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AMRITSAR CANTT**

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Total Pages:

\_\_\_\_\_  
(Signature of Contractor)  
Dated:\_\_\_\_\_

DCWE(Contracts)  
For Accepting officer

Tele : 0183-2401146

Headquarters  
Commander Works Engineer  
Amritsar Cantt  
PIN – 900257  
C/o 56 APO

82324/CWE/ASR-50/ /E8

Sep 2024

**SPL REPAIR TO CANTT PERIMETER WALL ALONG WITH HIGHWAY AT OLD  
AMRITSAR CANTT**

M/s \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Dear Sir,

1. Tender documents in respect of above work are uploaded on the site **<https://defproc.gov.in>** . The tender is on single stage two cover e-tendering system. The contents of Cover I & Cover II are specified in NOTICE OF TENDER.
2. Bids will be received online by Accepting Officer up to the date and time mentioned in the NOTICE INVITING TENDER (NIT). No tender/bid will be received in physical form and any tender/bid received in such manner will be treated as no bonafide tender/bid.
3. Bid will be opened on due date and time fixed for opening in the presence of tenderers/bidders or their authorized representatives, who have uploaded their quotation bid and who wish to be present at the time of opening the bids.
4. Your attention is also drawn to instruction on filling and submission of tender attached herewith. You may forward your points on tender documents and/or depute your technical representative for discussion on tender/drawings and to clarify doubts, if any, on or before critical dates mentioned in NIT. You are requested not to write piecemeal points and forward your points duly consolidated before critical dates.
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. **The physical documents shall be submitted within 05 working days from Bid submission end date in the office of CWE AMRTISAR CANTT.** Inadequacy/deficiency of documents shall make the bid liable for rejection resulting in disqualification for opening of finance bid.
6. Contractor enlisted with MES but not executed standing security bond and standing security deposit in any MES formation shall upload scanned copy of EARNEST MONEY DEPOSIT (EMD) mentioned in Notice of Tender and shall ensure receipt of hard copy of EMD in the office of tender issuing authority before date and time fixed for this purpose. In case of failure to abide by any of these two requirements, the finance bid will not be opened.
7. Enlisted contractors of MES shall submit the scanned copies (pdf file) of enlistment letter, tender fee and such other documents as mentioned in Appx 'A' to **NIT** on Defence eProcurement portal and submit physical documents in the office of **HQ Commander Works Engineer Amritsar** before date and time fixed for this purpose.

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

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

10 General conditions of Contracts (IAFW-2249)(1989 Print) and errata and amendments thereto, Schedule of minimum fair wages and MES SSR (Part-I and Part-II) are not enclosed with these documents. These are available for perusal in the office of GE concerned and this office.

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

12. Tenderer shall note that information technology Act, cyber Act along with other Act as relevant shall be applicable.

13. Instruction for participating & filling of tender and all documents referred along with this letter shall be forming part of tender documents and shall be complied with.

Yours faithfully

Encls : (As above)

(DCWE Contracts)  
For Accepting officer

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Signature of contractor

**ANNEXURE TO FORWARDING LETTER****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, along with their tender/bid:-

- (a) Deposit at Call receipt from a Scheduled Bank in favor of Garrison Engineer concerned.
- (b) Receipted Treasury Challan, the amount being credited to the Revenue Deposit of Garrison Engineer.

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 concerned GE.

NOTES:- Earnest Money Deposit (EMD) IN THE FORM OF Cheque/Bank Guarantee etc will not be accepted. NON-SUBMISSION OF EARNEST MONEY DEPOSIT (EMD) (scanned copy along with Technical bid and hard copy before the date and time fixed for opening of BOQ) WILL RENDER THE BID DISQUALIFIED FOR OPENING OF COVER II (FINANCE BID).

**2. GENERAL INSTRUCTIONS FOR COMPLIANCE**

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

2.2 Bids shall be uploaded on <https://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.

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

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

2.5 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.

2.6 In the technical bid, a scanned copy of Power of Attorney in favour of the person uploading the bid using his / her DSC shall be uploaded. In case the digital signatory himself 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

**ANNEXURE TO FORWARDING LETTER (Contd/...)**

that he is competent to bind the contractor (through partnership deed, general power of attorney or Memorandum and articles of Association of the Company) in all the matters pertaining to the contracts with union of India including arbitration clause. A scanned copy of the documents confirming of such authority shall be attached with the tender / bid in 'pdf' form, if not submitted earlier. The person uploading the bid on behalf of another partner(s) or on behalf of a firm or company using his DSC shall upload with the tender / bid a scanned copy (in 'pdf' form) of Power of Attorney duly executed in his favour by such other or all of the Partner(s) or in accordance with constitution of the company in case of company, stating that he has authority to bind such other person of the firm or the Company, as the case may be, in all matters pertaining to the contract including the Arbitration Clause.

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

2.8 Hard copies of all above document 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.

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

2.10 The contractor shall employ Indian National after verifying their antecedents and loyalty. Attention is also drawn to special condition 3 referred hereinafter and also conditions 24 & 25 of IAFW-2249 (General conditions of contract).

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

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

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

**3. PERFORMANCE SECURITY**

In case the tender/ bid submitted by any contractor whether enlisted or not-enlisted with MES is accepted, the contractor will be required to lodge with the Accepting Officer the PERFORMANCE SECURITY DEPOSIT calculated @ 5% (Five Percent) of the contract amount of the contract as notified by the Accepting Officer. The amount is required to be lodged within 28 (Twenty Eight) days of the receipt by the letter of the acceptance (See Condition 19 of General Conditions of Contracts (IAFW-2249)). The condition-19 of IAFW-2249 is reproduced here for ready reference.

“19 **Performance Security**

19.1 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.

19.2. If the performance security is provided by the successful Contractor in the form of a Bank Guarantee, it shall be issued by Nationalized/ Scheduled Indian Bank but its confirmation shall be done only from the Head Office of the Bank.

19.3. Failure of the successful contractor to comply with the requirements of sub clause 19.1 shall constitute sufficient grounds for cancellation of the award of work and forfeiture of the Earnest Money. In case of MES enlisted contractor, amount equal to the Earnest Money stipulated in the Notice Inviting Tender, shall be notified to the tenderer for depositing the amount through MRO. Issue of tender to such tenderers shall remain suspended till the aforesaid amount equal to the Earnest Money is deposited in Government Treasury.

19.4. 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 made 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.

19.5. 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.”

4. **REVOCATION / REVISION OF OFFER UPWARD / OFFERING VOLUNTARY REDUCTION, AFTER CLOSING OF BID SUBMISSION DATE & TIME**

In the event of lowest tenderer / bidder revoking his offer or revising his rates upwards/offering voluntary reduction, after closing of the Bid submission date & time, his offer will be treated as revoked and the Earnest Money deposited by him shall be forfeited. In case of MES enlisted contractors, the amount equal to the Earnest Money stipulated in the Notice of Tender, shall be notified to the tenderer / bidder for depositing the amount through MRO. Bids of such Contractors / bidders shall not be opened till the aforesaid amount equal to the earnest money is deposited by him in Govt Treasury. In addition, bids of such tenderer / bidder and his related firm shall not be opened in

**ANNEXURE TO FORWARDING LETTER (Contd/...)**

second calls or subsequent calls. Reduction offered by the tenderer / bidder on the freak high rates referred for review shall not be treated as voluntary reduction.

**5. CPM (Critical Path Method)**

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

5.2 The tenderer/ bidder is 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.

5.3 The tenderer's / bidder's attention is drawn to special condition of the tender regarding preparation of the detailed network analysis and time schedule for the work and his liability for employing sufficient resources to adhere to this schedule. Any inability on the part of the tenderer / bidder in using the technique will be taken as his technical inefficiency and will affect his class of enlistment and future prospect / invitation to tenders for future works.

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

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

(Signature of Contractor)

(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 aforesaid Appendix 'A'. This estimate, however, is not a guarantee and is merely given as a rough guide and if the work costs more or less, a tenderer/bidder will have no claim on that account.
3. The work is to be completed within the period as indicated in aforesaid Appendix 'A' in accordance with the phasing, if any, indicated in the tender from the date of handing over site, which will be on or about two weeks after the date of acceptance of tender.
4. Contractors whose names are on the MES approved list and within whose financial category the estimated amount would fall and un enlisted contractors may submit tender/bid subject to other criteria mentioned in Appendix A. However in case of term contracts, enlisted contractors of Class SS to E may submit tender. Not more than one tender shall be submitted/uploaded by one contractor/ firm. 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. Two firms shall be deemed to have business dealing if any of the partners/proprietor/director is common among both of them. A breach of this condition will render the tenders/bids of both the parties liable for rejection.
5. The Office of HQ CWE Amritsar Cantt will be the Accepting Officer here-in-after referred to as such for the purpose of this contract.
6. Not more than one tender/bid shall be submitted/uploaded by one bidder firm. 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 tender as separate competitors. A breach of this condition will render the tenders/bids of both the parties liable for rejection.
7. The Technical Bid and Financial Bid (Cover-1 and Cover-2) shall be uploaded by the contractor on or before the date & time mentioned in NIT. A scanned copy of DD with enlistment details and other documents as specified in Appendix A shall be uploaded as Cover-1 (Technical bid) of the tender on e-tendering portal. DD is refundable in case the contractor is not considered eligible in technical evaluation of Cover 1 resulting in non-opening of Cover1. The applicant contractor shall bear the cost of bank charges for procuring and encashing the DD including revalidation of DDs and shall not have any claim from Government whatsoever on this account.
8. Tender form and conditions of contract and other necessary documents shall be available on website [defproc.gov.in](http://defproc.gov.in) for download and shall form part of contract agreement in case the tender/bid is accepted.
9. In case of MES enlisted contractor who has not executed the Standing Security Bond and un enlisted contractor, the Cover-I shall be accompanied by Earnest Money for the amount mentioned in Appendix 'A' in the form of deposit at call receipt in favour of concerned CCE/GE/GE (I)/AGE (I) (see Appendix 'A') by a Scheduled Bank or in received treasury Challan the amount being credited to the revenue deposit of the concerned CCE/GE/GE(I)/AGE(I) (see Appendix 'A'). The CCE/GE/GE (I)/AGE (I) will return the Earnest Money, wherever applicable, to all unsuccessful tenderers/bidders by endorsing



an authority on the deposit at call receipt for it's refund, on receipt of intimation from the Accepting Officer to do that.

10. 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 to be deposited by him within 28 days from the receipt of intimation of acceptance of tender from Accepting Officer.

11. Sample of materials and stores to be supplied by the contractor will also be available for inspection by the bidder at the office of concerned GE/GE (I)/AGE (I)/Project Manager during working hours. The bidder is advised to visit the site of work by making prior appointment with GE/GE (I)/AGE (I)/CCE/Project Manager, who is the Executing Agency of the work (see Appendix 'A'). The bidder shall be deemed to have full knowledge of all relevant documents, samples, site etc whether he has inspected them or not.

12. Any bid which proposes any alteration to any of the conditions laid down or proposes any other new condition whatsoever, is liable to be rejected.

13. The uploading of bid by a bidder implies that bidder has read this notice and the conditions of contract and has made himself aware of the scope and specification of work to be done and of the conditions and rates at which stores (as applicable) etc will be issued to him and local conditions and other factors having bearing on the execution of the work.

14. The bidder must be in possession of a copy of the MES Schedule (SSR) (Part-I & Part-II of latest edition) including amendments and errata thereto.

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

16. 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 tender(s)/bids which may be lower, as are admissible under the Government Policy. No claim for any compensation or otherwise shall be admissible for such tenderer/bidder whose tender/bid is rejected.

17. The 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.	Name Of Work	<b>SPL REPAIR TO CANTT PERIMETER WALL ALONG WITH HIGHWAY AT OLD AMRITSAR CANTT</b>															
2.	Estimated Cost	<b>Rs 37.00 Lakhs</b>															
3.	Period Of Completion	<b>06 Months.</b>															
4.	Cost of tender document	<b>Rs 500</b> in the form of DD/Bankers cheque from any Scheduled Bank in favour of GE Amritsar and payable at Amritsar <b>(Note :</b> In case of retendering the contractor who had quoted in the previous call is not required to submit the cost of tender).															
5.	Website/portal address	<a href="http://www.defproc.gov.in">www.defproc.gov.in</a>															
6.	Type of contract	The tender shall be item rate based on IAFW-1779A and GCC (IAFW-2249) with Schedule 'A' (list of items of work) to be priced by contractor.															
7.	Timeline details :																
	(a) Bid submission start date	Refer critical dates on the website.															
	(b) Bid submission end date																
	(c) Date of bid opening																
8.	Eligibility Criteria																
	(a) For MES enlisted contractors.	Contractor shall be enlisted with MES in <b>class 'D'</b> and above and <b>category 'a(i)'</b> subject to satisfactory remarks wrt performance in respect of works in hand as reflected in Work Load return (WLR) or any other report circulated by competent engineer authority.															
	(b) For contractors not enlisted with MES.	<p>(i) Contractor not enlisted with MES should meet the enlisted criteria of <b>'D' Class &amp; 'a(i)'</b> category contractor with regard to satisfactory 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 1 of MES Manual of Contracts 2020 as available in all MES formations as well as MES website (<a href="http://www.mes.gov.in">www.mes.gov.in</a>)</p> <p>(ii) Not carrying adverse remarks in Work Load Report (WLR) or any other similar report circulated by any competent authority, if already working in MES.</p> <p>(iii) Not suspended/debarred/blacklisted (either permanently or temporarily) from participating</p> <p>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>iv) Details of works completed and under progress in MES be submitted in the following format :-</p> <table border="1"> <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> <tr> <td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> <p>(v) Un-enlisted contractor who have secured two works in MES should get themselves registered in the appropriate designated</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												

		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.
9.	Tender issuing and Accepting Officer	Name : <b>CWE Amritsar</b> Address : Gulat Road, Old Cantt, Amritsar Contact Detail (Phone no.& Email Id) of concerned officer : <a href="mailto:dcwecontamtsrjz3-mes@gov.in">dcwecontamtsrjz3-mes@gov.in</a> / <a href="mailto:cweasr@gmail.com">cweasr@gmail.com</a> Ph : 0183-2923308
10.	Executing agency	<b>GE Amritsar.</b>
11.	Earnest Money	<b>Rs 74,000/-</b> in favour of <u>GE Amritsar</u> in the form of Deposit at call receipt, FDR not acceptable.

## NOTES :-

1. In case after opening of Cover 1, 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 or two classes (in case of remote and difficult areas to be decided as per list circulated by CE Command/ADG) below the eligible class shall also be considered subject to fulfilment of other eligibility criteria given in the NIT. Therefore MES contractor's one class below (two classes below in case of remote and difficult areas) may also bid for this tender. Such contractors (contractors of one/two classes below the eligible class) shall not be considered in case their present residual work in hand is more than five times their present tendering limit. However in case such contractor fulfil 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-1 bid details related to residual work in hand like details of work in hand showing names of work, names of Accepting Officer, Contract amounts, dates of commencement and completion (stipulated) and progress as on bid submission date. Such contractors, if claim to fulfil the criteria of upgradation shall also upload the requisite information/documents in support of upgradation. These details shall be verified by the Tender Issuing Authority from concerned formations in case 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 7 (Seven) or more, applications of only those one class below the eligible class bidders shall be considered, who have previously completed similar works satisfactory 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. Therefore such contractors shall upload the requisite information/documents in the Cover-1.

3. Un enlisted contractor shall be considered provided he meets the criteria. Foreign firms shall not be eligible for this tender. However Indian firms having foreign national /Indian nationals staying abroad / Indian national having taken foreign citizenship, as directors(s) shall be considered subject to security clearance from the concerned authorities.

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

4. Contractors enlisted with MES will upload following documents in Cover I for checking eligibility:-

- (a) Application for tender on Firm's letterhead.
- (b) Enlistment letter issued by the Registering Authority duly renewed for the cycle period in vogue.
- (c) Scanned copy of DD/Bankers Cheque toward cost of tender EMD instrument in case SSD bond is not signed at the time of registration.
- (d) Copy of GST registration certificate, EPF Code allotment letter no and all other document required as described in this Appendix.

5. Contractors not enlisted with MES will be required to upload following document in Cover 1 for checking eligibility.

- (a) Application for tender on Firm's letterhead.
- (b) Scanned copy of DD/Bankers cheque toward cost of tender and Earnest Money Deposit (EMD) instrument.
- (c) Copy of Police Verification Report/Police Clearance Certificate/ Character Certificate from the Police Authority of the area where the registered office of the firm is located/notarized copy of valid passport of Proprietor/each Partner/each Director.
- (d) All document required for enlistment in MES for the class mentioned in Para8(b) above as per Para 1.5 of Section 1 of MES Manual on Contracts 2020.
- (e) Details of works being executed in MES, if any.
- (f) Copy of GST registration certificate, EPF Code allotment letter no and all other document required as described in this Appendix.

6. Tenders not accompanied by scanned copies of requisite DD/Bankers Cheque towards cost of tender and earnest money (as applicable) in Cover I shall not be considered for validation of 'T' bid and their Financial 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 of within 07 days of bid submission end date failing which following action shall be taken.

(a) In case of tenders from an enlisted contractor of MES, Where scanned copies of requisite DD/Bankers Cheque towards cost of tender have been upload in Cover-1 but physical copies are not received within the stipulated period, their financial bids (Cover 2) will be opened. However non-submission of physical copies of cost of tender shall be considered as willful negligence of the tenderer with ulterior motives and such tenderer shall be banned from bidding for a period of six months commencing from the date of opening of financial Bid (Cover 2).

(b) In case of tenders from un enlisted contractor, where scanned copies of requisite DD/Bankers Cheque towards cost of tender have been uploaded in Cover-1 but physical copies are not received within the stipulated period, their financial bids (Cover-2) will not be opened. Name of such contractors along with complete address shall be circulated for not opening of their bids for a period of six months commencing from the date of opening Financial bid (Cover 2).

(c) In case of tenders from enlisted and un enlisted contractors, where scanned copies of instructions for Earnest Money Deposit (as applicable) have been upload 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/daughter/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 names as Proprietor/Partner/Director.

9. After opening of Cover-1 and during its technical evaluation, in case any deficiency is noticed in the documents required to be upload 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 DD. Accepting Officers 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 upload on the website. Such tenderer, if desires, may appeal to the next higher Engineer Authority (NHEA) viz Chief Engineer Jalandhar zone on email id [sswcezjr2-mes@nic.in](mailto:sswcezjr2-mes@nic.in) / [cezjr2-mes@nic.in](mailto:cezjr2-mes@nic.in) with copy to accepting officer ([dcwecontamtsrjz3-mes@gov.in](mailto:dcwecontamtsrjz3-mes@gov.in) / [cweasr@gmail.com](mailto:cweasr@gmail.com)) here concerned before due date of opening of Cover 2. NHEA shall decided 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 un enlisted contractor is already executing works in MES, he shall not be considered eligible for the subject tender if the total value of such works is more than twice the tendering limit of the MES Class of contractor for which it is eligible .For this purpose ,details of the works being executed by such a contractor shall be uploaded in the Cover 1 of the bid and shall be checked/verified by the Accepting Officer.

12. In case the BOQ is revised through the corrigendum and the bidder has failed to quote on revised BOQ (ie 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 case the lowest tender shall be determined from amongst the valid/bonafide bids only. Accepting Officer may decide whether to re-tender or consider the lowest bonafide tender for acceptance.

13. Revoking the offer or revising the rates upward or offering voluntary reduction by the lowest tenderer after opening of Cover II shall be considered as a willful default. For this default a penalty of an amount equal to Earnest Money shall be levied. In case of an un enlisted tenderer, 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

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

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 call.

14. Tender to related firms shall not be issued simultaneously. Firm 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.

Signature Of Contractor  
File No \_\_\_\_\_

(-----sdx-----)  
EE (QS&C)  
DCWE (Contracts)  
For CWE ASR

Address of Accepting Officer  
(Contact Details of the Concerned Officer )

82425/CWE/ASR-50/ /E8

Dated : 2024

Headquarters  
Commander Works Engineer  
Amritsar Cantt

**Distribution:-**

1. Builders Association of India G-1/G-20 Commerce Centre 7th Floor Tardeo Bombay-400034	9. Cantonment Board Jalandhar Cantt General Post office Amritsar Cantt State Bank of India, Amritsar Cantt
2. MES Builders Association of India 807, Sahyog, 58 Nehru Place, New Delhi-110019	10. General Post office Amritsar Cantt
3. MES Builders Association of India Chandigarh Branch, 706, Sector 8-D Chandigarh	11. State Bank of India, Amritsar Cantt
4. MES Builders Association of India, C/O 13 Sadar Bazar Jalandhar Cantt	12. Municipal Committee Jalandhar
5. MES Builders Association of India, Shivaji Nagar-1, Dhanguj Road Pathankot-145001.	13. SE CPWD Jalandhar Cantt
6. HQ Chief Engineer Jalandhar Zone Jalandhar Cantt	14. Executive Engineer, CPWD Jalandhar
7. HQ CWE Jalandhar Cantt	15. Station Master, Station Amritsar
8. All GEs under HQ CEJZ	16. HQ CEWC Chandimandir

**Internal**

E-2, E-4, E-6 Section.

Website folder Computer E8 Sec

- for uploading in MES website <https://defproc.gov.in>

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

**(TO BE READ IN CONJUNCTION WITH GENERAL CONDITIONS OF CONTRACTS  
( IAFW-2249 -1989 PRINT)**

**MILITARY ENGINEER SERVICES**

Headquarters  
Commander works Engineer  
Amritsar Cantt

82324/CWE/ASR-50/ /E 8

Sep 2024

**SPL REPAIR TO CANTT PERIMETER WALL ALONG WITH HIGHWAY AT OLD  
AMRITSAR CANTT**

Dear Sir (s),

Shri/S'Shri \_\_\_\_\_

of \_\_\_\_\_ is/are hereby authorized to tender for the above  
work. Online bid only is to be submitted on web site <https://defproc.gov.in>

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

\_\_\_\_\_  
Signature of the Contractor  
Dated:

Signature of the Officer  
issuing the tender documents.  
Appointment: DCWE (Contract)

**SCHEDULE 'A' NOTES****NOTES:**

1. Schedule 'A' of this contract is divided into two parts as follows :-
  - (a) Schedule 'A' Section – I : BOQ
  - (b) Schedule 'A' Section –II : Schedule of credit
2. The tenderer's are required to work out and quote their prices for each item of works as catered in Schedule 'A' Sec-I in the manner set out in condition 6 (A) (D) of IAFW-2249 and quote their rates per unit under col 5 in figures based on the description of items, specification, special conditions, general conditions and other conditions of the contract for each item separately and sum of the total amount so arrived at, and carry forward the same to the general summary at appropriate place provided for.
3. Method of Measurement for all items of Schedule 'A' shall be as given in MES standard Schedule of rates unless specifically stated otherwise elsewhere in tender documents for particular item of work.
4. Description of works and items of works given under col 2 of all parts of Schedule 'A' is in brief. These shall be deemed to be amplified and read in conjunction with special conditions, particular specifications, specification contained in the relevant trade sections of MES standard Schedule (SSR) including preambles and notes therein.
5. All items of Schedule 'A' Section-I are for materials and labour/supplying and fixing as applicable complete unless specifically described otherwise as "Labour only" and or "Fixing only in the description of particular items under col 2.
6. **Period of Completion**
  - (a) The entire work under this contract shall be completed within **06 (Six months)** from date of handing over of site and commencement of work as stated in work order No 1 to be issued by GE for the purpose.
  - (b) Site 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 program accordingly. No claim whatsoever, for not giving entire site on award of work and for giving site gradually, will be tenable.
7. **Performance Security**

In terms of condition 19 of IAFW-2249, 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.

Failure of the successful contractor to deliver the Performance security within the time period as mentioned above shall constitute sufficient grounds for cancellation of the award of work and forfeiture of the Earnest Money/equal amount from security deposit in case of enlisted contractor.

In case contractor has opted to submit performance security in the form of the bank guarantee bond ie BGB, the validity of BGB should be up to the expiry of defect liability period. Further, in case defect liability period of the contract is extended due to



delay in completion of work, contractor shall get the validity of BGB extended from the bank without waiting the notice from the department.

The performance security deposit shall be refunded to the contractor after expiry of defect liability period as certified by the GE provided contractor shall first be paid the final bill and have rendered a "No demand certificate".

**8. Defect liability period :-**

The defect liability period (as per Amndt No 49 to IAFW-2249) for this contract shall be 12 (Twelve) calendar months after the certified date of completion by the GE and work have been handed over to the government.

9. Contractor's Rate shall be deemed to include for all minor details, processes and operations which may not have been specifically mentioned or given in particular specifications but which are essential for the execution of works and services in a sound and workman like manner so as to be structurally and functionally sound. In case of any difference of opinion between GE and the Contractor as to whether or not certain items of works constitute(s) minor details which is included in the contractor's Rate the decision of the Accepting Officer shall be final conclusive and binding.

10. Unit rate quoted against each item as described in Sch 'A' shall also include the cost of any cutting, leaving, forming, holes/chases etc in walls, as required and making good. No adjustment shall however, be made separately on this account.

11. The abbreviation 'RM', Sqm, Cum and Kg where ever appear in the tender documents especially under column of unit of Sch 'A' shall have the meaning "Running metre", "Square metre", "cubic metre" and "Kilogram" respectively.

12. The contractor shall take all necessary precautions for the protection of adjoining property (wall, plaster, doors, chowkats etc.) while demolishing/dismantling of existing joinery items/sanitary/structure/builder's hardware items or part thereof as ordered by Garrison Engineer. It shall be the responsibility of the contractor to make good if any damages to existing property is caused during dismantling/ demolition.

13. The old unserviceable dismantled/demolished material (as decided by the Engr-in-charge) not shown in the Sch of Credits & mentioned in Sch 'A' to be reused, shall become the property of the deptt and the contractor shall deposit the same in the MES Store yard without any extra cost.

14. Rates quoted against all items shall be deemed to include all taxes, **Goods & Services Tax** (CGST, IGST & SGST) on works contracts, levies, duties, Octroi, entry tax, labour welfare cess and shall also include all other local taxes as levied by the State Government, local bodies payable under respective statutes etc directly related to contract value, employees provident fund as EPF & MP Act 1952 and all taxes applicable to contracts. In this connection clause 26 of Particular Specifications Section-I (Special Conditions) shall also be referred. No claim whatsoever shall be entertained by the department on account of any misunderstanding in the regard. Any other condition stipulated by the tenderer regarding any other taxes/ duties will not be considered and such tender shall be liable for rejection.

15. **GST ACT:** It is incumbent on the part of tenderers to hold GST number. Irrespective of whether any tenderer has got his firm registered or not for execution of the work, GST/ TDS on account of GST as applicable shall be deducted at sources.

16. **EPF** : It is mandatory for every bidder to get him registered with EPF organization and submit the Universal Account Number (UAN – Unique ID allotted by EPF Org) of his

employees to the GE for record purpose. The contractor shall be responsible for submission of EPF contribution for himself (being employer) and his employees.

17. All the materials to be incorporated in the work shall be got tested as per the latest relevant IS codes and the cost of the same shall be deemed to be included in the unit rates quoted.

18. In case any repeated items in Sch 'A', lowest rate quoted by tenderer shall be considered for payment purpose.

19. Irrespective whatever written elsewhere in the tender documents the fine aggregate, coarse aggregate, bricks and other materials shall be procured only from the legal sources.

20. Wherever in Sch 'A' / anywhere else in the tender document, it is mentioned "or equivalent" in the makes, the equivalent makes shall only be provided on in case the makes mentioned does not manufacture the respective item. The makes shall be as approved by GE.

21. The payments due to the contractor shall only be made by e-payments. The contractor shall provide all the necessary details including bank account number, IFC code etc to the GE. If, however, the mode of payment is changed, no claim on this account shall be entertained.

22. Work beyond scope of CA shall not be executed by the contractor without written approval of GE. No payment will be made to the contractor in RAR/Final bill for works executed without written approval of GE. In this regard General condition 7 of IAFW-2249 be also referred.

23. A tenderer is supposed to check if any revised BOQ has been uploaded, and quote in Revised BOQ only. Thus uploading quotation in pre-revised BQO shall be considered as a willful negligence by the bidder and his quotation shall be considered non-bonafide.

24. Contractor not in possession of Provident Fund Code Number shall be disqualified in 'T' bid evaluation and his financial bid shall not be opened. The Contractor shall upload fund code number documents in the respective envelope.

25. Quoted sum shall be arrived at after deducting amount of schedule of credit from the total amount of the BOQ.

26. Court of Jurisdiction: - 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.

27. In case of any deviation, mode of pricing shall be decided by Accepting Officer in terms of Condition 62 of IAFW2249.

28. In the event of a deviation order involving fixation of Special (Star) Rate, Draft Rate shall be prepared by GE (within a maximum 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 actuals 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.

29. Draft Star Rate shall be made based on market enquiry through telephonic enquiry/ quotations/email/rate lists/internet based sources, materials & labour constants available in various civil engg 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.

30. 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.

31. 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.

32. 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.

33. Note for LED lights :- Contractor shall submit the manufacturer's Guarantee/warranty Card for the LED lights supplied by him under this contract. The manufacturer's Guarantee/Warranty shall specifically mention the Guarantee/warranty period.

**34. For execution of electrical works/ electrical component of works requiring Electrical License in accordance with Central Electricity Authority Rule 29 under Part-III, 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 License.**

35. Prior to commencement of electrical work/ electrical component of works and other works as mentioned in Para 33 above, copy of valid Electrical License in the name of the contractor or copy of agreement with agency having valid Electrical License along with agency's Electrical License shall be submitted by the contractor to the Accepting Officer through GE. In case contractor does not possess valid Electrical License and he intends to get such work executed through agency having valid Electrical License and with whom he has agreement, prior approval of such agency in all contracts shall be got done from competent authority, who shall be concerned CWE (concerned CE Zone/CCE in case there is no CWE). Copy of License shall be kept on record by CE Zone/CWE/GE for future reference.

36. **Location of work** - 15ID/SRW/BLDG/ (ASR)-03/2024-25 : Spl repair to perimeter wall alongwith highway at old Amritsar cantt.

SCHEDULE 'A' SECTION –II  
(SCHEDULE OF CREDIT)

NOTES:-

1. The amount of credit given below is for the materials obtained from the dismantling/demolition of the items described in BOQ / Schedule 'A' Section-I.
2. Quantities of the material listed in this Schedule are Provisional. The amount of Credit of material shall be calculated on the basis of actual quantities of material retrieved at site and the contractor shall have no claim on this account.
3. The contractor shall have no claim if the material obtained from dismantling/demolitions of items are found disfigured or broken.
4. The amount of Credit shall be deducted from the contractor's RAR/Final Bill payments becoming due just after dismantling/demolition of the old work.

Srl No	Description of work	A/U	Qty	Rate In Rs	Amount In Rs
1	2	4	5	6	
1	Old unserviceable Brick Bats received from Serial item No 04 of BoQ	CUM	40	250.00	10000.00
2	Old unserviceable AC/fiber sheet received from Serial item No 07 of BoQ	SQM	3000	10.00	30000.00
3	Old unusable Scrap iron received from Serial item No 08 of BoQ	KG	500	25.00	12500.00
4	Old unserviceable RCC/wooden post received from Serial item No14 of BoQ	RM	1250	2.00	2500.00
	<b>Total</b>				<b>55000.00</b>

GENERAL SUMMARY OF BOQ/SCHEDULE 'A'

1. Total of BOQ B/F from Srl. Page No. = Rs. \_\_\_\_\_
2. Deduct as per Sch of Credit (Sch 'A' Sec-II) = (--) **Rs. 55,000.00 (Minus)**
3. Total C/O to Srl Page No = Rs. \_\_\_\_\_

(Signature of Contractor)

DCWE (Contracts)  
For Accepting officer

**SCHEDULE 'B' STORE****(ISSUED OF MATERIALS ETC TO CONTRACTOR)**  
**SEE CONDITION 10 OF IAFW-2249**

Ser No	Particulars of materials	Unit	Rate at which material is Issued	Place of issue by name	Remarks
1	2	3	4	5	6

**NIL****SCHEDULE 'C'****ITEMS OF TOOLS AND PLANTS (OTHER THAN TRANSPORT)**  
**WHICH WILL BE ISSUED TO THE CONTRACTOR**  
**(See Condition 15, 34 & 35 of IAFW-2249)**

Ser No	Quantity	Particulars	Details of Crew	Hire Charges per unit Per working Day in Rs.	Standby charges per unit per off day Rs.	Place of issue	Remarks
1	2	3	4	5	6	7	8
<b><u>N I L</u></b>							

**SCHEDULE 'D'**  
**TRANSPORT TO BE HIRED TO THE CONTRACTOR**  
**(See conditions 16 and 35 of IAFW-2249)**

Ser No	Particulars	Rate per unit per working day	Place of issue (by Name)	Remarks
1	2	3	4	6
<b><u>N I L</u></b>				

Signature of the Contractor

DCWE (Contracts)  
For Accepting Officer

**TENDER****THE PRESIDENT OF INDIA**

Having examined and perused the following documents:-

1. Specification signed by DCWE (Contracts).
2. Drawing detailed in list of drawings.
3. Schedule 'A', 'B', 'C' and 'D' attached hereto.
4. MES standard schedule of Rates 2009 (Part-I) (Specifications) & 2020 (Part-II) (Rates) together with Errata/Amendments as under :-
 

(a)	SSR Part-I (2009) : Amendment	1 to 3
	Errata	NIL
(b)	SSR Part-II(2020) : Errata	NIL
	Amendment	1 to 122
5. General conditions of contract IAFW-2249 (1989 Print) together with Amendment No 1 to 49 and Errata 1 to 20.
6. WATER under condition 31 of IAFW-2249 (General conditions of contracts). Water will be supplied by the MES and will be charged from the contractor @ Rs 3.75 per 1000 Rupees worth of work done.
7. Should this tender be accepted :-

I/We agree

\*(a) That the sum of Rs. \_\_\_\_\_ Rupees \_\_\_\_\_) forwarded as earnest money shall either be retained as a part of Security Deposit or be refunded by the Department on receipt of an appropriate amount as Security deposit within the time specified in condition 22 of IAFW-2249.

(b) To execute all the works referred to in the said documents upon the terms and conditions contained or referred to therein 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 **10% (TEN PERCENT)** percent and further agree to refer all the disputes as required vide condition 70 to Sole Arbitration of serving officer having degree in Engineering or equivalent or having passed final/direct final examination of sub Div-II from institution of surveyors (India ) recognised by the Govt. of India to be appointed by **Chief Engineer Western Command, Chandimandir**, or in his absence, the officer officiating as Chief Engineer Western Command, Chandimandir, whose decision shall be final, conclusive and binding..

\*To be deleted where-ever not applicable.

Total amount brought forward from serial page No : \_\_\_\_ Rs \_\_\_\_\_

(Rupees. \_\_\_\_\_  
\_\_\_\_\_ for the contract sum.

Signature \_\_\_\_\_ (Name \_\_\_\_\_) in the  
capacity of \_\_\_\_\_ duly authorized to sign the tender for and  
on behalf of M/S \_\_\_\_\_ ( In block letters ).

Dated:

Postal Address:

Witness \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone No : \_\_\_\_\_

### **ACCEPTANCE**

\_\_\_\_\_ Alternations have been made in these documents and as evidence  
that these alterations were made before the execution of the contract agreement, these have  
been initialed by the contractor and **Shri Sajan Kumar , 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 the contract  
sum of Rs \_\_\_\_\_

(Rupees \_\_\_\_\_  
\_\_\_\_\_ )

on the \_\_\_\_\_ day of \_\_\_\_\_ 2024 )

Signature \_\_\_\_\_ dated this \_\_\_\_\_ day of \_\_\_\_\_ 2024

Appointment: Accepting Officer  
Commander works Engineer  
Amritsar Cantt  
(For and on behalf of the President of India)

**SPECIAL CONDITIONS****1. GENERAL**

1.1 The following special conditions shall be read in conjunction with General Conditions of contracts IAFW-2249 (1989 Print), including errata/amendment thereto, If there are any provisions in these special conditions which are at variance with the provisions in the above mentioned documents, the provision in these special conditions shall be deemed to take precedence.

1.2 General Rules, preambles, special conditions method of measurements etc. specified in MES Standard Schedule of Rates shall be applicable unless specific provisions to the contrary are made in these tender documents.

**2. INSPECTION OF SITE BY CONTRACTOR & RESPONSIBILITY TO ASCERTAIN HIS OWN INFORMATION**

- (a) The tenderers 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 tenderers shall also make themselves familiar with 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 tenderers shall be deemed to have inspected the site(s) and made themselves familiar with the working conditions, whether they actually inspect the site (s) or not.

**3. CONDITIONS FOR WORKING**

The contractor, his agents, employees, work people and vehicles may pass through the unit lines. The contractor shall submit list of personnel employed by him along with their Aadhar card, police verification etc . There after security passes of contractor and his employees will be issued by competent authority. Passes shall be returned at any time on demand by Engineer-in-Charge and in case of completion of work.

The contractor and his people on the work site(s) shall observe all security rules promulgated from time to time by the authorities controlling the area where the work is to be carried out e.g. prohibition of smoking and lighting in certain Zones, search of persons at entry and exist and keeping to specified routes, restricted hour of working etc. Any person(s) found violating the security rules laid down by the authorities in the area is/are liable to be expelled from that area without assigning any reasons whatsoever and the contractor shall have no claim on this account.

**4. CONDITIONS FOR WORKING: ALL WORKS LIE IN UNRESTRICTED AREA**

- (a) The contractor, his agents, servants, workmen and vehicles may pass through the unit lines in which case the Competent Authority on recommendation of Engineer in charge/GE shall, at his discretion, has the right to issue passes, control their admission to the site of work or any part thereof. The contractor shall on demand by the Engineer-in-Charge submit a list of personnel, etc. concerned and other information's called for by the Engineer-in-Charge and shall satisfy the Engineer-in-Charge as to the bonafide of such people. Passes shall be returned at any time on demand by the Engineer-in-Charge and in any case on completion of work.
- (b) The contractor and his work people shall observe all the rules promulgated from time to time by the authority controlling the area where the work is to be



carried out e.g. prohibition of smoking, keeping to specified routes, etc. Any person found violating the security rules laid down by the authority, shall be immediately expelled from the area without assigning any reasons what-so-ever and the contractor shall have no claim on this account. Nothing shall be admissible for any man-hours lost on this account.

5. **HOURS OF WORKING**

The working hours shall be as notified by the authority controlling the area, which will be normally from 0800hours to 1700 hours. If however, contractor wants to work beyond these normal hours he can do so if permitted by the GE in writing. Similarly no work will be allowed to be carried out on Sunday and Gazetted holidays unless specifically permitted by the GE in writing.

6. **LAND FOR TEMPORARY WORKSHOPS, STORES ETC. (REFERENCE CONDITION 24 OF GENERAL CONDITIONS OF CONTRACTS (IAFW-2249)**

- (a) The contractor shall be permitted to store his materials including erection of temporary sheds for stores and workshops with chowkidar at the area decided by the GE in consultation with the user. The contractor shall pay license fee of Rupee one per year or part thereof in respect of each and every separate area of land allotted to him.
- (b) The Contractor shall be not be permitted to erect his labour camp and the like on the Defence land. He shall make his own arrangement for this purpose outside the Defence land.

7. **DAILY RETURNS TOOLS & PLANTS, MACHINERY AND TRANSPORT DEPLOYED AT SITE**

- (a) 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, manufacturers 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, indicating No., (quantity) at each location on the site of work.
  - (iv) Purchase value on the date of purchase. For the purpose of this condition, plant/ equipment, vehicle No., i.e. of trucks and lorries but neither the workman's tools or any manually operated tools/equipment shall be given. 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.

8. **LOSS OR DAMAGE ON ACCOUNT OF ENEMY ACTION**

8.1 If as a result of enemy action, the contractor suffers any loss or damage, the Govt., shall reimburse to the contractor such loss or damage to the extent and in the manner here-in-after provided:-

- (i) The loss suffered by him on account of any damage or destruction or his plant and/or equipment (as defined in special condition para 7 above) or materials or any part or parts thereof. (The amount of loss assessed by the Accepting Officer

**SPECIAL CONDITIONS (CONTD..)**

of the contract, or CWE in the case of contract accepted by GE, 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 Workmen's legal successors for loss of the workman's life.

(iii) Payment of compensation for loss or damage to any work or part or work carried out. The amounts of compensation shall be determined in accordance with condition 48 of General Conditions of contracts (IAFW-2249). No reimbursement shall be made nor any compensation be payable under the above provision unless the contractor has taken Air Defence Precautions ordered in writing by the GE concerned or in the absence of such reasonable precautions. Neither reimbursement nor any compensation shall be payable for any plant and/or equipment or material not lying at site of work at the enemy action.

9. **USE OF EXISTING BUILDINGS ETC.**

The contractor shall not use the existing latrines, baths and other existing buildings if any for use by his work people or for storage of his materials or for any other purpose unless permitted to do so in writing by Garrison Engineer.

10. **WATER**

10.1 If contractor so desires, water will be supplied by MES to the contractor at one point by the GE from piped system and shall be paid for by the contractor @ Rs. 3.75 per Rs. 1000/- worth of work done at contract rates. The contractor shall make arrangements at his own expense for storage of water and lifting, pumping, carrying or conveying water to the site of work as required.

10.2 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 does not guarantee for the continuous supply of water and no compensation shall be allowed for intermittent or inadequate supply of water 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 costs. For this purpose the contractor shall be allowed to install hand pump(s)/tube well(s) at the site of work at places as directed by the Engineer-in-Charge without any extra cost from the contractor on this account. The contractor shall remove the hand pump(s)/tube well(s) as and when asked to do so by the Engineer-in-Charge or GE and in any case on completion of work. No compensation what-so-ever shall be admissible to the contractor if the GE ask him to remove the pump(s)/tube well(s) before completion of work.

10.3 In case contractor is not willing to draw water from MES, he shall have to give his unwillingness in writing for drawing water from MES along with tender documents. In case such unwillingness in writing is not found enclosed with tender, it will be assumed that he is willing to buy water from MES and his rates quoted include for the same. In case he is unwilling to draw water from MES then he will have to make his own arrangements for bringing and storing of water required for works and his employees from outside MOD land and he shall not be allowed to dig any well/tube well inside the defence land.

**SPECIAL CONDITIONS (CONTD..)****11. ELECTRICITY**

11.1 In case the contractor desires to buy electricity from the MES he shall be charged for electric energy consumed on the following :-

- (i) At Rs 13.00 (Rupees Thirteen) only per unit for lighting.
- (ii) At Rs 13.00 (Rupees thirteen ) only per unit for power.

11.2 Electric supply required for works shall be made available by the MES at the incoming terminal of the main switch as marked on the site plan. The main switch and KWH meter to register the electric energy supplied shall be provided and installed by the MES. The contractor shall provide all necessary cables fittings etc. from the main switch in order to ensure a proper and suitable supply of electricity for the execution of work.

11.3 The MES do not guarantee for continuity of supply and no compensation what-so-ever shall be allowed for supply becoming intermittent or for break down in the system.

11.4 The supply shall be AC, 3 phase.

11.5 In case point is not marked on site plan, it shall be as decided by GE.

**12. DAMAGE TO EXISTING BUILDINGS, ROADS AND DRAINS ETC.**

The contractor shall be responsible to reinstate and make good at his own expense, the damage if any caused by his workmen etc. to existing buildings, roads, drains, cables etc. while carrying out the work under this contract. Rectification, reinstatement, replacement, making good and touching up, etc. shall conform to the standard of workmanship and materials, originally used and the same shall be done to the entire satisfaction of Engineer-in-Charge.

**13. QUARRIES AND ROYALTY**

Reference condition 14 of IAFW-2249 General Conditions of contracts. Delete this condition in toto and substitute as under :-

“Neither quarries are available nor the quarrying shall be permitted on the defence land”.

**14. OCTROI AND OTHER DUTIES**

The price quoted by the contractor shall be deemed to include all duties, taxes such as Octroi, GST, etc., on work services as applicable. The contractor shall not include any condition for fluctuation in price of labour and or materials in his tender. Variation in prices of labour and materials during the progress of work consequent to any act of legislature is already covered in condition 63 of IAFW-2249 as modified by special condition here-in-after.

**15. ADJUSTMENT OF TAX ON SERVICE**

15.1 The price quoted by the contractor shall be deemed to include all duties, taxes , etc, payable under the respective statutes including the GST on works/contracts levied by the government. Accordingly the contractor shall include the same in his quotation/offer/ Rates.

**15.2 RE-IMBURSEMENT/ REFUND ON VARIATION IN “TAXES DIRECTLY RELATED TO CONTRACT VALUE” : -**

- (a) Rates quoted against all items shall be deemed to include all taxes, **Goods & Services Tax** (CGST, IGST & SGST) on works contracts, levies, duties, Octroi, entry tax, labour welfare cess and shall also include all other local

**SPECIAL CONDITIONS (CONTD..)**

taxes as levied by the State Government, local bodies payable under respective statutes etc directly related to contract value, employees provident fund as EPF & MP Act 1952 and all taxes applicable to contracts. No reimbursement/ refund for variation in rates of taxes, duties, royalties, octroi & other levies and/ or imposition/abolition of any new/ existing taxes, duties, royalties, octroi & other levies shall be made except as provided in sub para (b) here-in-below.

- (b) (i) The taxes 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 **Goods & Services Tax** (CGST, IGST & SGST) as applicable, Turnover Tax, Labour Welfare Cess/ Tax and like but excluding Income Tax. The tendered rates shall be deemed to be inclusive of all “taxes directly related to Contract value” with existing percentage rates as prevailing on bid submission end date. Any increase in percentage rates of “taxes directly related to Contract value” with reference to prevailing rates on bid submission end date 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 bid submission end date 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 bid submission end date shall be reimbursed to the Contractor and abolition of any “taxes directly related to Contract value” prevailing on bid submission end date shall be refunded by the Contractor to the Govt./ deducted by the Govt. from the payments due to the Contractor.
- (ii) The Contractor shall, within a reasonable time of his becoming aware of variation in percentage rates and/or imposition of any further “taxes directly related to Contract value”, give written notice thereof to the GE stating that the same is given pursuant to this Special Condition, together with all information relating there to which he may be in a position to supply. Contractor shall submit the other documentary proof/ information as the GE may require.
- (iii) The Contractor shall, for the purpose of this condition keep such books of account and other documents as are necessary and shall allow inspection of the same by a duly authorized representative of Govt, and shall further, at the request of the GE furnish, verified in such a manner as the GE may require, any documents so kept and such other information as the GE may require.
- (iv) Reimbursement for increase in percentage rates/imposition of “taxes directly related to Contract value” shall be made only if the Contractor necessarily & properly pays additional “taxes directly related to Contract value” to the Govt, without getting the same adjusted against any other tax liability or without getting the same refunded from the concerned Govt Authority and submits documentary proof for the same as the GE may require.

**16. MINIMUM WAGES PAYABLE TO LABOUR**

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

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- 16.2 Contractor's attention is also drawn amongst other things to the explanation to the Schedule of minimum wages referred to above.
- 16.3 The fair wage referred to in condition 58 of IAFW-2249 will be deemed to be the same as the minimum wages payable as referred to above as Upto date from time to time.
- 16.4 Schedule of minimum wages are not enclosed along with 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.
- 16.5 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.

**17. ADVANCE ON ACCOUNT AGAINST MATERIALS WHICH DOES NOT LOSE IDENTITY (APPLICABLE ONLY FOR CONTRACTS EXCEEDING RS 50 LAKHS)**

- 17.1 Condition 64 Of IAFW-2249 Advances On Account: - Add the following in continuation of para 8 "Provided further, the contractor may be paid advance on account of the full value of the under mentioned materials only, brought on the site, on his furnishing guarantee Bond(s) from a Schedule Bank for the amount of retention money which should otherwise be recoverable from him under the contract:-
- (a) Primer
  - (b) Paint
  - (c) Steel, MS work, Tubular pipe etc.
  - (d) Galvalume Aluminium Sheet/ Fibre Glass Sheet
  - (e) Barbed Wire
- 17.2 Bank Guarantee bonds shall be executed for a period on the form appended as Annexure- I to these special conditions. The contractor shall further arrange to extend the period of Guarantee Bond(s) if and when necessary as directed by the Accepting Officer on a format appended as Annexure-II to these special conditions or shall furnish fresh guarantee bond(s) of similar value in lieu. It will be noted that advance on account to the full value of materials brought on the 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 and similar items shall not be taken in the list.
- 17.3 Procedure for Acceptance of Bank Guarantee Bond(s) in Lieu of security deposit / retention money
- (a) Bank guarantee bonds will be sent by the manager of the banks under registered post to the Accepting Officer of the contract under the covering letter has been endorsed to their superior office.
  - (b) A Guarantee Bond received as mentioned above may be accepted by the competent authority if found otherwise in order. The office receiving the bond from the bank will acknowledge the same to the Bank concerned and enclose a certificate or a Photostat copy of the Bond for their record. A copy of this letter along with a copy of the bond will also be endorsed to the superior office of the bank as aforesaid for their information and record. Both the above communications to the banks shall be sent under registered post.

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- (c) The above instructions will also be applicable to extension of validity to Bank Guarantee Bonds.

**18. CO-OPERATION WITH OTHER AGENCIES**

The contractor shall permit fire access and afford reasonable facilities to other Agencies or departmental workmen engaged by Govt. to carry out other work services (whether or not in connection with the work under the store of this contract) on the site, simultaneously. The contractor shall not be allowed any extra payment on this account.

**19. PERFORMANCE SECURITY DEPOSIT**

**19.1 Refer Conditions 19 of IAFW-2249. The contractor has to deposit performance security for this contract as per condition 19 of IAFW-2249 as notified by the Accepting Officer.**

19.2 Performance security by the successful contractor shall be given in the form of Bank Guarantee Bonds or Govt Securities or FDR in terms of Condition-19.1 of IAFW-2249. No other form of performance security will be accepted.

19.3 The full amount of Performance security for the contract shall be given by contractor in any one of the forms stipulated in Clause- 23.2 here-in-before. Mix of performance security for the contracts shall not be allowed.

19.4 Performance security will be released in accordance with Condition-68 of IAFW-2249.

**20. RELEASE OF ADDITIONAL SECURITY**

Reference condition 22 and 68 of IAFW-2249. To enable the department to release the additional security deposit in two installments, the contractor shall be required to submit the security in two equal parts which can be released separately.

**21. TIME AND PROGRESS CHART USING CRITICAL PATH METHOD**

21.1 The time and progress chart to be prepared as per condition 11 of IAFW-2249 (General Conditions of Contracts) shall consist of detailed net work analysis and a time schedule. The critical path net work will be drawn jointly by the GE and contractor soon after but before the date of commencement as per Work Order No.1. 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 scheduling a firm calendar date schedule will be prepared and submitted by the contractor to GE who will approve it after the scrutiny. The calendar date schedule will be submitted in four copies within two weeks from the date handing over site.

21.2 During the currency of the work the contractor is expected to adhere to the time schedule and this adherence will be one of the main parameters of the contractor's performance under this contract. During the execution of the work the contractor is expected to participate in the review and updating of the net work as and when called for by GE. The reviews may be undertaken at the discretion of GE either as a periodical appraisal measure or when the quantum of work ordered on the contractor is substantially changed through deviation orders or amendment. Any revision of time schedule as a result of the review will be submitted by the contractor to the GE for his due scrutiny and approval.

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21.3 The contractor shall adhere to the revised schedule thereafter. In case of contractor disagreeing with a revised schedule, the same will be referred to the Accepting Officer whose decision shall 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 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 under the existing rules and Acts.

21.4 Contractor shall mobilise and employ sufficient resources to achieve the detailed time schedule within the broad frame work of the accepted method of working and safety. No additional payment will be made to contractor for any multiple shift work or other incentive of achieving the target dates.

**22. RECORD OF CONSUMPTION OF CEMENT**

22.1 The contractor shall maintain a Pukka 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.

22.2 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).

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

**23. SECURITY OF CLASSIFIED DOCUMENTS**

23.1 Tenderer's special attention is drawn to condition 2A & 3 of General Conditions of Contract IAFW-2249 for compliance. The contractor shall not communicate any classified information regarding the work either to sub contractor or others without the prior approval of the Engr-in-Charge. The contractor shall also not make copies of the design/drawings and other documents furnished to him in respect of work and he shall return all documents to the department on completion of the work or earlier on determination of the contract and or termination of the contract.

23.2 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).

**24. CLEANING DOWN**

The contractor shall clean all floors, joinery, glass panes etc. and remove drops of cement/lime paint etc. and touch up all painter's work and carry out other items of work as are necessary to make and leave the premises clean and tidy before handing over the buildings and/or works. The contractor shall not be allowed any extra payment on this account.

**25. VALIDITY OF TENDER**

The tender shall remain open for acceptance for a period of **60 (Sixty)** days from the bid submission end date commencing from the date next to bid submission end date.

**26. RECORD OF MATERIALS**

(a) The quantity of materials such as paint, water proofing compound, chemicals for anti-termite treatment and the like as directed by the Engineer-in-Charge (the quantity of which cannot be checked after incorporation in the works), shall be recorded in Measurement Books and signed by the contractor and the Engineer-in-Charge as a check to ensure that the required quantity has been brought to site for incorporation in the work.

**SPECIAL CONDITIONS (CONTD..)**

(b) The quantity of proprietary articles brought to site shall be recorded in Measurement Book (IAFW-2261) and signed by the contractor and the Engineer-in-Charge as a check to ensure that the required quantity has been brought to site for incorporation in the works. The proprietary materials shall be stored as directed. Those already recorded in the measurement book shall be marked suitably for identification.

(c) The contractor shall on demand, produce to the GE, original receipt vouchers/invoices in respect of the supplies to ensure that the contractor has actually brought the required quality and quantity from the authorized source/sources and also to find out the rates thereof. The vouchers/invoices shall be defaced and stamped by Engr-in-Charge indicating contract No, Name of work under his dated signature. The Vouchers/invoices shall be kept on record.

(d) Under no circumstances payment on account (RAR) shall be made to the contractor as material lying at site for incorporation in the work, unless the contractor submit original purchase vouchers/invoices for the items of materials as applicable.

(e) The vouchers/invoices will clearly indicate the contract number and the IS No. with specific alternatives to which the materials conforms in case of various alternatives given in IS.

(f) Contractor shall produce vouchers/invoices from the manufacturers and/or their authorized agents for the full quantity of the following materials, as applicable as 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.

(a) Primer (b) Paint (c) Steel, MS work, Tubular pipe etc.

(d) Galvalume Aluminium Sheet/ Fibre Glass Sheet (e) Barbed Wire

**27. PURCHASE VOUCHERS**

Contractor shall produce following voucher/invoice from the manufacturer and /or their authorized agents of materials and deface by the Engr-in-charge:-

(a) Primer (b) Paint

(c) Steel, MS work, Tubular pipe etc. (d) Galvalume Aluminium Sheet/  
Fibre Glass Sheet (e) Barbed Wire

**28. MATERIALS AND SAMPLES**

28.1 Refer condition 10 of IAFW-2249.

28.2 The materials and articles, which have been specified from certain makers/manufactures, shall be of makes/manufacturers as specified. If the manufacturer specified in tender documents makes both ISI marked and conforming to ISI, the materials/articles shall be provided only of ISI marked.

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

(i) If ISI marked materials are being manufactured the same shall be ISI marked. For list of ISI marked manufactures 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 confirming to IS specifications.

(iii) 28.4 Materials of local origin shall be as specified and conforming to samples kept in GE's office. The tenderer is advised to inspect sample of materials, which are



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displayed in the office of GE, before submitting his 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.

- 28.5 The contractor shall not procure materials and articles unless the samples are first got approved by GE.

29. **GUARANTEE OF WATER PROOFING TREATMENT TO BUILDINGS IN CONTRACTS INCLUDING SPECIAL WATER PROOFING TREATMENT**

- 29.1 Provision should be made in tenders under Special Condition to cater for the following:-

The period of guarantee shall be 10 years (TEN YEARS) from the date of actual date of completion of work. The contractor shall furnish guarantee in favor of the Garrison Engineer for the effectiveness of the water-proofing treatment during the guarantee period. If the work is executed through a Sub Contract, the guarantee furnished by the Sub Contractor should be in favor of the Garrison Engineer and not in favor of the main Contractor.

- (ii) An appropriate sum, equal to the amount of security deposit calculated as per scales laid down for individual securities deposit on the amount of water proofing treatment at the contract rates under the contract, should be retained out of the final bill amount as Security Deposit for the water-proofing work, and it should be released to the Contractor only after the expiry of the guarantee period. The facility of furnishing fixed deposit receipt/BGB in lieu of the sum to be retained as security may be accepted.

30. **WATCH/ LIGHTING**

The Contractor shall at his own cost take all possible precautions to ensure safety of life and property by providing necessary fencing, barrier, light, watchmen etc., during the progress of work and as directed by the Engineer-in-Charge.

31. **LABOUR REGULATION AND ABOLITION ACT**

Contract labour (Regulation and Abolition) Act 1970 is applicable to MES contracts. Rates quoted by the contractor shall be deemed to take into account the cost etc, required to comply with the provisions contained in the said act and the rules framed under the said act.

32. **HANDING OVER SITES**

Site 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 program accordingly. No claim whatsoever, for not giving entire site on award of work and for giving site gradually, will be tenable.

33. **APPROACHES**

The Contractor shall make arrangements for and provide at his own cost all temporary approaches, if required to the site(s), after obtaining approval in writing of the GE to the layout of such approaches.

SIGNATURE OF CONTRACTOR  
DATED :

DCWE (CONTRACTS)  
FOR ACCEPTING OFFICER

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

1.1 Work under this contract shall be carried out in accordance with Schedule 'A', particular specification, drawings, general specifications and other provisions in MES Standard Schedule of Rates here-in-after called MES Schedule Part -I of 2009 and Part -II of 2010 read in conjunction with each other.

(a) Terms "General specifications" referred to here-in-after as well as referred to in IAFW-2249 (General conditions of Contracts) shall mean the specifications contains in the MES Schedule Part -I

(b) General rules, specifications, special conditions and preambles in the MES Schedule shall be deemed to be applicable to the work under this contract unless specifically stated otherwise in these documents in which case the provision in these documents shall take precedence over the aforesaid provision in the MES Schedule. The terms "as specified" wherever appears in tender documents and drawings relates to relevant particular specifications and in its absence general specifications.

(c) Where specifications for any item of work are not given in MES Schedule or in these particular specifications, specifications as given in relevant India Standard or code of practice shall be followed.

1.2 Reference to some Paragraphs of MES Schedule have been made in these particular specification but other Paragraphs and provisions as applicable are also to be followed.

1.3 Where specification/provision given in these particular specification are at variance with the provision/specification given in MES Schedule, specifications/ provision given in these particular specification shall be followed.

**2. CEMENT**

2.1 **Type of Cement** : The details of various types and grade of cement are enumerated below :-

- (i) Ordinary Portland Cement, Grade-43, IS-8112-1989.
- (ii) Portland Pozzolana cement, Grade-43, IS-1489-2009(Part-I), subject to certain conditions given here-in-after.

2.2 **Procurement of Cement**: Cement shall be procured from the main producers/ manufacturers of the cement as specified in appendix 'B' to these particular specifications.

**2.2.1 BLANK**

2.2.2 The Particulars of the manufacturer of cement alongwith the date of manufacture shall be produced by the contractor for every lot of cement separately. The cement so brought shall be fresh and in no case older than 30 days from the date of manufacturing. The documents in support of the purchases of cement shall be verified by the GE. Before placing the order for supply of cement by the contractor, he shall obtain written approval from the GE regarding name of manufacturer, quantity of cement etc. Cement shall be procured for minimum requirement of one month and not exceeding the requirement of the same for more than two months at a time. The cement shall be consumed in the work within three months after receipt. Cement shall conform to the requirements of Indian Standard Specification and each bag of cement shall bear relevant ISI mark. The weight of each consignment shall be verified by the GE and recorded.

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2.2.3 Where estimated requirement of cement is 1200 bags or less (but for all term contracts) cement can be procured from authorised distributors/dealers of the approved firms, however contractor will have to submit test certificates for the batch issued by the firms. In this case the independent testing for cement will be carried out at the discretion of the GE. In case the contractor does not produce test certificate, the testing of cement by the GE will be mandatory and tests shall be carried out as per IS-4031 (methods of physical tests for hydraulic cement). It will also be ensured by GE that cement accepted shall not be more than 2 months old. The Particulars of the manufacturer/ authorised dealers of cement along with the date of manufacture shall be produced by the contractor for every lot of cement separately. The cement so brought shall be fresh and in no case older than 60 days from the date of manufacturing. The documents in support of the purchases of cement shall be verified by the GE. Before placing the order for supply of cement by the contractor, he shall obtain written approval from the GE regarding name of manufacturer, quantity of cement etc. Cement shall be procured for minimum requirement of one month and not exceeding the requirement of the same for more than two months at a time. The cement shall be consumed in the work within three months after receipt. Cement shall conform to the requirements of Indian Standard Specification and each bag of cement shall bear relevant ISI mark. The weight of each consignment shall be verified by the GE and recorded.

2.2.4 The cement shall be procured by the contractor preferably in paper polyethylene bags. The Average weight of each bags cement shall not be less than 50 Kg. The average weight shall be tested by taking the weight of 50 Kg bags selected at random by GE per lot. In case the weight is less than 50 Kg whole lot shall be rejected. In case weight is more than 50 Kg it shall be deemed to contain 50 Kg only and nothing extra shall be claimed by contractor on account of extra cement used in the work.

2.2.5 Purchase vouchers as mentioned here-in-before shall bear machine number from the manufacturer's.

2.2.6. Use of Portland pozzolana Cement (PPC) : While using PPC, the following requirement shall be met with :-

- (i) PPC shall meet the strength criteria of 43 Grade Ordinary Portland Cement (OPC) as laid down in IS-8112-1989.
- (ii) Minimum period before striking the form work given in Clause 11.3.1 of IS-456 : 200 and MES Schedule Part-I(SSR Part-I) vide Clause 4.11.6.3 shall be increased by three days. For example the minimum period before striking form work for soffits of beams (props left under) given as 7 days in Clause 4.11.6.3(c) of SSR Part-I shall be 10 days (7 + 3) for PPC.
- (iii) Extra curing shall be carried out as required.
- (iv) PPC shall not be used for over head reservoirs, underground sumps, prestigious bldgs(to be decided by GE) and blgs with span more than 10 metre. In such cases only OPC shall be used.
- (v) Mixing of OPC & PPC shall not be allowed in a work and separate record shall be maintained showing location and types of cement used.
- (vi) While procuring PPC, the following requirements are to be ensured and certificate to that effect shall be obtained by contractor for each batch from the manufacturer :-

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- (a) The quality of fly ash is strictly as per IS-1489 Part-I - 2002.
- (b) Fly ash is underground with clinker and not mixed with clinker.
- (c) Dry fly ash is transported in closed containers and stored in silos. Only pneumatic pumping shall be used.
- (d) The fly ash shall be from thermal plants using high temperature combustion above 1000° C.
- (e) The fly ash content in PPC shall be as per latest relevant IS code amended Upto date.

**2.2.7 Testing of Cement**

2.2.7.1 The contractor shall submit the manufacturer's test certificate in original along with test sheets giving the results of each physical test as applicable in accordance with relevant IS provision and the chemical composition of cement or authenticated copy thereof duly signed by the manufacturer with each consignment, as per the following IS provisions:-

- (a) Method of sampling for hydraulic cement as per IS-3535-1986.
- (b) Method of physical test for hydraulic cements as per IS-4031.
- (c) Method of chemical analysis of hydraulic cement as per IS-4032-1985.

The test certificate and test sheet shall be furnished with each batch of manufacture. The Engineer-in-Charge shall record these details in cement acceptance register to be maintained by him which will be signed by Supdt B/R Gde-I/JE (Civil), Engineer-in-Charge, Garrison Engineer and Contractor as given in the format here-in-after for verification.

2.2.7.2 The contractor shall however, organize setting time and compressive strength test of cement through designated laboratory on samples collected from the lot brought at site before incorporation in work. The contractor will be allowed to use the cement only after satisfactory compressive strength of seven days. To meet this requirement contractor is required to keep minimum 10 days stock before any new lot is brought at site which can be used in the work. The contractor shall be required to remove the cement not meeting the requirement from site within 24 hours. Seven day strength test will be relied upon to accept the lot of cement to commence the work. 28 days compressive strength test will be the final criteria to accept/reject the lot.

2.2.7.3 The GE shall carryout independent testing as per the tests mentioned in the 'CEMENT SUPPLY/ACCEPTANCE FORM' of random samples of cement drawn from various lots, if sample fails in 7 days compressive strength test. The testing shall be carried out through National Test House, SEMT wing of CME Pune, Regional Research Laboratories, Government approved Laboratories, Zonal Laboratories as per IS-3535-1986 (method of sampling hydraulic cement), IS-4031 (method of physical test for hydraulic cement) and IS-4032-1985 (method of chemical analysis of hydraulic cement) referred to above. The decision as to where the testing of cement is to be done shall be taken by GE. In case the cement is not of requisite standard despite manufacturer's test certificate, the contractor shall remove the total consignment from the site at his own cost after written rejection order of the consignment by the GE.

2.2.7.4 The random samples as per relevant IS shall be selected by GE before carrying out testing. The record of such samples selected by the GE for testing shall be properly maintained in the 'Cement Testing Register' giving cross reference to relevant consignment of cement and quantity received etc.

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2.2.7.5 Cost of transportation of samples to the approved laboratory/test house and all testing charges including cost of sample shall be borne by the contractor.

2.2.7.6 Notwithstanding the submission of purchase vouchers/test certificates, following tests shall be mandatory carried out as per IS-3535-1986 :-

- (a) Initial and final setting time.
- (b) Soundness test.
- (c) Compressive strength test to 3 and 7 days as specified in the relevant Paras of the Indian Standard.
- (d) Consistency test
- (e) Fineness

Other tests need not be carried out for cement procured with BIS certification mark unless specifically asked by GE or Accepting Officer and the contractor shall not have any claim on this account.

2.2.8 The cement shall conform to chemical requirements and physical requirements as specified in the respective clauses of the Indian Standard. The tests carried out as per provisions of IS codes specified here-in-before, shall be criteria for acceptance of cement by Engineer-in-Charge. If samples from a lot/lots are not within the acceptable limits of Indian Standard, the lot/lots shall be rejected without any claims or compensation to the contractor for the lot/lots purchased. The contractor shall replace the lot/lots with the fresh one which shall be tested again for acceptance.

2.2.9 The cost of all tests carried out on cement before acceptance for incorporation in the work shall be borne by the contractor whether the results are acceptable or not. No claim or compensation shall be entertained on this account and clause of IAFW-2249 deemed to be amended accordingly. Any cement lot/lots on being tested found not to be conforming with the relevant clauses of Indian Standard shall not be paid as material at site.

2.3 Storage of cement: Refer clause 4.3.1 of SSR Part-I 2009 for storage and precaution in storage of cement. The height of platform shall be at least 20 cm from floor, joint inspection of storage of cement shall be carried out by Engineer-in-charge and contractor once in a day. The cement fully set or partially set shall not be used in the work and shall be removed by the Contractor immediately without any extra cost.

2.3.1 Tested and untested cement shall be segregated and stored separately with distinct identification.

2.3.2 The cement go down 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 authorised agent at site of work so that cement is removed from the go down only according to the daily requirement with the knowledge of both the parties. During the period of storage, if any cement bag(s) found to be in damaged condition due to whatsoever reason, the same shall be removed from the cement go down on written order of the GE and suitable replacement for the cement bag(s) as removed shall be made and no claim whatsoever shall be admissible on this account.

2.4 Documentation

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

2.4.1 The Contractor shall submit original vouchers from the manufacturer for the total quantity of cement supplied under each consignment to be incorporated in the work. All consignments received at the work site shall be inspected by the GE along with the relevant documents before acceptance. The original Vouchers and the Test Certificate shall be defaced by the Engineer-in-charge and kept on record in the office of GE duly authenticated and with cross reference to the consignment number/contract number recorded in the cement acceptance register clearly mentioning 'Batch No.' and 'Date of manufacture' with cross reference to the consignment number/contract numbers recorded in the cement accepting Register. The cement acceptance register will be signed by JE (Civil), Engineer-in-charge, GE and the contractor. The CWE and /or Accepting Officer may exercise random check of cement and verification of connected documents.

2.4.2 The entire quantity of all cement shall suitably be recorded in the measurement Book (Not to be abstracted) for record purpose before incorporation in the work and shall be signed by the Engineer-in- charge and the contractor.

2.4.3 In addition to the cement Acceptance Register, the cement consumption register shall be maintained as stipulated in special conditions here-in-before.

**2.5 Schedule and Supply**

2.5.1 Schedule of supply of cement shall be finalized 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 supply shall be regulated in such a way that cement is consumed in work within three months of its procurement.

2.5.2 The complete requirement of cement will be worked out before making any RAR payment. Procurement of cement by the contractor shall be complete sufficiently in advance of the date of completion. The contractor will forfeit his right to demand extension of time if the supply of cement got delayed due to his failure in placing order in time to the manufacturer.

2.6 General: The payment shall only be allowed after production of original purchase vouchers, certified copies of test certificates from manufacturer for each consignment and results of testing carried out in laboratory on receipt of cement (7 days compressive test) are found satisfactory after testing as specified here-in-before. Payment for cement shall be made as material lying at site as per condition 64 of IAFW-2249. Rate of cement given in SSR shall be applicable for cement irrespective of grade of cement specified for use in the work.

**3. CEMENT CONCRETE**

3.1 Cement: Refer Para 4.3 of MES SSR 2009 Part-I and Clause 2 of here-in-before..

3.2 Coarse and fine aggregate for cement concrete (PCC and RCC): Refer Paras 4.4.1 to 4.4.7.3, of MES Schedule Part-I. Fine aggregate shall be sand obtained from the sources given here-in-after.

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

3.3.1 Coarse aggregate for plain and reinforced cement concrete shall be machine-crushed stone. Grading of coarse aggregate unless otherwise specified shall be as follow: -

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

- i) For all plain & reinforced cement concrete of thickness Upto 25 mm thickness. - 12.5 mm graded
  - ii) For all reinforced cement concrete over 25 mm thickness - 20 mm graded
  - iii) For plain cement concrete over 25 mm thick and under 75mm thick. - 20mm graded
  - iv) -ditto- but 75 mm thickness and over - 40 mm graded
- 3.3.2 Grading of coarse aggregate for plain and reinforced concrete i.e. crushed stone aggregate shall be as per Para 4.4.7.1 of MES Schedule Part-I. Grading of broken brick aggregate for lime concrete shall be as per Para 4.5.3 of MES Schedule Part-I.
- 3.3.3 Grading of fine aggregate (sand) shall be as per Para 4.4.7.2 of MES Schedule Part-I for grading Zone-III.
- 3.4 Mix of cement concrete: Refer Paras 4.11.1, 4.11.2, 4.11.2.1 to 4.11.2.4 of MES Schedule Part-I. Mix of cement concrete shall be as described in Sch 'A'.
- 3.5 Form Work : Refer Paras 4.11.6.1 to 4.11.6.5 of MES Schedule (Part-I). Irrespective of type of formwork mentioned elsewhere or indicated in the drawings, formwork shall be of steel only. Steel formwork (both verticals props and surfaces) shall be properly designed. However, for deviation if any, rates in MES Standard Schedule of Rates, for timber formwork (Rough finished surfaces) shall only be applicable.
- 3.6 Mixing: Mixing of concrete shall be done in a mechanical mixer.
- 3.7 Workability : Workability of concrete for various locations shall be as per Clause 7.1 of IS 456-2000.
- 3.8 Compaction of concrete : Refer to Para 4.11.11 of MES Schedule Part-I Consolidation/compaction of of RCC Slabs/beams/columns/lintel/chhajja/ shelves etc and the flooring (exceeding 75mm thickness) shall be done with approved mechanical vibrator. Where however the same is not feasible manual compaction shall be carried out after obtaining permission from Engr-in-Charge.
- 3.9 Throating/weathering: Throating to projection of RCC/PCC beyond external faces of the wall where shown on drawing and where RCC chhajja are not provided with down ward fascia shall be formed in concrete while casting by planting fillet/bar of 12 mm dia. in the form work and finished smooth.

**4. BRICK WORK**

- 4.1 (i) Refer Paras 5.6.1 to 5.6.9 of MES Schedule Part-I. The bricks shall have minimum compressive strength of 75 Kg/Sq.cm and shall be sub class 'B' which are locally best available and water absorption of bricks shall not exceed 20% (Twenty Percent). Sampling and testing of bricks shall be carried out as per IS-5454 (1998). Brick shall be old size brick as mentioned in Para 5.6.3 MES Schedule Part-I.
- (ii) The bricks shall be soaked in water before incorporation as mentioned in Clause 5.22 of MES Schedule Part-I.

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

4.2 Cement : As specified here-in-before.

4.3 Sand : Refer para 5.4, 5.4.1 and 5.4.3 of MES Schedule part-I.

4.4 LAYING AND BONDING

4.4.1 Preparation of Cement Mortar : Mixing shall be done preferably in a mechanical mixture. The mortar shall be mixed for at least three minutes after addition of water. Cement mortar shall be freshly mixed for immediate use. Any mortar which has commenced to set shall be discarded and removed from the site.

4.4.2 Bricks shall be laid and bonded all as specified in Paras 5.23 & 5.24 of SSR Part-I.

4.4.3 Striking of joints and curing shall be carried out as specified in Paras 5.28 & 5.30 of SSP Part-I.

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10 **STEEL AND IRON WORK**

All steel including structural steel, steel sheets etc for entire completion of work shall be procured by the contractor at his own cost.

10.1 Materials

Size type and Gde of steel shall be as shown on drawing (s) However, if Gde and type of steel are not shown on drawing (s) the same shall be TMT bars Gde Fe-500/Fe-500d/ Fe-550/Fe-550d for reinforcement and MS Gde I Fe-410-S for structural purposes. Various types of steel are given as under :-

(a) Reinforcement Steel. High strength deformed steel bars produced by thermo mechanical treatment process of Gde Fe-500/Fe-500d/Fe-550/Fe-550d and meeting all other requirements of IS-1786.

(b) Structural Steel.

(i) Specification of structural steel as given in clause 10.4 of SSR Part-I shall be applicable. Standard quality Fe-410-S conforming to IS-2062 for all types of steel structures including these subject to dynamic loading shall be used.

(ii) Ordinary quality steel Fe-310-0 conforming to IS-1977-1975 for all non structural use viz, doors, windows guard bars, grills, steel gates, hand railing, fencing posts etc.

(c) Galvanised steel sheets (plain and corrugated) shall be conforming to IS- 277 of 1985 with medium coating of zinc, nominal 120g/Sqm.

(d) Fabric reinforcement for concrete shall be conforming to IS-1566 of 1982.

10.2.1 Procurement

10.2.1.1 TMT steel bars irrespective of size shall be procured only from SAIL/RINL/TISCO/M/s Shyam Steel Industries Ltd, Durgapur (W.B)/ M/s SPS steel rolling mills Ltd Durgapur (W.B)/M/s Jai Balaji Industries Ltd, Durgapur (W.B), M/S Steel Exchange India Ltd Hyderabad -5000016 (A.P), M/S Jindal Steel and Power Ltd Gurgaon -12001,



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

Haryana, M/S SRMB Srijan Ltd, Kolkata-700012, M/s Concast Steel & Power Ltd, M/s Adhunik Metaliks Ltd, M/s Shri Bajrang Power & Ispat Ltd, M/s JSW Steel Ltd, M/s Electrosteel Steels Ltd, M/s Shyam Metalics & Energy Ltd, M/s Kamachi Sponge & Power Corporation Ltd.

10.2.1.2 All structural steel shall be procured only from main primary producers of steel. In case of Non availability of structural steel with primary producers the same can be procured from the following approved secondary producers with reduction of 5% (five percent) of accepted rate of structural steel. In case desired section is not rolled are manufactured by the primary producers the shall be procured from the approved secondary producers without any price adjustment :-

Note :- Steel section for railings, gates, fencing, guard bar, steel chowkhats and holdfasts etc, which do not constitute structural member, can be procured from main producers/secondary producers/BIS marked manufacturers or their authorized dealers at the option of contractor, without any minus price adjustment. These should also conform to IS-1732 for general engineering purpose. However, tests will not be insisted upon for such steel sections.

10.2.1.3 Reinforcement shall be fabricated, placed in position all as shown on drawings and specified in clause 10.17 to 10.22 of MES SSR Part-I without application of heat.

10.2.1.4 All laps and crossings shall be tied with mild steel wire (annealed) of size not less than 0.9mm dia and the cost deemed included in the quoted amount of the contractor.

10.2.1.5 For the purpose of making adjustment arising out of deviations involving reinforcement bars, the length of each bar for laps shall be taken as 10 (ten) meters.

10.2.1.6 All finished steel shall be well and clearly rolled to the dimensions, section and weights specified. The finished material shall be reasonably free from cracks, surface flaws laminations, rough, jagged and imperfect edges and other harmful defects and shall be finished in a workman-like manner.

10.2.1.7 Tolerance on size and weight of reinforcement bars shall not be more than specified in clause 10.17.4 & 10.17.5 of SSR Part-I.

**10.2.2 Testing of Steel**

The manufacturer is to carry out inspection and testing of steel in accordance with relevant BIS provisions. The contractor shall submit the manufacturer's Test Certificate in original along with the test sheet giving the result of each mechanical test as applicable and the chemical composition of the steel or authenticated copy thereof duly signed by the manufacturer with each consignment. The site staff and GE shall verify the original documents in support of the purchase of steel and keep true copy certified by GE. The Engineer-in-charge shall record these details in a steel acceptance register, as given at Appendix 'F' after due verification and send a certified true copy of test sheet to GE for his records. The GE/AGE shall also organize independent testing of random samples of steel drawn from various lots from National Test House, SEMT Wing, CME, Regional Research Labs, Govt, approved Lab, Zonal Labs etc for Normal, Mass, Tensile, Bend & Re bend test of steel as per the following minimum frequency :-

**NOMINAL SIZE****QUANTITY****(a) Steel for Concrete Reinforcement**

1. Bar size less than 10 mm - 1 sample (3 specimen ) for each test for every 25 Tonnes or part thereof.

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

- |    |                       |   |  |
|----|-----------------------|---|--|
| 2. | Bar size 10mm to 16mm | - | 1 sample (3 specimen) for each test for every 25 tonnes or part thereof. |
| 3. | Bar size over 16 mm   | - | 1 samples (3 specimen) for each test for every 45 tonnes or part thereof |

**(b) Structural Steel**

- |    |                                  |   |   |
|----|----------------------------------|---|---|
| 4. | Tensile Test                     | - | 1 test for every 25 tonnes or part thereof. |
| 5. | Bending Test                     | - | 1 test for every 10 tonnes or part thereof. |
| 6. | Testing annular ring of TMT bar- |   | 1 test for every 05 tonnes or part thereof. |

**Notes :**

(a) Independent testing of steel by the GE shall be optional at the discretion of the GE in case of procurement of steel from main producers and testing charges shall be borne in accordance with conditions 10A of IAFW 2249 i.e testing charges shall be borne by the Deptt if the test results are found in order otherwise these shall be borne by the contractor.

(b) Independent testing of steel by the GE shall be mandatory in case of procurement of steel from secondary producers and testing charges shall be borne by the contractor irrespective of the outcome of test results.

(c) In both the cases at sub para (a) and (b) above, the contractor at his cost shall provide all facilities required for the testing.

(d) Cost of materials used in testing including its transportation shall be borne by the contractor and no extra claim what so over shall be admissible irrespective of test results. Minimum numbers of tests shall be as mentioned here in before. Wherever same is not indicated, it shall be decided by GE.

(e) For various tests, acceptance criteria. Tolerance etc refer appendix 'F' and relevant BIS codes.

(f) Samples from each lot shall be tested for quality and elongation. The elongation shall not be less than 18%.

10.3 Documentation: Steel acceptance register and measurement book for steel (for record purpose and not to be abstracted) shall be maintained by the Engineer-in-charge. The contractor shall submit original machine numbered receipted paid vouchers from the supplier for the total quantity of steel supplied under each consignment received at the work site shall be inspected by the GE along with the relevant documents before acceptance. The original voucher and the test certificate shall be defaced by the Engineer-in-charge and kept on record in the office of the GE duly authenticated and with cross reference to the contract No recorded in the steel acceptance register. The steel acceptance register will be signed by the Engineer-in-charge, GE and contractor. The entire quantity of all steel items shall also be suitably recorded in the measurement book for record purpose as not to be abstracted before incorporation in the work and shall be signed by the Engineer-in-charge.

**10.3.1 Steel in Coil etc.**

10.3.1.1 Any bar of any diameter for reinforcement may be procured in round bundles or rolls and the cost of straightening the same shall be borne by the contractor. When bars are procured in bundles the length of each bundle shall be worked out on the basis of unit weight predetermined by the GE by getting suitable length (not less than 3 meters) out of each consignment (s) received, getting it straightened, length measured and weighed in presence of

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

contractor's accredited representatives. The length and the weight(s) shall be recorded from which unit weight (weight per unit length) shall be calculated. The length of bars shall be worked out on the basis of unit weight shall be used for the purposes of calculating quantity of steel used/to be used in the work and taking payment of material lying at site. However if the unit weight works out more than the unit weight given in SSR then unit weight given in SSR shall only be followed for computing weight of steel for the purpose of making payment of steel lying at site.

**10.4 Storage.**

10.4.1 Steel of different sizes shall be stacked separately for each classification of steel, separate areas shall be marked. Steel shall be marked with distinct painting marks for easy identification. Cost of storage shall be deemed included in the quoted amount of the contractor.

10.4.2 All steel shall be stored in such a manner so that it is always at least 15cm above the GL. Steel shall be stored in a manner so as to prevent distortion and corrosion. Any section that has deteriorated and corroded or if considered defective by Engineer-in-charge shall not be used in the work and shall be replaced by contractor without any extra cost. It will be the responsibility of the contractor to make sure that all possible arrangements are made for the safe custody of the steel. In case of loss of steel only contractor will be responsible and the loss will/shall be made good without any delay or claim what-so-ever.

**10.5 Scheduling and Supply**

10.5.1 Schedule of supply of steel shall be finalized by contractor with GE and shall be incorporated in CPM chart so that supply of steel is monitored in a way to avoid any delay in completion of the work.

10.5.2 The complete requirement of steel of various sizes will be worked out before making any RAR payment and procurement of steel by the contractor will be completed sufficiently in advance of the date of complete. The contractor will forfeit his right to demand extension of time if the supply of Steel and Iron got delayed due to his failure in placing order in time to the manufacturer.

10.6 Payment of steel: The payment of steel shall only be allowed after production of original purchase vouchers, test certificates by the contractor for each consignment of steel and results of testing if carried out by the department are found satisfactory after testing as specified here-in-before. Test certificates for ordinary quality structural steel of particular section of which quantity is less than 1.00 MT and if the test certificates are not produced, the contractor can get tested the sample of each consignment of each diameter of bars through approved laboratories as brought out here-in-before.

10.7 Welding: Welding of reinforcement shall be by metal arc welding. Running welding shall be done unless otherwise specified. All welds should be 6mm fillet welds unless otherwise specified. The welding of frames of the doors shall be done by flush butt welding, but permissible weld of MS square pipe with flat iron frames of railing where shown on drawings shall be with running welding.

**PARTICULAR SPECIFICATIONS (CONTD...)****10.8 (a) Galvanised steel sheets & fabric reinforcement for concrete :**

(i) These shall be procured directly from main producers/BIS marked manufacturers at the opinion of contractor without any minus price adjustment.

(b) Reinforcement steel, structural steel and galvanized steel sheets & fabric reinforcement for concrete may be permitted from authorized dealers of main producers in case the total requirement of steel is less than 5 tones.

**10.9** Steel sections for railings, gates, fencing, guard bars, grills, steel chowkats, hold fasts etc which do not constitute structural members, can be procured from main producers/secondary producers/BIS marked manufacturers or their authorized dealers at the option of contractor without any minus price adjustment. Tests will not be insisted upon for such steel sections.

**11. Barbed Wire** : The barbed wire shall be as described in schedule A and as specified in clause 10.32 & 10.32.1 of MES SSR 2009 (part-I)

**11.1 CHAIN LINK FENCING** : Chain link fencing shall be made of galvanized wire and shall confirm to IS 2712:-2003 specification for galvanized steel wire chain link fabric chain link in fencing shall be fixed to the fencing post as indicated or as specified in schedule A & SSR –I (2009) Para 10.34.

**12. PLASTERING :**

**12.1 GENERALLY** : Refer Paras 14.16 of SSR Part-I.

**12.2 MATERIALS :**

**12.2.1 CEMENT** - Refer clause 2.2 herein before.

**12.2.2 SAND** - It shall be as per clause 14.5.2 of SSR Part-1.

**12.3 Workman ship** : Refer Paras 14.12 of SSR Part-I. Thickness of cement plaster mentioned in Sch 'A' shall be finished thickness exclusive of dubbing. Dubbing may, however, be done in one operation with plaster. Ratio of cement mortar for plastering shall be as described in Sch 'A'.

**13. SHEET GLASS**

**13.1** The sheet glass shall be conforming to IS-2835. It shall be of good quality, free from sleeks, bubbles, smoking, air holes and other defects.

**13.2** Thickness of glass shall be as mentioned in sch 'A'.

**13.3** The glass shall be fixed to steel window/vent with glazing clips and putty as specified in Paras 16.10.1 of SSR Part I.

**13.4** The glass shall be fixed to wooden shutter in the wooden beads as specified in Paras 16.9.2 of SSR Part I.

**13A. WHITE/COLOUR WASH :**

**13A.1 Material** : Refer Paras 15.2 to 15.4 of SSR Part-I.

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

13A.2 Workmanship : Refer Paras 15.9 of SSR Part-I. For white washing on ceiling adequate qty of zinc oxide shall be added to lime wash for achieving white shade. Skirting and dado are not to be white/colour washed.

14. **CEMENT BASE PAINT :**

14.1 Material : Refer Paras 15.7 of SSR Part-I.

14.2 Workmanship : Refer Paras 15.15 of SSR Part-I.

15. **DISTEMPER :**

15.1 Material : Refer Paras 15.5 & 15.6 of SSR Part-I.

15.2 Workmanship : Refer Paras 15.13 & 15.14 of SSR Part-I.

16. **PAINTING**

(a) Paint shall be of 1<sup>st</sup> quality not inferior to that specified in the ISS as applicable.

(b) Paint for priming coat, under coat and finishing coat shall be of the same manufacturer.

(c) All surfaces to be treated shall be suitably prepared before applying priming coat as specified in the MES Schedule.

(d) The contractor shall, if so required by the GE produce certificates from the manufacturers or their representative to establish that the brands of paint used by him are as per specifications or superior thereto.

(e) Priming coat on a prepared surfaces shall be applied only after the surfaces has been passed by the Engineer-in-Charge.

(f) Refer Paras 17.2, 17.3, 17.5, 17.6 & 17.8 SSR-I and Part-I (2009).

17. **FLOORING**

17.1 **Generally**

17.1.1 Floors of various types shall be provided as described in Sch 'A' and specified in Paras 13.25 of SSR Part-I.

17.1.2 Floor finish shall be carried over through all opening and dwarf wall.

17.1.3 Surface of PCC floors unless otherwise indicated in Schedule of finishes shall be finished even and smooth using extra cement with steel trowels. Top surface of ramp shall be finished Chequered using extra cement.

17.1.4 Cement concrete in sub base or sub base floor and wearing coat shall be laid separately and not monolithically. Su base or sub floor shall be laid at a stretch without forming panels and no adjustment shall be made for form work on this account.

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

17.1.5 Graded coarse aggregate shall be crushed stone aggregate.

17.1.6. Cement Concrete Floor : Refer paras 13.32 of SSR Part-I

**18. Ceramic, vitrified tile Flooring/skirting**

18.1 Tiles shall be of first/premium quality and shall be conforming to relevant IS for floor and wall tiles respectively. When fractured tiles shall appear fine grained in texture, dense and homogenous. The tiles shall be flat true to shape sound. The top surface of tile shall be glazed/mat finish as specified in Sch 'A'. The underside of the tile shall be free from glaze in order that the tile may adhere properly to the base. The edges of the tile shall be preferably free from glaze. The glaze shall be uniform in quality and shall be free from welts, chips, craze, specks, crawling or other imperfections, detracting from appearance when viewed at a distance of one metre. The glaze shall be either glossy or mat as indicated in Sch 'A' and in light colour. Tint, shade and finish shall be as decided by the GE. Tile shall be of the size and thickness as indicated in Sch 'A'. The tolerance/deviation shall be all as mentioned in IS specifications. Manufacturer test certificate should be submitted by the contractor if the total estimated requirement is more than 100 Sqm.

18.2 Bedding layer over which the tiles shall be laid as described in Sch 'A'. Tiles shall be soaked in water before laying.

18.3 Before laying of tiles in flooring, the base shall be cleaned and welled. Cement slurry of honey like consistency at 3 Kg of cement per Sqm shall be applied over the bedding. At a time area to accommodate about twenty tiles shall be applied with cement slurry. Tiles shall then be clean and fixed in the grout one after the other, each tile being gently tapped in its position till it properly bedded and in level/line with adjoining tiles. The joints shall be thin as possible but not exc 1.5mm wide.

18.4 In case of laying of tiles in skirting/dado, the wall surface shall be covered with bedding layer as described in Schedule 'A' and allowed to be harden. The plaster shall be roughened with wire brushes or by scratching diagonal lines. The back of tiles shall be buttered with cement paste and set on bedding layer. Top of skirting/dado shall be truly horizontal and the vertical joints as per the required pattern.

18.5 The joints shall be raked to a depth 5mm and all dust and loose mortar removed. Joints shall then be flush pointed in white or in colored cement as indicated in Sch 'A'. The surface shall be cured for 7 days and then washed clean.

18.6 Ceramic tiles shall be of first/premium quality and shall be conforming to IS-13755 and 13753 for floor and wall tiles respectively. When fractured tiles shall appear fine grained in texture, dense and homogenous. The tiles shall be flat true to shape sound. The top surface of tile shall be glazed/mat finish as specified in Sch 'A'. The underside of the tile shall be free from glaze in order that the tile may adhere properly to the base. The edges of the tile shall be prefer free from glaze. The glaze shall be uniform in quality and shall be free from welts, chips, craze, specks, crawling or other imperfections, detracting from appearance when viewed at a distance of one metre. The glaze shall be either glossy or mat as indicated in Sch 'A' and in light color. Tint, shade and finish shall be as decided by the GE. Tile shall be of the size and thickness as indicated in Sch 'A'. The tolerance/deviation shall be all as mentioned in IS specifications. Manufacturer test certificate should be submitted by the contractor if the total estimated requirement is more than 100 Sqm.

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

18.7 Bedding layer over which the tiles shall be laid as described in Sch 'A'. Tiles shall be soaked in water before laying.

18.8 Before laying of tiles in flooring, the base shall be cleaned and welled. Cement slurry of honey like consistency at 3 Kg of cement per Sqm shall be applied over the bedding. At a time area to accommodate about twenty tiles shall be applied with cement slurry. Tiles shall then be clean and fixed in the grout one after the other, each tile being gently tapped in its position till it properly bedded and in level/line with adjoining tiles. The joints shall be thin as possible but not exc 1.5mm wide.

18.9. In case of laying of tiles in skirting/dado, the wall surface shall be covered with bedding layer as described in Schedule 'A' and allowed to be harden. The plaster shall be roughened with wire brushes or by scratching diagonal lines. The back of tiles shall be buttered with cement paste and set on bedding layer. Top of skirting/dado shall be truly horizontal and the vertical joints as per the required pattern.

18.10 The joints shall be raked to a depth 5mm and all dust and loose mortar removed. Joints shall then be flush pointed in white or in colored cement as indicated in Sch 'A'. The surface shall be cured for 7 days and then washed clean.

18.11 Kota Stone Flooring. Refer clause 13.47.1 to 13.47.4.5 of SSR Part I of 2009.

18.12 Marble flooring. Refer clause 13.12.1 of SSR part I of 2009.

18.13 Cement concrete Chequered tile flooring :- Refer Paras 13.16 & 13.17 of SSR Part-I. Cement concrete tiles shall be as described in paras 13.39 of SSR Part-I.

18.14 PRECAST INTERLOCKING TILE FLOORING

18.14.1 Pre-cast interlocking tiles shall be all as per manufacture's specifications and of design as approved by Engineer –charge and Refer paras 13.18 of SSR Part I(2009).

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27. **EXCAVATION AND EARTH WORK**

27.1 Excavation General

- a) Excavation and earthwork under this contract shall be considered as excavation in soft/loose soil as detailed in SSR 2009 (Part –I).
- b) Unit rates for Items in Schedule 'A' Section-I shall include for excavation and earthwork in soft/loose soil. No extra payment shall be admissible to the contractor in case the strata met with actually at site is found different from that mentioned herein. Any deviation involving excavation and earthwork will be priced on the basis of soft/loose soil.
- c) Boulder and stone obtained from excavation shall be sorted out and neatly stacked as directed by Engineer-in-charge without extra cost to the Govt.. These shall be taken over by the Engineer-in-charge.

27.2 Filling in trenches, plinth and under floors etc.

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

27.2.1 Filling excavated earth in foundation trench shall be carried out as per Paras 3.19.1 to 3.19.3 of MES Schedule Part -I. Earth obtained from excavation and not approved for filling or surplus to the requirement shall be removed to a distance not exceeding 50 meters, spread and levelled, If any additional earth is required for filling it shall be obtained from sources approved by Engineer-in-charge. All filling will be spread in layers not exceeding 25cm thick (each layer) watered and well rammed. Thickness of filling is after consolidation. Earth available from excavation in foundations and under various parts of Schedule 'A' to the extent approved by Engineer-in-Charge, shall be carted and used for filling in trenches, under floor, after removing bid stones, grass roots, vegetation and other organic matter. Any additional earth required for the purpose of filling shall be arranged by contractor under his own arrangements.

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

**28. DEMOLITION AND DISMANTLING**

28.1 The demolition and dismantling of any work covered in this tender shall be all as per applicable clauses of section 21 of SSR Part-1.

**29. Appendices to Particular Specification Section-II**

29.1. The following appendices to these Particular Specifications Section-II shall be referred for the purpose as indicated against each :-

- (a) Blank
- (b) Appendix 'B' : Makes/Manufacturers of equipment's/materials.
- (c) Appendix 'C' : Source of materials of local origin.
- (d) Appendix 'D' : Materials and their tests.
- (e) Appendix 'E' : Cement supply/Acceptance form.
- (f) Appendix 'F' : Steel supply/Acceptance form.

(\_\_\_\_\_)   
Signature of Contractor  
DATED \_\_\_\_\_

DCWE(Contracts)  
FOR ACCEPTING OFFICER



APPENDIX 'B' TO PARTICULAR SPECIFICATIONS  
NAMES/MANUFACTURERS OF EQUIPMENTS/MATERIALS

<u>LIST OF MAKES</u>		
(A)	B/R ITEMS	
Srl No	Description of item	Brand/Make/Name of Manufacturer
1	2	3
1.	Chain link fencing/ Barbed wire/ Punched tape concertina coil/ Razor blade tape fencing	ARMSTRONG WIRES, MAIMOM ROGER or As per generic specification given in Sch 'A'/ BOQ & relevant codal provisions/ IS codes and make to be approved by GE
2.	Bathroom Fancy fittings	JAQUAR, MARC, GEM, PARCO, PRIMA, JAYANA, KINGSTON, JOHNSON, CERA, SHAKTI, PRAYAG, PLAYER, AP ROYALE, BATH SENSE, VITERO, SOMANY, PARKOVIC, ESSEL, CORONET, PRIMA, Essco by JAQUAR
3.	Tiles Vitrified	KAJARIA, SOMANY, MARVITO, JOHNSON  NITCO, ASIAN, EURO, ORIENT, GRAN MARBO, AGL, VITERO, QUTONE, ERA, ORIENT BELL, PAVIT
4.	Oil Bound Distemper	Berger ( Bison Acrylic Distemper, Asian ( Tractor Acrylic Distemper, Akzo Nobel ( Magik), Berger( Jadoo Distemper, Asian ( Tractor UNO)
5.	PLASTIC EMULSION PAINT	Berger (Silk, Rangoli, easy clean), ASIAN (Royale, Apcolite advance), Akzo Nobel (velvet touch), Nerolac (impression ecoclean, impression 24 carat) Berger (Rangoli emulsion, Asian (premium emulsion), Akzo Nobel (Supersmooth), Nerolac (Lotus Touch , Beauty Gold), Jenson & Nicholson (Eqvt. Make), Shalimar (Equivalent Make), ACRO PAINTS
6.	PAINT EXTERIOR	Berger (Weather Coat all guard), Asian (Apex Ultima), Akzo Nobel (weather shield max) , Nerolac (Excel total)  Berger (Weather Coat Smooth), Asian (Apex weather proof), Akzo Nobel (weather Shiled), Nerolac (Suraksha Advanced)
7.	UPVC WINDOWS/DOORS	POLY WINDOWS, FENISTA, ACCURA POLYTECH, YASHPOLY, APARNA VENESTER/OKOTECH, MADHU INDUSTRIES, NCL VEKA, H2O SOLUTION, ENCRAFT, SUPREME, GFT, ALUPLAST
8.	PAINT SYNTHETIC ENAMEL	Berger (Luxol One coat Enamel , Luxol Enamel, Asian (Apcolite Super, Premium Gloss Enamel, ), Asian (Apcolite Super, Premium Gloss Enamel, Akzo, Nobel (Dulux Super Gloss 5 in one, Dulux Gloss) Berger (Luxol One coat Enamel , Luxol Enamel, Butter Fly), Asian (Apcolite Super, Premium Gloss , Tractor Enamel), Akzo, Nobel (Dulux Super Gloss 5 in one, Dulux Gloss)  Berger (Luxol Satin Enamel), Asian (Satin Enamel), Akzo Nobel (Dulux Satin finish), Jenson & Nicholson (Equivalent Make), Shalimar (Equivalent Make ), Coral , Acro
9.	DRAPERY RODS	VISTA , LEVALOR
10.	MIRROR LOOKING	SAINT GOBAIN, MODI FLOAT, TRIVENI FLOAT GLASS, CROWN PRAYAG POLYMERS
11.	DECORATIVE LAMINATES	FORMICA , SUNMICA, MERINO LARN, HYLUM , SUNGLOSS, BHUTAN BOARD, RAM MICA

1	2	3
12.	PARTICLE BOARD (PRE LAMINATED)	KITPLY, BHUTAN BOARD, ECOBAORD, NEPAL BOARD, NOVAPAN, ARCHID PLY, MERINOVA, M/S GREEN PLY INDUSTRIES LTD
13.	KITCHEN SINK STAINLESS STEEL, PLATE RACK	DIAMOND, NIRALI, ALLEX, NEEL KANTH, KOBRA, JAYNA, PRAYAG POLYMERS, Blue Star, JAINKO CERA, SHAKTI, PRAYAG, DELPHIS, SILVERSINE
14.	BATHROOM CABINET WITH MIRROR	COMMANDER, PARRYWARE, JOHNSON PEDDER, PRAYAG, SUPREME
15.	FALSE CEILING	BHUTAN BOARD, GYPBOARD, ANCHORLAM ANCHOR CEILING TILES, DURATUFF, ARMSTRONG, AEROLITE
16.	PTMT FITTINGS	PRAYAG, SHAKTI, POLYTUF, PEARL, JAINKO
17.	ALUMINIUM COMPOSITE PANELS	ALCO BOND, ALSTRONG, AI CAD
18.	PVC WINDOWS/DOORS.	RAJSHRI, SINTEX, ECOCELL
19.	Water storage tanks (IS 12701-1996)	Sintex, Spl, Polycon, Sheetal, Rotex, Polywell, Diplast, polyplast, SSPI
20.	Flushing Cistern PVC IS:774-1984 (ISI Certified) Iron Mongrey Doors flush IS-2191-2202	Hindustan, Cera, Millenium, Prayag, polytuf
21.	Steel window box type	As specified in PS
22.	Door shutters Factory Made Panelled/Wiregauged)	Pioneer Timber Products, 622, Industrial Area Chandigarh (i) Chandigarh Timer Products, Hebatpur Road, PO-Mubarakpur, patiala (ii) CS Modi & Co, Ambala Chandigarh Road (iii) Goyal Industrial Coporation, Panchkula (iv) Sri Associates, 244, 'C' BLOCK, Sirsa Jain wood industries, HO a-1/93 (Basement) Sector 8, Rohini Delhi (v) Sarab Enterprises, Compbell Road, Pathankot (viii) M/S Rajindra Industrial Area, B-38, Industrial area Ph-III, SAS Nagar Mohali, Distt Ropar (ix) M/S Sohal Industries, 182, Industrial Area Chandigarh (x) M/S Satish Kumar & Co, Khajuri Road, Yamuna Nagar (xi) M/S Delhi Construction Equipment's (Wood works), 1/200 Sadar Bazar, Delhi Cantt-10 (xii) M/S Jagdamba Doors Plot No 17, Industrial Estate, Rajpura - 140401 (xiii) M/S Sri Krishna Industries, Plot No 299, Phase-II, Panchkula - 134 109 (xiv) M/S Shakit Industries, Barnala Road, Manapindi, Dhanaula - 145 105
23.	Aluminium mongrey	ISI embossed aluminium mongery of Make :- ARGENT, Classic, SAI
25.	Plywood	Assam Valley plywood, Kitply industries ltd, Swastik Ply, Dura ply, Bhutan board, Nuwood
26.	Tiles PCC (Chequered/Plain /Terrazzo) (ISI Marked)	Eurocon, Duracrete, Nitco Tiles, SITCO, Mehtab tiles, Surya, Omega, Mohindra
27.	Galvanized Steel sheets	TATA JINDAL
1	2	3
28.	Mortice lock	(i) Godrej (ii) Harrison (iii) Link
29.	Pipes PVC Soil/Waste Rainwater	Supreme, Finolex

30	GI TUBING (ISI MARKED)	JINDAL, TATA, BST, SURYA ROSHNI
31	WC seat cover	COMMANDER, PARRYWARE, PRAYAG , SUPREME
32	BITUMEN 85/25 GRADE	STP/HP/BP
33	Hydraulic Door closer	Everest, Universal, Godrej, Sandhu, Priya
34	BUILDERS HARDWARE SUCH AS TOWER BOLTS, SLIDING DOOR BOLTS, HINGES	ISI MARKED
35	Bib taps, stop taps ( CP) fancy fittings, shower roswe CP	JAQUAR, MARC, GEM, PARCO, PRIMA, JAINKO, ESS ESS, JALANGI, CERA, SHAKTI, PRAYAG, ESSEL, KI, PARKOVIC, CORONET, PRIMA, KPR, SS, KUNCHAL
36	ALUMINIUM SECTION	JINDAL/INDAL/MAHAVIR
37	Galvalume sheeting/Pre engineering pre laminated colour steel sheeting	TATA, SAIL, Jindal, Bhushan, JSW, DYNA ROOFING PVT LTD.
38.	WATER PROOFING COMPOUND	(i) JK-M/s JK Cement (ii) SIKA- M/s Sika India Pvt Ltd, Goa (iii) Acco-Proof M/s Acc letd (iv) Pidilite-Ind Ltd , Rajgarh (v) M/s Super Aqua Cern (India ) Pvt Ltd (vi) M/s Kota Cement Ind Ltd Vaghodia, Baroda (vii) M/s Samrock Mrexime Chemicals (India) Ltd, Ahmedabad (viii) M/s Pegasus Indian Testilaties, Thane (vi) M/s Fosroc chemicals (vii) M/s Hindustan Engg ltd (viii) AQUOLAC (ix) Overseas water proofing corpn (x) LIK Proofing (xi) M/s India Watyer Proofign Co (xii) M/s Aqwua Shield (xiii) Plastocrete 'N' m/S Sequalcrete Pvt Ltd (xiv) M/s Roff Chemicals (xv) M/s Choksey Chemicals (xvi) Waterseal (xvii) Impermo (xviii) M/s MC Bauchemic (xix) Denson (xx) M/s Snowcern India PVT LTD (xxi) Durasea
39.	APP modified membrane	"HYPERPLS" FROM IWL(INDIA)LTD, "MULTIPLAS" FROM TEXSA INDIA LTD , "SHIVAM" FROM M/S SHIVAM TAR PRODUCTION F-45, UPS, UIDC INDUSTRIAL AREA MATHURA, "BENGAL AQUAFLEX" FROM BENGAL BITUMEN, PIDLITE INDUSTRIES LTD, SHIVAM TAR PRODUCTS,SIKA- M/s Sika India Pvt Ltd, TORCHTAR MEMBRANE & BITUMEN PRODUCTS PVT LTD, MODERN BITUMODE PVT LTD
40.	Anti termite treatment	(A) Chlor-pyriphos Emulsiplable concenrae (20EC) (a)Pest control services, Delhi (b) Motari Industrial Ltd, New Delhi (c ) Pest control corporation, Delhi (d)Delfin Pest Contro services, New Delhi (e) Dhawan pesticides, Delhi (f) Pest control, Delhi (g) Pest control services of India, New Delhi (h) Dr Swarop's pest control (j) JS Pest control , Chandigarh

		(h) Pest killer, Kanpur (j) JS Pest control , Chandigarh (k) Pest Eradicators (India), New Delhi (n) Pest control Chemical & Services, Dehradun (o) Pest Control & Fumigation Enterprises, New Delhi (p) Murti Pest Control (India)
41	Cement Base Paint	DUROCEM, SUPER SNOWCEM
42	Ceramic/Glazed earthenware tiles	SOMANY, NITCO, H&R JOHNSON, KAJARIA, ORIENT
42	AC Sheet	CHARMINAR/EVEREST/UPPAL
43	Salt Glazed stone ware pipes/ Glazed stone ware pipe	Devraj, Industrial Buran, Perfect sanitary pipe, Supreme pipe and fittings, Shri Kamakshi agencies, Hind Ceramics, Bhardwaj stone ware, Binary udyod, Ceramic industries
44	PCC(Interlocking)tiles, paving block ISI Marked	Eurocon, Duracrete, Mehtab tiles, Surya K, NITCO, NTC, Johnson, unistone, Coral, Hindustan tiles, Terra Firma, A-one class tiles, SS Tiles, Mohindra
45	Dry Distemper	Berger,Shalimar,Jenson & Nicholson, Asian paints
46	Concrete Hume pipe	Indian Hume pipe company,Jain spun,Daya spun, Delhi spun pipe, Ramnik Enterprises

Ser No	Company Name	Address	Type of Cement	Valid upto	Remarks
<b>(B) Cement- APPROVED CEMENT MANUFACTURERS FOR MES WORKS ON PAN INDIA LEVEL (AS ON MAR 2024)</b>					
1	The Associated Cement Companies Ltd <b>Brand: 'ACC'</b>	414-421, Splendor Forum (4 <sup>th</sup> Floor), 3, District Centre, Jasola, New Delhi – 110044, Ph : 011 46583600	All		
2	Ultra Tech Cement Ltd <b>Brand: 'ULTRATECH'</b>	'B' Wing, 2 <sup>nd</sup> Floor, Mahakali Caves Road, Andheri (East) Mumbai – 400093 Ph- 022 66917800	All		
3	The India Cement	Dhun Building, 827, Anna Salai, Chennai – 600002	All		
4	Dalmia Cement (Bharat) Ltd <b>Brand: 'DALMIA INFRA PRO'</b>	Dalmiapuram, Distt – Truchirappalli, Tamil Nadu – 621 651	All		
5	Century Cements <b>Brand: 'CENTURY'</b>	Industry House, 159 Church Gate Reclamation, Mumbai – 400020, Ph : 022 22023936	All		
6	Saurashtra Cement <b>Brand: 'SAURASHTRA'</b>	Gala No A-1, Ground Floor, Udhyog Sadan No 3 MIDC, Central Road, Andheri (East) Mumbai – 400093, Ph : 022 32955557/ 67 Mob : 93202 90081	All		
7	The Ramco Cements Ltd <b>Brand : 'RAMCO'</b>	Auras Corporate Centre, 98-A, Dr. Radhakrishnan Salai, Mylapore, Chennai – 600004,	All		

		Ph- 044 28478666			
8	Mangalam Cement Ltd <b>Brand: 'MANGALAM'</b>	PO Adityanagar, Morak, Distt Kota, Rajasthan – 326520 Ph : 9351468076	All		
9	Birla Corporation Ltd <b>Brand: 'BIRLA'</b>	Birla Building (3 <sup>rd</sup> & 4 <sup>th</sup> Floor) 9/1, R N Mukherjee Road, Kolkata – 700001, Ph : 033 30573700	All		
10	Orient Cement <b>Brand: 'BIRLA –A1'</b>	5-9-22/57/D, 2 <sup>nd</sup> and 3 <sup>rd</sup> Floor, GP Birla Centre, Adarsh Nagar, Hyderabad – 500063, Ph : 044 23688600	All		
11	Nuvoco Vistas Corporation Ltd (Formerly Lafarge Cement) <b>Brand : 'NUVOCO'</b>	Equinox Business Park, Tower-3, East Wing, 4 <sup>th</sup> Floor, LBS Marg, Kurla (West), Kurla Mumbai, Maharashtra-400070	All		
12	Shree Cement <b>Brand :</b> <b>'SHREE'</b>	Bangur Nagar, Beawar, Dist-Ajmer, Rajasthan-305901 Ph : 01462-2281101-06	All		
13	J K Cement <b>Brand: 'J K'</b>	Kamla Tower Kanpur – 208001	All		
14	J K Lakshmi Cement Ltd <b>Brand: 'JK LAKSHMI'</b>	Jaykaypuram, Distt. Sirohi, Rajasthan, Ph : 02971 244409/10	All		
15	Jaypee Rewa Cement <b>Brand: 'JAYPEE'</b>	Jaypee Nagar, P.O. - Jaypee Nagar, Rewa – 486450 M.P.	All		
16	Ambuja Cement Ltd <b>Brand: 'AMBUJA'</b>	Kodinar, PO- Ambujanagar Taluka– Kodinar, Distt- Junagadh, Gujarat – 362715, Ph : 02795 237000	All		
17	M/s JSW Cement Ltd A P <b>Brand "JSW PSC (Portland Slag Cement)"</b>	JSW Centre Opp MIMRDA Ground Bandra Kurta Complex, Bandra (East) Mumbai-400051 Tele +91-22-42865047 Fax +91-22-26502001 Website : www.jswcement.in	PSC	01 Apr 2024	
18	M/s Kesoram Industries Ltd. <b>Brand: 'BIRLA SHAKTI'</b>	<b><u>M/s Kesoram Industries Ltd.</u></b> Unit 12 <sup>th</sup> , 1201 of T19 Towers , Indra Nagar , Ginwala Compound, M G Road , Secundrabad , Hyderabad – 500003, Ph : 91-40-4334-4555  91-40-4334-4534  Website : www.kesocarpo.co	OPC 43 OPC 53 PPC	27 Dec 2024	
19	M/s Sagar Cement Ltd ,	<b><u>M/s Sagar Cements Ltd</u></b>	OPC 43	24	

	Hyderabad <b>Brand "SAGAR"</b>	Plot No 111, Road NO 10, Jubilee Hills Hyderabad-500033 Tele +91-40-23351571, 2335672 Fax +91-40-2335673 Email : <a href="mailto:info@sagarcements.in">info@sagarcements.in</a> Website : <a href="http://www.sagarcements.in">www.sagarcements.in</a>	OPC 53 PPC PSC	<b>Aug 2025</b>	
<b><u>APPROVED CEMENT MANUFACTURERS FOR MES WORKS ON REGIONAL LEVEL (AS ON MAR 2024)</u></b>					
<b>1</b>	M/S Star Cement Meghalaya	Lumshnong, PO-Khaliehrat, Distt Janta Hills, Meghalaya Ph – 03655-278215/16/18	PPC OPC		
<b>2</b>	M/S Meghalaya Cements Ltd <b>Brand: 'TOP CEM'</b>	Lohia House, M.G Road, Factory Bazar, Guwahati – 781001 Tele: 0361-260367/671	PPC OPC		
<b>3</b>	M/s Hill Cement Company Ltd <b>Brand: 'TAJ'</b>	<b><u>M/s Hill Cement Company Limited</u></b> SHIVAM COMPLEX, Bharalumukh, A.T Road Guwahati, Assam-781009 Mob – 7086085118 Ph – (0361) 2735527, 2735552 Email: <a href="mailto:kchakraborty@tajcement.com">kchakraborty@tajcement.com</a>	OPC 43 OPC 53 PPC	<b>19 Dec 2024</b>	
<b>4</b>	M/S Green Valley Industries Ltd <b>Brand: 'Sanghi'</b>	<b><u>M/s Green Valley Industries Ltd</u></b> 4 <sup>th</sup> Floor, LB Plaza, G S Road, Bhangagarh, Guwahati – 781005 Tele: +91-361-2465482/84 FAX +91-361-2465481 Email – <a href="mailto:info@greenvalliey.com">info@greenvalliey.com</a> Website – <a href="http://www.maxcement.co.in">www.maxcement.co.in</a>	OPC 43 OPC 53 PPC	<b>24 Aug 2025</b>	

<b>(C) TMT STEEL: APPROVED TMT STEEL MANUFACTURERS FOR MES WORKS (AS ON APR 2024)</b>					
<b>Ser No</b>	<b>Company Name</b>	<b>Address</b>	<b>Type of Steel</b>	<b>Valid upto</b>	<b>Remarks</b>
1.	Rashtriya Ispat Nigam Limited (RINL) <b>Brand: 'RINL'</b>	Visakhapatnam Steel Plant, Visakhapatnam -530 031, India Tel (91 891) 518226, 518376. Fax : (91 891)518316 Email: <a href="mailto:cmdvsp@itpvis.ap.nic.in">cmdvsp@itpvis.ap.nic.in</a>	All	-	
2.	Tata Iron & Steel Company (TISCO or Tata Steel) <b>Brand: 'TATA'</b>	Bombay House, 2, 4 Homi Modi Steel, Mumbai-400 001, Tel (91 22) 2049131, Fax : (91 22) 204 9522, 287 0840 Email: <a href="mailto:corpcomm@jsr.tatasteel.com">corpcomm@jsr.tatasteel.com</a> (Br Office for North: Jeevan Tara Bldg, Patel Chowk, New Delhi)	All	-	
3.	Steel Authority of India Limited (SAIL) <b>Brand: 'SAIL'</b>	Central Marketing Organization Northern Region, 17th Floor, Scope Minar, Laxmi Nagar Distt Centre, Delhi-	All	-	

		110 092			
04.	M/S Kamachi Industries Ltd. <b>Brand: 'KAMACHI'</b>	ABC Trade Centre, 3 <sup>rd</sup> Floor (Inside Devi Theatre Complex), Old No. 50, New No. 39, Anna Salai, Chennai- 600002, India Tel: 91 044 42961100, Fax: 91 044 42961122 Custom care:7700067000 Email: <a href="mailto:sales@kamachitmt.com">sales@kamachitmt.com</a> Website: <a href="http://www.kamachitmt.com">www.kamachitmt.com</a>	TMT Bars of Gde Fe 500, Fe 500D Fe 550, Fe 550D& HCRM (Size 8- 40mm)	29 May 2024	
05	M/s Shyam Metalics & Energy Ltd <b>Brand : "SEL"</b>	Viswakarma, 1 <sup>st</sup> Floor, 86 C,Topsia Road , Kolkata-700046 Tel : +9133 -4011-3000 Fax : +9133-2285-2212 Website : <a href="http://www.shyammetalics.com">www.shyammetalics.com</a>	TMT Bars of Gde Fe 500&Fe 500D (Size 8-32 mm)	31 Aug 2024	
06	M/S Electrotherm (India) Ltd <b>Brand : 'ET TMT'</b>	Survey No. 72, Palodia, Via- Thaltej, Ahmedabad Gujarat-382115 Tel +91-2717-660649/660550 Fax +91-2717-234866 Website – <a href="http://www.electrotherm.com">www.electrotherm.com</a>	TMT Bars of Gde Fe 500, Fe 500D & CRS, (Size 8- 36mm)	05 Oct 2024	
07	M/s Tulsyan NEC Limited <b>Brand "TULSYAN TMT"</b>	APEX Plaza, 1 <sup>st</sup> Floor, Old No 3, New No 77 Nungambakkam High Road, Chennai – 600034 (TN) Website – <a href="http://www.tulsyannec.in">www.tulsyannec.in</a> Tele – 044-61991060/61991045 Mob – 9840354010, 9677088334	TMT Bars of Gde Fe 500, Fe 500D & Fe 550, (Size 8- 32mm)	29 May 2024	
08	M/s Incredible Industries Ltd (Formerly M/s Adhunik Industries Ltd) <b>Brand : 'ADHUNIK Fe 500 SD'</b>	Lansdowne Towers, 2/1A, Sarat Bose Road, 6 <sup>th</sup> Floor, Kolkata- 700020 Tel-033-30517100, Fax- +91-33-2289 0285 Website- <a href="http://www.adhunikindustries.com">www.adhunikindustries.com</a>	TMT Bars of Gde Fe 500, Fe 500D &CRS (Size 8- 32mm)	19 Jul 2024	
09.	M/S Gallantt Metal Ltd, Gujarat <b>Brand : 'GALLANTT TMX'</b>	Ward 10BC, Plot No 123, Ground Floor, Gandhidham, Kutch, Gujarat – 370201 Tel : + 91 – 2836-228164, Fax : +91-2836-235787, E-mail : <a href="mailto:gml@gallantt.com">gml@gallantt.com</a> Website : <a href="http://www.gallantt.com">www.gallantt.com</a>	TMT Bars of Gde Fe 500 Fe 500D CRS (Size 8-32 mm)	05 Jul 2025	
10.	M/S Rashmi Metaliks Ltd(WB) <b>Brand : 'RASHMI TMT'</b>	<b><u>M/S Rashmi Metaliks Ltd(WB)</u></b> Premlata Building, 39, Shakespeare Sarani, 6 <sup>th</sup> Floor, Kolkata – 700017 Tel : 033-22894255/56, Fax : 033-22894254 E-mail : <a href="mailto:mkt.domesticdip@rashmigroup.com">mkt.domesticdip@rashmigroup.com</a> Website : <a href="http://www.rashmigroup.com">www.rashmigroup.com</a>	TMT Bars of Gde Fe 500 (Size 8- 32mm) Fe 500D, Fe 550D (Size 8- 25mm)	23 Aug 2025	
11	M/S Bajrang Power & Ispat Ltd, Raipur	<b><u>M/S Shri Bajrang Power &amp; Ispat Ltd, Raipur</u></b>	TMT Bars of Gde	08 Jan 2026	

	<b>Brand: 'GOEL TMT'</b>	Vill - Borjhara, Urla industrial Area, Raipur-493221, Chhattisgarh, Tel- 0771 4288019/ 29/ 39	Fe 500 Fe 500D (Size: 8- 32mm)		
12.	M/S Real Ispat & Power Ltd, Chhattishgarh <b>Brand : 'G K TMT'</b>	<b><u>M/S Real Ispat &amp; Power Ltd, (CG)</u></b> Vrindavan, Near IDBI Bank Civil Lines Raipur-492001, C.G Tel : +91-771-4224000 Fax : +91-771-4224010 E-mail : <a href="mailto:real@realispat.com">real@realispat.com</a> Website : <a href="http://www.realispat.com">www.realispat.com</a>	TMT Bars of Gde Fe 500 Fe 500D (Size 8- 36mm)	09 Mar 2026	
13.	M/S Steel Exchange India Ltd(AP) <b>Brand: 'SIMHADRI TMT'</b>	<b><u>M/S Steel Exchange India Ltd (AP)</u></b> D No 1-65/K/60, Plot No 60 Abhis Haryana, 1 <sup>st</sup> floor Kavuri Hills, Hyderabad Telangana-500081 E-mail- <a href="mailto:info@seil.co.in">info@seil.co.in</a>	TMT Bars of Gde Fe 500D Fe 500D HSCRM	29 Jan 2026	
14.	M/S Super Smelters Limited. Kolkata <b>Brand : 'SUPER SHAKTI'</b>	<b><u>M/S Super Smelters Limited. Kolkata</u></b> Premlata, 39, Shakespeare Sarani, 3 <sup>rd</sup> Floor Kolkata-700017 Tel/Fax : +91-33-2289-2734/36 E-mail : <a href="mailto:info@supershakti.in">info@supershakti.in</a> Website : <a href="http://www.supershakti.in">www.supershakti.in</a>	TMT Bars of Gde Fe 500 Fe 500D, Fe 550 (Size 8- 32mm)	13 Feb 2026	
15.	M/S Shyam Steel Industries Ltd(WB) <b>Brand: 'SHYAM '</b>	<b><u>M/S Shyam Steel Industries Ltd(WB)</u></b> Shyam Towers EN-32, Sector-V, Salt Lake, Kolkata-700 091, Tel: 033-40074007, Fax: 033 40074010, E-mail: <a href="mailto:marketing@shyamsteel.com">marketing@shyamsteel.com</a>	TMT Bars of Gde Fe 500 Fe 500D (Size 8- 32mm)	30 Jan 2026	
16	M/S Jai Balaji Industries Ltd(WB) <b>Brand: 'BALAJI SHAKTI'</b>	<b><u>M/S Jai Balaji Industries Ltd(WB)</u></b> 5, Bentinck Street, Kolkata-700 001 <b>Delhi Office:-</b> 510, Block-b, Navraung House, 21 Kasturba Gandhi Marg, New Delhi-110001, Tel: 011-43620219, 43620220 Mob: 7838272772/ 9958936103, E-mail: <a href="mailto:info@jaibalajigroup.com">info@jaibalajigroup.com</a>	TMT Bars of Gde Fe 500D Fe 500D CRS(Size 8- 32mm)	09 Feb 2026	
17	M/S MSP Steel & Power Limited(Chhattisgarh) <b>Brand: 'MSP TMT 500D '</b>	<b><u>M/S MSP Steel &amp; Power Limited(Chhattisgarh)</u></b> 16/S, Block-A, New Alipore, Kolkata - 700053, Tel: 033-400547777/2398 2239, Mob : 7381028976, E-mail: <a href="mailto:contacctus@msspsteel.com">contacctus@msspsteel.com</a> Website – <a href="http://www.msspsteel.com">www.msspsteel.com</a>	TMT Bars of Gde  Fe 500D (Size 8- 32mm)	10 Mar 2026	

**(D) STRUCTURAL STEEL: APPROVED TMT STEEL MANUFACTURERS FOR MES WORKS  
(AS ON APL 2024)**



Ser No	Company Name	Address	Type of Steel
1.	Rashtriya Ispat Nigam Limited (RINL) <b>Brand : 'RINL'</b>	Visakhapatnam Steel Plant Visakhapatnam – 530 031, India, Tel : (91 891) 518226, 518376, Fax : (91 891) 518316 Email : <a href="mailto:cmdvsp@itpvis.ap.nic.in">cmdvsp@itpvis.ap.nic.in</a>	Structural Steel (Angle, Beam, Column, Channel, Plate)
2.	Tata Iron & Steel Company (TISCO, or Tata Steel) <b>Brand : 'TATA'</b>	Bombay House, 2, 4 Homi Modi Street Mumbai – 400 001, India, Tele : (91 22) 204 9131, Fax : (91 22) 204 9522, 287 0840 Email : <a href="mailto:corpcomm@jsr.tatasteel.com">corpcomm@jsr.tatasteel.com</a> (Br office for North : Jeevan Tara Bldg, Patel Chowk, New Delhi)	-- do --
3.	Steel Authority of India Limited (SAIL) <b>Brand : 'SAIL'</b>	Central Marketing Organization Northern Region, 17 <sup>th</sup> Floor, Scope Minar, Laxmi Nagar Distt. Centre, Delhi – 110092	-- do --
4.	M/s Jindal Steel and Power Ltd. <b>Brand : 'JINDAL'</b>	Jindal Centre, Plot No 2, Sector – 32, Gurgaon – 122001, Haryana, Tele – 0124 661 2000, Fax – 0124 661 2125, Website : <a href="http://www.jindalsteelpower.com">www.jindalsteelpower.com</a>	-- do --

**Notes** :- 1. Makes specified in Sch 'A' shall only be provided when makes are mentioned in Sch 'A'.

2. If makes (or equivalent) as mentioned in Sch 'A' are not available in the market / not specified in Sch 'A', then specific makes as decided and as approved by GE / Engr-in-charge from the list of makes given in Appx 'B' of particular specifications shall be followed. No claim whatsoever on this account shall be admissible to the contractor later on.

3. The materials and articles, which have been specified from certain makers/ 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.

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

- (i) If ISI asked 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.

5. Irrespective of makes, manufacturer in tender documents, material(s) should not be procured from/of the makes, manufacturers, brands, models etc, if as on date, there is ban due to technical defaults or not operating/ manufacturing for a long time or, non-existent etc. No claim whatsoever on this account shall be admissible to the contractor later on.

6. GE shall take into the consideration of cost, specifications, and parameters etc. while deciding the equivalency of cat part of different makes, models and manufacturer. In case of difference in the opinion of GE and Contractor, decision of the Accepting Officer shall be final, conclusive and binding. No claim whatsoever on this account shall be admissible to the contractor later on.

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

\_\_\_\_\_  
Signature of Contractor

DCWE(Contracts)  
For Accepting Officer

**APPENDIX 'C' SOURCE OF MATERIALS**  
**SOURCES OF MATERIAL**

Se r No	<u>MATERIAL</u>	<u>NAMES/SOURCE OF MATERIALS</u>
1	<u>2</u>	<u>3</u>
1.	Sand for plastering/ pointing and mortar for masonry.	Contractor shall arrange for any resources available with them. However the material should conform to SSR/ IS specifications
2.	Sand for plain concrete, and coarse sand for reinforced concrete	-ditto-
3.	Sand for filling under floor.	-ditto-
4.	Coarse aggregate for plain and reinforced concrete.	-ditto-
5.	Aggregate for soling and WBM	-ditto-
6.	Hard Core	-ditto-
7.	Aggregate for premix	-ditto-
8.	Bricks/ Brick tiles	-ditto-

***NOTE:** - The source of materials shall be as given in Column 3 above or in vicinity thereof. The tenderer shall ascertain the actual position/exact location of source before submitting his tender. The contractor shall be deemed to have ascertain the location/actual position of the source whether actually be ascertained the availability and its distance from the site of work or not and no claim shall be entertained on this account for any reasons whatsoever and all taxes and all levies and royalty etc. shall be borne by the contractor.*

\_\_\_\_\_  
 (Signature of contractor)  
 Dated\_\_\_\_\_

DCWE (CONTRACTS)  
 for accepting Officer

**NOTES:-**

1. The materials listed hereinafter shall be tested as per the frequency indicated therein. Tenderer is deemed to cater for the under mentioned provisions in his quoted lump sum.
2. It is mandatory for the Contractor to set up his own Site Lab for all contracts of Rs 1 Crore and above. However the contractor may be permitted to set up site lab for the works costing less than Rs 1 Crore at his option.
3. **Out of the level 'A' tests carried out in Contractor's own Site Lab, a percentage/ selected checks as decided by the Accepting Officer, shall be got done independently in the MES (CE/ CWE/ GE)/ Govt approved lab, the expenditure for which shall be borne by the department. The contractor shall be responsible for tests to be carried out in site lab established by him and for that they shall employ a competent technical representative as approved by the GE.**
4. Level of testing shown under Col 6 as 'A', 'B', 'C' are defined as under:-  
Level 'A' : (a) "Site Lab" means own site lab established by Contractor at the work site for such tests. This lab shall house all the facilities including T&P, machinery, equipment, manpower etc. required for conducting tests. This lab shall be operative for the entire duration of the contract till its completion. Tests shall be carried out in the presence of Engineer-in-Charge.  
(b) Records shall be maintained at work site. The successful test results shall be recorded and signed jointly by the Contractor and Engineer-in-Charge.  
(c) Within 15 days of placement of work order No. 1, Site Lab shall be established and this fact alongwith the particulars of the technical representative of the Contractor responsible for the Site Lab, shall be reported by the Contractor to GE in writing who will verify the facts and satisfy himself of the facilities provided and the particulars of the technical representative of the Contractor. Thereafter, GE shall issue a certificate to this effect in writing listing out equipment, particulars etc. of each material test. Only after issue of this certificate by GE, the tests shall be carried out and materials so approved shall be incorporated in the work.  
(d) Manpower, material and infrastructure like electricity, water etc. required for conducting these tests shall be provided by the Contractor.  
(e) Remedial measures, if any, required to achieve/ obtain desired results for each test shall be taken promptly by the Contractor.

- (f) In case during any point of time, Contractor fails to adhere to the laid down frequency of the tests due to non availability of the required facilities in his site lab, the tests shall be carried out in MES (CE/CWE/GE) Laboratories, in which case the testing charges as stipulated therein' shall be levied. However, in case the testing facilities are not available in MES (CE/CWE/GE) laboratories, the tests shall required to be conducted in Engineering Colleges or any other Government approved test house and the actual charges as levied by these test houses/labs shall have to be paid by the contractor without any extra cost to the department. Whether the testing facilities exist in Contractor's Site Lab, MES (CE/CWE/GE) Laboratories or not shall be decided by the GE, whose decision shall be final and binding. All facilities for tests including conveyance/labour etc. shall also be borne by the contractor without any extra cost to the department. No extension of time shall be admissible on this account.
- (g) However, in case GE in his opinion considers that Contractor is purposely not adhering to the laid down frequencies of the tests, he shall reserve the right to deduct penal recovery which shall be double the rates of tests indicated in Appendix 'D'. However, besides effecting penal recovery for non-compliance of contractual testing frequency, for adhering to quality control norms of testing, simultaneously GE will get tests done from MES (CE/ CWE/ GE) Lab as per laid down frequency and necessary testing charges shall be recovered from running bills. In case facilities are not available to conduct test in MES (CE/ CWE/ GE) Lab, then GE will get them tested from any other source and necessary testing charges paid by GE shall be debited to the running payments of the Contractor. GE's decision shall be final and binding on recoveries.
- (h) No charges shall be recovered from the Contractor for tests carried out in his Site Lab.
- (i) 'A' level tests for the works costing upto 100 lakhs: - The contractor may set up site laboratory at his own option for works costing up to 100 Lakhs. The other stipulations will be same as above. However in case the contractor has not set up the site lab and tests are carried out in MES (CE/ CWE/ GE) or any other lab approved / setup by GE, the recovery shall be made at rates applicable i.e. as given herein after.

Level 'B' & 'C'

: The Test charges mentioned under column 7 of Appendix 'D' are the charges to be paid by the contractors in case the tests are conducted in MES (CE/ CWE/ GE) laboratories. Wherever it is convenient to get 'B' level tests done at Govt. approved test houses/Engg colleges the same can be done at the cost of the contractor and no separate recovery shall be made by the Deptt for such tests. However, the tests required to be conducted in Engineering Colleges or any other Government approved test houses and the actual charges as levied by these test houses/ labs irrespective of the rates indicated shall have to be paid by the contractor without any extra cost to the department. The rates of 'C' level tests have been given for the purpose of recovery if these tests are done in MES lab (if facility available) or these are not done and non testing of 'C' level tests is accepted by the Accepting officer. Whether the testing facilities exist in MES (CE/ CWE/ GE) laboratories or not shall be decided by the GE, whose decision shall be final and binding. All facilities for tests including conveyance/labour etc. shall also be borne by the contractor without any extra cost to the department.

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

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

**LEGEND**

A - SITE LAB

B MES (CE/CWE/GE) LAB

C - GOVT APPROVED TEST HOUSES/ENGG COLLEGES

Srl No	Materials	Name of tests	Relevant Code	Description	Type	Cost	Remark
1	2	3	4	5	6	7	8
1	Bricks	(i) Compressive Strength.	IS :3495 (Part-II)	As per IS : 5454 as given under :-	`A'	330/-	Checks for visual and dimensional characteristics shall also be carried out as per IS : 5454
			-do-	<u>Lot size</u> <u>Sample size</u> <u>Permissible No. of defective bricks.</u>			
		(ii) Water Absorption.	IS-3495 (Part-I)	1001 to 10000 5 0	`A'	330/-	
				10001 to 35000 10 0	`A'	330/-	
		(iii) Efflorescence		35001 to 50000 15 1			
2	Coarse aggregate	(i) Sieve analysis	IS :2386 (Part-I)	One test for every 16 Cu.m of aggregate or part thereof brought to site.	`A'	660/-	
		(ii) Flakiness Index	-do-	-do-	`A'	250/-	
		(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/-	
		(iv) Organic impurities	-do-	One test per source of supply	`B'	275/-	
		(v) Moisture Contents	-do- (Part-II)	Regularly as required.	`A'	330/-	
		(vi) Specific gravity	-do-	One test per each source of supply	`B'	330/-	
3	Fine Aggregate	(i) Sieve Analysis	IS: 2386 (Part I)	One test for every 15 Cum of fine aggregate or part when brought to site	`A'	660/-	
		(ii) Test for clay, silt and impurities	-do- (Part-I)	-do-	`A'	500/-	
		(iii) Specific Gravity	-do- (Part-II)	One for each source of supply	`B'	330/-	
		(iv) Moisture Contents	-do- (Part-II)	Regularly as required subject to two tests/day when being used	`A'	330/-	

		(v) Test for organic impurities	-do- (Part-II)	<b>est for each source of supply</b>	`B'	275/-	
4	Cement	(i) Setting time	IS: 4031- 63 affirmed 1980	Once for each consignment or as and when required	`B'	500/-	
		(ii) Soundness	-do-	-do-	B	550/-	
		(iii) Compressive strength	-do-	-do-	`B'	550/-	
		(iv) Fineness	-do-	-do-	`B'	275/-	
		(v) Consistency Test	-do-	<b>-do-</b>	`C'	140/	
5	Structural Concrete (M-15 Grade & above).	(i) Slump test or compacting factor test or Vee-Bee time	IS : 1199	The minium frequency of sampling of concrete of each grade shall be as under:-	`A'	300/-	Random sampling shall be carried out to cover all mix units.
				Qty of Concrete in the work    No. of Samples			
		(ii) Compressive Strength	IS : 516	1-5 cum                                  1 6-15 cum                                 2 16-30 cum                                3 31-50 cum                                4 51 cum & above                      4+1 for each additional 50 Cum or part thereof.	`A'	900/-	As per IS:456 2000 clause 14 for frequency of sampling
6	Design Mix			CTL Chandigarh		5000/-	As per PS Clause
7	(a) PCC block for walling (Hollow block)	(i) Compressive strength	IS : 2156-1984 (Appx`B')	8 block out of 14	`A'	900/-	Sample: 14 blocks from consignment of every 5000 blocks or part thereof.
		(ii) Water absorption	-do-(Appx `E')	3 block out of 14	`B'	330/-	
		(iii) Density	-do-(Appx`A')	3 blocks out of 14	`B'	330/-	
	(b) PCC solid block for walling	(i) Compressive strength	IS : 2185	12 blocks out of 18	`A'	900/-	Sample: 18 blocks from consignment of every 1000 blocks or part thereof.



							These blocks to be checked for dimension and weight.
		(ii) Water absorption	-do-	3 block out of 18	`B'	330/-	
		(iii) Density	-do-	3 blocks out of 18	`B'	330/-	
8	Cement Flooring tiles/ Terrazo tiles	(i) Water absorption	IS: 1237(Appx`D')	6 tiles out of 18	`B'	330/-	Sample of 18 tiles from each source of supply selected at random.
		(ii) Wet transverse strength	IS: 1237 (Appx`E')	6 tiles out of 18	`B'	660/-	
		(iii) Resistance to wear	IS : 1237 (Appx`F')	6 tiles out of 18	`C'	1000/-	
9	Burnt clay roofing tiles (Hand made) as per IS:2690 (Part-II) Length : 150-250 mm Width : 100-200 mm Thickness :35-50 mm	(i) Water absorption	IS : 3495 (Part-II)	6 tiles out of 12	`B'	216/-	12 tiles from each source of supply selected at random
		(ii) Compressive strength	-do- (Part-I)	6 tiles out of 12	`A'	180/-	
10	Mangalore Pattern roofing tiles	(i) Water absorption	IS : 654 (Appx `A')	6 tiles out of 32	`B'	180/-	32 tiles from each Consignment of 3000 tiles or part thereof, These tiles shall be checked for dimension and weight.
		(ii) Breaking Load	-do- (Appx `C')	6 tiles out of 32	`B'	120/-	
11	Timber	(i) Specific gravity and weight	IS:1708	Minimum 3 samples from a lot of 4 Cu.m or 250 pieces of seasoned timber	`B'	120/-	
		(ii) Moisture content	-do-	-do-	`A'	120/-	

12	Water for construction purposes	(i) Test for Acidity	IS:456 and 3015	Once at the stage of approval of source of water.	`B'	500/-	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/-	
		(iii) Test for total dissolved solids (TDS) contents	-do-	-do-	`B'	500/-	
13	Welding of steel work	Visual inspection test	IS-822 clause 7.1	100% by visual inspection	Work site	360/-	Specialised tests their method & frequency to be decided on consideration of their importance by the Accepting Officer.

14	Timber panelled and glazed door/ window and shutters including factory made shutters.	(a) Dimensions, sizes, workmanship and finish.	IS: 1003 (Part-I)	Frequency of sampling for each lot shall be as under :-	`A'	180/-	
				<b>Lot Size</b>			
				26 to 50			
				51 to 100			
				101 to 150			
				151 to 300			
				301 to 500			
				501 to 1000			
				1001 and above			
		(b) <u>Strength Test</u>					
15	Plywood(IS:303)	(i) Slamming	IS:1303		`C'	240/-	Sampling shall be as per IS-7835 ables.
		(ii) Impact indentation	-do-	From each lot 5% of the factory made shutters shall be tested for strength tests.			
		(iii) Shock resistance	-do-				
16	Wood Particle Board (Medium	(a) Density	IS:2360 (Part-III)	Three test specimens from each sample (size 150 mm x 75 mm).	`A'	60/-	Sampling shall be as per IS: 3487

	density) IS:3097-	(b) Moisture content	-do-	-do-	`A' & `B	60/-	with moisture metre.
		(c) Water absorption	-do-(Part-16)	-do- but sample size 300 mm x 300 mm	`A'	60/-	
		(d) Swelling due to surface absorption	-do-(Part-17)	-do- but sample size 125 mm x 100 mm	`A'	60/-	
		(e) Swelling in Water	-do-	-do- but sample size 200 mm x 100 mm	`A'	60/-	
		(f) Modulus of rupture	-do-(Part-4)	Three test specimens as per IS:2380-77	`B'	90/-	
		(g) Screw withdrawal strength	-do-(Part-4)	-do- as per IS:2385	`C'	120/-	
17	Reinformcement Steel	(i) Physical tests upto 16mm dia (Normal mass, tensile elongation, bend and rebend)	IS : 1786	As per IS : 1786	`B'	2500/-	
		(ii) More than 16mm dia	IS : 1786	As per IS : 1786	`B'	2750/-	

\_\_\_\_\_  
(Signature of contractor)  
Dated:\_\_\_\_\_

DCWE(Contracts)  
For Accepting Officer

**APPENDIX 'E' TO PARTICULAR SPECIFICATIONS SECTION-II**  
**CEMENT SUPPLY/ACCEPTNACE REGISTER**

1. CA No & Name of work :
2. Control No
3. Name of Manufacture/Brand Name/Gde of Cement (a) Manufacture \_\_\_\_\_  
(b) Brand \_\_\_\_\_ (c) Grade \_\_\_\_\_
4. Qty of cement & Lot No/Week No(In Bags) : (Qty \_\_\_\_\_) (b) Lot No/Week No \_\_\_\_\_
5. Manufacturer's test certificates No \_\_\_\_\_
6. Random test details (a) Physical test report from \_\_\_\_\_ vide their letter No \_\_\_\_\_  
(Name of approval Lab/Engg College)  
(b) Chemical test report from \_\_\_\_\_ vide their letter No \_\_\_\_\_  
(Name of approval Lab/Engg College)
7. Details of physical & chemical properties :-

Physical requirement (As per IS-4031)										Chemical requirements(As per IS-4032)								
	Specific surface area(M <sup>2</sup> /Kg)	Soundness by Le Chatellier	Soundness by Auto Clave	Initial setting time(Minutes)	Final setting time(Minutes)	Comprehensive strength (MPA)			Temp during testing °C	Standard consistency(%)	Lime saturation Ratio	Aclumina iron Ratio	Insoluble residue(%)	Manesium(%)	Sulphuric Anhydride(%)	Loss of ignition(%)	Alkalies(%)	Chlorides(%)
						03 Days	07 Days	28 Days										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
As per relevant IS																		
As per manufacturer's test certificate																		
As per random test certificate																		

Remarks with signature

JE (Civil) : \_\_\_\_\_

Engineer-in-Charge : \_\_\_\_\_

Contractor : \_\_\_\_\_

Accepted/Rejected :

Garrison Engineer :

Remarks of BSO/Inspecting Officer/CWE

Signature of the Contractor

DCWE(Contracts)  
FOR ACCEPTING OFFICER

**APPENDIX 'F'****STEEL SUPPLY/ACCEPTANCE FORM**

Contract No . \_\_\_\_\_

Name of work \_\_\_\_\_

Control No \_\_\_\_\_

**DETAILS PURCHASE**

- (a) Particular of manufactures  
 (b) Details of supplier, if any

**DETAILS OF CERTIFICATE**

- (a) No and Date  
 (b) Particulars of the supplier, if any

Sl No	Nom enclature & size of steel	IS quantity(t)			Physical properties							Rem arks
					UTS(N/Sqm)			Elongation(%)				
		Ref	Actu al	Conv ersio n	IS	Test Shee t	Rand om test*	IS	Test Shee t	Rand om test*	Bond test	
1	2	3	4	5	6	7	8	9	10	11	12	13

Remarks with signature

JE (Civil) : \_\_\_\_\_

Engineer-in-Charge : \_\_\_\_\_

Contractor : \_\_\_\_\_

Accepted/Rejected :

Garrison Engineer :

Remarks of BSO/Inspecting Officer/CWE

Signature of the Contractor

 DCWE(Contracts)  
 FOR ACCEPTING OFFICER

**GENERAL CONDITIONS OF CONTRACTS (IAFW-2249 1989 PRINT) FOR  
ITEM RATE CONTRACTS (IAFW-1779 A)**

A copy of the General Conditions of Contracts (IAFW-2249 1989 Print) 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, as modified if any, elsewhere in these tender documents.

It is hereby further agreed and declared by me/us that the GENERAL CONDITIONS OF CONTRACTS (IAFW-2249-1989 PRINT) including condition 70 thereof pertaining to settlement of disputes by arbitration containing 33 pages with errata 1 to 20 and amendment No 1 to 49 form part of these documents.

\_\_\_\_\_  
DCWE(Contracts)  
For Accepting Officer

\_\_\_\_\_  
Signature of Contractor  
Dated :

**SCHEDULE OF MINIMUM FARE WAGES**

It is hereby agreed that schedule of minimum fare wages (SMFW) as published vide Government of India Notification dated 10 Mar 1992 (Revised Upto date) comprising 10 pages, form part of this tender documents.

My/Our signature hereunder amounts to my/our having read and understood the provision 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 Fare Wages” referred to above is available for reference in any MES Office under this HQ.*

\_\_\_\_\_  
DCWE(Contracts)  
For Accepting Officer  
Dated :

\_\_\_\_\_  
Signature of Contractor