

**MILITARY ENGINEER SERVICES**  
**COMMANDER WORK ENGINEER (AF) AMBALA, AMBALA CANTT**

**CA NO.: CWE/AF AMB/SAR-T08/2026-27 INSTALLATION OF RUNWAY LIGHT FITTINGS AND OTHER CONNECTED ITEMS AT OVER RUN AREA OF UNDERSHOOT 27 END AND UNDERSHOOT 09 END AT AF STN SARSAWA UNDER GE AF SARSAWA**

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Drawings : NIL sheets

**Total No. of Pages**

\* These documents have not been attached with tender documents and can be seen in any MES office on any working day.

SIGNATURE OF CONTRACTOR  
 DATED : \_\_\_\_\_

DCWE(Contracts)  
 FOR ACCEPTING OFFICER

Tele : 2640036  
 Fax : 0171-2600220  
 Email : ambaf3-mes@nic.in

Military Engineer Services  
 Headquarters  
 Commander Works Engineer (AF)  
 Ambala Cantt -133001

No 8326/SAR-T08/ 04 /E8

27 May 2026

M/S \_\_\_\_\_

**CA NO CWE/AF AMB/SAR-T08/2026-27 : INSTALLATION OF RUNWAY LIGHT FITTINGS AND OTHER CONNECTED ITEMS AT OVER RUN AREA OF UNDERSHOOT 27 END AND UNDERSHOOT 09 END AT AF STN SARSAWA UNDER GE AF SARSAWA**

Dear Sir(s)

1. Tender documents in respect of above work are uploaded on the site [www.defproc.gov.in](http://www.defproc.gov.in). The tender is based on single stage two cover e-tendering system. The contents of Cover I & Cover II are specified in Notice Inviting Tender (NIT).
2. Bids will be received online by ACCEPTING OFFICER upto 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 bonafide.
3. Bid will be opened online on a due date fixed for opening as per critical dates given in the portal. Cover 1 will be opened first. Tenderers may see the result of the opening of Cover 1 on the tender portal. Date of opening of Cover 2 shall be decided after technical evaluation of Cover 1 keeping in view the various eligibility criteria given in the NIT and the same will be intimated to the tenderers while uploading the technical evaluation on the tender portal.
4. Your attention is also drawn to instruction on filling and submission of tender attached herewith. You may forward your points on tender documents through E-mail and /or depute your technical representative for discussion on tender/drawings and to clarify doubts, if any, on or before '**Clarification End Date**' mentioned in the Notice Inviting Tender. You are requested not to write piecemeal points and forward your points duly consolidated before due date of '**Clarification End Date**' mentioned in the Notice Inviting Tender.
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 and **Appendix 'A' to NIT** alongwith Earnest Money Deposit (EMD) and tender fee on e-procurement portal and submit the physical documents in the office of **CWE (AF) AMBALA** within time limit specified in **NIT**. Inadequacy /deficiency of documents shall make the bid liable for rejection resulting in disqualification for opening of financial bid.
6. Enlisted contractors of MES shall submit the scanned copies (pdf file) of enlistment letter, tender fee and such other documents as mentioned in **Appendix 'A' to NIT** on e-procurement portal and submit physical documents in the office of **CWE (AF) AMBALA** before date & time fixed for this purpose.
7. The contractor must ensure that the tender/bid is uploaded on the tender portal using the authorised DSC 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.
8. Keeping in view of delays due to system failure or other communication related failures, it is suggested that the tender/bid be uploaded, sufficiently in advance of the last due date and time fixed on the portal.
9. General Conditions of Contracts (IAFW-2249) (1989 Print) and errata and amendments thereto, Schedule of Minimum Fair Wages and MES SSR (Part-I and Part-II) are not enclosed with these documents. These are available for perusal in the Office of GE/AGE concerned and this office. Tenderer is also requested to keep the copy of these documents with him as same are available in the market.
10. **PERFORMANCE SECURITY DEPOSIT:** After acceptance of the Tender, the contractor will be required to lodge with the Accepting Officer PERFORMANCE SECURITY DEPOSIT @ 5% of contract amount. The amount is required to be lodged within 28 (Twenty eight) days of the receipt by the contractor of notification of acceptance of tender/bid, failing which action as stipulated in Condition 19 of GCC shall be taken.
11. Any tenderer, which proposes alterations to any of the conditions, specifications laid down in the tender documents or any new condition, whatsoever, is liable to be rejected.

Contd.../-

12. The rates quoted by the contractor shall be deemed to be inclusive of all taxes viz GST, duties, Royalties, Cess & other levies payable under the respective Statutes, if any **applicable as on end date of Bid Submission of tender**. For details, refer **Special Condition 25** of this tender. It may be noted that conditional tender regarding this aspect and/or on any other account will not be considered and shall be liable to be **REJECTED**.

13. Bidders shall also ensure that they are holding "GST Registration Number from concerned Authority". Bidders are advised to note that this shall be one of the mandatory criteria for qualifying in 'T' bid and shall be uploaded alongwith other documents. Bidders Non-uploading same shall be **disqualified in 'T'-evaluation and their finance bid shall not be opened**.

14. Bidders shall ensure that they are holding "**Provident Fund Code Number**", if applicable and they shall also ensure compliance of the EPF & MP Act, 1952. Work Order shall be placed only on furnishing requisite confirmation by the Contractor that the same is not applicable to them or otherwise provide copy thereof. Bidders are advised to note that this shall be mandatory requirement before placing Work Order by GE.

15. In case the BOQ is revised by the Department and the bidder has failed to quote in revised BOQ (i.e. he has quoted in previous BOQ), such bid shall be treated as willful negligence by the bidder and his quotation shall be considered as non-bonafide. **In such cases the lowest tender shall be determined by the lowest amount amongst the valid/bonafide bids only.**

16. Please note that recoveries towards income tax and GST on work contract or any other such statutory recoveries, if any, will be made at source as per Govt. Notification in vogue.

17. This letter shall form part of the contract and shall be signed by contractor alongwith other tender docs at the time of signing original contract agreement.

\_\_\_\_\_  
(SIGNATURE OF CONTRACTOR)  
DATE:

DCWE(Contracts)  
FOR ACCEPTING OFFICER

**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 the Scheduled Bank in favour of **GE (AF) Sarsawa**.
- (b) Receipted treasury Challan, the amount being credited to the Revenue Deposit of **GE (AF) Sarsawa**.

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 (AF) Ambala**.

**Note:** Earnest Money 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 (Refer Condition 19 of IAFW 2249):-**

2.1 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.
- (c) An Insurance Surety Bond

2.2 Failure of the successful contractor to comply with the requirements of sub-clause 2.1 here-in-before shall constitute sufficient grounds for cancellation of the award of work and forfeiture of the Earnest Money. 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. Issue of tender to such tenderers shall remain suspended till the aforesaid amount equal to the Earnest Money is deposited in Government Treasury.

2.3 All compensation or other sums of money payable by the contractor to the Government under the terms of this contract or under any other contract with Government may be deducted from, 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.

2.4 In the event of contract being cancelled, under Condition 52, 53 & 54 of General Conditions of Contract, the Performance Security shall be forfeited in full and shall be credited into Consolidated Fund of India.

2.5. The Performance Security shall be in favour of Accepting Officer and shall be in any of the forms mentioned above. **Work Order No 1 shall be placed only after submission of Performance Security of adequate value by the contractor.** In case a fixed deposit receipt of any Bank is furnished by the contractor to the Government as part of the Performance Guarantee and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Government to make good the deficit.

2.6 **PERIOD OF VALIDITY OF PERFORMANCE SECURITY:** - The period of validity of the Bank Guarantee Bond or any other instruments as mentioned above against Performance Security shall be initially valid up to the stipulated 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.

2.7 Accepting Officer shall ensure to issue notice to the contractor to get the validity of Performance Security instrument extended suitably two months before the expiry of the validity. In case extension is not received four weeks before the expiry of validity of financial instrument, necessary encashment notice shall be served by Accepting Officer.

**INSTRUCTIONS ON FILLING AND SUBMISSION OF TENDER(Contd.../-)**

2.8 Bank Guarantee Bond in lieu of Performance Security is due for discharge on expiry of Defect Liability period provided always that the contractor has been paid the final bill and contractor has rendered the No demand Certificate (IAFA-451). Immediately after expiry of Defects Liability Period, GE concerned shall check and ascertain the position of final bill.

2.9 If any recovery is outstanding against the contractor, release of Bank Guarantee will be subject to compliance of the procedure for effecting the recovery /withholding the due amount as stipulated in condition 67 (as amended) of General Conditions of Contracts (IAFW-2249).

**3. GENERAL INSTRUCTIONS FOR COMPLIANCE**

3.1 The bids received only in the electronic form will be considered. All bids shall be submitted on '[www.defproc.gov.in](http://www.defproc.gov.in)' portal. Documents should be scanned and forwarded in 'pdf' form and 'xls' form as indicated.

3.2 Bids shall be uploaded on '[www.defproc.gov.in](http://www.defproc.gov.in)' portal on or before the bid closing date mentioned in the tender. No tender/bid in any other electronic or physical form like email/fax/by hand/through post will be considered.

3.3 Bid should be DIGITALLY signed using valid Digital Signature Certificate (DSC). All pages of tender documents, corrections/alterations shall be signed /initialed by the lowest bidder after acceptance of tender for making original and CTC of the contract.

3.4 Drawings, If issued in physical form, must be returned duly initialed by the tenderer/bidder in separate envelope indicating his name and address.

3.5 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.

3.6 In the technical bid, a scanned copy of Power of Attorney in favour of the person uploading the bid using his/her DCS 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 matter 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 tender/bid in 'pdf' form, if not submitted earlier. The person uploading the tender/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 person or all of the partners or in accordance with constitution of the company in case of company, stating that he has authority to bind such other person(s) of the firm or the Company as the case may be, in all matters pertaining to the contract including the Arbitration Clause.

3.7 Even in case of firms or companies which have already given Power of Attorney to an individual authorising him to sign tender in pursuance of which tenders/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 condition relating to Arbitration Clause, should be uploaded in the '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 & Articles of Association.

3.8 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.

3.9 Tenderer is advised to upload the bid well in time to avoid any last minute problem related to not working of internet/website etc. This may please be noted that any request for postponement of opening of cover no 01 on such reason for not been able to upload their bid shall not be entertained.

3.10 Bidders shall be deemed to have read instructions under bidder manual kit on home page of [www.defproc.gov.in](http://www.defproc.gov.in) portal.

3.11 The contractor shall employ only Indian Nationals after verifying their antecedents and loyalty. Attention is also drawn to **Special conditions 4** referred herein after and also conditions 24 & 25 of IAFW 2249 (General Condition of Contract).

**INSTRUCTIONS ON FILLING AND SUBMISSION OF TENDER(Contd.../-)**

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

3.13 While uploading the bid, the tenderers/bidders should specifically check whether any **revised BOQ** has been uploaded by department through corrigendum prior to **Bid submission start date**. Tenderers/bidders attention is specifically drawn to the fact that they should submit their offer on revised BOQ only. In case any tenderer/bidder submits offer on pre-revised BOQ in lieu of Revised BOQ, **it will be considered as a willful negligence by the tenderer/bidder and quotation shall be considered non-bonafide.**

3.14 In case the tenderer/bidder has to revise/modify the rates quoted in the BOQ (excel sheet), he can do so only in the BOQ through defproc.gov.in website only before last date of submission of bid.

3.15 The lowest tenderer whose tender is accepted, will require to attend this office for signing of downloaded tender documents alongwith quoted BOQ for record and distribution of CTC's for execution of work.

**4. Critical Path Method(CPM):**

4.1 The project planning for work covered in the scope of tender is based on CPM.

4.2 The tenderers/bidder are expected 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.

4.3 The tenderer's/bidder's attention is drawn to Special Conditions of the tender regarding preparation of the detailed network analysis and time schedules for the work and his liability for employing sufficient resources to adhere to this schedule. Any inability on the part of the tenderer/bidder in using the technique will be taken as his technical insufficiency and will affect his class of enlistment and future prospects of receiving tenders for work.

4.4 The department may issue amendments/errata in the form **Corrigendum** to Tender/BOQ to the tender documents. The tenderer/bidder is requested to read the tender documents in conjunction with the all errata/amendments/corrigendum, if any, issued by the department.

**5. THESE INSTRUCTIONS SHALL FORM PART OF THE CONTRACT AGREEMENT AND SHALL BE SIGNED AND RETURNED ALONGWITH THE TENDER DOCUMENTS.**

\_\_\_\_\_  
(SIGNATURE OF CONTRACTOR)

DATE: \_\_\_\_\_

DCWE(Contracts)  
FOR ACCEPTING OFFICER

**MILITARY ENGINEER SERVICES****NOTICE INVITING TENDER (NIT)**

1. A tender is invited for the work as mentioned in Appendix 'A' to this Notice Inviting Tender (NIT).
2. The work is estimated to cost as indicated in the aforesaid Appendix 'A'. This estimate, however, is not a guarantee and is merely given as rough guide and if the work cost more or less, a tenderer/bidder will have no claim on this account. The tender shall be based on as mentioned in the aforesaid Appendix 'A'.
3. The work is to be completed within the period as indicated in the 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 the tender.
4. Contractors whose names are on the MES approved list for the area in which the work lies, and within whose financial category the estimated amount would fall, may tender/bid but in case of term contracts, contractors of categories SS to E may tender/bid. Contractors whose names are on the MES approved list of any MES Formation and who have deposited standing security and have executed standing security bond may also tender/bid without depositing Earnest money along with the tender/bid and if the tender/bid submitted by such a tenderer/bidder is accepted, the contractor will be required to lodge with the Accepting officer concerned the amount of 'Performance Security Deposit' @ 5% of contract sum within 28 days of the receipt by him of notification of acceptance failing which the Accepting officer have sufficient grounds for cancellation of the award of work and forfeiture of earnest money. In case of MES enlisted contractor, amount equal to the earnest money shall be notified to the contractor for depositing the amount through MRO and issue of tender to contractor shall remain suspended till the aforesaid amount equal to the earnest money is deposited in the Govt. treasury. Not more than one tender/bid shall be submitted/uploaded by one contractor or one firm of contractors. Under no circumstances will a father and his son(s) or other close relations who have business dealing with one another be allowed to tender/bid for the same contract as separate competitors. A breach of this condition will render the tenders/bids of both the parties liable for rejection.
5. The office of CWE (AF) Ambala will be Accepting Officer, here in after refer to as such for the purposes of this contract.
6. The technical Bid and Financial Bid (Cover-I and Cover-2) shall be uploaded by the tenderer/bidder on or before the date & time mentioned in NIT. A scanned copy of DD with tender/bid enlistment details/documents shall be uploaded as packet 1/cover-1 ('T' bid) of the tender/bid on e-tendering portal. DD is refundable in case T bid is not accepted resulting in non-opening of 'Q' bid. The applicant contractor shall bear the cost of bank charges for procuring and encashing the DD and shall not have any claim from the Government whatsoever on this account.
7. Tender form and conditions of contract and other necessary documents shall be available on defproc.gov.in website for download and shall form part of contract agreement in case the tender/bid is accepted.
8. In the case of MES enlisted contractor who has not executed the Standing Security bond and Un-enlisted contractor, the Cover-I shall be accompanied with by Earnest Money of amount as mentioned in aforesaid Appendix 'A' in the form of deposit at call receipt in favour GE (mentioned in aforesaid Appendix 'A') by a Schedule Bank or in Receipt Treasury Challan, the amount being credited to the revenue deposit of the GE (mentioned in aforesaid Appendix 'A'). The GE will return the Earnest Money where applicable to all unsuccessful tenderers/bidder by endorsing an authority on the deposit call receipt for its refund, on receipt of intimation from the Accepting Officer to do that.
9. In case of successful contractor i.e. the lowest contractor having submitted EMD, he shall have the option of converting the EMD instrument into part of the Performance Security Deposit to be deposited by him within 28 days from the receipt of intimation of acceptance of tender from Accepting Officer.
10. Copies of the drawings and other documents pertaining to the work signed for the purposes of identification by the Accepting Officer or his accredited representatives, samples of materials & stores to be supplied by the contractor will also be available for inspection by the tenderer/bidder at the office of Accepting officer and concern GE during working hours.
11. The tenderers/bidders are advised to visit the site of work by making prior appointment with the GE who is also the executive agency of the work in sufficient time. A tenderers/bidders are deemed to have full knowledge of all relevant documents, samples, site etc. whether he has inspected site or not.
12. Any tender/bid which proposes any alterations to any of the conditions laid down or which proposes any other conditions of any descriptions whatsoever is liable to be rejected.

**NOTICE INVITING TENDER (Contd..../-)**

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

14. Tenderers/bidders must be in possession of a copy of MES Standard Schedule of Rates 2009(Part I) & 2020 (Part-II) including errata/amendments thereto.

15. The Accepting Officer reserves the right to accept a tender submitted by a Public Undertaking / Small & Medium Enterprises (SMEs), giving a price preference/purchase preference over other tenders(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 tenderers/bidder whose tender/bid is rejected.

16. Tenderers must be very careful to deliver & upload a bonafide tender, failing which the Accepting Officer may at his absolute discretion, reserve the right of forfeiting a portion of Earnest Money, Security Deposit or Security Bond amount (not exceeding amount of cost of tender) deposited by the tenderer. A bonafide tender must satisfy each & every conditions laid down in this office.

17. Accepting officer does not bind himself to accept the lowest or any tender/bid or to give any reason for not doing so.

**18. Employer Provident Fund and Miscellaneous (EPF & MP) act 1952 :**

18.1 In terms of GOI Ministry of labour & employment letter No S-35025/2/2014- SS II dated 15 Jul 2015, all the bidders participating in tendering for the work will ensure that they have "Provident Fund Code Number" for their construction workers and same has to be uploaded with Cover-I (Technical Bid) failing which their Technical bid shall be rejected and Financial bid shall not be opened. The Contractors shall also ensure that all agencies engaged should also have provident fund code.

18.2 All the workers deployed by the Contractors or sub contractors should be enrolled as members of provident fund and should be given the universal Account Number (UAN).

18.3 At the time of submitting the final bills of the works, the contractors have to give a certificate on his letter head that all workers employed directly or indirectly by him in the work are registered for EPF and the due contribution have been credited into their account.

**19. GST on Works Contract :**

19.1 In terms of GOI Ministry of Finance, GST has been leviable on works contracts. The liability of GST rests with the contractor and accordingly rates quoted are deemed to be included this aspect. The contractors are advised to take this fact in mind while quoting tender. Nothing extra whatsoever on this account is admissible.

19.2 The rate quoted by contractor shall also includes all taxes/duties i.e. trade tax on works Contracts, GST, custom duty, octroi duty & any other taxes/duties as applicable. This is an express condition of this contract no claim of the contractor shall be entertained by MES on this account.

19.3 It is mandatory for the contractors to upload their GST registration number alongwith the 'T' bid. This will be the one of the criteria for qualifying in 'T' bid. The contractors who do not upload GST registration number, shall be disqualified in 'T' bid evaluation and his finance bid shall not be opened.

19.4. Notwithstanding above, it shall also be mandatory that contractor will intimate their GST REGISTRATION NUMBER to GE before payment is released to them failing which no any payment shall be released on a/c of RAR/Bill. No any claim whatsoever on this account shall be entertained.

20. This Notice Inviting Tender (NIT) including Appendix 'A' and Annexures thereto, if any, shall form part of the Contract Agreement.

(SIGNATURE OF CONTRACTOR)

DCWE(Contracts)  
FOR ACCEPTING OFFICER

**APPENDIX 'A' TO NOTICE INVITING TENDER (NIT)**

1.	<b>Name of work</b>	INSTALLATION OF RUNWAY LIGHT FITTINGS AND OTHER CONNECTED ITEMS AT OVER RUN AREA OF UNDERSHOOT 27 END AND UNDERSHOOT 09 END AT AF STN SARSAWA UNDER GE AF SARSAWA												
2.	<b>Estimated Cost</b>	Rs. 70.52 Lakhs (Rupees seventy lakh fifty two thousand only) approx. (At Par Market )												
3.	<b>Period of completion</b>	120 days												
4.	<b>Cost of tender documents</b>	Rs 1000/- in the form of DD / Bankers cheque from any Scheduled bank in favour of <b>GE (AF) Sarsawa</b> and payable at <b>Sarsawa</b> . (Note : In case of retendering, the contractor who had quoted in the previous call is not required to submit the cost of tender.)												
5.	<b>Website/portal address</b>	www.defproc.gov.in												
6.	<b>Type of Contract</b>	The tender shall be Item Rate Contract based on General conditions of contracts IAFW-2249 and IAFW-1779A with Sch'A' / BOQ (list of items of works) to be quoted by the tenderer(s).												
7.	<b>Timeline details:</b>													
(a)	Tender publishing, Document download / Sale & Clarification start date	27 May 2026												
(b)	Clarification end date	16 Jun 2026												
(c)	Bid submission start date (Cover 1 & 2)	18 Jun 2026												
(d)	Document download / Sale & Bid submission end date (Cover 1 & 2)	24 Jun 2026												
(e)	Bid opening date (Cover No 1)	26 Jun 2026 or on subsequent days												
(f)	Bid opening date (Cover No 2)	Will be intimated online after completion of evaluation of tech bid/application (Cover 1)												
8.	<b>Eligibility Criteria</b>													
(a)	<b>For MES enlisted contractors</b>	Contractor shall be enlisted with MES in <b>Class 'C'</b> and above and <b>Category b(i)</b> subject to the remarks with reference to performance in respect of works in hand as reflected in Work Load Return (WLR) or any other report circulated by competent engineer authority.												
(b)	<b>For contractors not enlisted in MES.</b>	<p><b>(i)</b> Contractor not enlisted with MES should meet the enlistment criteria of 'C' class and <b>b(i)</b> category 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 requirements given in Para 1.4 &amp; 1.5 of Section-I of <b>MES Manual on Contracts</b> as available in all MES formations as well as in MES website(<a href="http://www.mes.gov.in">www.mes.gov.in</a>).</p> <p><b>(ii)</b> Not carrying adverse remarks in Work Load Report (WLR) or any other similar report circulated by any competent authority, if already working in MES.</p> <p><b>(iii)</b> 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.</p> <p><b>(iv)</b> Details of works completed and under progress in MES be submitted in the following format:-</p> <table border="1"> <thead> <tr> <th>Srl No.</th> <th>CA No. &amp; Name of work</th> <th>Value of CA</th> <th>Date of Commencement</th> <th>Date of completion</th> <th>Extended date of completion</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p><b>(v)</b> Un-enlisted contractor who have secured two works in MES should get themselves registered in the appropriated designated class with any Registering Authority, else the firm will not be eligible for participation in the tender unless until the firm is enlisted with the MES.</p>	Srl No.	CA No. & Name of work	Value of CA	Date of Commencement	Date of completion	Extended date of completion						
Srl No.	CA No. & Name of work	Value of CA	Date of Commencement	Date of completion	Extended date of completion									
(c)	<b>Technical PQC criteria</b>	Not applicable												
9.	Tender issuing and Accepting Officer	CWE (AF) AMBALA HQ CWE (AF) AMBALA, Ambala Cantt, 133001 Contact: 01712600220, Email: <a href="mailto:ambaf3-mes@nic.in">ambaf3-mes@nic.in</a>												
10.	Executive Agency	<b>GE (AF) Sarsawa</b> , Pincode- 247232, Email: <a href="mailto:srvaaf4-mes@nic.in">srvaaf4-mes@nic.in</a>												
11.	Earnest Money	Rs. 1,30,780.00 in favour of <b>GE (AF) Sarsawa</b> in the form of deposit at call receipt, FDR not acceptable												

Contd/-

APPENDIX 'A' TO NOTICE INVITING TENDER [NIT] Contd.../-NOTES :-

1. In case after opening of Cover-I, the number of MES enlisted contractors of eligible class as well as eligible un-enlisted contractors, if any, fulfilling the other eligibility criteria given in NIT is less than 7 (Seven), applications in respect of MES contractors of one class 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 may also bid for this tender. Such contractors shall not be considered in case their present residual work in hand is more than **five times** their present tendering limit. However in case such contractors fulfill the criteria of upgradation to the stipulated eligible class based on past experience of completed works (Individual work 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 they will be considered for issue of tender. Such bidders shall upload in their Cover-I bid details related to residual work in hand like details of works in hand showing name of works, name of Accepting Officers, Contract amounts, dates of commencement and completion (stipulated) and progress as on bid submission date. Such contractors, if claim to fulfill the criteria of upgradation shall also upload the requisite information/documents in support of upgradation. These details shall be verified by the Tender Issuing Authority from concerned formations in case bids of such contractors are considered for evaluation.
2. 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 07 (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 upgradation in respect of past experience of completed 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 2020**. Therefore such contractors shall upload the requisite information/documents in the cover-I.
3. Unenlisted contractor shall be considered provided he meets the criteria. Foreign firms shall not be eligible for this tender. However Indian Firms having foreign national/Indian nationals staying abroad/Indian national having taken foreign citizenship, as director(s) shall be considered subject to security clearance from the concerned authorities.
4. Contractors enlisted with MES will upload following documents in Cover-I for checking eligibility:-
  - (a) Application for tender on Firm's letter head.
  - (b) Enlistment letter issued by the Registering Authority duly renewed for the cycle period in vogue.
  - (c) Scanned copy of DD/Bankers Cheque toward cost of tender and EMD instrument in case SSD bond is not signed at the time of registration.
  - (d) GST & EPF Registration letter with Number.
  - (e) Security Clearance Performa as per Annexure 'A' or Existing Security clearance certificate(not older than three months) issued by concerned User unit as the case may be (**Refer Note 18 here-in-after**).
5. Contractors not enlisted with MES will be required to upload following documents in Cover-I for checking eligibility:-
  - (a) Application for tender on Firm's letter head.
  - (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) of Appendix 'A' here-in-above as per Para 1.5 of Section 1 of **MES Manual on Contracts**.
  - (e) Details of works being executed in MES, if any.
  - (f) GST & EPF Registration letter with Number.
  - (g) Security Clearance Performa as per Annexure 'A' or Existing Security clearance certificate(not older than three months) issued by concerned User unit as the case may be (**Refer Note 18 here-in-after**).
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 Technical bid and their finance bids will not be opened.
7. Contractors should ensure that their original physical DDs and Earnest Money Deposit (EMD) instruments (as applicable) reach the office of Accepting Officer within **07 days** of bid submission end date, failing which following action shall be taken.

**APPENDIX 'A' TO NOTICE INVITING TENDER [NIT] Contd.../-**

(a) In case of tenders from an enlisted contractors of MES, where scanned copies of requisite DD/Bankers Cheque towards cost of tender have been uploaded in Technical bid (Cover 1) but physical copies are not received by the stipulated period, their Financial bid (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 contractors, where scanned copies of requisite DD/Bankers Cheque towards cost of tender have been uploaded in Technical bid (Cover 1) but physical copies not received within the stipulated period, their Financial bid (Cover-2) will not be opened. Name of such contractors alongwith 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 contractor and unenlisted contractor, where scanned copies of instruments for Earnest Money Deposit (as applicable) have been uploaded in Cover-1 but 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 I 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 and 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 Demand Draft(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 this Appendix. Tenderer/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 tenderer, if desires, may appeal to the **Next Higher Engineer Authority (NHEA) i.e. HQ Chief Engineer (Air force) WAC Palam on email [dydircezafp2.e8-mes@gov.in](mailto:dydircezafp2.e8-mes@gov.in) with copy to the Accepting Officer on email** before the schedule date of opening of Financial bid(Cover 2). NHEA shall decide the matter within a period of seven working days from the date of receipt of appeal. The decision of the NHEA shall be final and binding. The tenderer/bidder shall not be entitled for any compensation whatsoever for rejection of his bid.

**11.** In case an unenlisted 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 the works being executed by such a contractor shall be uploaded in the Cover-I of the bid and shall be checked/verified by the Accepting Officer.

**12.** In case the BOQ is revised through the corrigendum and the bidder has failed to quote on 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/bonafied 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 unenlisted tenderer, Earnest Money deposited by him shall be forfeited. In case of MES enlisted tenderer having deposited the Standing Security Bond an amount equal to the earnest money stipulated in the NIT, shall be notified to the tenderer for depositing through MRO and consideration of such tenderer in tender evaluation for future 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.

**Contd/-**

**APPENDIX 'A' TO NOTICE INVITING TENDER [NIT] Contd..../-**

14. Irrespective of whatever is mentioned in condition 19.3 of IAFW 2249 & and Para 2.2 on srl Page No.04 of tender documents with regard to suspension of Tenders on account of non-submission of Performance Security Deposit, issue of tenders to such tenderers shall remain suspended for a period of six months from the date of cancellation of contract under condition 19.3 of IAFW 2249 in case of unenlisted Contractors. In case of MES enlisted contractor, issue of tenders shall remain suspended till deposit of EMD or six months from date of cancellation whichever is later.

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

16. Integrity Pact: Not applicable.

17. Joint Venture: Not applicable.

18. **JURISDICTION OF COURTS** : Court of the place from where 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.

No. 8326/SAR-T08/ 02 /E8

Commander Works Engineer (AF)  
Ambala Cantt

DCWE(Contracts)  
For Accepting Officer

Dated : 27 May 2026

IAFW-1779A (REVISED 1955)  
TO BE USED IN CONJUNCTION WITH GENERAL CONDITIONS OF  
CONTRACTS IAFW-2249 (1989 PRINT)

Tele : 2640036

Headquarters  
 Commanding Works Engineer (AF)  
 Ambala Cantt -133001

No 8326/SAR-T08/ 04 /E8

27 May 2026

**TENDER AND ITEM RATE CONTRACT FOR WORKS BY MEASUREMENT IN THE EXECUTION OF : CA NO CWE/AF AMB/SAR-T08/2026-27: INSTALLATION OF RUNWAY LIGHT FITTINGS AND OTHER CONNECTED ITEMS AT OVER RUN AREA OF UNDERSHOOT 27 END AND UNDERSHOOT 09 END AT AF STN SARSAWA UNDER GE AF SARSAWA**

Dear Sir(s),

1. M/s \_\_\_\_\_ of \_\_\_\_\_ is /are hereby authorized to E-tender for the above work. E-tender shall be submitted in electronic form duly digitally signed by the authorised Signatory of the tenderer on or before "**Bid submission end date**" as mentioned in NIT and the requisite documents as mentioned in the tender shall be physically delivered at the office of the Commander Works Engineer (AF) Ambala-133001 within **seven days** of bid submission end date and address to Commander Works Engineer (AF) Ambala Cantt-133001 and marked on the outside "**CONTRACT NO : CWE/AF AMB/SAR-T08/2026-27**".

2. Any Correspondence concerning this tender should be addressed as indicated at the top of this sheet quoting the reference to the tender id mentioned in the defproc.gov.in portal.

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

**SIGNATURE OF CONTRACTOR**

DATED \_\_\_\_\_

**SIGNATURE OF THE OFFICER  
 ISSUING TENDER  
 APPOINTMENT  
 DCWE/ACWE (CONTRACTS)  
 Dated \_\_\_\_\_**

**SCHEDULE 'A'/ BOQ NOTES:-**

1. (i) The Entire work under this contract shall be completed within **120 Days** from the date commencement of work as mentioned in **Work Order No 1** placed by **GE(AF) Sarsawa**. Work order No 1 shall be placed by GE only after the receipt of 'Performance Security Deposit' from contractor.  
  
(ii) If it is not possible for the GE to make the entire site available on order of the work due to any reasons and scattered site is available for carrying out the work, the contractor will have to make his work plan accordingly for carrying out the work and to achieve working progress in consultation with users as well as with the executives. The completion of work of part site/buildings will be handed over to users but the completion certificate will be issued by GE only after the completion of entire work of CA. No claim for any compensation or whatsoever will be tenable/entertained for not giving the entire site on order of the work in one go and for giving the site gradually.
2. The **defect liability period** of the work included in this tender shall be **Two year (24 Months)** irrespective of whatever else mentioned in tender or General conditions of contracts IAFW-2249 forming part of tender.
3. Description of items of works mentioned in Schedule 'A'/ BOQ are brief. These are deemed to be amplified and shall be read in conjunction with the provisions made in Schedule 'A'/ BOQ Notes, particular specifications, special conditions and MES standard Schedule of Rates.
4. The items and quantities mentioned in Schedule 'A'/ BOQ are provisional and inserted for guidance only and may be varied as per actual requirements. However these shall not be varied beyond the limits laid down in condition 7 of IAFW-2249 (General Conditions of Contracts)
5. The unit rates quoted by the tenderers shall be deemed to allow for minor extras which are not specifically specified but are essentially required for the execution of work in workman like manner and sound engineering practice. In case difference of opinion as whether a certain items of works constitute as minor extras or not, the decision of the Accepting Officer shall be final, conclusive and binding.
6. Unless specifically mentioned otherwise, the unit rates quoted in respective items of Schedule 'A'/ BOQ shall be deemed to include for provision of necessary materials, supplied and fixed, material and labour, jointing and testing etc required for entire completion of the works all as specified and directed.
7. The tenderers are advised to visit the site in consultation with the GE for ascertaining the actual location, nature, scope and quantum of the works involved against various items of Schedule 'A'/ BOQ. It is however clarified that no claim what so ever whether the tender (s) visit (s) the site or not shall be entertained at any stage on account of above.
8. Contractor will take all necessary precautions to avoid damage to existing structures or any other items of work. Any damage caused due to negligence or carelessness of the contractor during execution of the work, the same shall be made good by the contractor without any extra cost to the Govt.
9. The amount arrived at the end of amount column of Schedule 'A'/ BOQ is not firm but shall be treated as "Contract sum" as defined in IAFW-2249 (General conditions of Contracts).
10. Special Conditions in MES Schedule and preambles to items given in MES Schedule Part-II under respective trades shall be applicable. If any, provision in the description of items of Schedule 'A'/ BOQ and/or in particular specification(s) is at variance with the provisions in special conditions and preambles to MES Schedule items, the provisions as per description of Schedule 'A'/ BOQ and provisions in particular specifications shall take precedence.
11. Quality of materials: The materials to be incorporated under this contract shall be ISI marked and not their equivalents or those complying with IS particularly when ISI marked materials are available. Where specific makes/brands has been mentioned in Schedule 'A'/Particular specifications, then these shall take precedence to ISI marked items and if specified make/brands are manufactured with both i.e. with ISI marking and without ISI marking, then only ISI marked make/brand shall be acceptable/incorporated.
12. The IS codes wherever referred in tender documents shall be latest with upto date amendments as on end date of bid submission. Irrespective of whatsoever specified in tender documents, the provision as per latest amendment/revision of relevant IS shall be made applicable without any price adjustment.

**SCHEDULE 'A' BOQ NOTES (CONTD/-)**

13. The tenderer's quotation shall be deemed to be inclusive for all taxes/cess viz. GST, DUTIES, ROYALTIES, OCTROI AND OTHER LEVIES payable under respective statutes as applicable on the date of receipt of tender/ end date of bid submission. It is further clarified that irrespective of whatever is specified else where in the tender documents, the contractor's quoted rates shall be deemed to include for recovery of the labour welfare cess/tax as per the UP Govt Notifications/orders pursuant to enactment of Building and other construction Workers Welfare Cess Act 1996 (28 of 1996) by the Govt of India. It may be noted that that conditional tender regarding GST and/or on any other account will not be considered and shall be liable to be **REJECTED**. In this connection, also refer relevant special condition.

14. **T&P/Machinery & Transport** :- The contractor shall be required to strictly ensure engagement of engineers and deployment of 'T&P/Machinery & Transport' as required in the contracts. Inadequate engagement of engineer/deployment of 'T&P/Machinery & Transport' as per contract conditions shall be considered as serious lapse attracting ban/removal/downgrading/ debarment of your firm.

14.1 The contractor shall deploy minimum T&P and machinery on the work as per details given below. The contractor shall note that the list of machinery/equipment/plant given below is the minimum requirement. If additional machinery/plant/equipment other than these is required at any point of time for smooth execution and timely completion of the work the same shall be arranged by the contractor without any extra cost to the government.

Ser No	Description	Qty
1	HT meggar	01 No.
2	Tong tester	01 No.
3	Earth tester	01 No.
4	Portable drilling machine	01 No.

15. **Star Rates**:-

(i) In case of any deviation, mode of pricing shall be decided by Accepting Officer in terms of Condition of 62 of IAFW-2249. Irrespective of whatever has been specified elsewhere in these tender documents, pricing of the deviation order (s), if any, shall be done as per Condition 62 of IAFW-2249 (General conditions of Contracts).

(ii) In the event of a deviation order involving fixation of special (Star) Rate, Draft Rate shall be prepared by GE (within period of 30 days) while initiating the proposal for deviation seeking approval of Accepting Officer and notified to contractor. While notifying the Draft Rate, it will be clearly stipulated that the same is merely an estimated rate and firm rate shall be fixed based on actual and receipt of supporting documents from contractor such as vouchers/literature of product/test certificates etc (as applicable) on completion of the work involving Star Rate. Any objection to the method of fixing Star Rate will be dealt as per Condition 7 of IAFW-2249.

(iii) Draft Star Rate shall be made based on market enquiry through telephonic enquiry/ quotations/email /rate lists/internet based sources, material & labour constants available in various civil engineering books and record available in respect of Star rates approved in the past for similar items of work etc. Contractor may also assist GEs office in preparation of draft Star Rate.

(iv) The Draft Star Rate shall be purely a draft rate and shall not be used for claiming final payment during execution of work. However GE shall allow part payment to the tune of 80% during execution to avoid any financial hardship to contractor.

(v) After completion of the item of work involving Star Rate, contractor shall submit the vouchers/literature of product/ test certificates (as applicable), decision of GE being final in case of any disagreement for finalization of Star Rate. The Star Rate shall be technically checked by DCWE (C) / Director (C) depending upon the financial effect & approved by competent authority within a period of one month from submission of the relevant documents by contractor as mentioned above.

(vi) The star rate as approved by competent authority after technical check by DCWE (C)/ Director (C) depending upon the financial effect shall be referred as **"the rate decided by GE"** under Para 62 (G) of IAFW-2249.

Contd.../-

SCHEDULE 'A' BOQ NOTES (CONTD/-)**16. REQUIREMENT OF ELECTRICAL LICENCE FOR CARRYING OUT ELECTRICAL WORKS:-**

(i) No electrical installation work including additions, alterations, repairs and adjustments to existing installations except such replacement of lamps, fans, fuses, switches, low voltage domestic appliances and fittings as in no way alters its capacity or character shall be carried out upon the premises of or on behalf of any consumer, owner or occupier, for the purpose of supply to such consumer, owner or occupier except by an electrical contractor licensed in this behalf by the State Government and under the direct supervision of a person holding a certificate of competency and by a person holding a permit issued and recognized by the State Government.

(ii) For execution of electrical works/electrical component of works requiring **Electrical Licence** in accordance with Rule 29, the contractor shall have valid Electrical License issued by the concerned State/Union Territory in the name of the Firm or get the work executed through an agency having valid Electrical Licence. Items of works under category (c) including its sub categories (i) to (vii) and category (d) (v) shall also be executed in this manner to the extent Rule 29 is applicable to such items. In addition, supervisor for execution of electrical works/electrical components of work employed by the contractor shall possess supervisor certificate of competency issued by the concerned State/Union Territory and the workers/tradesman for execution of electrical works/electrical components of work shall hold.

(iii) Prior to commencement of electrical work/electrical component of works as mentioned here-in-before, copy of valid Electrical Licence in the name of the contractor or copy of agreement with agency having valid Electrical Licence alongwith agency's Electrical Licence shall be **submitted by the contractor to the Accepting Officer** through GE. In case contractor does not possess valid Electrical Licence and he intends to get such work executed through agency having valid electrical licence and with whom he has agreement, **prior approval of such agency in all contracts shall be got done** from Accepting officer. Copy of licence shall be kept on record by GE.

**17.** The abbreviations mainly used in BOQ/Tender of the contract shall have the meaning or implications as assigned to them here-in-after.

- (a) RM/ Cum/ Sqm = Running Metre / Cubic Metre/ Square Metre
- (b) Sqcm/Sqmm = Square Centimetre/Square milimetre
- (c) Kg/Km = Kilogram/Kilometre
- (d) Qtl = Quintal
- (e) n. exc./exc. = Not exceeding/ exceeding
- (f) M&L or M/L = Material and labour
- (g) S&F or S/F = Supply and Fixing
- (h) CM = Cement Mortar
- (j) T&P = Tools & Plant
- (k) U/S = Unserviceable.
- (l) MS/GI = Mild steel/Galvanized iron
- (m) cm/mm/ml = centimetre/milimetre/mililitre
- (n) mtr/ltr = metre/litre
- (o) Amp/Hz = Ampere/Hertz
- (p) No./Nos. = Number/Numbers
- (q) LPM/Hz/HP = Litre per minute/Hertz/Horse power
- (r) dia = diameter
- (s) LT/HT = Low tension/High tension
- (t) IS = Indian Standard

Contd.../-

**SCHEDULE 'A' BOQ NOTES (CONTD/-)**

18. **DEVIATIONS (REFER CONDITION 64 OF IAFW-2249):** Contractor's special attention is invited to the fact that no deviation at site shall be implemented / executed without prior written approval of deviation along with details of rates & mode of measurement by the competent authority (Accepting Officer/GE). It is also added that deviation if any executed by the contractor at site without written approval, he shall be doing so at his risk & cost. No payment for such work carried out by contractor shall be made to him in RARs/Final Bill. In case, payment on this account is released by the MES in any of the RARs inadvertently, MES may deduct the same at a later stage from any subsequent RARs or Final Bill and contractor shall not have any whatsoever on this account at a later date.

19. BLANK.

20. **Freak Low Rate Items:** The contractor's special attention is invited that the BOQ/Sch 'A' item, declared "Freak High/Low rate items" shall be executed not beyond 25% (Plus/Minus) the CA quantity respectively. In case execution of Freak High/Low items are found inescapably necessary to increase the quantities beyond 25% of the CA quantities, for items which rates considered freakishly high or to decrease the quantities beyond 25% of the CA quantities for items which rates are freakishly low, such deviation shall have the prior approval of the CE/CCE. The decision of Accepting officer in this regard shall be final, conclusive & binding.

21. **Location:-** The work under this contract shall be executed under Job No.: **WAC/CAP/OTM/8/30WG/23-24 : INSTALLATION OF RUNWAY LIGHT FITTINGS AND OTHER CONNECTED ITEMS AT OVER RUN AREA OF UNDERSHOOT 27 END AND UNDERSHOOT 09 END AT AF STN SARSAWA UNDER GE AF SARSAWA**

SIGNATURE OF CONTRACTOR  
DATED : \_\_\_\_\_

DCWE(Contracts)  
FOR ACCEPTING OFFICER

Contd....

**SCHEDULE `B`**  
**ISSUE OF MATERIALS TO THE CONTRACTORS**  
**(SEE CONDITION 10 OF IAFW-2249)**

Ser No	Particulars	Rate at which materials will be issued to the Contractor		Place of issue by name for all items of this schedule	Remarks
		Unit	Rate(Rs.)		
(1)	(2)	(3)	(4)	(5)	(6)
-----NIL-----					

(SIGNATURE OF CONTRACTOR)

DCWE(Contracts)  
FOR ACCEPTING OFFICER

**SCHEDULE `C`**

**LIST OF TOOLS AND PLANTS (OTHER THAN TRANSPORT WHICH WILL BE HIRED TO THE CONTRACTOR SEE CONDITIONS 15 AND 35 OF IAFW-2249 (1989 PRINT))**

Sl No	Qty	Particulars	Details of MES crew supplied	Hire charges per unit per Workingday Rs	Stand by charges per unit per offday Rs	Place of issue By name	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
----- Nil -----							

(SIGNATURE OF CONTRACTOR)

DCWE(Contracts)  
FOR ACCEPTING OFFICER

**SCHEDULE `D`**

**TRANSPORT TO BE HIRED TO THE CONTRACTOR (SEE CONDITION 16 AND 35 OF IAFW-2249 - 1989 PRINT)**

Sl No	Qty	Particulars	Rate per unit per Workingday of 8 hours (Rs)	Place(s) of issue (by name)	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
----- Nil -----					

(SIGNATURE OF CONTRACTOR)

DCWE(Contracts)  
FOR ACCEPTING OFFICER

**TENDER****TO THE PRESIDENT OF INDIA: -**

Having examined and perused the following documents: -

1. Specifications signed by **DCWE(Contracts)**
2. Drawings detailed in the specifications
3. Schedule 'A', 'B', 'C' and 'D' attached hereto.
4. MES Standard Schedule of Rates(SSR) 2009 [Part-I] Specifications and SSR-2020 [Part- II] Rates (hereinafter referred to as the `MES SCHEDULE') together with errata/amendment Nos **1 to 3** for SSR Part – I & **01 to 122** including Section No. 30 (Runway & Pavement) containing item Nos. 30001 to 30053 for SSR Part-II as applicable to the above said Schedules.
5. General Conditions of Contracts, IAFW-2249, 1989 print, together with **amendment No 1 to 49** and Errata 1 to 20.

**6. WATER CONDITION 31 OF IAFW-2249, GENERAL CONDITIONS OF CONTRACTS**

Water will be supplied by MES. Refer condition 9 of Special Condition.

\*\*

Should this tender be accepted I/WE AGREE: -

\*(a) That the sum of .....(Rupees .....only)  
forwarded as Earnest Money shall either be retained as a part of the security deposit or be refunded by the Government on receipt of the appropriate amount of Security Deposit all as per **Condition 19 of IAFW-2249**.

(b) To execute all the works referred to in the said documents upon the terms and conditions contained/referred to therein and as detailed in the General Summary and to carry out such deviations as may be ordered vide Condition 7 of IAFW-2249 upto a maximum of **Ten Percent** and further agree to refer all disputes as required vide condition 70 of IAFW-2249 to the Sole Arbitration of a serving officer having degree in Engineering or equivalent or having passed final/direct final examination of Sub Division II of Institution of Surveyor (India) recognized by the Govt of India to be appointed by the **Chief Engineer Western command** or in his absence, by the officer officiating as **Chief Engineer Western command**, whose decision shall be final, conclusive and binding.

\* To be deleted where not applicable.

To be deleted whichever is not required.

Contd...

**TENDER(CONTD.....)**

For the Contract sum of Rs. \_\_\_\_\_ Rupees \_\_\_\_\_

Signature \_\_\_\_\_ Name \_\_\_\_\_

In the capacity of \_\_\_\_\_ duly authorized to sign tender for and on behalf of

M/s \_\_\_\_\_ (IN BLOCK LETTERS)

**WITNESS**

(Signature & Name)

Date \_\_\_\_\_

Address \_\_\_\_\_

Postal Address \_\_\_\_\_

Telegraphic address \_\_\_\_\_

Phone No. \_\_\_\_\_

**ACCEPTANCE**

\_\_\_\_\_ alterations have been made in this document and as evidence that these alterations were made before the execution of the Contract Agreement, they have been initialed by the contractor and Shri Vivek Tanenia, DCWE(Contracts) .

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

The above tender was accepted by me on behalf of the President of India for Contract sum of

Rs. \_\_\_\_\_ Rupees \_\_\_\_\_

\_\_\_\_\_ on the

\_\_\_\_\_ day \_\_\_\_\_ 2026

Signature \_\_\_\_\_ dated this on the \_\_\_\_\_ day of \_\_\_\_\_ 2026

**Appointment: Commander Works Engineer (AF) Ambala  
(FOR AND ON BEHALF OF THE PRESIDENT OF INDIA)**

**GENERAL CONDITIONS OF CONTRACTS (IAFW-2249: PRINT-1989)**  
**FOR**  
**LUMP SUM CONTRACTS (IAFW-2159)/MEASUREMENT CONTRACTS (IAFW 1779 & 1779A)**

A copy of the MES GENERAL CONDITIONS OF CONTRACTS (IAFW-2249: Print-1989) with Errata and Amendments has been supplied to me/us and is in my/our possession. I/We have read and understood the provisions contained in the aforesaid GENERAL CONDITIONS OF CONTRACTS before submission of this tender and I/We agree that I/We shall abide by the terms and conditions thereof.

It is hereby further agreed and declared by me/us, that the MES General Conditions of Contracts (IAFW-2249: Print - 1989) including Condition 70 thereof pertaining to settlement of disputes by Arbitration, containing **33 pages** (Serial page Nos 25 to 57) with errata 1 to 20 and Amendment Nos. 1 to 49 containing 16 pages (Serial Page Nos. 58 to 73) form part of these tender documents.

SIGNATURE OF CONTRACTOR  
 DATED : \_\_\_\_\_

DCWE(Contracts)  
 FOR ACCEPTING OFFICER

**SCHEDULE OF MINIMUM FAIR WAGES**

It is hereby agreed that the "Schedule of Minimum Fair Wages" (SMFW) as published vide Government of India Notification dated \*10 Mar 92 (Revised up to date) forms part of these tender documents containing **10 pages** (Serial page **Nos 74 to 83**).

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

NOTE : "Schedule of Minimum Fair Wages" referred to above is available for reference, in the Office of Accepting Officer"

SIGNATURE OF CONTRACTOR  
 DATED : \_\_\_\_\_

DCWE(Contracts)  
 FOR ACCEPTING OFFICER

**SPECIAL CONDITIONS**

1. **GENERAL:** The following Special Conditions shall be read in conjunction with the General Conditions of Contracts, IAFW-2249, IAFW-2159 and IAFW-1779A including Errata/ amendments thereto. If any provision in these Special Conditions is at variance with that of the aforesaid documents, the former shall be deemed to take precedence there over.

**2. INSPECTION OF SITE BY THE TENDERER(S)**

(a) The tenderer(s) are advised to contact the Garrison Engineer for the purpose of inspection of site(s) and relevant documents other than those sent herewith, who will give reasonable facilities for this purpose. The tenderer(s) shall also make themselves familiar with the working conditions, accessibility of site(s), availability of materials and other cogent conditions, which may affect the entire completion of work under this contract.

(b) The tenderer(s) shall be deemed to have inspected the site(s) and made themselves familiar with the working conditions, whether they have actually inspect the site (s) or not. No claim, whatsoever, shall be admissible to the contractor on this account.

3. **HANDING OVER OF SITE(S):** Site(s) for execution of work will be available as soon as the work is awarded. In case it is not possible to make the entire site available on the award of work, the contractor will have to arrange his working programme accordingly. No claim whatsoever, for not giving the entire site on award of work and giving the site gradually, will be tenable.

**4. EMPLOYMENT OF PERSONNEL**

4.1 Contractor shall employ only Indian Nationals as his representatives, servants and workmen after verifying their antecedents and loyalty. He shall ensure that no person of doubtful antecedents and nationally is, in any way, associated with the work. As a proof that the contractor has employed only Indian Nationals, he shall render a certificate to GE within one month from the date of acceptance of tender to this effect. In case the GE desires, the contractor will have the police verification done of personnel employed by him. If for reasons of technical collaboration or other considerations the employment of foreign national(s) is unavoidable, the contractor shall furnish full particulars to this effect to the Accepting Officer at the time of submission of the tender.

4.2 The GE shall have full powers and without giving any reason to order the contractor immediately to cease to employ, in connection with his contract, any agent, servant or employee whose continued employment is, in his opinion, undesirable. The contractor shall not be allowed any compensation on this account.

4.3 The contractor's attention is also drawn to condition 25 of IAFW-2249 in this connection.

5. **CONDITION FOR WORKING IN RESTRICTED AREA:-** The work covered in the tender lies in restricted area:-

5.1 **Visit to site within the Restricted Area:** Permission to enter the restricted area at the time of submission of tenders for inspection of site(s) by the tenderer (s) can be obtained through the Garrison Engineer. Tenderers are advised to send prior intimation of their agents, representatives etc well in advance to the appointed dates and time of their proposed visit so that necessary arrangements may be made by GE to secure admission. Whether tenderer visit the site or not, he shall be deemed to have full knowledge of the restrictions of entering into/exit from and within the Restricted area and other cognate conditions which may effect the entire work.

5.2 **ENTRY AND EXIT:** The contractor, his agent(s), representatives, workmen etc and his materials, carts, trucks or other means of transports etc, will be allowed to enter through and leave from only such gate or gates and at such times as the GE or authorities incharge of the restricted Area may at their sole discretion permit to be used. The contractor's authorized representative is required to be present at the place of entry and exit for the purpose of identifying his carts, truck etc to the person incharge of the security of Restricted Areas.

5.3 **IDENTITY CARDS OR PASSES:** The contractors, his agents and representatives are required individually to be in possession of an identity card or pass duly verified by the police department. Police verification shall be got done by the contractor at his own cost all as directed by the Engineer-in-Charge/GE. The identity card or pass will be examined by the security staff at the time of entry into or exit from the restricted area and also at any time or number of times inside the Restricted Area.

Continued.../-

**SPECIAL CONDITIONS(CONTD...)**

5.3.1 **IDENTITY OF WORKMEN:** Every Workmen shall be in possession of an identity card. The identity card shall be issued after thorough investigation of the antecedents of the labourers by the contractors and attested by the Officer-in-Charge of the unit concerned in accordance with the standing rules and regulations of the units.

5.3.2 Contractor shall be responsible for the conduct and action of his workmen, agents and representatives.

5.4 **SEARCH:** Thorough search of all persons and transport shall be carried out at each gate and for as many times as a gate is used for entry or exit and may also be carried out at any time or any number of times at the work site.

5.5 **WORKING HOURS.** The units controlling Area, usually work during six days in a week and remain closed on the 7<sup>th</sup> day. The working hours available to the contractor's labour and staff are however, appreciably reduced because of the time consumed in security checks observed at the time of entry, exit and during working hours. The exact working hours, days and non working days observed for the restricted area(s), where works are to be carried out shall be deemed to have been ascertained by the contractor before submitting his tender. The tenderer's attention is invited to the fact that the total numbers of working hours for a unit are prescribed in regulations and they cannot be increased by the Garrison Engineer or authorities controlling the restricted area. The definition of "working days" as given under condition 1 (t) of IAFW-2249 does not apply in case where the works are carried out in restricted area.

5.6. **WORKING ON HOLIDAYS:** The contractor shall not carry out any work on gazetted holidays, weekly holidays, and other non working days except when he is specially authorized in writing to do so by the GE. The GE may at his sole discretion declare any day as holiday or non working day without assigning any reasons for such declaration.

5.7. **FIRE PRECAUTIONS:**

5.7.1 The contractor, his agents, representatives, workmen etc, shall strictly observe the orders pertaining to fire precautions prevailing within the restricted area.

5.7.2 Motor transport vehicles, if any, allowed by authorities to enter the area must be fitted with serviceable fire extinguishers.

5.8 **FEMALE SEARCHER:** If the contractor desires to employ female labours on work to be carried out inside the area and a female searcher is not borne on the authorized strength at the time of submission of tender, he shall be deemed to have allowed in his tender for pay and allowances etc, for a female searcher (Class IV servant/ GP 'D' servant) calculated for the period female labour is employed by him inside that area. If more than one contractor has/have to be employed in addition to the authorized strength, the salary and allowances paid on an equitable basis between the contractor employeering female labour taking in to consideration the value and period of completion of their contracts. The GE's decision with regard to the amount recoverable on this account from any contractor shall be final and binding.

**6. MINIMUM WAGES PAYABLE**

6.1 Refer Conditions 58 of IAFW-2249. The contractor shall not pay wages lower than minimum wages for labour as fixed by the Govt. of India/State Govt/Union territory whichever is higher.

6.2 Contractor's attention is also drawn, amongst other things to the 'explanations' to the schedule of minimum wages referred to above.

6.3 The fair wage referred to in condition 58 of IAFW-2249 will be deemed to be the same as the minimum wages payable, referred to above as upto date from time to time.

6.4 Schedule of minimum wages are not enclosed alongwith tender documents. However contractor shall be deemed to have verified the minimum fair wages payable as on the last due date of receipt of tender.

6.5 The contractor shall have no claim whatsoever, if on account of local factors and or regulations, he is required to pay the wages in excess of minimum wages as described above during the execution of work.

**7. QUARRIES ON DEFENCE LAND:** Reference Condition 14 of General Conditions of Contracts (IAFW-2249). No quarries on Defence land are available.

**8. LAND FOR TEMPORARY WORKSHOPS, STORES ETC.** Refer condition 24 of IAFW-2249 (General Conditions of Contracts) Delete the following contents from lines 5 to 9 of sub para 1 of condition 24 of IAFW-2249 reading "In the event of . . . . . allotted to him" and insert as under: -"Separate land as directed by the GE will be allotted to the contractor for the storage of materials & temporary workshop for which he shall pay the nominal rent of Rupee 1/- per year or part of a year as mentioned in condition 24 of IAFW 2249. No land for accommodation of Labour Office and canteen will be allotted."

**SPECIAL CONDITIONS(CONTD...)****9. WATER**

9.1 Refer to Condition 31 of IAFW-2249 (General Conditions of Contracts). Water will be supplied by MES to the contractor at the point(s) as marked on site plan or otherwise at the points as decided by the GE from the piped system and shall be paid by the contractor @ **Rs. 3.75 per Rs. 1000/-worth of work done priced at contract rates or at Rs 28.91 per 1000 ltrs of water (in case of metered supply)**.. The contractor shall arrange at his own expense for storage of water and lifting pumping, carrying of conveying water to the site of work as required.

9.2 The supply of water may not be continuous. The contractor shall be deemed to have ascertained the hours of availability of water before submitting his tender. The MES do not guarantee the continuity of water supply and no compensation shall be allowed for intermittent or inadequate water supply and break down in the system. If the supply is not sufficient, the contractor shall make his own arrangement to supplement the water supply at his own cost. For this purpose the contractor shall be allowed to install hand pump(s) at the site of work at places as directed by the Engineer-in-Charge without any charges from the contractor on this account. The contractor shall remove the hand pumps as and when asked to do so by Engineer-in-Charge or GE and in any case on completion of work. No compensation whatsoever shall be admissible to the contractor if the GE requires him to remove the pumps before completion of work.

9.3 Work done with water arranged by the contractor and not meeting the requirement of IS: 456 is liable for rejection.

**10. CO-ORDINATION WITH OTHER AGENCIES:**The contractor shall permit free access and afford normal facilities and usual convenience to other agencies or departmental workmen to carryout connected works of services under separate arrangements. The contractor will not be allowed any extra payment on this account.

**11. ELECTRIC SUPPLY**

11.1 In case the contractor desires to buy electricity required for the work, the same shall be made available upto a maximum of 20 KW, three phase, 4 wire system by MES from the location of existing transformer as indicated in the site plan and in case not indicated, from the location as directed by the GE. The main switch, KWH meters to register the electric energy supplied and main switch shall be provided and installed by the **MES**. Contractor shall provide all necessary cables, fittings etc. from the main switch in order to ensure a proper and suitable supply of electricity for execution of work.

11.2 The contractor will be charged for the electric energy consumed for the execution of works at **Rs 19.51 per unit** for lighting as well as for power.

11.3 MES do not guarantee continuity of supply and no compensation whatsoever shall be allowed for supply becoming intermittent or for breakdown in the system.

11.4 GE or his representative shall be free to inspect all the power consuming devices or any electric lines provided by the contractor. Any device or electric lines provided by the contractor, which are not to the satisfaction of the GE, shall be disconnected from the supply, if so directed by him and no claim for any compensation whatsoever may be, shall be allowed on this account.

**12. NET WORK ANALYSIS**

12.1 The time and progress chart shall be prepared as per condition 11 of General Conditions of Contracts (IAFW-2249) and shall consist of detailed network analysis and a time Schedule. The critical path network will be drawn jointly by the GE and the contractor soon after acceptance of tender. The time scheduling of the activities will be done by the contractor so as to finish the work within the stipulated time. On completion of the time schedule, a firm calendar date Schedule will be prepared and submitted by the contractor to the GE who will approve it after due scrutiny. The schedule will be submitted in four copies within two weeks from the date of handing over the site.

12.2 During the currency of work, the contractor will adhere to the time schedule and this adherence will be a part of the contractor's performance under the contract. During the execution of the work the contractor is expected to participate in the reviews and updating of the net work undertaken by the GE. These reviews may be undertaken at the discretion of the GE either as a periodic appraisal measure or when the quantum of work ordered on the contractor is substantially changed through deviation orders or amendments. Any revision of the schedule as a result of the review will be submitted by the contractor to GE within a week who will approve it after due scrutiny.

**SPECIAL CONDITIONS (CONTD...)**

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

12.4 Contractor shall mobilize and employ sufficient resources to achieve the detailed schedule within the broad framework of the accepted method of working and safety. No additional payment will be made to contractor for any multiple shift work or other incentive methods contemplated by him in his work schedule even though the time schedule is approved by the deptt.

**13. MATERIALS AND SAMPLE**

13.1 Refer condition 10 of IAFW-2249.

13.2 The Materials and articles listed in **Appendix 'C'** shall bear ISI embossed certification mark(s).

13.3 The materials listed in **Appendix 'E'** are generally superior to ISI certified products and the same shall be of make (s)/manufacturer (s) specified in these tender documents.

13.4 The materials referred to in **Appendix 'D'** are of local origin and the same shall be procured from the sources as indicated against each and shall conform to the specifications given in these tender documents, MES schedule and in I.S.

13.5 The materials and articles, which have been specified from certain makes/manufacturers, shall be of makes/ manufacturers as specified. If the manufacturers specified in tender documents make both ISI marked and conforming to ISI, the materials/articles shall be ISI marked.

13.6 The materials and articles, which have not been specified in tender documents by makes/manufacturers, shall be as under :-

(i) If ISI marked materials are being manufactured the same shall be ISI marked. For list of ISI marked manufacturers refer website of BIS i.e, [www.bis.org.in](http://www.bis.org.in).

(ii) If ISI marked materials are not being manufactured the same shall be conforming to IS specifications.

13.7 In case of any materials listed in these Appendices and /or in particular specifications are not required in connection with this contract; these shall be treated as deleted.

13.8 The tenderer is advised to inspect samples of the materials whichever displayed in the office of GE, before submitting the tender. The tenderer shall be deemed to have inspected the samples and satisfied himself as to the nature and quality of materials, he is required to incorporate in the work irrespective of whether he has actually inspected them or not. The materials to be incorporated in the work by the contractor shall comply with the specifications given in these tender documents .

13.9. The contractor shall not procure materials and articles unless the samples are first got approved by the GE in writing.

**14. TESTING OF MATERIALS**

14.1. All the materials to be incorporated in the work shall be subjected to quality control tests as per the testing procedure and frequency as laid down in appendix 'B' & relevant IS and as indicated in these tender documents.

14.2. Irrespective of whatever is indicated elsewhere in the tender documents, the modalities of testing arrangements shall be as mentioned here in after.

14.3 **'A' LEVEL TESTS FOR WORKS COSTING UPTO RS. 100 LAKHS** : The contractor may set up site laboratory for testing of materials (except Sch 'B' materials ) for 'A' level tests as listed in Appendix hereto. The contractor shall arrange all equipment/machines for the tests specified in **Appendix 'B'** as A level tests at his own cost with prior approval of GE. This cost shall be included in the lump-sum costs/ unit sketch quoted by the contractor. The contractor shall employ a competent technical representative as approved by the GE for the purpose of testing and all such tests shall be carried out in the presence of Engineer-in-Charge. The successful tests result thereof shall be recorded and signed jointly by the contractor and the Engineer-in-Charge. The charges for these test i.e. A level tests carried out in site laboratory of the contractor shall not be recovered. In case, the contractor has not set up the site laboratory setup/approved by GE, the recovery shall be made at rates applicable i.e as given in **Appendix 'B'**.

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**SPECIAL CONDITIONS (CONTD...)**

14.4. **'B' & 'C' Level Tests** : For tests of 'B' and 'C' level as indicated in Appendix attached, the contractor shall provide all facilities for testing of materials at Zonal laboratory /Govt approved laboratories or test house/Engg. Colleges at his own cost. The lump sum/ unit rates quoted by the contractor shall be deemed to be inclusive of these tests. The rates of various tests conducted in Laboratory of MES are indicated in Appendix-'B'. The contractor shall bear the actual charges of 'C' level tests (to be done in labs other than MES labs) irrespective of rates indicated in Appendix. Wherever it is convenient to get 'B' level test done at approved test house/Engg. College, the same can be done at the cost of the contractor and no separate recoveries will be made by the Department for the same.

14.5. The recoveries on account of testing charges wherever applicable shall be effected from the running account payments due to the contractor payable after completion of the respective tests or whenever the test is due whichever is earlier.

14.6 Any tests marked as type 'A', 'B' or 'C' in **Appendix 'B'** if got done at SEMT wing,Pune, testing charges as indicated against them will be recovered from the contractor. In addition to this, the contractor shall arrange for samples and its handling/transportation to the concerned labs at his own cost.

14.7 The tests marked as type 'B' and 'C' will not be carried out in the site laboratory. These tests shall be carried out only in SEMT wing/Govt approved lab/National test House/Govt Engineering College as approved by the GE. In case type 'B' and 'C' testing is done in SEMT wing, the testing charges recovered shall be as indicated in the Appendix to the particular specifications (PS). Against each test. However if testing is done in other places as mentioned above, the actual test cost will be directly borne by the contractor.

14.8 The list of tests given in Appendix to Particular Specifications contain only a few common tests. However all other tests required in the work but not covered in this Appendix as decided by GE shall also be got done from Govt approved lab/ Govt Engineering College /National test house approved by GE and entire cost of sample, handling, transportation and actual testing charges will be borne by the contractor directly.

**15. RECORD OF CONSUMPTION OF CEMENT**

15.1 The contractor shall maintain a pucca bound register with serially numbered pages with all pages initialed by Engineer-in-Charge against numbering showing quantities of cement received, used in work and balance at the end of each day. The form of record shall be as approved by Engineer-in-Charge. The register shall be signed daily by representatives of MES and the contractor in token of verification of its correctness and will be checked by Engineer-in-Charge, at least once a week and on the days cement is brought by the contractor.

15.2 The register shall be kept at site in safe custody of the contractor's representative during the progress of the work and shall on demand be produced for verification to the inspecting officer(s).

15.3 On completion of the work the contractor shall deposit the cement register with the Engineer-in-Charge for record.

**16. PERIOD FOR KEEPING THE TENDER OPEN:**The tender shall remain open for acceptance for a period of **90 (Ninety) days** and shall commence from next date to last date of bid submission.

**17. ADVANCES ON ACCOUNT AGAINST MATERIALS WHICH DOES NOT LOOSE IDENTITY ( REFER CONDITION 64 OF IAFW-2249)(APPLICABLE FOR TENDERS WHOSE ESTIMATED COST AT MARKET RATES EXCEEDS RUPEES 50 LAKHS)**

17.1 Condition 64 of IAFW-2249 Advances on Account : Add the contents given here-in-after in continuation of Para 8 of condition 64 of IAFW-2249.

17.2 Provided further the contractor may be paid advance on account of the full value of the under mentioned materials only, (in case these are required to be incorporated in the work), brought on the site, on his furnishing Guarantee Bond(s) from a Scheduled Bank for the amount of retention money which should otherwise be recoverable from him under contract:-

- (a) HT/LT cable /jointing kits
- (b) Lubricant/transformer oil
- (c) HDPE/PVC/MS/GI Pipes
- (d) Steel & Cement
- (e) Air break switch/lightening arrester/steel pole/insulator any type
- (f) Lead Acid battery
- (g) Aluminium / copper strip
- (h) All other non-perishable materials which do not lose their identity as decided by GE.

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**SPECIAL CONDITIONS(CONTD...)**

17.3 The Bank Guarantee Bond(s) shall be executed for a period and on a form as directed by the Accepting Officer. The contractor shall further arrange to extend the period of Guarantee Bond if and when necessary, as directed by the Accepting Officer or shall furnish fresh guarantee bond of similar value in lieu.

17.4 It will be noted that advance on account to the full value of materials brought at site is permissible only in respect of fittings and fixtures and other manufactured items which do not lose their identity. Materials like bricks, aggregate, pre-cast concrete, sand and similar items shall not be considered for payment under this special condition.

**18. SECURITY OF CLASSIFIED DOCUMENTS:** Contractor's special attention is drawn to conditions 2-A and 3 of IAFW-2249 (General Conditions of Contracts). The contractor shall not communicate any classified information regarding the work either to sub-contractors or others without the prior approval of the Engineer-in-Charge. The contractor shall also not make copies of the design/drawings and other documents furnished to him in respect of the works, and shall return all documents on completion of the works or on earlier determination of the Contract. The contractor shall along-with the final bill, attach a receipt of his having returned the classified documents as per condition 3 of IAFW-2249 (General Conditions of Contracts).

**19. INDIAN OFFICIAL SECRETS ACT-1923:** The contractor shall be bound by the Indian Official Secrets Act – 1923.

**20. RECORD OF MATERIALS AND PURCHASE VOUCHERS**

20.1 The quantity of materials such as cement, steel, paints, water proofing compound, chemicals for antitermite treatment and the like, as directed by the Engineer-in-Charge (the quantity of which cannot be checked after incorporation in the works), shall be recorded in measurement books as "Not to be Abstracted" and signed by the contractor & the Engineer-in-Charge as a check to ensure that the required quantity has been brought to site for incorporation in the work.

20.2 Materials brought to site shall be stored as directed by the Engineer-in-Charge and those already recorded in measurement book shall be suitably marked for identification.

20.3 Contractor shall produce vouchers/invoices from the manufacturers and/or their authorized agents for the full quantity of the following materials, as applicable as a pre-requisite before submitting claims for payment for advances on account of the work done and/or materials collected in accordance with Condition 64 of General Conditions of Contracts (IAFW-2249). Production of vouchers by the contractor shall be his mandatory contractual obligation and shall be fully complied by him :-

- (a) HT/LT cable /jointing kits
- (b) Lubricant/transformer oil
- (c) HDPE/PVC/MS/GI Pipes
- (d) Steel & Cement
- (e) Air break switch/lightening arrester/steel pole/insulator any type
- (f) Lead Acid battery
- (g) Aluminium / copper strip
- (h) All other items as decided by GE.

20.4 The contractor shall, on demand, produce to the GE, original receipted vouchers/ invoices in respect of the materials other than as stated in sub-para 20.3 above . The vouchers/invoices so produced shall be defaced, verified and stamped by Engineer-in-Charge indicating contract number, name of work, under his dated signature. The contractor shall ensure that the materials are brought to site, in original sealed containers/packing, bearing manufacturer's marking except in the case of the requirement of material(s) being less than smallest packing.

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

**21. STANDARD OF WORKMANSHIP**

21.1 In order to achieve the acceptable standard of workmanship and layout of fittings, fixtures etc, a sample work (one quarter in case of new building work) shall be completed by the contractor well in advance as directed by GE to serve as guiding sample work/sample quarter as applicable. The sample works shall be completed under close supervision of Engineer-in-Charge & and shall be got approved from GE. The workmanship of various trades and finishes of these sample works shall serve as guiding sample and all further works shall be executed to conform to corresponding sample work.

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**SPECIAL CONDITIONS(CONTD...)**

21.2 The provisions as given hereinbefore, shall however do not absolve the responsibility of the contractor for execution of work as per contract provisions.

21.3 For levy of compensation and other purpose, the period of completion specified in Schedule 'A'/ BOQ Notes shall form the basis.

**22. SECURITY AGAINST LOSS OR DAMAGE**

22.1 The contractor shall furnish to the Engineer-in-Charge every morning distribution return of his plants/equipments on the site of work stating the following particulars: -

(i) Particulars of plants/equipments, their make manufacture No, Model No. If any.Registration No, if any, capacity, year of manufacture and year of purchase etc.  
(ii) Total No (Quantity) on site of work.

(iii) Location, indication No. (quantity) at each location of site of work.

(iv) Purchase value on the date of purchase. For the purpose of the condition, plant/equipment, shall include vehicles i.e. trucks and lorries but neither the workmen's tools nor any manually operated tools/equipment. The Engineer-in-Charge shall record the particulars, supplied by the contractor in the works diary and send the return to the GE for record in his office.

22.2 **LOSS OR DAMAGE ON ACCOUNT OF ENEMY ACTION** :- If as a result of enemy action, the Contractor suffers any loss or damage, the Government shall reimburse to the Contractor such loss or damage to the extent and in the manner hereinafter provided: -

(i) The loss suffered by him on account of any damage or destruction of his plant/ equipment (as defined in special condition 22.1 above) or materials or any part or parts thereof. (The amount of loss assessed by the Accepting Officer, on this account shall be final and binding).

(ii) The compensation paid by him under any law for the time being in force to any workman employed by him for any injury caused to him or to the workman's legal successors for loss of the workman'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 General Conditions of Contracts IAFW-2249). No reimbursement shall be made nor shall any compensation be payable under the above provision unless the Contractor had taken Air Defence Precautions ordered in writing by the GE/OC concerned or in the absence of such orders, reasonable precautions. No reimbursement shall be payable nor shall any compensation be payable for any plant/equipment or materials not lying on site of work at the time of enemy action.

**23. RELEASE OF PERFORMANCE SECURITY DEPOSIT**

23.1 Refer Conditions 68 of IAFW-2249.

23.2 The performance security deposit mentioned in condition 19 shall be refunded to the contractor after the expiration of defect liability period by the GE as per condition 46 of IAFW-2249 (General Conditions of Contracts) provided always that the contractor shall first have been paid the Final Bill and have rendered a No demand certificate on IAFA-451.

**24. CLEANING DOWN (Refer Condition 49 of IAFW-2249 : General Conditions of Contracts):-**

The contractor shall clean all floors, walls, remove cement, lime or paint drops, clean the joinery, glass panes etc., touch up all paint 79 and carryout all other necessary items of work in connection therewith and have the whole premises in clean and tidy condition to the entire satisfaction of Engineer-in-Charge before handing over items/works. No extra payment shall be admissible to the contractor for this operation.

**25. REIMBURSEMENT/REFUND ON VARIATION IN "TAXES DIRECTLY RELATED TO CONTRACT VALUE":**

(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 end date of bid submission. Any increase in percentage rates of "taxes directly related to Contract value" with reference to prevailing rates on last date of bid submission 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 end date of bid submission shall be refunded by the Contractor to the Govt. /deducted by the Govt. from any payments due to the Contractor. Similarly imposition of any new "taxes directly related to Contract value" after the end date of bid submission shall be reimbursed to the contractor and abolition of any "taxes directly related to Contract value" prevailing on end date of bid submission shall be refunded by the Contractor to the Govt. /deducted by the Govt. from the payments due to the Contractor.
- (ii) The contractor shall with 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 a position to supply. The Contractors shall submit the other documentary proof/ informations 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.

**26. FORCE MAJEURE**

- 26.1 Should any force majeure circumstances arise, each of the contracting party shall be excused for the non-fulfillment or for the delayed fulfillment of any of its contractual obligations, if the affected party within 15 days of its occurrence informs the other party in writing.
- 26.2 Force majeure shall mean fires, floods, natural calamities or other acts such as war, turmoil, strikes (as not limited to be establishment of the seller), sabotage, explosions, quarantine, restrictions beyond the control of either party.
- 26.3 It is understood and agreed between the parties hereto that the rights and obligations of the parties shall be deemed to be in suspension during the continuance of the force majeure event(s) as aforesaid and the said rights and obligations shall automatically revive upon the cessation of intervening force majeure event(s). The period within which the rights and obligations of the parties shall be in suspension due to the force majeure event(s) shall not be considered as a delay with respect to the period of delivery and/or acceptance of delivery under the contract or otherwise the determinant of either party.
- 26.4 Notwithstanding the provisions of the immediately foregoing clause(s), it is further understood and agreed between the parties hereto that in the event(s) of any force majeure persisting for an uninterrupted period exceeding 06 (six) months, either party hereto reserves the right to terminate this contract upon giving prior written notice of 30 (thirty) days to the other party of the intention to terminate without any liability other than reimbursement on the terms provided in this agreement of the goods received.

Contd.../-

**SPECIAL CONDITIONS(CONTD...)**

27. **Arbitration:** The existing descriptions of Condition 70 of IAFW-2249 shall be substituted by the revised description as under:-

**“70. Arbitration****(a) Arbitration where applicability of Section 12 (5) of the Arbitration and Conciliation Act has been waived off:-**

All disputes, between the parties to the Contract (other than those for which the decision of the CWE or any other person is by the Contract expressed to be final and binding) shall, after written notice by either party to the Contract to the other of them, be referred to the Arbitral Tribunal of a Sole Arbitrator (in case of contract sum less than or equal to Rs 100 Crore) or to Arbitral Tribunal of three Arbitrators (in case of contract sum exceeding Rs 100 Crore) from MoD Panel of Arbitrators. The officers so considered for appointment of Arbitrator, either as sole Arbitrator or for Arbitral Tribunal, shall be having degree in Engineering or equivalent or having passed Final/Direct Final Examination of Sub-Division II of Institution of Surveyor (India) or similar other Institutes recognised by the Government of India.

In case of arbitration by Sole Arbitrator, the Arbitrator shall be appointed by the Authority mentioned in the contract document within a period of thirty days of having received the notice from any of the parties to Contract, out of MoD Panel of Arbitrators. In case of Arbitral Tribunal consisting of panel of three Arbitrators, both the parties will be asked by the Appointing Authority to suggest at least two names out of MoD Panel of Arbitrators within thirty days. The Appointing Authority will appoint two Arbitrators, one Arbitrator each out of the suggested names. The two Arbitrators so appointed will select one Arbitrator from the MoD Panel of Arbitrators who will be the ‘Presiding Arbitrator’. The Serving Officer(s) so appointed as Arbitrator(s), either as Sole Arbitrator or as one of the three Arbitrators in the Arbitral Tribunal, can continue as Arbitrator even after retirement, provided both the parties to the Contract give written consent to this effect. In such case, however, the Arbitrator shall not be entitled for any fee even after retirement.

**(b) Arbitration where applicability of Section 12 (5) of Arbitration & Conciliation Act has not been waived off.**

All disputes, between the parties to the Contract (other than those for which the decision of the CWE or any other person is by the Contract expressed to be final and binding) shall, after written notice by either party to the Contract to the other of them, be referred to the Arbitral Tribunal of a Sole Arbitrator (in case of contract sum less than or equal to Rs 100 Crore) or to Arbitral Tribunal of three Arbitrators (in case of contract sum exceeding Rs 100 Crore). The Officers so considered for appointment as Arbitrator, either as Sole Arbitrator or for Arbitral Tribunal, shall be having degree in Engineering or equivalent or having passed Final/Direct Final Examination of Sub Division II of Institution of Surveyor (India) or similar other Institutes recognised by the Government of India.

In case of arbitration by sole Arbitrator, the Arbitrator shall be appointed by the authority mentioned in the contract document from the MoD Panel of Arbitrators within a period of thirty days of having received the notice from any of the parties to Contract. In case of Arbitral Tribunal consisting of panel of three Arbitrators, both the parties shall be asked by the Appointing Authority to suggest at least two names out of MoD Panel of Arbitrators within thirty days. The Appointing Authority will appoint two Arbitrators, one Arbitrator each out of the suggested names. The two Arbitrators so appointed shall select one Arbitrator from the MoD Panel of Arbitrators who will be the ‘Presiding Arbitrator’.

**(c) Common for all Arbitration:**

Unless both parties agree in writing, such reference shall not take place until after the completion or alleged completion of the works or termination or determination of the contract under Condition Nos 55, 56 and 57 hereof.

Provided that in the event of abandonment of the works or cancellation of the Contract under Condition No 52,53 or 54 hereof, such reference shall not take place until alternative arrangements have been finalized by the Government to get the works completed by or through any other Contractor or Contractors or Agency or Agencies.

Provided always that commencement or continuance of any arbitration proceeding hereunder or otherwise shall not in any manner militate against the Government’s right of recovery from the Contractor as provided in Condition 67 hereof.

**SPECIAL CONDITIONS(CONTD...)**

If the sole Arbitrator or one or more Arbitrators of the Arbitral Tribunal so appointed resign(s) from his/her appointment or vacate(s) his/her office or is unable or unwilling to act due to any reason whatsoever, the Authority appointing him/her will appoint a substitute Arbitrator to act in his/her place in the manner specified hereinabove. In case the Arbitrator resigning in this manner is the Presiding Arbitrator, the other two Arbitrators of the Arbitral Tribunal shall appoint the substitute Presiding Arbitrator.

The Arbitral Tribunal may proceed with the arbitration, *ex parte*, if either party, in spite of a notice from the arbitrator fails to take part in the proceedings.

The Arbitral Tribunal may from time to time with the consent of the parties, enlarge the time for making and publishing the award subject to the limit laid down in the Arbitration & Conciliation Act 1996 as amended upto the date on which arbitration proceedings commence.

The Arbitral Tribunal shall make the award within the period as provided in the Arbitration & Conciliation Act 1996 (as amended upto the date on which arbitration proceedings commence) from the date of entering on the reference or within the extended period as the case may be on all matters referred to it and shall indicate findings alongwith sums awarded separately on each individual item of dispute. The Arbitral Tribunal shall give reason for the award in each and every case irrespective of the value of claims or counter claims.

The venue of Arbitration shall be such place or places as may be fixed by the Arbitral Tribunal in its sole discretion.

The Award of the Arbitral Tribunal shall be final and binding on both parties to the Contract.”

(SIGNATURE OF CONTRACTOR)  
DATED \_\_\_\_\_

DCWE(Contracts)  
FOR ACCEPTING OFFICER

**PARTICULAR SPECIFICATIONS****1 GENERAL**

- 1.1 The works under this contract shall be carried out in accordance with Schedule 'A' BOQ particular specification and General specifications and other provisions in the MES Schedule.
- 1.2 The Term "General Specifications referred to in para 1.1 above as well as referred in IAFW-2249 (General Conditions of Contract) shall mean the specifications contained in the MES standard Schedule of Rates (Part-I) Specification and MES SSR Part-II Rates.
- 1.3 General rules, special conditions and preambles to various parts given in MES Standard Schedule of Rates shall be applicable to the work under this contract. Materials and workmanship required to be incorporated in these works and services shall be as given under "Specification and workmanship" in the various trade sections of MES Schedule, Part-I duly modified by the Particular Specifications and notes on the drawings.
- 1.4 Particular specifications given here in after are only to particularise, amend or to emphasis the aforesaid specifications in the MES Schedule Part-I and relevant shall be read in conjunction.
- 1.5 These particular specifications shall be read in conjunction with MES Schedule Part-I and relevant clauses therein. In case of any discrepancy, the provisions given in particular specification shall take precedence.

**1.4 SAMPLES OF MATERIALS**

- 1.4.1 The contractor is advised to inspect samples of all the materials given herein-after which are displayed in the office of GE, before submitting his tender. The contractor is deemed to have inspected samples and satisfied himself as to the nature and quality of materials which he is required to incorporate in the work, irrespective of the fact whether he inspects them or not. The materials to be incorporated in the work by the contractor shall conform to or shall be superior in quality to such of the samples, which shall comply in all respects with the specifications given here-in-after.
- 1.4.2 The contractor shall produce samples of all materials and shall obtain approval in writing from GE before he places bulk order for the materials for incorporation in the work. In respect of materials for which samples are not kept or detailed specifications are not given here-in-after, the materials shall comply with latest relevant Indian Standard specifications whether listed in MES schedule or not. Materials having ISI mark shall be given preference over those not having ISI marking.

**2 CEMENT**

The cement shall not be issued under Schedule 'B'. Contractor shall procure the same under his own arrangement for the entire completion of the work. Provision of condition 10 of IAFW-2249 be read in conjunction with this clause. The specifications and other provisions laid down vide section 4 Para 4.3 of MES Schedule, Part-I shall be read in conjunction with the provisions contained in the subsequent paras here-in-after.

- 2.1 **TYPE OF CEMENT:** - The Cement shall be ordinary Portland cement grade 43 (IS-8112-1989) or ordinary Portland cement grade 53 or Portland Pozzolana Cement (IS: 1489-1991). Mixing of OPC & PPC shall not be allowed in a particular member of the structure or of any work. While using the PPC, following precautions/conditions shall be met with by the contractors at site :-
- (a) PPC shall meet the strength criteria of 43 Grade OPC as laid down in IS 8112-1989.
  - (b) The contractor shall submit following test certificate from the manufacturer of the cement for every batch of cement:-
    - (i) The quality of fly ash is strictly as per IS 1489 (Part I)-2002
    - (ii) Fly ash is inter-ground with clinker and not mixed with clinker.
    - (iii) Dry fly ash is transported in closed containers and stored in silos. Only pneumatic pumping shall be used.
    - (iv) The fly ash is received from thermal power plant using high temperature combustion above 1000<sup>0</sup> C should be used.
    - (v) The fly ash content in PPC shall not exceed 35% to ensure consistency.
- 2.2 **SOURCE OF PROCUREMENT:** - Cement shall be procured by the contractor under his own arrangement and at his own cost from any of the main producers of cement mentioned in Appendix attached. However cement can be procured from authorized dealers/distributors of manufacturers in case the total requirement of cement in the entire work is less than 1200 bags. The particulars of manufacturer of cement alongwith the date of manufacture shall be submitted by the contractor separately for every consignment of cement procured. Each consignment of cement procured by the contractor shall be recorded in the measurement book as "Not to be abstracted" and shall be supported with authentic original purchase vouchers highlighting the makes, batch Nos., quantity etc.
- 2.3 **IDENTIFICATION:** - Marking of each cement bag shall be as per relevant IS code.

**PARTICULAR SPECIFICATIONS(Contd...)**

- 2.4 **SCHEDULE OF SUPPLY:-** Schedule of supply of cement shall be authorize by Contractor with the GE and shall be incorporated in CPM chart so that supply of cement is monitored in a way to avoid any delay in completion of the work. The complete requirement of cement will be worked out before making any RAR payment. Procurement of cement by the Contractor shall be completed sufficiently in advance of the date of completion. No extension of time will be considered for non-availability of cement. Every Cement godown shall be provided with two locks on each door. The key of one lock of each door shall remain with the Engineer-in-Charge or his representative and that of other lock with the Contractor or his authorized agent at site of work so that cement is removed from the godown only accordingly to the daily requirement with the knowledge of both the parties. Cement for purpose of accounting shall be on the basis of no. of bags. Minor variations in cement not more than 2% by weight of cement in a bag will be permissible for purpose of accounting of cement bags. However cement shall be incorporated in the work on actual weight basis where specified without any additional cost.
- 2.5 **TESTING OF CEMENT:** - The contractor shall submit the manufacturer's test certificate in Original along with the test sheet giving the result of each physical test as applicable and the chemical composition of the cement or authenticated copy thereof, duly signed by the manufacturer with each consignment. The Engineer-in-charge shall record these details in the Cement Acceptance Register as given at **Appendix 'F'** after due verification. The GE shall also organize independent testing at random samples of every 250 MT of cement (If batch changes within 250 MT then testing of each batch has to be carried out) from the labs as indicated under special condition No. 14: TESTING OF MATERIALS as per IS: 3535-1986 (Method of Sampling Hydraulic Cement), IS: 4019 (Method of Physical test for Hydraulic Cement) and IS: 4032-1985 (Method of chemical analysis of hydraulic Cement). In case cement test result does not fall with-in the acceptable limits, respective consignment of cement shall be rejected and shall be removed by the contractor within 24 hours from the site. The cost of tests shall be borne by the contractor irrespective of status of the results and no claim shall be/to be entertained on this account and clause of IAFW-2249 and provisions in this regard in Para 1.7.3 of MES Schedule Part-I shall be deemed to be amended accordingly. Sample of cement from each consignment should be collected by the Engineer-In-Charge and GE in accordance with IS: 3535-1986.
- 2.6 **STORAGE OF CEMENT:** - The cement shall be stored over dry platform at least 20 cm high and in such a manner as to prevent deterioration due to moisture or intrusion of foreign matters. In case of store rooms, the stack should be at least 20 cm away from floors and walls. The stacking of cement shall not be more than 10 bags high. Inspection shall be carried out once a day by rep of GE associated with the work and rep of contractor. It shall be ensured that tested and untested Cement shall be segregated and stored separately with distinct identification. Not more than three months requirement should be procured and held in stock to avoid its deterioration.
- 2.7 **DOCUMENTATION:** - The Contractor shall submit original Vouchers and original manufacturer's test certificates from the manufacturer for the total quantity of Cement supplied under each consignment to be incorporated in the work. Any consignment received at the work site shall be inspected by the GE along with relevant documents before acceptance. The Original Vouchers and the Test Certificate shall be defaced by the Engineer-in-Charge showing CA No., Year and dated signature and kept on record in the office of GE duly authenticated and with cross-reference to the Control number recorded in the Cement acceptance register. The cement acceptance register will be signed by JE (Civil), Engineer-in-Charge, GE and the Contractor or his rep. The Accepting Officer may order Board of officers for random check of cement and verification of connected documents. The entire quantity of all type of cement shall be suitably recorded in the measurement Book (Not to be abstracted) for record purposes before incorporation in the work and shall be signed by the Engineer-in-Charge and the Contractor.
- 2.8 **RECORD OF CONSUMPTION OF CEMENT**
- 2.8.1 For the purpose of keeping a record of cement used, the contractor shall maintain a properly bound register serially numbered (all pages initialed against the numbering by the Engineer-In-charge) in the form approved by the Engineer-In-Charge showing daily quantity used in the work and balance in hand at the end of each day. The register shall be maintained with daily entries duly authenticated by the contractor or his authorized representative and the Engineer-in-Charge. Separate register shall be maintained for OPC & PPC indicating locations where the cement was used.
- 2.8.2 The register shall be kept at site in the safe custody of the contractor's rep and Engineer-In-Charge during the progress of the work and shall on demand be produced for verification to the inspecting officer.
- 2.8.3 On completion of the work, the contractor shall deposit the cement register with the Engineer-In-Charge for record.
- NOTES:** 1. In case of any dispute relating to the interpretations arising out of the above-referred provisions, the decision of the Accepting Officer shall be final, conclusive and binding.  
2. The specifications and provisions here in before for cement shall be applicable for all works indicated in the scope of this contract.

**3.0 EXCAVATION - GENERAL**

- 3.1. Excavation and earthwork involved under this contract shall be as mentioned in BOQ / Schedule 'A' & as defined in MES Schedule.
- 3.2. In case timbering to excavation is required and specifically ordered by the GE in writing, this shall be paid as deviation.

**PARTICULAR SPECIFICATIONS (CONTD...)**

3.3. Unit rate in all parts of Schedule 'A', shall be deemed to include for bailing out, pumping out or dewatering and removing all water which may accumulate in the excavated portion as per Clause 3.11 on page 22 of MES Schedule (Part-II). No additional payment on this account shall be admissible as referred to in clause 3.11 on page 22 of MES Schedule (Part-II 2010). In the event of deviation, no adjustment shall be made for cost of bailing, pumping and dewatering as specified here- in-before.

3.4. -----BLANK-----

**3.5 FILLING IN TRENCHES/UNDER FLOORS**

3.5.1. The earth obtained from excavation in foundations shall be used for filling in trenches, under floors and in any other situation after removing big stones, grass roots and vegetation and other organic matter. Earth mixed with small stones/pebbles (if approved by GE) is permitted for use in filling under floors and foundations. The filling around pipes after the pipes are laid and tested shall, however, be with earth free from pebbles/stones. Any additional earth required for the purpose of filling shall be arranged by contractor at no extra cost to the Department from out side the Defence land. Earth brought shall be got approved from the Engineer-in-Charge.

3.5.2. With regards to the lead for pricing of deviation for bringing additional earth, it shall be priced based on 1500 metre distance or actual distance whichever is less for all the works included in Schedule 'A' Section I. Further for the deviation with regard to omission of lead for bringing additional earth, lead shall be considered as 1500 metre.

3.5.3. Filling under floors/sides of trenches shall be in layers not exceeding 250mm and each layer shall be watered, compacted and rammed as approved by Engineer-in-Charge. Thickness of filling as specified elsewhere is the consolidated thickness.

**3.6 REMOVAL OF SPOIL**

The surplus spoil obtained from site clearance, surface excavation & excavation in respect of works under Sch'A' Part I which is not being used for filling shall be disposed off to a distance as mentioned in BOQ / Schedule 'A' from the periphery of site as directed by Engineer-in-Charge.

**3.7 TRENCHES FOR FOUNDATION AND PIPES**

3.7.1. The excavation shall be restricted to dimensions shown on the drawings and as specified in MES Schedule. Excavation made, if any, in excess of required depth/width shall be made good by the contractor with cement concrete (1:5:10), type E-2 without any extra cost to the Govt.

3.7.2. The beds of the trenches, shall be watered and well rammed and any depressions thus formed shall be filled with approved earth and to the required level and slope as directed by Engineer-in-Charge.

**3.8 DRESSING AROUND BUILDINGS/STRUCTURES**

3.8.1. After construction and before handing over work, the area around as defined here-in-before shall be finally dressed without any extra cost to the Govt. Spoil obtained from dressing shall be disposed off to a distance as specified in clause 3.5. here in before.

**4. CEMENT CONCRETE****4.1 MATERIALS**

4.1.1 cement: Refer Particular Specifications clause 2 and other sub clauses here-in-above.

4.1.2 Coarse and fine aggregate for cement concrete (PCC & RCC):-Refer Paras 4.4.1 to 4.4.7 of MES Schedule Part-I.

4.1.2.1 Coarse aggregate for lime concrete shall be broken bricks as per Paras 4.5, 4.5.1, 4.5.2 of MES Schedule Part-I. The fine aggregate shall be natural sand as for cement concrete.

4.1.2.2 Grading of fine aggregate (sand) shall be as per Para 4.4.7.2 of MES Schedule Part-I for grading Zone-III. Coarse aggregate up to 20 mm shall be machine-crushed stone and aggregate of size 40 mm and above shall be manually broken or machine crushed at the option of contractor. Fine aggregate (sand) shall be obtained from natural source i.e. Ghaggar river near Chandigarh

4.1.3 WATER: Refer clause 4.9, 4.9.2 of MES Schedule Part-I.

**4.2 WORKMANSHIP:**

4.2.1 Mix or grade of cement concrete: - Reference of IS 456-1978 in Clause 4.11.1 shall be amended to IS-456-2000 (fourth revision) shall be followed in respect of all the situations of plain or reinforced concrete superceding the provision of IS-456-1978 including in MES Schedule Part-I and Para 4.11.1, 4.11.2, 4.11.2.1 to 4.11.2.4 of MES Schedule Part-I.

**PARTICULAR SPECIFICATIONS (CONTD...)**

- 4.2.2 Workability of concrete: - Refer clause 7.1 of IS-456: 2000 and para 4.11.4 of MES Schedule Part I.
- 4.2.3 Mixing of concrete: - Refer para 4.11.5 & 4.11.5.1 of MES Schedule Part I.
- 4.2.4 FORM WORK: Refer to Paras 4.11.6.1 to 4.11.6.5 of MES Schedule Part-I. Also refer clause 7.15 here in after. Form work shall be of steel or plywood of adequate strength, at the option of the contractor. However, deformed steel sheet shall not be permitted for use as form work. Further, in lieu of wooden ballies, standard shuttering telescoping type steel props shall only be used.
- 4.2.5 TRANSPORTATION OF CONCRETE: - Refer Para 4.11.9 of MES Schedule, Part-I.
- 4.2.6 PLACING OF CONCRETE: - Refer Para 4.11.10 to 4.11.10.3 of SSR, Part-I.
- 4.2.7 COMPACTION OF CONCRETE: - Refer to Para 4.11.11 & 4.11.11.1 of MES Schedule Part-I.
- 4.2.8 CURING OF CONCRETE: Refer Para 4.11.13 of MES Schedule, Part-I.
- 4.2.9 PROTECTION, INSPECTION & FINISHING TO EXPOSED SURFACE OF CONCRETE: - Refer Para 4.11.14, 4.11.15 & 4.11.16 of MES Schedule Part-I.
- 4.2.10 SAMPLING AND STRENGTH TEST: Refer clause 15 on page 29 of IS: 456-2000. Tests on cubes for 'Compressive Strength Test' at 7 days shall also be carried out.
- 4.2.11 ACCEPTANCE CRITERIA :- Refer clause 16 on page 29 of IS: 456-2000.
- 4.2.12 INSPECTION AND TESTING OF STRUCTURES:- Refer Clause 17 on page 16 & 19 of IS:456-2000.

**5 to 11** -----BLANK-----

**12 ELECTRIFICATION WORKS**

- 12.1 On completion of entire work the contractor shall submit in triplicate to the Engineer-in-Charge layout plan showing actual position of poles, routes, cable run, and all other information and details as directed by the GE that will be necessary for record of maintenance and operation.
- 12.2 TESTING : General- Refer Para 19.2.5 of MES Schedule part-I.
- 12.3 SAFETY (Procedure & Practice):- Refer Para 19.2.7 of MES Sch Part-I.
- 12.4 FIRE SAFETY: Refer Para 19.2.8 of MES Schedule Part-I.
- 12.5 SAMPLE AND MATERIALS

All materials fittings appliances etc. to be incorporated in this work shall be of highest standard and unless otherwise specified here in after shall strictly comply with the relevant IS and BSS for which no IS has been issued. The contractor will supply the samples of the following items/materials to GE for approval.

- (a) HT/LT cable /jointing kits
- (b) Lubricant/transformer oil
- (c) PVC/MS/GI Pipes
- (d) Steel & Cement
- (e) Air break switch/lightening arrester/steel pole/insulator any type
- (f) ASCR conductor
- (g) Aluminium / copper strip
- (h) Danger Notice Boards
- (j) Stay assembly and stay wire and anti climbing device.
- (k) Earthing plates/electrodes
- (l) MCCB, MCB & ELCB or RCBO
- (m) Cable Route Indicator
- (n) Pre-stressed concrete poles/steel poles.
- (o) Set of lightning Arrestor HT/LT.
- (p) LT Panel Board, Voltmeter and Ammeter.
- (q) Transformer
- (r) Any other item as directed by GE.

12.5.1 The material and the equipment to be supplied and installed under this contract shall be of indigenous make. In case tenderer offers any imported materials, he may do so out of his existing stock. No foreign exchange will be given by the department to the tenderer for importing any equipment for this job.

12.5.2 For makes and manufacturers for various items of this section refer Appendix here-in-after.

**Contd...../-**

**PARTICULAR SPECIFICATIONS (CONTD...)**

- 12.5.3 The contractor after obtaining written approval of samples from the GE shall obtain material and equipment from the approved firms or through their authorised agents only. As a proof that a particular material obtained from the firm/their authorised agents the contractor shall produce such evidence to the satisfaction of GE when asked for. With regard to quality the materials shall be brought to the site with maker's original packing with seal intact.
- 12.5.4 All electric works shall be carried out in conformity with the requirements of the Indian Electricity Act 1910 and Indian Electricity Rules 1956 framed there under and fire insurance act as applicable and else the relevant regulations of electric supply authorities concerned as amended from time to time.
- 12.5.5 Unless otherwise exempted under the rules of the Indian Electricity Rules all electrical works shall be carried out under the supervision of person holding a certificate of competency issued by the recognized authority. The workman shall also hold certificate of competency.
- 12.5.6 Good workmanship is an essential requirement for compliance with their specifications. The work shall be executed in the manner as directed by the Engineer-in-Charge.
- 12.5.7 PRODUCTION OF TEST CERTIFICATE: Manufacturer's test certificate in respect of HDPE pipe, GI Wire and other materials, items or equipments as directed by GE are to be submitted to the GE by the contractor.

**13 DEMOLITION/DISMANTLING : Refer Section 21 of MES Schedule Part-I.**

13.1 Contractor shall take all precautions during execution work without damage to the existing article/surface/structure shall be made good by the contractor at his own expense so as to match the existing structure /surface and finishes to entire satisfaction of Engineer in Charge without any extra cost to Govt.

13.2 Contractor shall take all precautions regarding safety of workman during execution. The contractor shall take permission while on work for disconnection all electric connection if required before execution. Nothing extra shall be admissible in the event of miss happening/causality.

13.3 Materials received from demolition / dismantling shall be the property of the department and contractor shall be responsible for the return of the same to store yard of MES and shall obtain receipt there-from.

13.4 During demolition or dismantling, every precaution shall be taken by the contractor to prevent damage to any part of the structure and also to any adjacent structures which are to be left intact. Any damage caused to the structures, due to the carelessness and negligence of the contractor shall be made good by him at his own expense.

13.5 The workmanship and other specifications of the work not covered above shall be as specified in the relevant Para of MES Schedule or otherwise if the same is not available in SSR, then the same shall be at par with the relevant latest Indian standards all as directed by the GE

SIGNATURE OF CONTRACTOR  
DATED:\_\_\_\_\_

DCWE(Contracts)  
FOR ACCEPTING OFFICER

**APPENDIX 'B'**  
**TESTING OF MATERIALS**

Ser. No.	MATERIAL	TEST	METHOD OF TESTING	FREQUENCY OF TESTS	LEVEL OF TESTS	RATE (Rs.)	REMARKS			
1	2	3	4	5	6	7	8			
1	Bricks	(i) Compressive Strength	IS:3495 (Part-II)	<b>As per (IS:5454) as given under :-</b>	'A'	330.00	Checks for visual and dimensional characteristics shall also be carried out as per IS-5454			
				<b>Lot Size</b>		<b>Sample Size</b>		<b>Permissible No. of defective bricks</b>		
		(ii) Water Absorption	IS:3495 (Part-II)	1001 to 10000		5		0	'A'	330.00
		(iii) Efflorescence	IS:3495 (Part-I)	10001 to 35000		10		0	'A'	330.00
				35001 to 50000	15	1				
2	Coarse aggregate	(i) Particle size and shape (Sieve analysis)	IS:2386 (Part-I)	<b>One test for every 15 Cum of aggregates or part thereof brought at site</b>	'A'	660.00				
		(ii) Flakiness Index	-do-	-do-	'A'	250.00				
		(iii) Estimation of deleterious materials	IS:2386 (Part-I)	One test for every 100 cum of aggregate or part thereof brought to site.	'A'	600.00				
		(iv) Organic impurities	-do-	One test per source of supply	'B'	275.00				
		(v) Moisture Contents	-do- (Part-II)	Regularly as required	'A'	330.00				
		(vi) Specific gravity	-do-	One test for each source of supply	'B'	330.00				
3	Fine Aggregate	(i) Particle size and shape (Sieve analysis)	IS: 2386 (Part - I)	One test for every 15 Cum of fine aggregate or part when brought at site	'A'	660.00				
		(ii) Estimation of deleterious materials (Test for clay, silt & impurities)	-do- (Part-II)	-do-	'A'	500.00				
		(iii) Specific Gravity	-do- (Part-II)	One for each source of supply.	'B'	330.00				
		(iv) Moisture Contents	-do-	Regularly as required subject to 2 tests day when being used	'A'	330.00				
		(v) Organic impurities	-do- (Part-II)		'B'	275.00				
4	Cement	(i) Setting time	IS: 4031-63 affirmed 1980	One for each consignment or as and when required	'B'	500.00				
		(ii) Soundness	-do-	-do-	'B'	500.00				
		(iii) Compressive strength	-do-	-do-	'B'	500.00				
		(iv) Fineness (By Blaine Air Permeability Method)	-do-	-do-	'B'	275.00				

Contd.....

**APPENDIX 'B' TESTING OF MATERIALS(Contd.../-)**

5	Water for construction purposes	(i) Test for Acidity	IS:456 & 3015	Once at the stage of approval of source of water.	'B'	500.00	Also refer clause 4.3 of IS:456 and its subsequent sub clauses regarding suitability of water.	
		(ii) Test for Alkalinity	-do-	-do-	'B'	500.00		
		(iii) Test for solid contents	-do-	-do-	'B'	500.00		
6	Structural Concrete (M-15 Grade & above)	(i) Slump test or compacting factor test or Vee-Bee time	IS:1199	The minimum frequency of sampling of concrete of each grade shall be as under:-				
			IS : 516					
		(ii) Compressive Strength		<b>Qty of concrete in the work (Cum)</b>	<b>No. of Samples</b>	'A'	900.00	<u>(i) Random sampling shall be carried out to cover all mix units.</u> <u>(ii) Refer IS 456-2000, clause 14 for frequency of sampling</u>
			1 to 5 cum	1				
			6 to 15 cum	2				
			16 to 30 cum	3				
	31 to 50 cum	4						
	51 cum & above	4 plus 1 for additional 50 cum or part thereof.						
7	Welding of steel work	Visual inspection test	IS-822 Clause 7.1	100% by visual inspection	Work site	360.00	Specialised tests, their method & frequency to be decided on consideration of their importance by the Accepting Officer.	
				Frequency of sampling from each lot shall be as under:-				
8	Reinforcement steel	Upto 16mm dia				'B'	2500.00	
		More than 16mm dia				'B'	2750.00	

**Notes :** 1.Please refer Clause 14 of Special Conditions.

2. LEGEND- A-SITE LAB, B-MES (CE/CWE/GE) LAB, C- GOVT APPROVED TEST HOUSES/ENGG COLLEGES

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DATED:\_\_\_\_\_

DCWE(Contracts)  
FOR ACCEPTING OFFICER

Contd.....

APPENDIX 'C'LIST OF ISI CERTIFIED PRODUCTS TO BE USED IN WORKS

1. Concrete: (i) Integral cement water proofing compounds (ISI-2645-1975) (First revision).  
(ii) Specification for Portland Pozzolana Cement-Part 1: Flyash based (Third Revision): IS 1489 - Part 1 - 1991
2. Steel & Iron Work: (i) Specification for hot rolled low, medium and high tensile structural steel (Sixth revision): IS 2062-2006
3. Mild steel tubes, tubular and other wrought steel fittings (IS-1239 part-II-1979), (Fourth revision) and mild steel tubular and other wrought steel fittings (IS-1239-Part-II-1982) (Third revision).
4. GI Fittings( IS- 1879 Part I to X –1987)
5. ELECTRICAL WORKS
  - (a) LT/HT XLPE cable (IS-7098/1/88)
  - (b) Transformer Oil( IS-335)
  - (c) Maintenance of Transformer( IS-10028 Part I to III 1985/1981)
  - (d) Precast concrete cable covers ( IS-5820 – 1970)
  - (e) Danger Notice plate (IS-2551 - 1982).
  - (f) MCCB( conforming to IS 13947 Pt-III 1993 & IEC 60947 Pt-II)
  - (g) MCB (IS-8828 of 1996).

**Note: - (a) The items which are not included here in before shall be referred from SSR & website of the BIS.**

**The IS codes listed above and to be referred from SSR & website of BSI shall be considered with latest amendments/revision up to the date of receipt of tender.**

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DATED : \_\_\_\_\_

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FOR ACCEPTING OFFICER

APPENDIX 'D'SOURCES OF MATERIALS(LIST OF MATERIALS OF LOCAL ORIGIN TO BE INCORPORATED  
IN WORKS (FOR GUIDANCE ONLY))

SI No	Name of materials	Sources of Material
1	2	3
1	Coarse Aggregate for all RCC and plain cement concrete works.	Panchkula, Ropar, Pathankot, Mubarakpur
2	Sand for all RCC and PCC work.	Ghaggar sand near Mubarakpur / Pathankot
3	Sand for plastering, pointing and brick work	Ghaggar river sand, Panchkulla, Mubarakpur Ropar, Pathankot
4	Sub class 'B' old size of burnt clay building bricks and brick tiles.	Best quality locally available
5	Stone for soling	Panchkula/Mubarkpur/Narayangarh / Pathankot
6	WBM crushed stone aggregate	Panchkula/Mubarkpur/Narayangarh / Pathankot
7	Fine sand	Ghaggar sand near Mubarakpur/ Pathankot/ Ajnala/ Kathunangal
<b>NOTES:</b>		

(a) Sources of materials shall be as given Sri 1 to 7 above or in the vicinity thereof. The tenderer shall enquire the actual location of source before submitting his tender and no additional payment shall be made on account of any misunderstanding or its distance from site of works.

(b) Materials of sources listed above, shall only be used. In the event of non-availability, use of alternatives shall be decided by the Accepting Officer without any price adjustment/extra cost to Government.

\_\_\_\_\_  
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FOR ACCEPTING OFFICER

DATED : \_\_\_\_\_

**MAKES OF MATERIALS (Appendix 'E')**

Ser No	Description	Make
1	CEMENT	(i) M/s The Associated Cement Co Ltd; Brand - ACC (ii) M/s Ambuja Cement Ltd.; Brand - Ambuja (iii) M/s Birla Corporation Ltd; Brand – Birla (iii) M/s Orient Cement, Brand – Birla-A1 (iv) M/s JK Cement ; Brand - JK (v) M/s Dalmia Cement (Bharat) Ltd ; Brand – Dalmia Infra Pro (vi) M/s The India Cements ; (vii) M/s Mangalam Cement Ltd ; Brand - Mangalam (viii) M/s Nuvoco Vistas Corp Ltd; Brand - Nuvoco (ix) M/s J K Lakshmi cement Ltd Brand – JK Lakshmi (x) M/s Shree cement; Brand - Shree (xi) M/s Ultratech Cement Ltd, Brand - Ultratech (xii) M/s Chettinad cement corporation Ltd, Brand – Chettinad cement (xiii) M/s Parasakti Cement Industries Ltd, Brand – Parasakti cement (xiv) M/s Shree Gurukripa Cement Pvt Ltd, Brand - Sartaj (xv) M/s Century Cements, Brand - Century (xvi) M/s The Ramco Cements Ltd, Brand - Ramco (xvii) M/s Jaypee Rewa Cement, Brand - Jaypee (xviii) M/s Sanghi Industries Ltd ; Brand - Sanghi (xix) M/s Wonder Cement Ltd., Brand – Wonder cement (xx) M/s Saurashtra Cement, Brand - Saurashtra (xxi) M/s JSW Cement Ltd, A.P. Brand – JSW PSC (xxii) M/s My Home Industries Ltd, Brand- Maha Cement (xxiii) M/s Kesoram Industries Ltd, Brand- Birla Shakti (xxiv) M/s Penna Cement Industries Ltd, Brand – Penna cement (xxv) M/s Kalburgi Cement Pvt Ltd Karnataka, Brand- Bharathi cement & Vicat
2	TMT STEEL	(i) SAIL, (ii) RINL, (iii) TATA, (iv) M/s JSW Steel Ltd, Brand – “Neosteel” (v) M/s Gallantt Metal Ltd Gujrat, Brand – “Gallant TMX” (vi) M/S Kamachi Industries Ltd Chennai, Brand – “Kamachi” (vii) M/s Shyam Metalics & Energy Ltd, Brand - “SEL” (viii) M/s Electrotherm (India) Ltd, Brand - “ET MT” (ix) M/s Tulsyan NEC Limited, Brand - “TULSYAN TMT” (x) M/s Incredible Industries Limited, Brand - “Adhunik Fe 500 SD” (xi) M/s Rashmi Metaliks Limited W.B., Brand – “Rashmi TMT” (xii) M/s Bajrang Power & Ispat Ltd Raipur(CG), Brand-“Goel TMT”
3	STRUCTURAL STEEL	SAIL, RINL, TATA, M/s Jindal Steels and Power Ltd (JINDAL)
4	HDPE Pipe	FUSION, SFMC, FINOLEX, PRINCE, SUPREME

**Notes:-**

- (i) Makes specified in BOQ shall only be provided when makes are mentioned in Schedule 'A'/ BOQ.
- (ii) Makes specified in Particular Specification Section shall be provided only when no makes are specified in the Schedule 'A'/ BOQ.
- (iii) Makes specified in this Appendix shall be provided only when no makes are mentioned in the Schedule 'A'/ BOQ and Particular Specification Section.

SIGNATURE OF CONTRACTOR  
DATED : \_\_\_\_\_

DCWE(Contracts)  
FOR ACCEPTING OFFICER

**APPENDIX 'F'**  
**CEMENT SUPPLY & ACCEPTANCE REGISTER**

1. CA NO & Name of work:
2. Control No..... (To be allotted serially by GE, consignment wise)
3. Name of Manufacturer/Brand/Gde of Cement (a) Manufacturer \_\_\_\_\_ (b)  
Brand \_\_\_\_\_ (c) Grade \_\_\_\_\_
4. Qty of cement & Lot No/Week No (in bags) : (a) Qty \_\_\_\_\_ (in Bags)  
(b) Lot No/Week No \_\_\_\_\_
5. Manufacturer's test certificates to \_\_\_\_\_
6. Random Test details (a) Physical test report from \_\_\_\_\_ (Name of approved Lab/Engg College) vide their letter No \_\_\_\_\_  
(b) Chemical test report from \_\_\_\_\_ (Name of approved Lab/Engg College) vide their letter No \_\_\_\_\_
7. Details of Physical & Chemical properties :

	Specific Surface Area (m <sup>2</sup> per Kg)	Soundness by Le Chatellier	Soundness by Auto Clave	Initial Setting Time (Minutes)	Final Setting Time (Minutes)	Compressive strengths (Mpa)			Temp during testing (°C)	Standard consistency (%)	Lime Saturation factors (Ratio)	Alumina Iron Ratio (Ratio)	Insoluble ratio (%)	Magnesium (%)	Sulphuric Anhydride (%)	Loss on ignition (%)	Alkalies (%)	Chlorides (%)	
						03 days	07 days	28 days											
As per relevant IS																			
As per manufacturer's test certificate																			
As per random test certificate																			

Remarks with Signature :

Accepted/Rejected

Contractor

Junior Engineer

Engineer-in-Charge

Garrison Engineer

Remarks of BOO/Inspecting Officer/CWE

\* To be allotted serially by GE consignment wise

**STEEL SUPPLY AND ACCEPTANCE FORM**

1. Contract No. and Name of Work :
2. Name of manufacturer's T.C. No. :
3. Manufacturer:
4. Random Test Details (a) Physical test report from .....  
(Name of approved Lab/Engg College) vide their letter no. ....  
(b) Chemical test report from .....  
(Name of approved Lab/Engg College) vide their letter no. ....
5. Type of Steel, dia and Quantity :
  - (a) Type : TMT/CRS
  - (b) Dia : mm
  - (c) Actual wt. : MT
  - (d) Conversion Wt.: MT

	Chemical Test							Mechanical Test						
	Carbon %	Sulphur %	Phosphorous %	Sulphur + Phosphorous %	Manganese %	Silicon %	Corrosion resistant element	Wt per metre	Yield Stress (N/mm <sup>2</sup> )	Tensile Strength (N/mm <sup>2</sup> )	Elongation % (Min 18%)	Bend Test	Rebend Test	Remarks
As per IS 1786-2008														
As per manufacturer's test certificate														
As per independent test														

Remarks with Signature :

Accepted/Rejected

Contractor

Junior Engineer

Engineer-in-Charge

Garrison Engineer

Remarks of BOO/Inspecting Officer/CWE

\* To be allotted serially by GE consignment wise