each | 33.00 | 20.00 | 660.00 | |
| 11. | Old unsv copper winding of E/F or C/F of any size | Kg | 69.00 | 250.00 | 17250.00 | |
| 12. | Old unsv MCB SP/SPN/TPN of any cap | Each | 179.00 | 6.00 | 1074.00 | |
| 13. | Old unsv sub main wiring any type any size | RM | 400.00 | 15.00 | 6000.00 | |
| 14. | Old unsv E/F | Each | 45.00 | 100.00 | 4500.00 | |
| 15. | Old unsv copper conductor wire of any size | RM | 400.00 | 2.00 | 800.00 | |
| 16. | Old unsv switch/socket/plugtop | Each | 355.00 | 10.00 | 3550.00 | |
| | TOTAL OF SCHEDULE "A" PART-II C/O TO SUMARRY PAGE No. 28 | | | | 47350.00 | |

Signature of Contractor

SCHEDULE 'B' (LIST OF MATERIALS TO BE ISSUED TO THE CONTRACTOR) (See condition 10 of IAFW-2249)

| S. No. | Description of the store | Rate at which material etc. will be issued to contractor | | Place of issue (By name | Remarks |
|-----------|--------------------------|--|------|----------------------------|---------|
| | | Unit | Rate | | |
| 1 | 2 | 3 | 4 | 5 | 6 |

- NIL -

Signature of Contractor

AGE (Contracts)
For Garrison Engineer

SCHEDULE 'C' LIST OF TOOLS AND PLANTS (OTHER THAN TRANSPORT) WHICH WILL BE HIRED TO THE CONTRACTOR

(See condition 15, 34 & 35 of IAFW-2249)

| S. No. | Qty | Particulars | Details of crew | Hired Charges per unit | Stand by charges per unit off day | Place of issue | Remarks |
|-----------|-----|-------------|--------------------|---------------------------|---|----------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

-NIL-

Signature of Contractor

AGE (Contracts)
For Garrison Engineer

SCHEDULE 'D' TRANSPORT TO BE HIRED TO THE CONTRACTOR

(See condition 16 & 35 of IAFW-2249)

| Srl No. | Qty | Particular | Rate per unit per working hour | Place of issue (By name | Remarks |
|------------|-----|------------|-----------------------------------|-------------------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 |

-NIL-

Signature of Contractor

TENDER

THE PRESIDENT OF INDIA

1. Having examined and prepared the following documents:-

Specifications signed by AGE (Contracts) Drawings detailed in the specifications. Schedule 'A', 'B', 'C' & 'D' attached hereto.

- 2. MES Standard Schedule of Rates 2009 (Part I) and 2020 (Part II) including amendment Nos **1 to 3** for Part-I and amendment Nos **1 to 122** for Part-II respectively, here-in-after and in IAFW-2249 referred to as the MES schedule.
- 3. General condition of contracts (IAFW-2249) (1989 reprint) together with amendment No. 1 to 49 and errata No. 1 to 20.
- 4.* Water condition 31 of IAFW-2249 (General condition of contracts). Water will be supplied by the MES at point shown on site plan or as decided by GE and shall be paid for by the contractor @ Rs. 3.75 per thousand of work done.
- 5.* (a) That the sum of **Rs. 30,000/- (RUPEES THIRTY THOUSAND ONLY)** forwarded as earnest money shall either be retained as a part of security deposit or be refunded by the Govt. on receipt of the appropriate amount of security deposit all as per condition 22 of IAFW-2249.
 - (b) To execute all the works referred to in the said documents upto the terms and conditions contained or referred to therein at the item rate contained in the aforesaid schedule or at such other rates as may be fixed under the provisions of Condition 62 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 under condition 70 of IAFW-2249 to the sole arbitrator or having passed the final/direct final examination of sub/division-II of Institute of Surveyors (India) to be appointed by Chief Engineer, Pathankot Zone, Pathankot or in his absence the officer officiating as Chief Engineer, Pathankot Zone whose decision shall be final, conclusive and binding.

| *To be deleted wherever not applicabl | *To | be deleted | l wherever | not a | oplicable |
|---------------------------------------|-----|------------|------------|-------|-----------|
|---------------------------------------|-----|------------|------------|-------|-----------|

|--|

GENERAL SUMMARY

| 1. | Total of Sch 'A' Part- I B/F from Srl page No. 24 | : Rs | |
|----|--|------------------|-----------|
| 2. | Less Total amount of Sch of Credit amount B/F from srl page No. 25 | : (-) R s | 47,350.00 |
| | Net amount C/O to next page No 29 | : Rs | |

Signature of Contractor

GENERAL SUMMARY (CONTD.....)

| Total brought forwarded from Serial Page No. 2 | 8 for the contract sum of Rs |
|--|---|
| (Rupees | |
| |) |
| Signature | in the capacity of PROPERIETOR/PARTNER duly |
| authorized to sign the tender for and on behalf or | f M/S |
| | Postal Address |
| | Telephone Number |
| Witness | |
| | <u>ACCEPTANCE</u> |
| made before the execution of the contract agree | een made in these documents and as evidence that these alterations were ement, these have been initialed by the contractor and Sh. Bipan Kumar horised to sign and initial on my behalf the documents forming part of this |
| The above tender was accepted by me on behal | f of the President of India for the contract sum of Rs |
| (Rupees | |
| Dated thisday of |) |

Appointment: Major Garrison Engineer Accepting Officer (For and on behalf of the President of India)

SPECIAL CONDITIONS

1. **GENERAL**: The following special conditions shall be read in conjunction with general condition of contracts (IAFW-2249) (1989 reprint), if there are any provisions in the above mentioned documents, the provisions in these special conditions shall be deemed to take precedence. Work shall be carried out in accordance with the drawings and particulars specifications read in conjunction with specifications, general conditions, special conditions and all preambles contained in MES Standard Schedule of Rates, 2009 (Part I) for Specifications and 2020 (Part II) for rates. The term general conditions used in any of the document forming part of this contract referred to the specifications contained in the above schedule.

- 2. **VISIT TO SITE OF WORK**: The tenderers are advised to visit the site of work with prior permission of the GE and make himself familiar with the working conditions, accessibility of site, availability of materials and such other relevant conditions which may effect the execution and completion of work.
- 3. <u>MINIMUM FAIR WAGES/PAYMENT TO LABOUR</u>: The contractor shall have no claim on account of any legal regulation or otherwise, he required to pay wages to in excess of minimum fair wages shown in the schedule of minimum fair wages under condition 58 of IAFW-2249.
- 4. PAYMENT OF WAGES TO CONTRACT LABOUR AS RESULT OF APPLICATION OF CONTRACT LABOUR REGULATION AND ABOLATION ACT, 1970: If the Labour Ministry desires to enforce the provisions of the contract labour act for payment of the same to contract labour as that of the labour employed by the principal employer viz. MES, the difference in wages as payable under condition 58 of IAFW-2249 read in conjunction with condition 63 of IAFW-2249 and that payable under the preferred to above would borne entirely by the Govt. less first 10% as per condition 63 of IAFW-2249.
- 5. MINOR DETAILS OF CONSTRUCTIONS: contract lump sum prices and unit rates shall be deemed to include for full and entire completion of all works and as described here-in-after in accordance with good engineering practice and recognized principles. Details of constructions which are obviously and fairly extended and are essential for completion of work but which may not have been shown on drawings or mentioned to be included in prices tendered by the contractor, such details shall be furnished during currency of work. Decision of the accepting officer shall be final and binding.
- 6. CONTRACTOR'S REPRESENTATIVE AND WORKMEN: The contractor shall employ an Indian Nationals and verify their antecedents and loyalty before employing them on the work. He shall ensure that no person of doubtful antecedents and nationality is in any way associated with workers. If for reasons technical collaborations other considerations, the tenderer shall furnish full particulars to the Accepting Officer at the time of submission of tender, the GE shall have full powers and without giving any reasons to enquire the contractor immediately to cease to employ in connection with this contract servant and workmen or employees whose continued employment in his opinion is undesirable. The contractor shall not be allowed any compensation on this account. The contractor shall permit free accommodation and offered normal facilities and usual conservancies to other agencies or departmental workmen to carry out connected works or otherwise services under separate arrangements. The contractor shall not be allowed any extra payment on this account.
- 7. **RECORD OF CONSUMPTION OF CEMENT**: For the purpose of keeping a record of cement issued and consumed in works, the contractor shall maintain a properly bind register (Separately for each site) in the form approved by Engr-in-Charge showing daily receipt from MES, quantity used in work and balance quantity in hand. The register shall be signed by the contractor's representative in token of correctness of the entries made. It shall be signed in token of check by the MES representative as follows also:-

Daily by JE-in-Charge of supervising works, Engr-in-Charge will carry out check of the balance in hand at least twice in a month.

This register shall be kept at site in the safe custody of contractor during progress of work and shall on demand produce the same for clarification of inspecting officer.

SPECIAL CONDITIONS (Contd.....)

8. <u>CLEANING DOWN</u>: The contractor shall clean all floors, remove cement, lime/paint drops, clean joinery, glass panes etc. touchup all painted works and carry out all other necessary items of work to make the premises clean and tidy before handing over the buildings.

LAND FOR STORAGE OF MATERIALS, TEMPORARY WORKSHOP, OFFICES AND ACCOMMODATION FOR LABOUR ETC: No separate land shall be allotted to the contractor for storage of

materials and temporary workshop, offices, accommodation for labour etc. The land/open space adjoining in between the proposed works site may be used as directed by GE for storage of materials, tools and plants, temporary workshop, offices. No labour camp will be allowed in Ministry of Defence land. The rent for land proposed to be allotted as stated above shall be charged @ Re. 1/- (Rupee one only) per year or part thereof, in respect of each and every separate area of land allotted to contractor.

- 10 **STANDARD OF WORKMANSHIP**: To determine the acceptable standard of workmanship, the contractor shall execute certain portion of work and services in sample bays soon after the receipt of work order to commence the work. These samples on approval by GE shall be guiding samples for the other works. Other works not conforming to the approved samples will be rejected.
- TIME AND PROGRESS CHART CRITICAL METHOD: The time and progress chart be prepared as 11. per condition 11 of IAFW-2249 (General condition of contracts) shall consist of detailed new work analysis and time schedule. The critical path network will be drawn jointly by GE and contractor soon after acceptance of tender. The time schedule of the activities will be done by the contractor so as to furnish the work within the stipulated time. On completion of time schedule and firm calender date schedule will be prepared and submitted by the contractor to GE who will approve it after scrutiny. The schedule of first 60 days shall be prepared and submitted within 10 days of acceptance of tender and the programme for the remaining work shall be prepared within 60 days from the date of work order. During the currency of work the contractor is expected to adhere to the time schedule and this adherence will be the part of contractor's performance in the reviews and updating of the network undertaken by the GE. These reviews may be undertaken at the description of GE either a periodic approval measure or when the quantum of work ordered on the contractor is subsequently changed through deviation orders or amendments. Any deviation of the schedule as a result of a review will be submitted by the contractor to GE within a week who will adhere to the revised schedule thereafter. In case of contractor disagreeing with the revised schedule, Accepting Officer's decision will be final, conclusive and binding. GE's approval to the revised schedule resulting in completion date beyond the stipulated extension time, extension of time shall be considered as decided by the Accepting Officer mentioned in condition 11 of IAFW-2249 and the contractor shall mobile and employ sufficient resources to achieve the decided schedule within the based time frame of the accepted method of working and safety. No additional payment will be made to the contractor for
- any multiple soft work or other incentive methods contemplated by him in his work even though the time schedule is approved by the department.
- 12. **VALIDITY OF TENDER**: This tender shall remain open for acceptance for a period of 60 days from the date on which the tenders are due to be submitted.
- 13. MATERIALS & SAMPLES: The contractor is advised to inspect the samples of local building and other materials maintained by the GE before submitting his tender. He will be deemed to have full knowledge thereof whether he inspects these or not. The materials to be provided by the contractor shall confirm these samples. All materials including the materials referred to above shall be comply with the requirements of relevant Indian Standard including the

latest amendments as on the date of issue of tender, the contractor shall produce samples of these materials and get them approved by the GE before commencement or work. In case goods complying ISI identification marks will be given preference over materials that not bear ISI certification marks.

14. **PROPRIETARY MATERIALS**: The contractor shall purchase the proprietary materials such as paint, bitumen, water proofing compound, tarfelt etc. from the manufacturers sealed container to ensure the quality of material. Bitumen shall be purchased from manufacturer only. Original vouchers for proprietary articles such as paint, water proofing compound, bitumen, sealing compound and chemicals for anti-termite treatment etc. shall be produced by contractor on demand by the Engr-in-Charge and corresponding entries shall be in the measurement books.

SPECIAL CONDITIONS (Contd.....)

15. **LOYALITIES**: Condition 14 of IAFW-2249 stand deleted in toto and substitute as under: "No quarries in the defence land will be permitted."

- 16. <u>SUPPLY OF WATER: Reference condition 31 of IAFW-2249</u>: MES shall supply water to the contractor at point(s) shown on site plan and shall be paid by the contractor @ Rs. 3.75 per Rs. 1000/- of work done priced at contract rates, the contractor's special attention is drawn to the fact that the MES water supply is likely to be made during restricted hours only and therefore he shall make necessary arrangements for storage of water at his own expenses. The contractor shall have no claim what so ever on the Govt. on account of water supply being intermitted or insufficient in quantity.
- 17. **ELECTRIC SUPPLY**: (a) In case the contractor desires to but electricity from MES, shall be charged for electric supply consumed at the following rates:-
 - (i) At Rs. 8.80(Rupees eight and paise eighty only) per unit for light.
 - (ii) At Rs. 8.80 (Rupees eight and paise eighty only) per unit for power.
 - (b) Electric supply required for work shall be made available by MES at the incoming terminal for the main switch marked on the site plan. The main switch and KWH meters to register electric energy supplied shall be provided and installed by MES. The contractor shall provide all necessary cables and fittings etc. for main switch in order to ensure a proper and suitable supply of electricity for the execution of work.
 - (c) The MES do not guarantee for the continuity of supply and no compensation what so ever shall be allowed for supply being intermitted or break down in the system.
- 18. **SECURITY OF CLASSIFIED DOCUMENTS**: Contractor's special attention is drawn to condition 2-A and 3 of IAFW-2249 (General conditions of contract). The contractor shall not communicate any classified information regarding the work either to sub contractor or other without prior approval of the Engr-in-Charge. The contractor shall also not make copies of the design drawings and other documents furnished to him in respect of work and he shall return all drawings and documents on completion of work or earlier termination of the contract. The contractor alongwith final bill attach a certificate from Engr-in-Charge in respect of having returned the classified documents as per conditions of IAFW-2249 (General conditions of contract).
- 19. **OFFICIAL SECRET ACT**: The contractor shall be bound by the official secret act and particularly section 6 thereof.

20. **SECURITY AGAINST LOSS/DAMAGE**:

- (a) <u>Contractor's T&P at site</u>: The contract shall furnish to the Engr-in-Charge every morning distribution return of his plant/equipments on the site work stating the following particulars:-
- (i) Particular of plant/equipments, its manufacturer No., model No., Registration No., if any, capacity, year of manufacture, year of purchase, etc.
- (ii) Total No. (Quantity) on the site work.
- (iii) Location indicating (Quantity) of each location on the site work.
- (iv) Purchase value on the date of purchase for the purpose of the condition of plant/equipment shall include vehicle i.e. truck and lorries but neither the workmen's tools or any manually operated tools/equipments.

The Engr-in-Charge shall record the particulars supplied by the contractor in the work diary and send the return to GE for record in his office.

- (b) Loss or damage on account of enemy action: If as a result of enemy action the contractor suffer any loss or damage to the extent on the manner herein after provided:-
 - (i) The loss suffered by him on account of any damage or destruction of his plant/equipment (As defined in special condition 20 (a) above) or materials or any part or parts thereof, the amount of loss assessed by the Accepting Officer of the contract on this account shall be final and binding.
 - (ii) The compensation paid by him under any law of the being in force to any workmen employed by him for any injury caused to him or to the workmen's legal successors for loss of workmen's life.
 - (iii) Payment of compensation for loss or damage to any work or part of work carried out. The amount of compensation shall be determined in accordance with condition 48 of IAFW-2249.

SPECIAL CONDITIONS (Contd.....)

(v) No reimbursement shall be made not shall any compensation is payable under the above provisions unless the contractor had taken air defence precautions recorded in starting by GE/OC concerned or in the absence of such orders, reasonable precautions. No reimbursement shall be payable not shall any compensation payable for any plant/equipment or material not laying on site of work at the time of enemy action.

- 21. **RESTRICTION FOR ENTERY INTO WORK SITE**: (a) The work site is in UNRESTRICTED AREA. However, the contractor and his agents, servants, work people and vehicles may pass through the unit lines in which case the Engr-in-Charge shall at his discretion have the right to issue passes to control their admission to the site of work, or any part thereof. The contractor shall, on demand by the Engr-in-Charge admit a list of personnel etc. concerned shall satisfy the Engr-in-Charge as to the bonafides of such people. Passes shall be returned at any time on demand by the Engr-in-Charge and in any case or on completion of the work.
- (b) The contractor and his work people shall observe all the rules promulgated from time to time by the authority controlling the area on which the work is to be carried out viz. prohibition of smoking and lighting, fire precautions,

search of people on entry and exit and keeping specified route etc., restricted hours of working. Any person found violating the security rules laid down by the authority shall be immediately expelled from the area without assigning any reasons what so ever and the contractor shall have no claim on this account, nothing shall be admissible for any damage or loss on this account.

22. COVID-19 PRECAUTIONS:

Due to prevailing situation of country, the Covid-19 precautionary measures as issued by Govt. of India, HP state authority, local Army Authority should be strictly followed by contractor and his employee's in all respect. The periodical medical checkup and testing etc should be carried out as per guidelines issued by local Army Authority/state Govt/Central Govt and necessary record should be maintained. The rate quoted by the contractor should be deemed to be inclusive all of these. Nothing shall be paid on this account.

23. Tendered rates shall inclusive of all taxes and levies payable under the respective statutes. However, pursuant to the Constitution (Forty sixth amendment act, 1982), if any further tax levy is imposed by statutes, after the last date for receipt of tender, and the contractor there upon necessarily and properly pays such tax, the contractor shall be reimbursed the said amount so paid, provided such payment, if any not in the opinion of CWE (Whose decision shall be final and binding), attributable to delay in execution of work within the control of contractor.

The contractor shall, for the purpose of this condition keep such books of accounts and other documents as are necessary shall allow inspection of the same by a duly authorized representative of Govt. and further shall, at the request of the GE, may require any document so kept and such other information as the GE may require.

The contractor shall within the reasonable time his becoming aware of imposition of any further tax or levy pursuant to the Constitution (Forty sixth amendment Act, 1982) give written notice thereof to the GE that the same is given pursuant to this condition, together with all information's relating thereof which he may be in a position to study.

24. <u>RE-IMBURSEMENT/REFUND ON VARIATION IN "TAXES DIRECTLY RELATED TO CONTRACT VALUE</u>:-

(a) The rates quoted by the contractor shall be deemed to be inclusive of all taxes/cesses viz. **GST**, 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/cesses, duties, royalties, octroi & other levies shall be made except as provided in sub Para (b) here-in-below.

SPECIAL CONDITIONS (Contd.....)

- (b) (i) The taxes/cesses which are levied by Govt. at certain percentage rates of contract sum/ amount shall be termed as "taxes directly related to contract value" such as GST, Labour welfare cess/tax and like as applicable 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 rates 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 Govt. from any payments due to the contract. 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 Govt. from the payments due to the contractor.
 - (ii) The contractor shall, within a reasonable time of his becoming aware of variation in percentage rates and or imposition of any further 'taxes directly related to contract value", give written notice thereof to the GE stating that the same is given pursuant to this special condition, together with all information relating there to which he may be in position to supply. The contractors shall submit the other documentary proof/information as the GE may require.
 - (iii) 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 Govt. and shall further, at the request of the GE furnish, verified in such a manner as the GE may require, any documents so kept and such other information as the GE may require.
 - (iv) Reimbursement for increase in percentage rates/imposition of "taxes directly related to contract value" shall be made only if the contractor necessarily & properly pays additional "taxes directly related to contract value" to the Govt. without getting the same adjusted against any other tax liability or without getting the same refunded from the concerned Govt. Authority and submits documentary proof for the same as the GE may require".

Signature of Contractor

PARTICULAR SPECIFICATIONS

1. GENERAL

1.1 (a) Work under this contract shall be carried out in accordance with Schedule 'A', Particular specifications, drawing, General Specifications and other provisions in MES Standard Schedule of rates 2009 Part-I and SSR-2010 Part-II(here-in-after called MES Schedule) read in conjunction with each other.

- (b) Term "General Specifications" referred to here in before as well as referred to in IAFW-2249 (General conditions of contracts) shall mean the specifications contains in the MES Schedule Part-I.
- (c) General Rules, specifications, special conditions and all preambles in the MES Schedule shall be deemed to be applicable to the work under this contract, unless specifically stated otherwise in these documents in which case the provisions in these documents shall take precedence over the aforesaid provision in the MES Schedule. The "Term as Specified" wherever appears in the tender documents and drawings, relates to relevant particular specifications and in its absence general specification. All reference to MES Schedule (Standard Schedule of Rates) in these specifications relate to Part-I of MES Schedule unless otherwise mentioned. Reference to only some paragraphs of MES Schedule has been made in these particular specifications but other paragraphs and provisions as applicable are also to be followed for all parts of Sch 'A' even-though not particularly mentioned here-in-after.
- (d) Where specifications for any item of work are not given in MES Schedule or in this particular specifications, specifications as given in relevant Indian Standard of code of practice shall be followed.
- (e) Rate quoted for particular item by the tenderer shall be deemed to include for any minor details/items of work and/or constructions 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, Decision of Accepting Officer as to whether any minor details of work and/or construction is obviously and fairly intended be included in the contract or not shall be final conclusive and binding.
- 2 **SCOPE OF WORK**: The work consists of items as described in Sch 'A'.
- 2.1 **GENERAL REQUIREMENTS**: Refer clause 19.2.1. To 19.2.8 of MES Sch 'A' Part-1.
- 2.2 **TYPE OF WIRING**: The type of wiring shall be as Sch'A" and directed by the Engineer-in-Charge. Point wiring for light/power/ fan/bell or buzzer point(s) includes all works mentioned in preambles to the rates in MES Schedule part-II for point wiring unless otherwise indicated in these tender documents.
- 2.3 **SITING OF ELECTRIC EQUIPMENT**: The sitting of cable, conduit run controls, distribution boards, fittings and accessories etc. shall be as laid down in IS-4648. "Guide for electrical layout in residential building" or as directed by the Engineer-in-Charge. The location of fittings etc shall be marked in advance on walls etc and approved by the Engineer-in-Charge.
- 2.4 **SYSTEM OF WIRING**: Wiring shall be carried out with PVC insulated cable. All conductors as far as possible shall run near walls and ceiling so as to be easily accessible and capable of being thoroughly inspected. Power wiring shall be kept separate and distinct from light wiring. In all type of wiring due consideration shall be given for neatness, good appearance and safety. Diagonal runs will not be permitted.

PARTICULAR SPECIFICATIONS (Contd......)

2.5 **CONTROL AT POINT OF ENTRY OF SUPPLY**:

These shall be linked with main switchgear (Isolator) with MCB on each live conductor of the supply mains at the point of entry. The wiring through out the installation shall be such that there is no break in the neutral wire except in the form of linked switchgear. No fuses shall be inserted in the earth neutral.

3 WORKMANSHIP & TESTING

- 3.1 Irrespective of whatever mentioned in tender documents all work under this contract shall be executed by authorized manufacturer firm and all as per manufacturers' instructions including testing, each part repaired/replaced and complete machinery etc for efficient improved functioning as per tests certified by the manufacturers and records of tests shall be recorded jointly. Relevant IS should be followed as applicable.
- 3.2 Original paid vouchers and test certificate of material/items/spares required for work under this contract shall be produced.
- 3.3 Each item to be repaired/overhauled will be handed over as per CPM Chart to be prepared jointly by the contractor and Engineer-in-Charge (to be approved by GE). Further item will be handed over only after testing of previous item on date as shown in CPM chart and work not be delayed due to this beyond date of completion of work, Contractor is liable for compensation in terms of IAFW-2249 general Conditions of contract.

4.0 INSPECTION REPORT

4.1 After opening the compressors a joint inspection will be carried out by the Engineer-in-Charge and contractor to ascertain the nature of work to be carried out and defective parts which are to be replaced. The same shall be countersigned by the GE and record to be produced.

5. EARTHING:

- (a) Earthing shall be all as per ISS, IEE Regulations and electrical plate NO.5 in MES Schedule Part-I. The contractor shall obtain the approval of GE for layout of earthing before the commencement of work and it shall be executed in the presence of an authorised MES representative.
- (b) The earth plate shall be of GI of size 600mm x 600 mm x 6.3 mm placed vertically with its top not less than 1.5 m below the ground and shall be surrounded with charcoal dust to packed thickness 30 mm around the plate (i.e. below above & outward) on all sides.GI wire/strip capable of withstanding mechanical & electrical stresses soldered with GI earth plate shall run upto the bottom of the plate.
- (c) The Charcoal dust & return filling shall be done in layers not exceeding 150 mm and shall be properly watered and rammed. Surplus soil shall be disposed off & site left clean and tidy on completion.
- (d) All earth electrodes shall be tested for earth resistance by means of standard earth megger. The tests shall take place in dry months preferably after a protracted dry spell.
- (e) The resistance of earth electrode shall not exceed 5 ohms. In case the resistance of electrode exceeds 5 ohms due to soil conditions then the earthing shall be carried out through another method as per IS-3043-1987 & cost variations adjusted through a deviation order. The decision regarding this will be given by the GE which shall be final & binding.
- (f) The cost of CI cover and frame, concrete pit etc, shall also be included in threat of this item

6.0 STANDARD AND QUALITY OF ELECTRICAL WORK

- 6.1 The entire electrical work under this contract shall be carried out in strict compliance with these specifications and in conformity with the provisions contained in the latest edition (including amendments) of Indian Electricity Rules 1948.
- 6.2 All equipments and materials to be used in the work shall have ISI mark on them as are available in the market. However if equipments and materials with ISI mark are not available, the equipments and materials supplied by the contractor shall comply with relevant ISS and if relevant IS has not been issued, these shall comply with current relevant BSS unless otherwise specified in these tender documents.

PARTICULAR SPECIFICATIONS (Contd......)

- 6.4 In case tenderer's offer conforms to standard specification other than ISS / BSS, copies of such standard specification with English translation and salient points of comparison between the two standards shall be submitted alongwith the tender.
- 6.5 Approval of the GE as referred to in Clause 19.2.1 of MES Schedule Part I (2009) shall be in writing. Approved samples shall be labelled as such and signed by both the contractor and the GE. The sample shall be kept in the custody of the GE till the final completion of the work, except for high value items for which the required quantity is not more than five.
- 6.6 The materials shall be brought to the site by the contractor in the manufacturer's original packing with seal intact or with makers wrapper on and shall not be installed unless approved by Engineer-in-Charge / GE.
- 6.7 Tenderer is free to choose any of the makes mentioned in the Appendix 'C', however he shall give in writing along with the submitted tender, the make selected by him in his offer. In absence of such letter, the decision of Accepting Officer shall be final and binding.
- 6.8 All the materials and equipments shall be of the best class and quality and shall have to be capable of satisfactory operation in the tropics under hot and humid atmospheric conditions. The installation shall strictly comply with the provisions contained in the latest edition of Indian Electricity Rules.
- 6.9 The workmanship shall be of the highest grade and the entire construction shall be in accordance with the best modern engineering practice.
- 6.10 All similar materials and removable parts of similar equipments shall be interchangeable with each other. The equipments should be designed to facilitate inspection and repairs and ensure satisfactory operation under the atmospheric conditions prevailing at site, under sudden variations of load and voltage as may be met with under different working conditions in the system.

7 to 10 BLANK

11. TESTING OF ELECTRICAL INSTALLATION:

- (a) All the electrical installation shall be tested by the contractor in presence of Engineer-in-Charge as specified in MES Sch Part-I. Test results shall be recorded duly signed by the contractor and Engineer-in-Charge of the following:-
- (i) Earth Test
- (ii) Continuity test
- (iii) Insulating resistance test.
- (iv) The installation shall be taken one only when the Engr-in-Charge has ensured the installation has been certified as per the laid down rules of the Indian Electricity Act and IE rules

12.0 NUT, BOLTS AND WASHERS

12.1 All nuts, bolts and washers to be fixed shall be new GI and standard quality and shall be fixed as directed by manufacturer & by Engineer-in-Charge.

13.0 REPAIRS AND OVERHAULING OF AC COMPRESSORS

13.1 After repairs, the compressor shall be thoroughly checked and leak proof system ensured before connecting the compressor with refrigerant system. After repairs, compressor shall be pressure tested by charging nitrogen gas at 200 PSI pressure and after test compressor should be left on pressure for minimum 24 hours and if no leak is observed then vacuum test shall be made and compressor shall be left on vacuum for minimum 8 hours. After successful completion of pressure and vacuum test, Refrigerant and oil shall be charged free of cost by the department. Contractor shall rectify without any extra cost to the department, if any defects noticed during testing or within defect liability period of one year from the date of completion.

PARTICULAR SPECIFICATIONS (Contd.....)

- 13.2 After charging of compressor oil and gas the compressor shall be tested under actual working conditions for 8 hours continuously.
- 13.3 In addition to above, unit rates quoted also include any testing as recommended by manufacturers. All tests records jointly signed by the contractor and GE shall be produced.

14.0 OVERHAULING OF OIL PUMP COMPRESSOR

- 14.1 Overhauling of oil pump compressor shall be carried out as given in Schedule 'A', as per manufacturer's instructions to improve performance and record shall be produced by testing jointly.
- 14.2 Make of the part to be replaced should be ISI marked where applicable and or as recommended by the manufacturers.
- 14.3 Unit Rate quoted shall be inclusive of cost of cleaning agents, etc. all as specified in Schedule 'A'.

15.0 PRESSURE TESTING OF AC PLANT

15.1 Pressure testing of AC plant shall be carried out as specified in Schedule 'A' and complete as per manufacturer's instructions and records of test shall be recorded jointly by the contractor and Engineer-in-Charge and testing should be done to the entire satisfaction of Engineer-in-Charge and defects seen during testing shall be rectified and recommended by the manufacturers and relevant IS should be followed as applicable. Replaced parts shall be of same make as existing.

16 NITROGEN GAS

- 16.1 Nitrogen gas shall be contractor supply and the rate quoted for respective Sch 'A' items shall be deemed to include the cost of nitrogen gas.
- 16.2 Quantity of nitrogen gas shall be checked by weighting method for each cylinder for which necessary testing facility shall be provided by the contractor at his own cost. Result of the test shall be recorded jointly.

17.0 ELECTRIC WORK

- 17.1 All electrical work shall be carried out through licenced electrician as per applicable clauses of MES SSR & IE rules & IS provisions.
- 17.2 Material shall be ISI marked.
- 17.3 All cables shall be copper conductor & ISI marked.
- 17.4 Cubical panel shall be as per sch 'A', factory pressed without welding, partitions shall be nut bolted revetted, adequate distance in each fitting shall be maintained. Panel shall be factory oven painted. Make of LT panel shall be of **CPRI approved make.**

18.0 MISC

18.1 All other items such as butter fly, gate, liquid lines walls packed type forged brass, suction/discharge stop valves, cover tubes and other valves shall be relevant ISI marked and matching with the existing item and as directed by Engineer-in-Charge.

19.0 SUPPLY OF SPARES

- 19.1 All material shall be new & as approved by GE.
- 19.2 Original paid vouchers test certificates & challan/Gate pass from manufacturer shall be produced.

PARTICULAR SPECIFICATIONS (Contd.....)

20.0 REFRIGERANT GAS (FREON GAS)

20.1 The Freon gas R-22/R-134A used in the work shall be of approved make and shall be as per IS specifications and ISO certification. The contractor shall produce copies of paid vouchers, test certificate for the Freon gas used in the work.

20.2 All statutory instructions promulgated by Govt. of India, Ministry of Environment of Forests vide S.O NO. 670 (E) and amendments there to shall be strictly followed in supply of refrigerant gas being Ozone depleting substance.

21.0 JOINT INSPECTION OF AC PLANTS

- 21.1 After placing work order No 1 within one week joint inspection of all the AC plants including their accessories shall be carried out by the contractor along with a qualified and experienced supervisor (to be employed by the contractor at his own cost to inspect each AC Plant under the contract), GE and Engineer-in-Charge and the contractor shall submit written report for the serviceability of AC Plants and his recommendation for carrying repair/replacement of spares/parts.
- 21.2 Accordingly Engineer-in-Charge will place nominal work orders on the contractor to supply of spares/parts during currency of the contract as per site requirement and urgency at site. The contractor shall be carried out supply and replacement of spares/parts and complete the work. Completion period of each such work order will not be less than 03 days for emergency works and will not be more than 15 days/30 days in any case as specified in the work order to avoid any major break down and ensure smooth running of AC plants. In case the breakdown of AC plants noticed after carrying out the needed immediate replacement of parts/spares as mentioned above, the contractor will carry out further repair to remove the break down and shall make the plant fully functional for smooth running of the plant. The nominal work orders shall be applicable to supply only items.

22.0 TESTING

22.1 After completion of work, the AC plants shall be tested for 24 hours duration continuously in the presence of GE, Engineer-in-Charge and the contractor on his authorised representative to see the performance of the condensers and cooling towers. The conditions achieved should be in accordance with the design condition of the plant. In case the performance of the cooling towers and condensers is not satisfactory, it is the responsibility of the contractor replace the defective cooling tower/condensers at his own cost and nothing extra shall be paid on this account. Necessary testing record shall be maintained and signed by GE, Engineer-in-Charge and the contractor and kept on record.

23.0 PAID VOUCHERS AND TEST CERTIFICATES

23.1 Paid vouchers and test certificates as applicable for all items to be produced by the contractor under his letter & duly signed by him giving cheque No with date under which payment made before claiming payment for items. Genuineness of paid vouchers and test certificate will be checked by GE before completion of work by method as suitable for major items. Decision of GE regarding major items shall be final and binding. No claim on account of these provisions shall be admissible.

24 Repairs for Refrigerator/deep Freezer/Geyser etc.

24.1. **GENERAL REQUIREMENT**

- 24.1.1 These particular specifications shall be read in conjunction with MES Schedule 2009 (Part-I) and 2010 (Part-II).
- 24.1.2 General Rules, Specifications, Special Conditions and preambles in the MES Schedule, shall be deemed to be applicable to the work under this contract unless mentioned otherwise in these tender documents in which case the provisions in these tender documents shall take precedence over the above said provisions in the MES Schedule.

PARTICULAR SPECIFICATIONS (Contd......)

24.1.3 Where specifications for any item of work are not given in MES Schedule or these Particular Specifications, specifications given in relevant Indian Standard specifications or code of practice shall be followed.

- 24.1.4 The contractor is required to visit the site/location of the work in consultation with GE. Contractor is deemed to have full knowledge of site whether he has visited the site or not.
- 24.1.5 All works shall be carried out to the entire satisfaction of the GE and in workman like manner as directed by the Engineer-in-Charge.

25. **SITE CLEARANCE:**

Entire site will be cleared by the contractor to the satisfaction of Engineer –in Charge and GE . No extra payment on this account will be made to the contractor.

26. **DISMANTLING/DEMOLITION OF WORK**

The work of dismantling/demolition shall be carried out with utmost care without any harm/damage to existing structure/part of the structure. Any damage to the existing part shall be repaired/made good by the contractor without any extra cost of the Govt. The serviceable material obtained from demolition/dismantling shall be re-used in the same work to the extent approved by the Engineer-in-Charge as per the relevant item of Schedule 'A'. The unused material shall be the property of the contractor and shall be handed over to the contractor and credit shall be taken as per Schedule of Credit. The material not covered in Schedule of credit shall be the property of Govt. and shall be deposited in MES store yard by the contractor without any extra cost to the Govt.

Contractor AGE (Contracts)
For Accepting Officer

PARTICULAR SPECIFICATIONS

Appendix 'A'

| 1. | CA No & Name of Work | : |
|----|--|---|
| 2. | Control No | : |
| 3. | Name of Manufacturer/Brand Name/Gde of Cement | : |
| | (a) Manufacturer | : |
| | (b) Brand | : |
| | (c) Grade | : |
| 4. | Qty of cement & Lot No/Week No (in Bags) | : |
| | (a) Qty | : |
| | (b) Lot No/Week No. | ; |
| 5. | Manufacturer's test certificate No | : |
| 6. | Random test Details | : |
| | (a) Physical Test report from vide their letter No | : |
| | (Name of approved Lab/Engg College) | |
| | (b) Chemical test report from vide their letter No | : |
| | (Name of approved Lab/Engg College) | |
| 7. | Details of physical & Chemical properties | : |

| Physical Requirements (As per IS 4031) | | | | | | | | | | Che: 403 | | Requ | ireme | nts (A | S per | IS |
|--|---|-----------------------------------|--------------------------------|-----------------------------|---------------|----------------------|---------------|-----------------------|--------------------------|--------------------------------|----------------------------|----------------------|--------------|-------------------------|----------------------|-------------|
| | sion (%) | sion | | | | Compressive strength | | | | | | | | | | |
| Specific surface (M2/Kg) | Soundness by Le Chatellar Expansion (%) | Soundness by Auto Clave Expansion | Initial Setting Time (Minutes) | Final Setting Time (Minutes | 03 Days (Mpa) | 07 Days (Mpa) | 28 Days (Mpa) | Temp during testing C | Standard consistency (%) | Lime Saturation Factor (Ratio) | Almina iron factor (Ratio) | Insoluble Resdue (%) | Magnesia (%) | Sulphuric Anhydride (%) | Loss on Ignition (%) | Alkalis (%) |
| As per relevant IS | | | | | | | | | | | | | | | | |
| As per manufacturer's test certificate | | | | | | | | | | | | | | | | |
| As per random test certificate | | | | | | | | | | | | | | | | |

APPENDIX 'B'

STEEL SUPPLY/ACCEPTANCE FORM

| Contra | act No | : | Date : |
|--------------|-----------------------------|---|--------|
| Name | of Work | : | |
| Contro | ol No | : | |
| DETAI | LS OF PURCHASE | : | |
| (a) | Particulars of Manufacturer | : | |

(b) Details of the Supply, if any

DETAILS OF TEST CERTIFICATE

(a) No. and Date

(b) Particulars of the issuing authority.

(b) Particulars of the issuing authority.(c) Date of manufacturing:

| | Nomen- clature | IS Refer | Qua it | ant y | | Physical Properties | | | | | | | Rks |
|---|---|-------------|-----------|----------|---------|-------------------------------------|-----------------|----|---------------|-----------------|--------------|--|-----|
| | and size of Steel | ence | lal | version | stre: | % Proof ss/yield ss nimum) | | EL | ONGATIO | ON(%) | | | |
| (| , in the second | | Actua | Con | IS * | Test Sheet | Random Test* | IS | Test Sheet | Rando m Test | Bend Test | | |

| As ordered Lemarks with Signature | |
|---------------------------------------|-----|
| E(Civil) | |
| ingineer-in-Charge | |
| Contractor | |
| accepted/Rejected | |
| Garrison Engineer | |
| Remai f BOO/Inspecting Officer | ſKS |

Appendix 'C'

LIST OF APPROVED MAKES FOR ITEMS TO BE INCORPORATED IN WORK

1.

| 1. | FR/FRLS WIRES FOR INTERNAL WIRING (ISI MARKED) |
|-----|---|
| | (a)Havvells(b)Polycab(c)Finolex(d)Rallison(e)L & T(f)Elektron(g)Plaza(h)Anchor(d)Grandlay |
| 2. | INTERNAL WIRING FIXTURES (PIANO TYPE SWITCH & SWITCH SOCKET) ISI |
| | MARKED.(a) Plaza(b) SSK(c) MK(d) Indo Asian(e) Anchor(f) Havells(g) Cona |
| 3. | WINDOW TYPE/SPLIT TYPE AIRCONDITIONERS SPARE PARTS |
| | (a) Voltas (b) Hitachi (c) Daikin (d) O-General Carrier (e) Fidders (f) Llyod (g) LG (h) Blue Star (j) Samsung (k) Videocon (I) Godrej |
| 4. | MCB'S MCB DBs AND ISOLATORS (a) Legrand (b) Schneider (c) L & T (d) Havells (e) Shalabh Switchgear (f) Control & Switchgear (g) Haver (h) Indo Asian |
| _ | |
| 5. | PVC CASING-N-CAPING(a) PLASTO PLAST(b) NATIONAL(c) POLY PLAST(d) PLAZA(e) POLY PLAST COLD |
| 6. | REFRIGERATOR SPARE PARTS |
| | (a) Voltas (b) Whirlpool (c) LG (d) Samsung (e) Videocon (f) Kelvinator (g) Godrej (h) Panasonic (j) Electrolux (k) Haier |
| 7. | SLUICE VALVE, AIR RELEASE VALVE, AND NON RETURN VALVE |
| | (a) Bir (b) Kirloskar (c) Leader (d) Upadhyay (e) BVI |
| | (f) M/s MAC International, Jalandhar |
| 8 | SWING CHECK TYPE REFLUX (NON-RETURN) VALVES |
| | (a) M/s MAC International, Jalandhar (b) Kirloskar |
| 9. | BUTTERFLY VALVES FOR GENERAL PURPOSES |
| | (a) M/s MAC International, Jalandhar (b) Kirloskar |
| 10. | CAST IRON PIPES & FITTINGS |
| | (a) Electro Steel (b) Kalinga (c) Bir (d) Kesoram (e) BVI (f) M/s AVN Manufacturing Co |

CA NO: GEP-48/2024-25 Serial Page No 44 CEILING FAN(ONLY 5 STAR BEE RATING C/FANS SHALL BE SPECIFIED). EXHAUST/WALL 11. MOUNTED FANS/AIR CIRCULATORS Baiai (b) Crompton Greaves (c) (d) Khaitan **GEC** (e) Orient (a) (f) Polar (g) Havells Almonard MIE (k) OSRAM (h) (j) (1) Anchor Luminous Ortem Halonix (m) (n) (o) 12. **MCCBs** ABB, SIEMENS, L&T, SCHNEIDER, LEGRAND, MERLIN GERIN, HAGER, C&S ELECTRIC, BCH, INDOASIAN, HAVELLS, CROMPTON, ANCHOR, GE POWER, HPL & STANDARD ELECRICALS, CRYSTAL, M/s GM Modular Pvt Ltd 13. MCB/ELCB/RCCB/RCBO/ISOLATORS/MCB DISTRIBUTION BOARD L&T, ABB, SCHENEIDER, SEIMENS, LEGRAND, HANGER, BCH, CROMPTON GREAVES, INDOASIAN, C&S ELECTRIC, HAVELLS, STANDARD ELECTRICALS, PLAZA HPL, ELECTRIC CO PVT LTD & GE, CRYSTAL, M/s GM Modular Pvt Ltd WATER HEATER (ONLY 5 STAR BEE RATING WATER HEATERS SHALL BE SPECIFIED) 14. AND SPARE PARTS (a) Crompton Greaves (b) Recold (d) Havells Bajaj (c) Black & Decker (e) Morphy Richards (f) Venus (g) Usha Lexus (h) Jaguar (k) Luminous **(l)** Indoasian (m) Shriram (j) (n) **Thermoking** (o) Arise 15. **ELECTRONIC FAN REGULATOR** Crompton Greaves (c) (a) Bajaj (b) **GEC** (d) Khiatan (e) Orient (d) POLAR(e) **HAVELLS** Anchor Halonix (h) Osram (f) (g) (j) Ortem (k) MIE 16. MODULAR SWITCHES /SWITCH SOCKET (d) (a) Crabtree (b) LEGRAND (c) ABB Anchor L&T(Oris) (e) (f) C&S Electric (g) Leader (h) POLYCAB HPL (k) SSK Indoasian (j) (1)M/s GM Modular Pvt Ltd (m) Havells (n) Standard (o) Clipson (p) CEILING FAN/EXHAUST FAN/WALL MOUNTED FANS/AIR CIRCULATORS 17. (a) Bajaj (b) Crompton Greaves (c) GEC (d) Khaitan Havells (f) Orient Havells (h) Anchor (j) Hanolix (e) (q) **GEC** MIE (k) Polar (1) (m) Almonard (n) (o) Osram (P) Luminous (q) Ortem

18. ALL OTHER MATERIALS

Make and sample shall be as approved by GE.

Notes:

- 1. Makes specified in Sch 'A' only shall be provided when makes are mentioned in Sch 'A'.
- 2. Makes specified in Particulars Specifications shall be provided when only no makes are specified in Sch 'A'.
- 3. Makes specified in this Appendix shall be provided only when no makes are mentioned in Sch 'A' and Particulars Specifications.

4. Irrespective of makes specified in drawings, the makes as shown here-in-before shall be provided.

- 5. Contractor will supply the material only after obtaining the written approval from GE regarding use of specific make of items and will supply the material at appropriate time as and when required by the GE.
- 7. In case no make mentioned in Schedule 'A', Particular specification, list of makes and drawings, the makes specified in Zonal specification of Chief Engineer Pathankot, Pathankot/E-in-C's Branch shall be applicable.
- 8. To ensure genuineness of material, the contractor will place order only on manufacture or authorized dealer only and the Engineer-in-Charge will receive the material after verifying the delivery challan of the supplier and after satisfying the genuineness of material.

Contractor

AGE (Contracts)
For Accepting Officer

APPENDIX 'D' TO PARTICULAR SPECIFICATIONS MATERIALS AND THEIR TESTS

NOTES

- 1. The materials listed in Appendix "D" shall be tested as per the frequency indicated therein.
- 2. It is mandatory for the Contractor to set up his own Site Lab.
- 3. Out of the tests carried out in Contractor's own Site Lab, a percentage/selected checks as decided by the Accepting Officer, shall be got done independently in the Zonal /Govt approved lab, the expenditure for which shall be borne by the department.
- 4. Level of testing shown under Col 6 as 'A', 'B', 'C' are defined as under :-

Level 'A'

- (a) "Site Lab" means own site lab established by Contractor at the work site for such tests. This lab shall house all the facilities including T&P, machinery, equipment, manpower etc. required for conducting tests. This lab shall be operative for the entire duration of the contract till its completion. Tests shall be carried out in the presence of Engineer-in-Charge.
- (b) Records shall be maintained at work site. These test results shall be signed by Contractor or his authorized representative and Engineer-in-Charge.
- (c) Within 15 days of placement of work order No. 1, Site Lab shall be established and this fact alongwith the particulars of the technical representative of the Contractor responsible for the Site Lab, shall be reported by the Contractor to GE in writing who will verify the facts and satisfy himself of the facilities provided and the particulars of the technical representative of the Contractor. Thereafter, GE shall issue a certificate to this effect in writing listing out equipment, particulars etc, of each material test. Only after issue of this certificate by GE, the test shall be carried out and materials so approved shall be incorporated in the work.
- (d) Manpower, material and infrastructure like electricity, water etc, required for conduction these test shall be provided by the Contractor.
- (e) Tenderer is deemed to cater for the above provisions in his quoted lump sum.
- (f) Remedial measures, if any, required to achieve/obtain desired results for each test shall be taken promptly by the Contractor.
- (g) In case during any point of time, Contractor fails to adhere to the laid down frequency of the tests due to non availability of the required facilities in his site lab, the tests shall be carried out in Departmental Laboratories, in which case the testing charges as in Appendix 'D" shall be levied. However, in case the testing facilities are not available in departmental laboratories, the tests shall be required to be conducted in National Test House/SEMT, CME Pune/Engineering College Labs or any other Government approved lab and the actual charges as levied by these test houses/labs shall have to be paid by the contractor without any extra cost to the department. Whether the testing facilities exist in Contractor's Site Lab, Departmental Laboratories or not shall be decided by the GE, whose decision shall be final and binding. All facilities for test including conveyance/ labour etc, shall also be borne by the contractor without any extra cost to the department. Contractor's quoted lump sum is deemed to include for this eventuality and nothing extra shall be payable to the Contractor. **No extension of time shall be admissible on this account.**

(h) However, in case GE in his opinion, considers that Contractor is purposely not adhering to the laid down frequencies of the test, he shall reserve the right to deduct penal recovery which shall be double the rates of tests indicated in Appendix 'D'. However, besides effecting penal recovery for non-compliance of contractual testing frequency, for adhering to quality control norms of testing, simultaneously GE will get tests done from Zonal Lab as per laid down frequency and necessary testing charges shall be recovered from running bills, In case facilities are not available to conduct test in Zonal Lab, then GE will get them tested from any other source and necessary testing charges paid by GE shall be debited to the running payments of the Contractor. GE's decision shall be final and binding on recoveries.

(j) No charges shall be recovered from the Contractor for tests carried out in his Site Lab.

Level 'B' & 'C': The test charges mentioned under column 7 of Appendix D' are the charges

to he paid by the contractors in case the tests are conducted in the departmental laboratories and the tendered lump sum shall deemed inclusive of the same. However, in case the testing facilities are not available in departmental laboratories, the tests shall be required to be conducted in National Test House/SEMT, CME Pune/Engineering College Labs or any other Government approved lab and the actual charges as levied by these test houses /labs shall have to be paid by the contractor without any extra cost to the department. Whether the testing facilities exist in departmental laboratories or not shall be decided by the GE, whose decision shall be final and binding. All facilities for tests including conveyance/labour etc. shall also be borne by the contractor without any extra cost to the department.

Contractor

AGE (Contracts)
For Accepting Officer

ANNEXURE-I TO APPENDIX 'D'

MATERIALS AND TESTS

| Ser No | Material | Tests | Method of testing | Frequency of tests | | | Level of test | Rate (Rs) | Remarks |
|-----------|---------------------------------|--|--------------------------|------------------------|--|------------------------------------|---------------|-----------|---|
| 1 | 2 | 3 | 4 | | 5 | | 6 | 7 | 8 |
| 1. | Bricks | i) Compressive | IS 3495 (Part-II) | As per I under: | S:5454 as | | 'A' | 330/- | Checks for visual and |
| | | Strength | | Lot size (Nos) | Sample size (Nos) | Permissible No of defective bricks | | | dimensional characteristics shall also be carried out as per IS-5454. |
| | | | | 1,001 to 10,000 | 5 | 0 | | | |
| | | | | 10,001 to 35,000 | 10 | 0 | | | |
| | | | | 35,001 to 50,000 | 15 | 1 | | 2201 | |
| | | ii) Water Absorption | -do- | | -do- | | 'A' | 330/- | |
| | | iii) Efflorescence | -do- (Part-I) | | -do- | | 'A' | 330/- | |
| 2. | Coarse Aggregate (For concrete) | i) Sieve Analysis | IS: 2386 (Part-I) | of aggre | for every gates or pa prought to | ırt | 'A' | 660/- | |
| | | ii) Flakiness Index | -do- | | -do- | | 'A' | 250/- | |
| | | iii) Estimation of deleterious materials | IS: 2386 (Part-I) | | for every gates or pa | | 'A' | 600/- | |
| | | iv) Organic impurities | -do- | supply | per source | | 'B' | 275/- | |
| | | v) Moisture content | -do- (Part- II) | Regular | ly as requi | red | 'A' | 330/- | |
| | | vi) Specific Gravity and water absorption | IS: 2386(Part- II) | One test supply | for each s | ource of | 'B' | 330/- | |
| 3. | Fine Aggregate | i) Sieve analysis | IS: 2386 (Part-I) | | for every f part wher | | 'A' | 660/- | |
| | | ii) Test for clay, silt and impurities. | -do- (Part- II) | | -do- | | 'A' | 500/- | |

ANNEXURE-I TO APPENDIX 'D'

| Ser No | Material | Tests | Method of testing | Frequency of tests | | Level of test | Rate (Rs) | Remarks |
|------------------|---------------------------|-------------------------------------|----------------------------------|--|---|---------------|-----------|--|
| 1 | 2 | 3 | 4 | 5 | | 6 | 7 | 8 |
| 3.(Co ntd | | iii) Specific gravity | -do- (Part- II) | One for each sou | arce of supply | 'B' | | |
|) | | iv) Moisture content | -do- Part-II | Regularly as req to 2 tests/day wh | | 'A' | 330/- | |
| | | v) Test for organic impurities | -do- (Part- II) | One test for each supply. | n source of | 'B' | 275/- | |
| 4 | Cement | i) Setting time | IS: 4031- 63 affirmed 1980 | Once for each coas and when req | | 'B' | 500/- | |
| | | ii) Soundness | -do- | -do |)- | 'B' | 550/- | |
| | | iii) Compressive strength | -do- | -do |)- | 'B' | 550/- | |
| | | iv) Fineness | -do- | -do |)- | 'B' | 275/- | |
| 5 | Structural concrete (M-15 | i) Slump test (OR) compacting | IS: 1199 | The minimum frequency of sampling of concrete of each grade shall be under:- | | 'A' | 300/- | i) Random sampling shall be carried out to |
| | grade and above) | ii) Compressive | IS: 516 | Qty of concrete of in the work (Cum) 1-5 6-15 16-30 31-50 51 & above | No of samples 1 2 3 4 4+1 for each addl 50 Cum or part thereof | 'A' | 900/- | cover all mix units. ii) Refer IS-456 2000 clause 14 for frequency of sampling. |
| | | , | | IS: 516 | IS: 516 -do | | | |

ANNEXURE-I TO APPENDIX 'D'

| Ser | Material | Tests | Method of | Frequency of tests | Level | Rate | Remarks |
|-----|---|-----------------------------------|--------------------------------------|---------------------|----------|-------|--|
| No | | | testing | _ | of test | (Rs) | 0 |
| 6. | a) PCC blocks for walling | Compressive strength | 4 IS: 2156- 1984 (Appx 'B') | 8 block out of 14 | 6 'A' | 900/- | 8 Samples: 14 blocks from consignment of |
| | (Hollow block) | ii) Water absorption | -do- (Appx 'E') | 3 block out of 14 | 'B' | 330/- | every 5000 blocks or part thereof. |
| | | iii) Density | -do- (Appx 'A') | 3 blocks out of 14 | 'B' | 330/- | |
| | b) PCC solid blocks for | i) Compressive strength | IS: 2185 | 12 blocks out of 18 | 'A' | 900/- | Samples: 18 blocks from consignment of |
| | walling | ii) Water absorption | -do- | 3 blocks out of 18 | 'B' | 330/- | every 1000 blocks or part thereof. These blocks to be checked for dimensions and weight. |
| | | iii) Density | -do- | 3 blocks out of 18 | 'B' | 330/- | |
| 7. | Cement flooring | i) Water absorption | IS-1237 (Appx 'D') | 6 tiles out of 18 | 'B' | 330/- | Samples: 18 tiles from each source |
| | tiles /Terrazzo tiles | ii) Wet transverse strength | -do- (Appx 'E') | -do- | 'B' | 660/- | of supply selected at random. |
| | | iii) Resistance to wear | -do- (Appx 'F') | -do- | 'C' | 1000/ | |
| 8 | Burnt clay roofing tiles | i) Water absorption | IS: 3495 (Part-II) | 6 files out of 12 | 'B' | 216/- | Samples 12 tiles from each source of supply selected at |
| | Length 150mm to 250mm Width 100mm to 200mm Thickness 35mm to 50mm | i) Compressive strength | -do- (Part-I) | -do- | 'A' | 180/- | random. |

ANNEXURE-I TO APPENDIX 'D'

| 9. | Mangalore pattern | i) Water absorption | IS: 654 (Appx 'A') | 6 tiles out of 32 | 'B' | 180/- | Samples: 32 tiles from each |
|-----|--------------------------|--|------------------------|---|--------------|-------|---|
| | roofing tiles | ii) Breaking load | -do- (Appx 'C') | -do- | 'B' | 120/- | consignment of 3000 tiles or part thereof. These tiles shall be checked for dimension. |
| 10. | Timber | i) Specific gravity weight | IS : 1708- | Minimum 3 samples from a lot of 4 cum or 250 pieces of seasoned timber. | 'B' | 120/- | |
| | | ii) Moisture content | -do- | -do- | 'A' | 120/- | |
| 11. | Water for construction | i) Test for acidity | IS: 456 & 3015 | Once at the stage of approval of source of water | 'B' | 500- | Also refer clause 4.3 of IS: 456 and its |
| | purposes | ii) Test for alkalinity | -do- | -do- | 'B' | 500 | subsequent sub clauses regarding suitability of |
| | | iii) Test for Total Dissolved Solids (TDS) content | -do- | -do- | 'B' | 500 | water. |
| 12. | Welding of steel work | i) Visual Inspection test | IS: 822- clause 7.1 | 100% by visual inspection. | Work site | 360/- | Specialized tests, their method and frequency to be decided on consideration of their importance by the accepting officer. |

| Ser | Material | Tests | Method of | Frequency of tests | Level | Rate | Remarks |
|-----|---|--|-----------------------|---|---------|-------|--|
| No | | | testing | | of test | (Rs) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 13. | Timber panelled and glazed Door/Wind -ow shutters (including factory made shutters) | a) Dimensions, sizes, Workmanship and finish | IS: 1003- (Part-I) | Frequency of sampling from each lot shall be as under:- Lot Size Sample Size 26 to 50 5 5 1 to 100 8 101 to 150 13 151 to 300 20 301 to 500 32 501 to 1000 50 1001 and Above 80 | 'A' | 180/- | |
| | | b) Strength test | IS : 3034- 1990 | From each lot 5% of the factory made shutters shall be manufacturer tested for strength tests | | | |
| | | i) Slamming | -do- | | | | |
| | | ii) Impact Indentation | -do- | | | | |
| | | iii) Shock Resistance | -do- | | | | |
| | | iv) Edge Loading | -do- | | | | |
| 14 | Ply wood (IS: 303) | Moisture content | IS: 1734 (Part-I) | Six test pieces cut from each of the boards selected as per table shall be subjected to tests. | ,C, | 240/- | Sampling shall be as per IS: 7835- tables. |

MATERIALS AND TESTS(CONTD.....)

| Ser No | Material | Tests | Method of | Frequency of tests | Level of test | Rate (Rs) | Remarks |
|-----------|---|---------------------------------------|------------------------|---|---------------|-----------|--|
| 1 | 2 | 3 | testing 4 | 5 | 6 | 7 | 8 |
| 15. | Wood particle board (Medium density IS: 3097) | a) Density | IS: 2360 (Part-III) | Three test specimens from each sample (Size 150mm x 75mm) | 'A' | 60/- | Sampling shall be as per IS: 3487 with moisture meter. |
| | | b) Moisture content | -do- | -do- | 'A' & 'B' | 60/- | |
| | | c) Water absorption | -do- (Part- 16) | -do- (Size 300mmx300mm) | 'A' | 60/- | |
| | | d) Swelling due to surface absorption | -do- (Part- 17) | -do- (Size 125mmx100mm) | 'A' | 60/- | |
| | | e) Swelling in water | -do- | -do- (Size 200mmx100mm) | 'A' | 60/- | |
| | | f) Modulus of rupture | -do- (Part- 4) | Three test specimens as per IS: 2380 | 'B' | 90/- | |
| | | g) Screw withdrawal strength | -do- (Part- 4) | -do- as per IS: 2385 | 'C' | 120/- | |
| 16. | Reinforcem -ent steel | (i) Physical test elongation, bend | • | a (Normal mass, tensile | 'B' | 2500/- | |
| | | (ii) More than 1 | 6mm dia | | 'B' | 2750/- | |

Signature of Contractor

AGE (Contracts)
For Garrison Engineer

GENERAL CONDITIONS OF CONTRACTS (IAFW-2249-1989 PRINTS) FOR (MEASUREMENT CONTRACTS (IAFW-1779 AND 1779-A)

- 1. A copy of General conditions of contracts (IAFW-2249-1989 Print) with errata 1 to 20 and amendments 1 to 48 has been supplied to me/us is in my/our possession. I/we have read and understood the provisions contained in the aforesaid **GENERAL CONDITIONS OF CONTRACTS** before submission of the 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.
- 2. 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 (Serial Page Nos. 54 to 86) with errata 1 to 20 and amendments No. 1 to 49 containing 27 Pages (Serial Page No 87 to 113) form part of these tender documents.
- 3. My/our signature hereunder is in token of my/our having acceptance the aforesaid General Conditions of Contracts together with errata and amendments IAFW-2249 (1989 Print)
- 4. It is agreed that in the event of discrepancy in English and Hindi version of IAFW-2249, the contents in English will prevail.

AGE (Contracts)
For Garrison Engineer

Signature of Contractor

SCHEDULE OF MINIMUM FAIR WAGES

A copy of the latest Schedule of minimum fair wages has been supplied to me/us and is in my possession. I/We have read and understood the provisions contained in the aforesaid Schedule of minimum fair wages before submission of these tender documents.

It is further agreed and declared by me/us that Schedule of minimum fair wages form part of these tender documents. The latest revised wages of labour as fixed by State/Govt. of India/Union Territory as applicable to the work whichever is higher will only be applicable in this Contract.

AGE (Contracts)
For Garrison Engineer

Signature of Contractor