

**MILITARY ENGINEER SERVICES
GARRISON ENGINEER (ARMY) JAISALMER**

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Signature of Contractor

AGE (Contracts)
For Accepting Officer

Tele civil : 02992- 254139
Email: ajasl4-mes@nic.in

Military Engineer Services
Garrison Engineer (Army)
Jaisalmer – 345001 (Raj)

No. 8110/26-27/02/E8

27 May 2026

M/S _____

**CA No. GE (A) JSLR/ OF 2026-27: MAINTENANCE AND REPAIR TO FLAME PROOF
LIGHT FITTING/ FIXTURES AT CERTAIN UNITS UNDER GE (A) JAISALMER**

Dear Sir,

1. Tender documents in respect of above works are uploaded on the site www.defproc.gov.in. The tender is on single stage two cover e-tendering system. The contents of Cover I & Cover II are specified in NOTICE OF TENDER.
2. Bids will be received online by ACCEPTING OFFICER upto the date and time mentioned in the NOTICE INVITING TENDER (NIT). No tender/bid will be received in physical form and any tender/bid received in such manner will be treated as non bonafide tender/bid.
3. Bid will be opened on due date and time fixed for opening in the presence of tenderers/bidders or their authorised 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 _____. You are requested not to write piece meal points and forward your points duly consolidated before due date viz_____.
5. Unenlisted contractors are required to submit the scanned copies (in pdf file) of documents required as per eligibility criteria mentioned in instructions for filling the tender documents and Appendix 'A' to NIT alongwith EARNEST MONEY DEPOSIT (EMD) and tender fee on e-procurement portal and submit the physical documents in the office of **GE (Army) Jaisalmer** within time limit specified in **NIT**. Inadequacy/ deficiency of documents shall make the bid liable for rejection resulting in disqualification for opening of finance bid.

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6. Enlisted contractors of MES shall submit the scanned copies (pdf file) of enlistment letter, tender fee and such other documents as mentioned in Appx 'A' to NIT on e-procurement portal and submit physical documents in the office of **GE (Army) Jaisalmer** before date & time fixed for this purpose.
7. 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.
8. In view of delays due to system failure or other communication related failures, it is suggested that the tender/bid be uploaded, if necessary, sufficiently in advance of the last due date and time fixed.
9. General conditions of contracts (IAFW-2249) (1989 print) and errata and amendments thereto, Schedule of minimum fair wages and MES SSR (Part-I and Part-II) are not enclosed with these documents. These are available for perusal in this office.
10. ANY TENDERER, WHICH PROPOSES ALTERATIONS TO ANY OF THE CONDITION, SPECIFICATIONS LAID DOWN IN THE TENDER DOCUMENTS OR ANY NEW CONDITION, WHATSOEVER, IS LIABLE TO BE REJECTED.

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For Accepting Officer

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

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

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

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 & 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. PERFORMANCE SECURITY**2.1. Within 28 days of receipt of the letter of Acceptance, the successful contractor shall deliver to the Accepting officer a performance security in any of the forms given below for an amount equivalent to 5% of the Contract Sum.**

- (i) A Bank Guarantee in the prescribed form from Commercial Bank(s).
- (ii) Fixed Deposit Receipt from Commercial Bank(s).
- (iii) Insurance Surety Bond.
- (iv) Account Payee Demand Draft.

2.2. 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.

2.3. Failure of the successful contractor to comply with the requirements of clause 2.1, he shall constitute sufficient grounds for cancellation of the award of work. Irrespective of whatever is mentioned in condition 19.3 of IAFW 2249 with regard to suspension of tenders on account of non-submission of Performance Security, issue of tenders to such tenderers shall remain suspended for a period of six months from the date of cancellation of contract under condition 19.3 of IAFW 2249 in case of un enlisted Contractors. In case of MES enlisted contractor, issue of tenders shall remain suspended till deposit of EMD or six months from date of cancellation whichever is later.

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INSTRUCTIONS FOR FILLING AND SUBMISSION OF TENDER (CONTD.....)

- 2.4. 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 make good in cash or securities, endorsed as aforesaid, any sum or sums which may have been deducted from or realized by the sale of his performance Security or any part thereof. Government shall not responsible for any loss of securities or any depreciation in the value of securities while in their charge nor for loss of interest thereon.
- 2.5 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."
- 2.6 Condition 19.1 of IAFW-2249 and condition 14A.1 of IAFW-1815Z provides for submission of Performance Security by the successful contractor in the form as stipulated.
- 2.7 The Performance Security shall be in favour of Accepting Officer and shall be in any of the forms mentioned above Work Order No. 1 shall be placed only after Submission of Performance Security of adequate value by the contractor. In case a Fixed deposit receipt of any Bank is furnished by the contractor to the Government as part of the Performance Guarantee and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Government to make good the deficit.

3. GENERAL INSTRUCTION FOR COMPLIANCE

- 3.1 The received only in the electronic form shall be considered. All bids shall be submitted on <https://defproc.gov.in> portal. Documents should be scanned and uploaded in 'pdf' form and 'xls' form as indicated
- 3.2 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 shall be considered.
- 3.3 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.
- 3.4 Drawings, if issued in physical form must be returned duly initialed by the tenderer/bidder in separate envelope indicating his name and address.
- 3.5 The tender shall be signed, dated and witnessed at all places provided for in the documents after acceptance. All corrections shall be initialed. The Contractor shall initial every page of tender and shall sign all drawings forming part of tender. Any tenderer/bid, which proposes alterations to any of the conditions whatsoever, is liable to be rejected.

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- 3.6 In the technical bid, a scanned copy of Power of Attorney in favor of the person uploading the bid using his DSC shall be uploaded. In case the digital signatory himself is the sole proprietor, scanned copy of an affidavit on stamp paper of appropriate value to this effect stating that he has authority to bind the firm in all matters pertaining to contract including the Arbitration Clause, shall be attached in 'pdf' form. In case of partnership concern or a limited company, digital signatory of the bid/tender shall ensure that he is competent to bind the contractor (through partnership deed, general power of attorney or Memorandum and Articles of Association of the Company) in all the matters pertaining to the contracts with Union of India including arbitration clause. A scanned copy of the documents confirming of such authority shall be attached with the tender/bid in 'pdf' form, if not submitted earlier.
- 3.6.1 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.
- 3.7 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.
- 3.8 Hard copies of all above documents should be sent by the contractor to the Tender issuing authority well in advance to be received before the date & time fixed for the same.
- 3.9 Bid (Cover 1 & 2) shall be uploaded online well in time.
- 3.10 The contractor shall employ Indian Nationals after verifying their antecedents and loyalty. Attention is also drawn to special condition 3 referred hereinafter and also conditions 24 & 25 of IAFW 2249 (General Conditions of Contracts).
- 3.11 Tenders/bidders who uploaded their priced tenders/bids and are desirous of being present at the time of opening of the tenders/bids may do so at the appointed time.
- 3.12 The tenderer /bidder shall quote his rate on the BOQ file only. No alteration to the format will be accepted else the bid will be disqualified and summarily rejected.
- 3.13 In case the tenderer/ bidder have to revise / modify the rates quoted in the BOQ (excel sheet) he can do so only in the BOQ, through <https://defproc.gov.in> site only before the bid closing time and date.

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INSTRUCTIONS FOR FILLING AND SUBMISSION OF TENDER (CONTD.....)**4. REVOCATION/ UPWARD REVISION OF OFFER/VOLUNTARY REDUCTION BY THE LOWEST TENDERER AFTER OPENING OF COVER 2**

Revoking the offer or revising the rates upward/offering voluntary reduction by the lowest tenderer, after opening of Cover 2, shall be considered as a willful default. For this default a penalty of an amount equal to earnest money shall be levied. In case of an unenlisted tenderer, earnest money deposited by him shall be forfeited. In case of MES enlisted tenderer, an amount equal to the earnest money stipulated in the NIT shall be notified to the tenderer for depositing through MRO and consideration of such tenderer in tender evaluation for future works shall remain suspended till the aforementioned amount is deposited in the Government Treasury. No other disciplinary/administrative action shall be taken against such tenderer. 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 the tender in second call or subsequent calls. Reduction offered by the tenderer in respect of the freakishly high rates shall not be treated as voluntary reduction.

5. C P M (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

AGE (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 cost more or less, a tenderer/bidder will have no claim on that account. The tender shall be based on as mentioned in aforesaid Appendix 'A'.
3. The work is to be completed within the period as indicated in aforesaid Appendix 'A' in accordance with phasing, if any, indicated in the tender from the date of handing over the site, which will be on or about two weeks after the date of Acceptance of tender.
4. Normally contractors whose names are borne on the MES approved list for the area in which the work lies, and within whose financial category, the estimated amount would fall, may tender/bid but in case of term contracts, contractors of categories 'SS' to 'E' may tender/bid. Not more than one tender shall be submitted by one contractor or one firm of contractor. 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 for the same contract as separate competitors. A breach of this condition will render the tenders/bids of both parties liable to rejection.
5. The Garrison Engineer (Army) Jaisalmer will be the Accepting Officer here in after referred to as such for purpose of the contract.
6. The Technical Bid and Financial Bid (Cover-1 and Cover-2) shall be uploaded by the tenderer/bidder on or before the date & time mentioned in NIT. A scanned copy of DD with enlistment details/documents shall be uploaded as packet 1/cover-1 ('T' bid) of the tender/bid on e-tendering portal. DD is refundable in case T bid is not accepted resulting in non- opening of 'Q' bid. The applicant contractor shall bear the cost of bank charges for procuring and encashing the DD and shall not have any claim from Government whatsoever on this account.
- 6.1. Tender form and conditions of contract and other necessary documents shall be available on www.defproc.gov.in site for download and shall form part of Contract Agreement in case the tender/bid is accepted.
- 6.2 In case of contractor who has not executed the Performance security deposit. The cover-I shall be accompanied with Earnest Money of amount as mentioned in Appendix 'A' in the form of deposit at call receipt in favour of concerned Garrison Engineer (see Appendix 'A') by a scheduled Bank or in receipted treasury Challan the amount being credited to the revenue deposit of the concerned Garrison Engineer (see Appendix 'A').
- 6.3 The GE will return the Earnest Money wherever applicable to all unsuccessful tenderers/bidders by endorsing an authority on the deposit-at-call receipt for its refund, on production by the tenderer/bidder a certificate of the Accepting Officer that a bonafide tender/bid was received and all documents were returned.

Signature of Contractor

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NOTICE INVITING TENDER (NIT) (CONTD...)

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

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

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

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

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

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

11. Invitation for e-tender does not constitute any guarantee for validation of 'T' bid and subsequent opening of finance bid of any applicant/bidder, even to enlisted contractors of appropriate class, merely by virtue of enclosing DD. Accepting Officer reserves the right to reject the 'T' bid and not open the finance bid of any applicant/bidder. 'T' bid validation shall be decided by the Accepting Officer based on, inter alia, capability of the firm as per criteria as given in Appendix 'A' to this NIT, The applicant contractor/bidder will be informed regarding non- validation of 'T' bid assigning reasons thereof through the defproc website. The applicant contractor/bidder if he so desires may appeal to the next higher Engineer authority viz CWE Jaisalmer on email id jasl3-mes@gov.in with copy to the Accepting Officer on email before the scheduled date of opening of Finance Bid. The decision of next higher engineer authority (NHEA) shall be final and binding. The contractor/bidder shall not be entitled for any compensation whatsoever for rejection of his bid.

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

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

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

Signature of Contractor

AGE (Contracts)
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APPENDIX 'A' TO NOTICE INVITING TENDER (NIT)

1	Name of Work	<u>MAINTENANCE AND REPAIR TO FLAME PROOF LIGHT FITTING/FIXTURES AT CERTAIN UNITS UNDER GE (A) JAISALMER</u>															
2	Estimated Cost	₹ 40.00 Lakhs at par market.															
3	Period of Completion	06 (Six) Months															
4	Cost of tender Documents	₹ 500.00 in the form of Demand Draft/Bankers Cheque from any Scheduled bank in favour of GE (A) Jaisalmer and payable at Jaisalmer. (Note: In case of retendering, the contractor who had quoted in the previous call is not required to submit the cost of tender.)															
5	Website / Portal Address	www.defproc.gov.in															
6	Type of Contract	The tender shall be based on drawing and specifications, IAFW-1779-A and GCC (IAFW-2249) with Schedule 'A' (list of items of work) to be priced by contractor/pre priced by MES. The contractor is required to quote the lump sum amounts for parts of Schedule 'A' and quote rates against items of other parts of Schedule 'A'. (Suitable modification shall be made depending upon the type of tender)															
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 Class 'D' and above and category "b (i)" 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	(i) Contractor not enlisted with MES should meet the enlistment criteria of 'D' class & "b (i)" category contractor with regard to satisfactorily completion of requisite value of 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 & 1.5 of Section 1 of MES Manual on Contracts 2020 as available in all MES formations as well as MES website (www.mes.gov.in). (ii) Not carrying adverse remarks in Work Load Report (WLR) or any other similar report circulated by any competent authority. If already working in MES. (iii) Not suspended/debarred/blacklisted (either permanently or temporarily) from participating in any bid or for business dealing by any Central/State Government Department or any Central/State Government PSU or any Local Body as on the bid submission end date. (iv) Details of works completed and under progress in MES be submitted in the following format: - <table border="1"> <thead> <tr> <th>Srl No.</th><th>CA No. & Name of work</th><th>Value of CA</th><th>Date of Commencement</th><th>Date of Completion</th><th>Extended Date of Completion</th></tr> </thead> <tbody> <tr> <td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> (v) Un-enlisted Contractor who have secured two works in MES should get themselves registered in the appropriate designated class with any registering authority, else the firm will not be eligible for participation in the tender unless until the firm is enlisted with the MES.				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												

Signature of Contractor

AGE (Contracts)
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APPENDIX 'A' TO NOTICE INVITING TENDER (NIT) CONTD...

9	Tender issuing and Accepting Officer	Name : Bandi Sreenihar, IDSE, EE, GE Address: GE (A) Jaisalmer Contact details (Phone No. 02992- 254139 & Email ID : ajasl4-mes@nic.in)
10	Executing agency	GE (Army) Jaisalmer
11	Earnest Money	₹ 80,000.00 in favour of GE (A) Jaisalmer in the form of Deposit at call receipt. FDR not acceptable.

NOTES:

1. After opening of Cover-I, if 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 less than 7 (Seven). applications in respect of contractors one class or two classes (in case of remote and difficult areas to be decided as per list circulated by CE command /ADG) below the eligible class shall also be considered subject to fulfillment of other eligibility criteria given in the NIT. Therefore MES Contractors one class below (two classes below in case of remote and difficult areas) may also bid for this tender. However 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. Such bidders shall upload in their Cover-I bid details of works in hand showing names of work, names of Accepting Officers, Contract amounts, dates of commencement and completion (stipulated) and progress as on bid submission date. 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-I, the number of MES enlisted contractors of eligible class as well as un-enlisted contractors, if any, fulfilling the other eligibility criteria given in NIT, are 7 (Seven) or more, applications of only those one class below the eligible class bidders shall be considered, who have previously completed similar works satisfactorily and are meeting the criteria of 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-I

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

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

- Application for tender on Firm's letterhead.
- Enlistment letter issued by the Registering Authority duly renewed for the cycle period in vogue.
- Scanned copy of DD /Bankers Cheque toward cost of tender and EMD instrument in case SSD bond is not signed at the time of registration.
- Any other document required as described in this Appendix.

5. Contractors not enlisted with MES will be required to upload following documents in Cover-I for checking eligibility.

- Application for tender on Firm's letterhead.
- Scanned copy of DD/ Bankers cheque toward cost of tender and Earnest Money Deposit (EMD) instrument.
- 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.
- All documents required for enlistment in MES for the class mentioned in Para 8(b) above as per Para 1.5 of Section I of MES Manual on Contracts 2020.
- Details of works executed in MES, if any.
- Any other document required as described in this Appendix.

Signature of Contractor

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APPENDIX 'A' TO NOTICE INVITING TENDER (NIT) CONTD...

6. Tenders not accompanied by scanned copies of requisite DD/Bankers Cheque towards cost or 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 within 07 days of bid submission end date (*The number or days to be mentioned shall be as decided by the Accepting Officers, but it shall not be less than 5 days) failing which following action shall be taken.
- (a) In case of tenders from an enlisted contractor of MES, where scanned copies of requisite DD / Bankers Cheque towards cost of tender have been uploaded in Cover-I 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 unenlisted contractor, where scanned copies of requisite DD/Bankers Cheque towards cost of tender have been uploaded in Cover-I but physical copies are not received within the stipulated period, their financial bids (Cover-2) will not be opened. Name of such contractors along with complete address shall be circulated for not opening of their bids for a period of six months commencing from the date of opening of Financial bid (Cover-2).
- (c) In case of tenders from enlisted and unenlisted contractors, where scanned copies of instruments for Earnest Money Deposit (as applicable) have been uploaded in Cover-I but the same are not received in physical form within stipulated period, such tenders shall not qualify for opening of financial bid (Cover-2).
8. Contractor will not be allowed to execute the work by subletting or through power of attorney to a third party/ another firm on his behalf. However a contractor can execute the work through power of attorney to sons /daughters/ spouse of Proprietor/Partner/Director and firm's own employees, director, project manager **provided they are not having a separate enlisted firm in MES in their name as Proprietor/Partner/Director.**
9. After opening of Cover-I and during its technical evaluation, in case any deficiency is noticed in the documents required to be uploaded by the tenderers as per NIT, a communication in the form of e-mail/SMS /Speed Post etc shall be sent to the contractor to rectify the deficiency within a period of seven days from date of communication failing which their financial bid (Cover-2) shall not be opened and contractor shall not have any claim on the same.
10. Invitation for e-tender does not constitute any guarantee for validation of Technical bid and subsequent opening of financial bid of any applicant /bidder merely by virtue of enclosing DD. Accepting Officer reserves the right to reject the Technical bid and not to open the financial bid of any applicant/ bidder. Technical bid validation shall be decided by the Accepting Officer based on eligibility of the firm as per criteria given in this Appendix. Tenderer /bidder will be informed regarding non -validation of his Technical bid assigning reasons therefore through tender evaluation report which shall be uploaded on the website. Such tenderer, if desires, may appeal to the next higher Engineer Authority (NHEA) viz ajasl4-mes@nic.in on email id mes@nic.in with copy to the Accepting Officer on email before the scheduled date of opening of Cover 2. NHEA shall decide the matter within a period of seven working days from the date of receipt of appeal. The decision of the NHEA shall be final and binding. The tenderer/bidder shall not be entitled for any compensation whatsoever for rejection of his bid.
11. In case an unenlisted contractor is already executing works in MES, he shall not be considered eligible for the subject tender if the total value of such works is more than twice the tendering limit of the MES Class of contractor for which it is eligible. For this purpose, details of the works being executed by such a contractor shall be uploaded in the Cover-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 cases the lowest tender shall be determined from amongst the valid/bonafide bids only. Accepting Officer may decide whether to re-tender or consider the lowest bonafide tender for acceptance

Signature of Contractor

AGE (Contracts)
For Accepting Officer

APPENDIX 'A' TO NOTICE INVITING TENDER (NIT) CONTD...

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

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

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

15. The determination of lowest bidder (L1) shall be based on recommendation of Tender Committee (TC) constituted by the Accepting Officer. No claim whatsoever shall be allowed on this account.

Signature of Contractor

AGE (Contracts)
For Accepting Officer

Military Engineer Services
Garrison Engineer (Army)
Jaisalmer – 345001 (Raj)

File No.8110/26-27/02/E8

Date : 14 May 2026

DISTRIBUTION:

- | | |
|---|---------------------------------|
| (1) HQ CE JZ Jodhpur | (2.) HQ CWE Jaisalmer. |
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| (5) CWE(A) Jamnagar | (6) CWE Jaipur |
| (7) CWE(A) Janshai | (8) GE Kota |
| (9) GE (Army) Central, Jodhpur | (10) GE (Army) Utility, Jodhpur |
| (11) GE (AF) Jodhpur | (12) GE (SOUTH) Banar |
| (13) AGE (I) R&D, Jodhpur | (14.) GE (AF) Jaisalmer |
| (15.) GE (AF) Utterlai | (16) GE (P) Barmer |
| (17) GE Alwar | (18) GE Bharatpur |
| (19) GE Nasirabad | (20) AGE (I) Nagtalaw |
| (21) AGE (I) Udaipur | (22) GE Jaipur |
| (23) GEA) Barmer | (24) GE(A) Baroda |
| (25) GE(A) Ahmedabad | (26) GE (A) Gandhi Nagar |
| (27) GE(A) Jamnagar | (28) GE(A) Bhuj |
| (29) GE(AF) Bhuj | (30) GE(A) (P) Jaisalmer |
| (31) Executive Engineer, PWD, Jaisalmer | |

Signature of Contractor

AGE (Contracts)
For Accepting Officer

Registered Ask Due

- (32) Executive Engineer, Rajasthan Housing Board , Jaisalmer
- (33) SE, CPWD , Jaisalmer
- (34) AGE B/R-I Jaisalmer/ AGE E/M Jaisalmer / AGE B/R-II Pokaran /BSO (A) Jaisalmer
- (35) The Chairman, MES B.A. I (Raj) Centre, 25, Bhagwan Dass Road, Jaipur
- (36) Builders Association of India (Regd), G-1/G-20, Commerical Centre, 7th Floor, Tardeo, Mumbai
- (37) The President, MES Builders, Association Def Lab Road Ratanada Jodhpur
- (38) MES Builders, Association of India 807, SAHYOG, 58 Nehru Place, NEW DELHI- 110019
- (39) Construction Industry Development Council 801, (8th floor), Hemkunt Chamber, 80, Nehru Place, New Delhi - with a request to display the notice on their Web site.
- (40) The Secretary, MES Builders Association of India (Regd) Jaisalmer Branch-Ramesh Bhavan, Shiv Road, Jaisalmer
- (41) Builder's Association of India C/o, H-686, Road No.1, MIA Basni lind Phase, Jodhpur-342005 (Raj).

Signature of Contractor

AGE (Contracts)
For Accepting Officer

**TO BE READ IN CONJUNCTION WITH GENERAL
CONDITIONS OF CONTRACTS (IAFW – 2249 – 1989 PRINT)
MILITARY ENGINEER SERVICES**

Tele: 02992-254139
(Email id :ajasl4-mes@nic.in)

Military Engineer Services
Garrison Engineer
Jaisalmer-345001

8110/26-27/02/E8

27 May 2026

**ITEM RATE TENDER AND CONTRACT FOR MAINTENANCE AND REPAIR TO FLAME PROOF
LIGHT FITTING/ FIXTURES AT CERTAIN UNITS UNDER GE (A) JAISALMER**

Dear Sir(s),

1. Shri/S'Shri _____ of _____ is/are hereby authorized to tender for the above work. The tender is to be uploaded on “**defproc.gov.in**” portal by the time & date mentioned under critical dates in the tender.
2. All documents must be uploaded while forwarding the bid on above mentioned portal.
3. Any correspondence on clarification concerning this tender shall be communicated as per information available at the e-portal mentioned above by due date.
4. **THE PRESIDENT OF INDIA DOES NOT BIND HIMSELF TO ACCEPT THE LOWEST OR ANY TENDER.**

SIGNATURE OF CONTRACTOR

Date: _____

Signature of Officer
Issuing the documents
Appointment: AGE (Contracts)

Signature of Contractor

AGE (Contracts)
For Accepting Officer

SCHEDULE 'A' NOTES
(LIST OF WORKS AND PRICES)

NOTES:-

1. Tenderer is required to quote his unit rates each items of schedule 'A' (BOQ).
2. The tender rates shall be deemed to be subject to all special conditions and all preambles as given in the MES standard schedule of Rates Part-II-2020 and also all preambles of Schedule 'A' unless specifically mentioned to the contrary in any item of Schedule 'A' (BOQ) or in the special condition of particular specifications.
3. The items of Schedule 'A' shall be read in conjunction with the particular specifications, drawings and specifications given in SSR Part-I (2009).
4. Period of completion for the entire work under this contract shall be **06 (Six) months** from the date of handing over site mentioned in the WORK ORDER NO. 1.
5. Unit rate to be quoted by the tenderer shall be deemed to include for any minor details of construction/ minor accessories which are obviously and fairly intended which might not have been referred to in these tender documents but which are essential for the execution and entire completion of the work. The decision of the Accepting Officer as to what constitutes minor details of construction/ minor accessories shall be final and binding.
6. Unless otherwise indicated unit rates quoted in Schedule 'A' (BOQ) shall be deemed to include for labour and material/ supply and fix and testing etc complete.
7. All quantities mentioned in Sch 'A' (BOQ) are approximate and are inserted as guide only. They shall however, not be varied beyond the limits laid down in condition 7 of IAFW-2249.
8. (a) The unit rate(s) quoted shall be deemed to be inclusive of all Taxes, Duties, Royalties, Octroi and other levies payable under the respective status including GST, service tax, sales taxes/ VAT on materials, Sales tax on works contracts, Turn over Tax, Labour Welfare Tax etc.
- (b) Tenderer's attention is invited to deduction of Sales Tax at source for execution of works contract as levied by the Govt. The rates quoted by the tenderer in Schedule (BOQ) shall be deemed to include for the above mentioned Tax and all other taxes levied by the Govt/ Statutory body and nothing extra will be payable on this account.
- (c) Tenderers attention is invited to deduction of Labour Welfare Cess at Sources @ 1% of construction cost as enforced by Govt of India under building and other construction workers Act 1996 and building and other construction worker welfare Cess Act 1996. This shall deem to be included in rates quoted by the Contractor.
9. 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 what so ever, for not giving entire site on award of work and for giving site gradually, will be tenable.
10. Net tenderer sum shall be worked out after deduction of Sch of credit amount.
11. The GST has been implemented wef 1st July 2017 by subsuming various taxes as well as revision of tax slab of various items, services and shall be applicable in this work. Therefore, the bidders are advised to consider all provisions of the GST while quoting the tender and nothing extra shall be entertained on this account.

Signature of Contractor

AGE (Contracts)
For Accepting Officer

12. **WAGES:** - The Contractor shall pay basic wages plus statutory charges (EPF/ESI) to all his employees as per the minimum wages rates fixed by Central Government or as per the wages fixed by State Govt, whichever is higher. In the event of existing wages already being paid to the employees are higher than the minimum wages fixed by State Govt/Central Govt. then the contractor shall pay the wages whichever are higher. The contractor shall provide full information in respect of the wages etc. paid by him to his employees so deployed in conformity with the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and Rules, made there under.

13. The contractor shall furnish details of disbursement of salary to the Engineer –in charge within 5 days from the date of disbursement i.e. 1st working day of next month. This obligation is imposed on the contractor to ensure that the Contractor is fulfilling his commitments towards his employees so deployed under the various Labour Laws. The Contractor shall comply with or cause to be complied with the Contractor's Labour Regulations made by the Govt from time to time in regard to payment of wages, wage period deduction from wages, recovery of wages not paid and deductions unauthorized made. He will maintain attendance registers, individual's ledger/wage book, wage slip, publications of scale of wages and terms of employment.

14. The employees so deployed shall be paid their wages @ basic wages or the minimum wages/rates whichever is higher not-with-standing any change in the rates of statutory contributions payable by the employer as per instructions of the Central Government / state Government issued from time to time.

15. The Contractor shall be responsible for fulfilling all his obligations towards the persons deployed under the Minimum Wages Act., EPF Act, ESI Act, Bonus Act, Maternity Benefit Act, be responsible for the deposit of employee's and principle employer's i.e the Contractor share of statutory contributions with the ESI , EPF authorities at his own level and maintenance of such record as per rules. He will furnish proof of deposit of such contributions to the Engineer –in Charge along with wage bill for the next month. He will also arrange to open such EPF, ESI accounts etc. of all the employees deployed by him within 01 Month from date of award of Contract. In case of failure on the part of Contractor to deposit EPF, ESI etc. with the concerned authorities within the stipulated period the contractor shall be liable to pay penalty so imposed by the Govt.

16. Any obligation and/or formalities which are required to be fulfilled under the Contract Labour (Regulation & Abolition) Act, 1970 as amended from time to time or any other Act for the purpose of entering into and/or execution of this contract shall be carried out by the Contractor at his own expenses, etc., The Contractor shall be solely liable for violation of any provisions of the said Act or any other Act.

17. The Contractor shall take all reasonable precautions to prevent any unlawful act or disorderly conduct of his employees so deployed for the preservation of peace and protection of persons and property of the Institute.

18. (i) The contractor's attention is invited to payment of wages act 1936, where in, it is stated that "All wages shall be paid in current coin or currency notes or by cheque or **by crediting the wages in the bank account of the employee.**"

(ii) **Mode of Payment.** The payments will be made into **AADHAAR linked bank account** of the workmen engaged by the contractor. Where the employee insists on being paid in coins or currency notes or by cheque, the same will not be denied. An undertaking may be obtained from such employees. However, efforts shall be made to educate the employees on benefits of bank/ digital payments and pursue with the individual(s) to shift towards banking system/ digital modes. As per latest policy of the Deptt, No payment to contractors will be made after 31 Oct 2017 unless proof of payment of wages through Aadhaar linked bank accounts is submitted by the Contractor.

19. The lowest tenderer/ bidder shall have to employ a qualified trades men of ITI in the respective filed for execution of electrical installations catered in the work.

Signature of Contractor

AGE (Contracts)
For Accepting Officer

20. Vis-a-vis the Government, the Contractor shall be primarily liable for all payments to be made under, and for observance of the Regulations aforesaid without prejudice to his right to claim indemnity from his sub-contractors. The GE shall have the right to deduct from the payment due to the Contractor, any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfilment of the Conditions of the Contract for the benefit of the workers, non-payment of wages or of deductions made from his or their wages, which are not justified by the terms of the Contract or non-observance of the Regulations.

21. The payment due to contractor shall be made after verifying that statutory PF payments have been made to EPFO. The verification will done either directly from EPFO portal or payment receipt obtained by the contractor from the EPFO portal while making payment.

22. It is obligatory on the Contractor to comply all provisions, rules, regulation under various Acts and regulations applicable as per Central Govt minimum wages Act, The Deptt will not be responsible for any violation / contravention of aforesaid law, rules and regulations. The Deptt incurring damage due to non compliance of the aforesaid law by the contractor shall be indemnified by the Contractor to the extent of loss suffered due to said violations.

23. **DEFECT LIABILITY PERIOD** :- Defect liability period for the subject work shall be 12 (Twelve) calendar months after the work have been handed over by the contractor duly completed to the Government.

24. The Contractor shall have to take sample approval for all materials incorporated in the tender documents within 15 days of commencement. The contractor should bring 50% quantity of materials as per CA provisions to site within 30 days from the date of commencement of work. Rest of the materials to be brought as per site requirement. Submission of original purchase vouchers also mandatory, otherwise the Accepting Officer can take serious action as deemed fit including cancellation of contract without any prejudice. The decision of Accepting Officer is final and binding in this account. Responsibility and security of stores will completely lie upon the contractor. List of materials are as mentioned below: -

LED LIGHT FITTINGS, GI PIPE, MCB, DB, MCCB, CABLE, COPPER/ALUMINUM CABLES, CEMENT

Signature of Contractor

AGE (Contracts)
For Accepting Officer

SCHEDULE OF CREDIT

- 1 The quantities given under col 4 are provisional and will depend upon the actual executed quantities of items of Sch 'A' and credit shall be adjusted accordingly.
- 2 The rate of items of credit inserted under column 5 are firm. The contractor shall have no claim whatsoever of the actual value of the material is different from the value indicated in column 5.
- 3 The tenderer shall deemed to have visited the site & made themselves aware with the nature and extend of quality of materials that will become contractor's property as per schedule of credit.
- 4 The materials indicated in credit schedule shall became the property of the contractor and credit thereof shall be recovered from the contractor's RAR/final bills. The contractor shall remove such material from site only after, recovery is effected from RAR/FB.
- 5 Materials obtained from dismantling/ demolition/ taking down shall not be re-used in the work unless specified in schedule. The materials to be re-used shall be stacked property for re-use.
- 6 Old serviceable retrieved materials which are neither considered in schedule of credit nor considered for re-use shall be the Govt property and shall be deposited in MES store yard of GE A) Jaisalmer without any extra cost. All unserviceable material shall be disposed off as directed by Engineer-in-charge at site.

SI No	Particulars	Unit	Qty	Rate	Amount
1	2	3	4	5	6
1	Old unsv point wiring any type material complete (excluding switches, sockets light fittings etc).	Per Point	165.00	30.00	4950.00
2	Old unsv main DBs	Each	24.00	100.00	2400.00
3	Old unsv sub main wiring any size	RM	750.00	10.00	7500.00
4	Old unsv light fittings	Each	115.00	50.00	5750.00
5	Old unsv flameproof Switches, Sockets any type	Each	150.00	5.00	750.00
6	Old unsv street lights	Each	35.00	50.00	1750.00
7	Old unsv earthing	Each	40.00	200.00	8000.00
8	Old unsv GI Strip	RM	260.00	20.00	5200.00
9	Old u/s copper strip	RM	200.00	100.00	20000.00
10	Old unsv GI Pipe	RM	180.00	20.00	3600.00
11	Old metal sheet enclosures	Each	12.00	5.00	60.00
Total carried over to collection of Schedule 'A'					59960.00

SCHEDULE 'B'**ISSUE OF MATERIALS TO THE CONTRACTOR**(See condition 10 of IAFW-2249)

SI No	Particulars	Rate at which materials etc will be issued to the contractor		Place of issue by name	Remarks
		Unit	Rate		
1	2	3	4	5	6

----- NIL -----

(Signature of Contractor)

AGE (Contracts)

SCHEDULE 'C'List of tools and plants (other than transport) which will be hired to the contractor(See condition 15, 34 & 35 of IAFW-2249)

SI No	Qty	Particulars	Details of MES Crew supplied	Hire charges per unit / per working day	Stand by charges per unit of day	Place of issue (by Name)	Remarks
1	2	3	4	5	6	7	8

----- NIL -----

(Signature of Contractor)

AGE (Contracts)

SCHEDULE 'D'Transport to be hired to the contractor(See condition 16 and 35 of IAFW-2249)

SI No	Qty	Particulars			Details of MES Crew supplied	Place of issue (by Name)	Remarks
1	2	3	4	5	6	7	8

----- NIL -----

Signature of Contractor

AGE (Contracts)
For Accepting Officer

(In lieu of IAFW-1779-A Rev-1955)

TENDER

To,

The President of India,

Having examined and perused the following documents:-

1. Specification signed by AGE (Contracts).
2. Drawing detailed in the specification.
3. Schedule 'A', 'B', 'C' & 'D' attached hereto.
4. MES Standard Schedule of rates part I (Specification) 2009 Print together with amendments Nos 1 to 3 and part-II (Rates) 2020 Print and including amendment No. 1 to 122 and section 30 issued by HQ E-in-C's branch 66546/SSR-II/Rates/2020/444/E8 dt. 04 Jan 2023.
5. General Condition of contracts IAFW- 2249 (1989 print) together with amendment No 01 to 49 and Errata 01 to 20.
6. REFER CONDITION 31 OF IAFW: 2249 (GENERAL CONDITION OF CONTRACTS)
Water will not be supplied by the MES and contractor shall make his own arrangement of water at his own cost.
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 part of performance security deposit or be refunded by the Govt. on receipt of the appropriate amount of the performance security deposit or all as per condition 22 of IAFW-2249.

(b) To execute all the work referred to in the said documents upon the terms and conditions contained or referred to therein at the item rates contained in the aforesaid Schedule 'A' or to such other rates as may be fixed under provisions of condition 62 and to carryout such Deviations as may be ordered vide condition 7 up to a maximum of **10% (Ten Percent)** and further agree to refer all disputes, as required by condition 70 to the sole arbitrator of an serving officer having degree in Engineering or equivalent or having passed final / direct final examination of sub Division II of Institution of surveyor (India) recognized by the Govt. of India to be appointed by the Chief Engineer Jodhpur Zone Jodhpur or in his absence the officer officiating as Chief Engineer, if specially delegated in writing by the CEJZ Jodhpur, for the above purpose, whose decision shall be final, conclusive and binding .

* TO BE DELETED WHERE NOT APPLICABLE

Signature of Contractor

AGE (Contracts)
For Accepting Officer

(In lieu of IAFW-1779-'A' Revised-1995)

SignatureName _____ in the capacity of

_____ duly authorized to sign the tender for and on behalf of * **M/S** _____

_____ (*IN BLOCK LETTERS)

DATED

Witness ----- Postal Address **M/s** _____Address -----

Tele

ACCEPTANCE

.....alternations have been made in this document and as evidence that these alternations were made before the execution of the contract agreement, they have been initialed by the contractor and Shri **SUNIL TIRU, AE (QS&C) AGE (Contracts)**.

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

The above tender was accepted by me on behalf of the PRESIDENT OF INDIA at the items rates contained in the Schedule 'A' (BOQ) for the contract sum of Rs. _____

(Rupees _____)

on the _____ day of _____ 2026.

Signature _____

Dated this ____ day of _____ 2026

APPOINTMENT:
GARRISON ENGINEER (ARMY)
JAISALMER 345 001 (RAJ)
(For and on behalf of the President of India)

Signature of Contractor

AGE (Contracts)
For Accepting Officer

MILITARY ENGINEER SERVICEGENERAL CONDITIONS OF CONTRACTS (IAFW-2249 : PRINT 1989)FOR ITEM RATE CONTRACTS (IAFW-1779 & 1779A)

A copy of the MES GENERAL CONDITION OF CONTRACTS IAFW-2249 (1989 PRINT) with errata No. 1 to 20 and amendment No 1 to 49 has been supplied to me/us and is in my/our possession. I/We have read and understood the provisions contained in the aforesaid GENERAL CONDITIONS OF CONTRACTS before submission of this tender and I/We agree that I/We shall abide by the terms and conditions thereof, as modified, if any, elsewhere in these tender documents.

It is hereby further agreed and declared by me/us, that the General Conditions of Contracts (IAFW-2249-1989 print) including condition 70 thereof pertaining to settlement of disputes by Arbitration and Conciliation Act (1996) and containing 33 pages with errata 1 to 20 and amendment Nos 1 to 49 containing 21 pages form part of these tender documents.

MY/OUR signature here under is deemed to () MY/OUR having signed the aforesaid General Conditions of Contract together with errata and amendments (IAFW-2249, 1989 Print) forming part of tender.

Note:- DISPUTE IN INTERPRETATION DUE TO WORDINGS OF ENGLISH AND HINDI VERSIONS

It is clarified that in case of difference on interpretation due to wordings of English and Hindi versions, the English version will prevail as per Article 348 of the Constitution of India as clarified vide CS/MS - 17 letter No. 96019 / GS / MT - 17 dated 13 Oct 89.

AGE (Contracts)

for Accepting Officer

Signature of Contractor

Date:

* Delete whichever is not applicable.

SCHEDULE OF MINIMUM FAIR WAGES(PAYABLE BY THE CONTRACTOR UNDER MINIMUM FAIR WAGES ACT)(SEE CONDITION 58 OF IAFW-2249)

1. It is hereby agreed that the "SCHEDULE OF MINIMUM FAIR WAGES" (SMFW) as published vide Government of India which specifies minimum rates of wages for various categories of workmen as applicable on the last due date receipt of this tender shall form part of the tender documents and in my/our* possession. I/We* have read and understood the provisions contained in aforesaid Schedule of Minimum Wages before submission of tender.
2. My/Our* signature(s) here under amounts to my/our* having signed the aforesaid "SCHEDULE OF MINIMUM FAIR WAGES" forming part of this tender.

*Delete whichever is not applicable.

AGE (Contracts)

for Accepting Officer

Signature of Contractor

Date:

NOTE

Schedule of Minimum Fair Wages referred to above is available for reference, in the office of CWE Army Jaisalmer

SPECIAL CONDITIONS**1. GENERAL**

These special conditions shall be read in conjunction with the general conditions of contracts (IAFW-2249) and IAFW-1779-A including errata and amendments thereto. Any provisions in these special conditions if at variance with the provision in the above-mentioned documents shall be deemed to take precedence there over.

2. VISIT TO SITE OF WORK

Reference Para 8 and 11 of notice of tender (IAFW-2162) and condition 4 of IAFW-2249. The tenderer shall be deemed to have satisfied himself before submitting his tender, as to the nature of the ground and substrata soil (as far as practicable), the climatic conditions, the form and nature of the site, nature of work and means of access to the site, the accommodation he may require, and in general shall be deemed to have himself obtained all necessary information on inspection of site as to risks, contingencies and other circumstances which may alter his tender. No extra payment consequent to any mistake, or misunderstanding or otherwise on this account will be allowed.

3. CONTRACTORS REPRESENTATIVE, AGENTS, SERVANTS AND WORKMEN

Contractor shall employ only Indian Nationals as his representatives, agents, servants and workmen and verify their antecedents and loyalty before employing them for the works. He shall ensure that no person of doubtful antecedents and Nationality is in any way associated with the works. If for reasons of technical collaboration or other consideration employment of any foreign national is unavoidable the contractor shall furnish full particulars to this effect to the Accepting Officer at the time of submission of the tender. The GE shall have full power and without giving reasons to the contractor immediately cease to employ in connection with this contract any representative, agent, servant, workman or employee whose continued employment is in his opinion is undesirable. The contractor shall not be allowed any compensation on this account.

4. SECURITY OF CLASSIFIED DOCUMENTS

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

5. ACCEPTANCE OF TENDER

The tender shall remain open for acceptance for a period of 60 days from the date specified for its submission.

SPECIAL CONDITIONS6. **BLANK**7. **SAMPLES OF MATERIALS AND INDIAN STANDARDS**

- 7.1 In case where materials are specified to conform to samples the tenderer is advised to inspect samples of the materials which are displayed in the office of the GE before submitting his tender. The tenderer shall be deemed to have inspected the samples and satisfied himself so as to the nature and quality of materials he is required to incorporate in the work irrespective of whether he has actually inspected them or not. The materials to be incorporated in the work by the contractor, shall conform to or shall be superior in quality to the sample displayed and shall comply with the specifications given herein after.
- 7.2 The contractor shall produce sample of materials and get them approved by the GE before commencement/incorporation in the work.
- 7.3 Contractor shall provide items/articles from the sources/firms mentioned in particular specifications i.e Appendix 'B' and 'C'. Where a firm listed in particular specification is manufacturing both ISI/non ISI marked materials, only ISI marked items/ articles shall be provided. Where IS number is mentioned in the tender documents the year of IS shall be the latest up to and including the date of receipt of tender.

8. **RECORD OF MATERIALS**

- 8.1 (a) Contractor shall produce the original vouchers/invoices in respect of all the materials claimed in RAR as material lying at site.
- (b) Original vouchers/invoice for the following items of works applicable will be produced by the contractor before claiming RAR payment or before incorporation in the work whichever is earlier.
(i) Cement (ii) Steel (iii) any other items for which Engineer-in-charge specifically ordered.
- 8.2 The quantity of proprietary articles/materials brought to site 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.
- 8.3 Proprietor materials referred above brought at site shall be stored as directed by the Engineer-in-Charge and those already recorded in measurement book shall be suitably marked for identification
- 8.4 The contractor shall ensure that the materials are brought to site in original sealed container in packing bearing manufacturers marking.
- 8.5 The vouchers shall be certified by the Engineer-in-Charge as soon as materials are brought to site by the contractor and suitable endorsement made on the face of original paid vouchers indicating the contract No and other particulars of work for which used. Certified true copies of all such vouchers shall be carefully maintained by the Engineer-in-Charge.

9. **QUARRIES:-**Reference to condition 14 of IAFW-2249. Quarries are not available on Defence land for use by the contractor.

10. **BLANK**

SPECIAL CONDITIONS**11. AVAILABILITY OF LAND FOR STORAGE OF MATERIALS/ TEMPORARY WORKSHOP OFFICE**

(Refer condition 24 of IAFW-2249)

Delete the following in Para 1 of condition 24 of IAFW-2249, 'In the event of ---- of areas of land allotted to him' and following shall be read in conjunction with condition 24 of IAFW-2249.

"The contractor shall be permitted to store his materials including erection of temporary sheds thereof and also to erect his temporary workshop and the like at the area of land marked for all purpose on the site plan free of rent if it is on class A1 land. For other types of land he shall be charged a licence fee of Rs 1/- per year or part of year for each and every separate area of land allotted to him".

12. AVAILABILITY OF LAND FOR ACCOMMODATION OF LABOUR AND CANTEEN

(Refer condition 24 of IAFW-2249.

No land will be allotted for labour camp and canteen.

13. FAIR WAGES

The contractor shall have no claim what so ever if, for any reason other than those mentioned in condition 63 of IAFW-2249, he is required to pay wages in excess of minimum wages as laid down by Govt of India (shown in the schedule of minimum rate of wages or the minimum wages as fixed by the State Govt whichever is higher.

14. OFFICIAL SECRET ACT

The contractor shall be bound by the official secret act 1923.

15. BLANK**16. ELECTRIC SUPPLY**

- (a) In the case the contractor desires to buy electricity from MES, he shall be charged for the electric energy consumed at Rs. **13.92** per kilowatt hours for KWH lighting and power each.
- (b) The above rates are exclusive of duty/tax, if any levied by the local state Govt on the electric energy. Duty and taxes, if any levied by the State Govt and/or electricity under taking and the like on the electricity charges, will be borne by the department.
- (c) Electric supply required for works shall be made available by MES. However exact location shall be shown by the GE. The main switch and KWH meter to register the electric energy supplied shall be provided and installed by MES. Contractor shall provide all necessary connections, cables, fittings etc from the main switch in order to ensure a proper and suitable supply of electricity for the execution of work.
- (d) MES do not guarantee continuity of supply and no compensation whatsoever shall be allowed for supply becoming intermittent or for breakdown in the system.

SPECIAL CONDITIONS

- (e) The supply shall be AC 3 phase, 3 wire, 400 to 440 volts (within permissible limits) 50 cycles up to 10 KW at point of supply.

17 WATER (REFER CONDITION 31 OF IAFW-2249)

- 17.1 Water shall not be supplied by the MES. Contractor shall make his own arrangement for the water at his own cost from the sources outside the defence land, alternatively contractor shall be permitted to bore the tube wells on defence land and no recovery on this account shall be made from the contractor. The contractor's quoted lump sum shall be deemed to include the cost of installation of tube wells. The tube well bore (Except pump) shall be property of Government and the same shall be handed over to the department after completion of work without any extra cost to Govt.
- 17.2 It will be the responsibility of the contractor to ensure that the water brought to site meets the requirement of clause 5.4 of IS 456. Each source of water shall be got approved from the GE, well in advance of the requirement of water for construction purpose. GE will first approve each source of water before commencement of any concreting/masonry/plaster work. Thereafter, the water from each source will be tested at least at an interval of every three months. The sample of water from the sites will be got collected by the GE and sealed by him. All the testing charges including the arrangement for forwarding the sample to the Recognised/Approved Laboratory will be borne by the contractor.
- 17.3 Work done with water arranged by the contractor and not meeting the requirement of IS 456 is liable for rejection.

18. WORKING CONDITIONS IN UNRESTRICTED AREA

18.1 The work lies in unrestricted Area. Working conditions are as under:-

18.2 Refer condition 25 of IAFW-2249. The contractor shall employ only Indian Nationals as his representative, servants and workman and verify their antecedents and loyalty before employing them for the works. He shall ensure that no person of doubtful antecedents and nationality is in any way, associated with work. If for reasons of technical collaboration or other consideration. The employment of any foreign national is unavoidable, the contractor shall furnish full particulars to this effect to the Accepting officer at the time of submission of his tender.

18.3 The contractor shall, on demand by the Engineer-in-Charge, submit list of his agents, employees and work people concerned and shall satisfy the Engineer-in-Charge as to the bonafide of such people.

18.4 The Engineer-in-Charge shall at his discretion have the right to issue passes (In case police verification is required, the cost if any shall be born by the contractor) with photographs as per rules and regulations of the installation/Area in force to control the admission of the contractor, his agents, employees and work people to the site of the work or any part thereof. Passes should be returned at any time on demand by the Engineer-in-Charge of the authorities concerned and in any case on completion of work.

18.5 The contractor and his agents, employees and work people shall observe all the rules promulgated by the authority controlling the installation/area in which the work is to be carried out prohibition of smoking lighting, fire precautions, search at specified timing etc. Nothing extra shall be admissible for any man-hours, etc. lost on this account.

18.6 Contractor shall make arrangement to issue photo passes to the labours, employees, by him and no extra payment on this account shall be admissible by the department.

SPECIAL CONDITIONS

19. TESTING

The cost of all tests shall be borne by the contractor. In case any implement and equipments for the testing at site of work are required, the same shall also be provided by the contractor without any extra cost to the Govt.

20. RETENTION MONEY/COMPENSATION FOR DELAY

Refer condition 64 and 50 of IAFW-2249.

21. LOSS OR DAMAGE ON ACCOUNT OF ENEMY ACTION:-**21.1 CONTRACTOR'S PLANT/EQUIPMENT AT SITE:-**

- (a) The contractor shall furnish to the Engineer-in-Charge every morning a distribution return of his plant/ equipment on the site of work, stating the following particulars:-
- (i) Particulars of plant/equipment, its make, manufacture No, model No if any, registration No, if any, capacity, year of manufacture, year of purchase etc.
 - (ii) Total No (Quantity) on site of work.
 - (iii) Location, indicating No (quantity) at each location of site of work.
 - (iv) Purchase value on the date of purchase. For the purpose of this condition, plant/equipment shall include vehicles i.e. trucks and lorries but neither the workmen's tools nor any manually operated tools/equipments.
- (b) The Engineer-in-Charge shall record the particulars, supplied by the contractor in the work diary and send the return to the GE for record in his office.

22. REIMBURSEMENT IN CASE OF ENEMY ACTION:- If as a result of enemy action, the contractor suffers any loss or damage, the Government shall reimburse to the contractor such loss or damage to the extent and in the manner hereinafter provided :-

- (i) The loss suffered by him on account of any damage or destruction of his plan/equipment (as defined in special condition) here in before or materials or any part of parts thereof. (The amount of loss assessed by the Accepting Officer of the contract or the CWE in case of contracts by GE, on this account shall be final and binding).
- (ii) The compensation paid by him under any law for the time being in force, to any workmen 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 of work carried out (the amount of compensation shall be determined in accordance with condition 48 of General Condition of Contracts (IAFW-2249).

No reimbursement shall be made nor shall any compensation be payable under the above provision unless the contractor had taken Air Defence precautions ordered in writing by the GE/OC concerned or in the absence of such orders, reasonable precautions. No reimbursement shall be payable nor any compensation be payable for any plant/equipment or materials not lying on site of work at the time of happening of enemy action.

SPECIAL CONDITIONS

23. RE-IMBURSEMENT/REFUND ON VARIATION IN TAXES DIRECTLY RELATED TO CONTRACT VALUE

- (a) The rates quoted by the Contractor shall be deemed to be inclusive of all taxes (including Sales Tax/VAT on materials, Sales Tax/VAT on Works Contracts, Turnover Tax, Labour Welfare Cess/tax etc.) duties, Royalties, Octroi & other levies payable under the respective Statutes. No reimbursement/refund for variation in rates of taxes, duties, Royalties, Octroi & other levies, and/or imposition/abolition of any new/existing taxes, 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 sales Tax/VAT on Work Contracts, 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 last due date for receipt of tenders. Any increase in percentage rates of "taxes directly related to Contract value" with reference to prevailing rates on last due date for receipt of tenders shall be reimbursed to the Contractor and any decrease in percentage rates of "taxes directly related to Contract value" with reference to prevailing rates on last due date for receipt of tenders shall be refunded by the Contractor to the Govt/deducted by the Govt from any payments due to the Contractor. Similarly imposition of any new "taxes directly related to Contract value" after the last due date for receipt of tenders shall be reimbursed to the Contractor and abolition of any "taxes directly related to Contract value" prevailing on last due date for receipt of tenders shall be refunded by the Contractor to the Govt/deducted by the 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 thereto which he may be in a position to supply. The Contractors shall submit the other documentary proof/information as the GE may require.
- (iii) The Contractor shall, for the purpose of this condition keep such books of account and other documents as are necessary and shall allow inspection of the same by a duly authorized representative of Govt, and shall further, at the request of the GE furnish, verified in such a manner as the GE may require, any documents so kept and such other information as the GE may require.
- (iv) Reimbursement for increase in percentage rates/imposition of "taxes directly related to Contract value" shall be made only if the Contractor necessarily & properly pays additional "taxes directly related to Contract value" to the Govt, without getting the same adjusted against any other tax liability or without getting the same refunded from the concerned Govt Authority and submits documentary proof for the same as the GE may require."

PARTICULAR SPECIFICATIONS**1. GENERAL**

- (a) The following specifications shall be read in conjunction with the General conditions of contract (IAFW-2249) and IAFW-1779-A including Errata/Amendments thereto. If any provision in the special conditions is at variance with that of the aforesaid documents, the former shall be deemed to take precedence there over.
- (b) The work under this contract shall be carried out in accordance with schedule 'A' the particular specifications the drawings forming part of this contract and general specification and other provisions in the MES standard schedule of rates 2009 Part I & 2020 Part II including errata/amendments as applicable thereto.
- (c) The term "General Specifications" referred to here-in-before as well as in IAFW-2249. (General Conditions of contracts) shall mean the specifications contained in the MES standard schedule of rates 2009 Part I & 2020 Part II including errata/amendments as applicable thereto.
- (d) General rules, specifications, special conditions and all preambles in the MES schedule shall be deemed to be applicable to the work under this contract unless stated otherwise in these documents in which case the provisions in these documents shall take precedence over the aforesaid provisions in the MES Schedule.
- (e) Rates quoted by the tenderer shall be deemed to include for any minor details/items of work and/or construction which are obviously and fairly intended and which may not have been included in these documents but which are essential for the execution and entire completion of the work.
- (f) Decision of the Accepting Officer as to whether any minor details of work and / construction is obviously and fairly intended to be included in the contract shall be final conclusive and binding.

2. SCOPE OF WORK

- (i) This contract comprises full final and entire completion of all works described in schedule 'A' (BOQ) and specified in particular specifications.
- (ii) Probable sources of local materials are given in Appendix 'A' to particular specifications. However the samples shall be got approved by GE before bulk procurement of the material. The contractor may bring materials conforming to the specifications from other sources without any price adjustment. If the contractor proposes to use materials from such sources samples thereof shall be submitted to the GE before procurement in bulk and incorporation in the work.
- (iii) In appendices/annexure to particulars specifications, list of manufacturers of items have been given. Contractor shall obtain these items from one of the approved manufacturers only. However, it will not absolve the contractor from ensuring that the products supplied are conforming to the relevant IS in all respects before procuring the same for approval by the GE and before procuring bulk product for incorporation in work.

3. SAMPLES AND MATERIAL

- 3.1. In case specification of any material needed for incorporation in work is not contained in any of the contract documents, the specifications of such materials proposed to be incorporated in work shall be got approved in writing from the GE before their incorporation in the work.
- 3.2. The contractor at his own discretion if intends to provide materials/items conforming to IS specifications and bearing IS certification mark from any other manufacturers other than the listed in the tender, if any, such materials shall be allowed to be incorporated with prior approval of GE and without any price adjustment, however, this option shall be applicable only when of the manufacturer listed in the tender emboss IS certification mark on materials/articles.

PARTICULAR SPECIFICATIONS

- 3.3. The contractor and the executives will ensure that the materials incorporated in work are identical with the approved samples.
- 3.4. Local materials such as stone aggregate, sand, lime, stone etc shall be as specified hereinafter. The samples of such materials shall be got approved in writing from GE before the materials are brought at site in bulk.
- 3.5. Letters conveying approval of samples/materials by GE will inter mention source of supply/ name of manufacturer/trade name/brand (if applicable) and reference to clause of contract documents containing specification of particular materials.
- 3.6. Any material/equipment incorporated in the work without the prior written approval of GE shall be deemed to be rejected and will have to be replaced by the contractor at his risk and cost.

4. EXCAVATION AND EARTH WORK**4.1 EXCAVATION IN TRENCHES AND OVER AREA**

Excavation in trenches and over areas in soil shall be carried out as described in clause 3 of MES SSR part I, Bailing and pumping of water, if required will be done as described in para 3.17 of MES SSR Part I. No extra payment shall be admissible for the above mentioned operation, if, however, inflow of water into excavation is caused by powerful springs or river seepage, broken water mains or drains and the like (other than those broken through the contractor's negligence) the contractor shall immediately, inform the GE, if in the opinion of the GE, the inflow is due to any of these causes, he shall issue instructions in writing as to the method to be employed in clearing the water and additional payment shall be allowed as deviation order.

4.2 FILLING IN TRENCHES, PLINTH AND UNDER FLOORS

- 4.2.1 Filling under floors, in plinth and in and around foundations, and other situation shall be done with approved earth. It shall be ensured that turf, peat and vegetable and other organic and deleterious matter is removed from the soil used for filling. Black cotton soil shall not be used for filling. Filling in general shall be done in layers as specified in clause 3.19 of MES SSR Part I and filling in trenches for pipes, drains, cable etc shall be done carefully as per clause 3.20 of MES SSR Part I.
- 4.2.2 Earth obtained from excavation shall be used for filling only after approval of Engineer-in-Charge. No charge shall be levied against contractor for use of approved soil obtained from excavation. Soil not approved for filling or surplus to the requirement shall be removed to a distance mentioned in Sch 'A'.

5. CONCRETE

5.1 **AGGREGATE.** Coarse aggregate for all cement concrete works unless othMSise specified, shall be crushed or broken and graded hard stone. Coarse aggregate and fine aggregate (sand) shall be from the sources as mentioned in Appx 'A' and approved by the GE and shall confirm to IS 383 and to the samples kept in GE's office.

5.2 **WATER :** Quality of water to be used for mixing and curing of concrete work shall conform to the requirement of clause No 5.4 of IS-456. GE will ensure that testing of water is carried out at regular intervals to comply with the requirement. Cost of testing of water will be borne by the contractor.

5.3 CEMENT

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5.3.1 **GENERAL:** - Cement required for the work under the contract shall be procured, supplied and incorporated in the works by the contractor under his own arrangement. Cement shall be of tested quality and shall comply with the requirements mentioned in the drawings, SSR, IS specifications as amended and particular specifications given here-in-after.

5.3.2 Cement shall be ordinary portland cement (OPC) grade 43 confirming to IS-8112-1989 (Latest revision) or portland pozolana cement (PPC) Confirming to IS-1489-1991.

5.3.3 All reinforced cement concrete work shall be M-30 (Design mix) as specified in SSR Part-I.

5.3.4 Control on cement supplied by Contractors. Following checks shall be carried out before the cement supplied by the contractor is accepted and is approved for incorporation in the works:-

(a) Procurement. The cement shall be procured from the following manufactures / main producers. However in case the total quantity of cement required in the work is less than 1200 bags then the same can be procured from authorised dealers / distributors of the main producers at the discretion of the Contractor”.

APPROVED CEMENT MANUFACTURERS FOR MES WKS ON PAN INDIA LEVEL

(1) The Associated Cement Companies Ltd. Brand - "ACC" 414-421, Splender Forum (4th Floor), 3, Distrcict Centre, Jasola, New Delhi - 110044 Ph: 011-46583600 Cement Grade- All	(2) M/s Ultra TechCement Brand - "ULTRATECH" 'B' Wing, 2 nd Floor, Mahakali Caves Road, Andheri (East), Mumbai – 400093 Tele : 022-66917800 Cement Grade- All
(3) M/s My Home Industries Ltd Brand - "MAHA CEMENT" 9 th floor, Block-3, My Home Hub, Madhapur, Hyderabad-500081, Phone no: 040-66929696 Cement Grade- PSC, PPC, OPC 43	(4) M/s Dalmia Cement (Bharat) Ltd. Brand - "DALMIA INFRA PRO" Dalmiapuram Distt-Tiruchirappalli Tamil Nadu – 621651 Cement Grade- All
(5) M/s Chettinad Cement corporation Ltd. Brand - "CHETTINAD CEMENT" 4 TH floor, rani seethai hall building, 603, Anna salai hall, Chennai-600006 Tele : 044-42951800 Cement Grade- PPC & OPC 43	(6) M/s JK Lakshmi Cement Ltd Brand: 'JK LAKSHMI' Jaykaypuram, Dist-Sirohi, Rajasthan Ph: 02971-244409/10 Cement Grade- All

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(7) M/s Century Cements Brand - "CENTURY" Industry House, 159 Church Gate Reclamation, Mumbai-400020 Tele : 022-22023936 Cement Grade- All	(8) M/s Saurashtra Cement Brand - "SAURASHTRA" Gala No. A-1, Ground Floor, Udhyog Sadan No.3 MIDC, Central Road, Andheri (East), Mumbai-400093, Tele : 022-32955557/67 Mobile: +91-9320290081 Cement Grade- All
(9) The Ramco Cements Ltd. (Formaly Madras Cement) Brand - "RAMCO" Auras Corporate Centre, 98-A , Dr. Radhakrishnan Salai, Mylapore, Chennai – 600004, Ph: 044-28478666 Cement Grade- All	(10) M/s The India Cement Dhun Building, 827, Anna Salai, Chennai- 600002 Cement Grade- All
(11) M/s Mangalam Cement Ltd Brand - "MANGALAM" PO Adityanagar, Morak, Dist-Kota, Rajasthan-326520 Ph : +91-9351468076 Cement Grade- All	(12) M/s Birla Corporation Ltd Brand - "BIRLA" Birla Building (3rd & 4th Floor), 9/1, R. N. Mukherjee Road, Kolkata-700001 Tele : 033-30573700 Cement Grade- All
(13) M/s Ambuja Cement Ltd Brand: 'AMBUJA' Kodinar, PO-Ambujanagar, Taluka-Kodinar, Dist-Junagadh, Gujarat-362715, Ph: 02795-237000 Cement Grade- All	(14) M/s Shree Cement Brand - "SHREE" Bangur Nagar, Beawar, Dist-Ajmer, Rajasthan-305901 Tele : 01462-228101-06 Cement Grade- All
(15) Nuvoco Vistas Corporation Ltd. (Formerly Lafarge Cement) Brand - "NUVOCO" Equinox Business Park Tower-3, East Wing, 4th Floor, LBS Marg, Kurla (West), Kurla Mumbai, Maharashtra, Mumbai-400070 Cement Grade- All	(16) M/s Orient Cement Brand - " BIRLA-A1" 5-9-22/57/D, 2nd and 3rd Floor, GP Birla Centre, Adarsh Nagar, Hyderabad-500063 Tele : 044-23688600 Cement Grade- All
(17) M/s Jaypee Rewa Cement Brand: 'JAYPEE' Jaypee Nagar, P.O. – Jaypee Nagar, Rewa – 486450, M.P. Cement Grade- All	(18) M/s J K Cement Brand - "J K" Kamla Tower Kanpur – 208001 Cement Grade- All

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(19) M/s Sagar Cements Ltd Brand " SAGAR" M/s Sagar Cements Ltd Plot No 111, Road No 10, Jubilee Hills, Hyderabad-500 033 Tele : +91-40-23351571, 2335672 Fax : +91-40-2335673 Email :- info@sagarcements.in Web Site : www.sagarcements.in Cement Grade- PSC, PPC, OPC 43, OPC 53	(20) M/s Star Cement Meghalaya Lumshnong, PO-Khaliehriat, Dist-Jantia Hills, Meghalaya, Ph – 03655-278215/16/18 Cement Grade- OPC, PPC
(21) M/s Meghalaya Cements Ltd Brand " TOP CEM" Lohia house, M.G Road, Factory Bazar, Guwahati-781001, Ph – 0361-260367/671 Cement Grade- OPC, PPC	(22) M/s Hill Cement Company Ltd Brand :‘TAJ’ Shivam Complex, Bharalimukh, A.T Road, Guwahati, Assam-781 009 Mob No.07086085118 Tel-(361)-2735527, 2735552, Website: kchakraborty@tajcement.com Cement Grade- PPC, OPC-43 & OPC-53
(23) M/s green Valliey Industries Ltd Brand :‘MAX CEMENT’ 4th Floor, LB Plaza, GS Road, Bhangarh Guwahati-781005 Tel+91-361-2465482/84, Website: info@greenvalliey.co.in Cement Grade- PPC, OPC-43 & OPC-53	

5.3.5 The contractor shall furnish particulars of the manufacturer/supplier of cement alongwith date of manufacture to the GE for every lot of cement separately. The documents in support of the purchase of the cement shall be verified by the site staff and GE. The cement so brought shall be fresh and in no case older than 60 days from the date of manufacturer. Before placing the order for supply by the contractor, he shall obtain written approval from the GE regarding name of manufacturer, quantity of cement etc. Cement shall be procured for requirement of not 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 requirement of IS specification and each bag of cement shall bear relevant ISI mark. The weight of each consignment shall be verified by the Garrison Engineer and recorded. The content of cement shall be checked at random to verify the actual weight of cement per bag.

5.3.6 **Use of PPC.** For using PPC, the following requirements should be met.

- (a) PPC should meet the strength criteria of 43 grade OPC as laid down in IS-8112-1989.
- (b) The minimum period for curing and striking off form work shall be as under in lieu of that specified in clause 4.11.6.3 of MES Schedule Part-I :-
 - (i) Curing : Structural RCC work, PCC work, Plaster etc : 14 days
 - (ii) Striking off form work from walls, columns and : 3 to 4 days
Vertical sides of beams.
 - (iii) Slabs (Props left under) : 8 days
 - (iv) Beams Soffits (Props left under) : 9 days

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- (v) Removal of props to slab / beam
 - (aa) Spanning upto 6 M span : 16 days
 - (ab) Spanning beyond 6 M span : 22 days
- (vi) For cantilever portion of slab form work with support shall be retained until the completion of the casting of the entire frame work of the building.
- (c) Mixing of OPC & PPC shall not be allowed in the work. However with strict control of the ground executives, different buildings can have different types of cement.
- (d) While procuring PPC, the following requirements are to be ensured and certificate to the effect is to be obtained by the Contractor for each batch from the manufacturer and the same shall be submitted to the GE before approval to procure PPC.
 - (i) The quality of fly ash is strictly as per IS-1489 (Part-I)-2002.
 - (ii) Fly ash is inter-ground with clinker not mixed with clinker.
 - (iii) Dry fly ash is transported in closed containers and stored in silos. Only pneumatic pumping should be used.
 - (iv) The fly ash has been received from thermal power plants using high temperature combustion above 1000°C.
 - (v) The fly ash content in PPC does not exceed 25% to ensure consistency.
- (e) For using PPC non availability of OPC shall not be insisted upon. Also no price adjustment shall be made for use of PPC.

5.3.7 TESTING OF CEMENT

The manufacturer / main producer shall carry out inspections and testing of cement in accordance with the relevant BIS provisions. The Contractor shall submit the Manufacturers Test Certificate in original alongwith the test sheet giving the result of each physical test as applicable and the chemical composition of the cement or authenticated copy thereof, duly signed by the manufacturer with each consignment. The Engineer-in-Charge shall record these details in the Cement Acceptance Register (Appx `A') given here in after, after due verification. The GE shall also organise dependent physical testing of random samples of cement drawn from each lot from the NATIONAL TEST HOUSE, SEMT WING CME, REGIONAL RESEARCH LABORATORIES, GOVERNMENT APPROVED LABORATORIES, ZONAL LABORATORIES as per IS 3535-1986 (Method of sampling hydraulic cement), IS-4031 (Method of chemical analysis of hydraulic cement) and record the results in the relevant portion of Cement Acceptance Register (Appx `A'). In order to undertake departmental testing, requisite facilities alongwith materials, conveyance etc shall be organized by the contractor without any extra cost to the Govt. The random samples of cement to be tested shall be drawn as per Quality Assurance Manual. The cost of materials for testing, samples, conveyance etc shall be borne by the contractor irrespective of the test result. However the cost of testing charges shall be governed in terms of condition 10 (A) of IAFW-2249. In case as per the result of independent test, the cement is found to be not of requisite standard despite manufacturer's test certificate, the contractor shall remove the total consignment from the site within 24 hrs at his own cost after written rejection order of consignment by the GE.

5.3.7.1 The record of random 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.

5.3.7.2 The contractor shall be required to set up the adequate testing facilities at site to the entire satisfaction of GE for conducting setting time test and compressive strength test as per IS codes referred to here-in-before for the samples collected from the lot brought at site. These tests shall be carried out within 7 days of receipt of cement at site. The test can alternatively be carried out at the Zonal laboratory,

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or any other recognized laboratory so designated by GE. The contractor shall be allowed to use the cement only after satisfactory compressive strength of 7 days. 7 days strength will be relied upon to accept the lot of cement; 28 days compressive strength test will be final criteria to accept / reject the lot.

5.4 STORAGE

Cement shall be stored over dry platform at least 20 cm high in such a manner as to prevent deterioration due to moisture or intrusion of foreign matter. In case of store room, the stack shall be at least 20 cm away from floors and walls. The stacking of cement shall not be more than 10 bags high. It shall be ensured that tested and untested cement are segregated and stored separately with distinct identification.

5.5 DOCUMENTATION : The contractor shall submit original vouchers from the main producers / manufacturers for the total quantity of cement supplied under each consignment to be incorporated in the work. All consignment received at the work site shall be inspected by the GE along with the relevant documents before acceptance. The original vouchers and the test certificates 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 control number recorded in the cement acceptance register. The cement acceptance register will be signed by the JE (Civil), Engineer-in-Charge, GE and the contractor. The Accepting officer may order board of officer for random check of cement and verification of connected documents. The entire quantity of all cement shall also be suitably recorded in the measurement book for record purpose before incorporation in the work and shall be signed by the Engineer-in-charge and the Contractor.

5.5.1 Identification of cement bags by the manufacturer shall be as per relevant BIS codes.

5.5.2 The entire lot of cement brought by Contractor to the site shall be removed by contractor under his own arrangements and at his own cost, whenever the test results are not found within the prescribed acceptable limits. Decision of GE in this respect shall be final and binding.

5.6 The proper accommodation for storage, preservation and maintenance of cement shall be provided by the contractor at his own cost till consumption of cement in the work at the place (s) decided by GE. All arrangement for proper storage and safely of cement as indicated here-in-before shall be made by Contractor at his own cost. The cement storage accommodation shall be provided with two locks at each door. The key of one lock at each door shall remain with the Engineer-in-Charge or his representative and that of other lock shall remain with the contractor's authorized agent at site of works so that cement is removed from the godown/storage accommodation according to daily requirement with the knowledge of both the parties.

5.6.1 Schedule of supply of cement shall be worked out by Contractor in consultation with GE so as to match with the progress contemplated in CPM Chart prepared for this Project.

5.7 WEIGHING AND PAYMENT FOR CEMENT

5.7.1 Random samples of 5 bags per 100 bags shall be got weighed by Engineer-in-Charge in presence of representative of Contractor from each consignment to arrive at average weight per bag for calculating total quantity of cement brought at site for incorporation in the work. All arrangement for weighing of cement bags including labour etc shall be provided by the contractor at his own cost.

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5.7.2 The quantity of cement arrived at as aforesaid shall be considered for payment as applicable in accordance with IAFW-2249, General Conditions of Contracts.

5.7.3 Payment for cement shall only be allowed after production of original purchase vouchers, manufacturer's test certificates for each consignment of cement brought by contractor and after the results of random testing carried out by GE are found satisfactory as specified here-in-before.

5.8 **SCHEDULE OF SUPPLY**

The contractor shall procure the cement timely as required in accordance with CPM network agreed between GE and the contractor. 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.

5.9 **MEASUREMENT AND PAYMENT OF CEMENT**

5.9.1 The entire quantity of cement as brought at site, from time to time shall also be suitably recorded in the Measurement book for record purposes as 'Not to be abstracted' before incorporation in the work and shall be signed by the Engineer-in-Charge and the contractor.

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

5.9.3 For the purpose of pricing deviations for the items involving cement the rates given in MES SSR shall be applicable.

5.10 **SPECIFICATION FOR NOMINAL MIX CONCRETE :**

5.10.1 **CEMENT**

(a) Cement shall be as per clause No 4.3 here-in-before.

5.10.2. **AGGREGATES**

(a) Aggregates shall conform to both IS-383 of 1970 and IRC-29 of 1968. Aggregate shall be non porous, hard strong, durable clean and free from various impurities and adherent, coating and shall not contain any deleterious materials exceeding the limits specified in the above referred IS/IRC. When required by E.I.C. the contractor shall at his own expense to carry out any test laid down in both IS-383 of 1970 and IRC-29 of 1968 to verify that the aggregate comply with the requirements of the IS/IRC. The test will be carried out in any laboratory approved by the GE.

(b) Coarse aggregate shall consist of crushed stone aggregate.

(c) Fine aggregate shall consist of naturally occurring coarse sand. Fine aggregate shall conform to Zone II of table IV of IS-383.

(d) Sample of the aggregate proposed to be used shall be approved by the GE prior to bulk delivery of the same at site of work. Field test for determining the contents of salt loam clay etc for fine aggregate shall be carried out by the E.I.C from time to time to ensure that materials brought at site are in conforming with the samples approved by the GE.

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(e) **GRADING OF AGGREGATES:** The grading of coarse and fine aggregate grading Zone II. The grading of coarse and fine aggregate shall be checked as frequently as possible. The frequency for the aggregate testing shall be determined by Engineer-in-Charge to ensure that the specified grading is being maintained.

5.10.3 **TRANSPORTING, PLACING, COMPACTION :** Transporting placing in position and compaction of concrete shall be carried out all as specified in clause 4.11.9 to 4.11.11.1 of MES SSR Part-I.

5.10.4 **MIXING AND COMPACTION OF CEMENT CONCRETE**

(a) All cement concrete shall be mixed in an approved mechanical mixer. Mixing of concrete shall all as per clause 4.11.5 on page 4-9 of MES SSR Part I (2009).

(b) All RCC work shall be thoroughly compacted with approved mechanical vibrators except where not practicable in the opinion of the Engineer-in-Charge. RCC in slab shall be compacted with plate/surface vibrated and needle/pin vibrators in beams/columns etc.

6. **TYPE OF ELECTRIC SUPPLY:-**

6.1. Type of electric supply will be AC-240 / 415 volts single/ three phase and 50 Hz.

6.2 **POINT WIRING:-**

Point wiring shall be with PVC insulated / unsheathed multi stranded copper / Aluminium cable as indicated in Sch `A' drawn through PVC casing and capping /conduit.

7. **PVC INSULATED SINGLE CORE 1100 VOLTS GRADE CABLE**

7.1 The conductor shall be of copper wires. Cables shall be as specified in Schedule 'A' and shall conform to IS-694 and 8130 and shall be ISI marked IS- 694.

7.2 **CONDUIT WIRING**

7.2.1 The system of wiring shall consist of PVC insulated and PVC un-sheathed copper conductor/PVC insulated copper conductor in stove enameled steel/PVC conduit/PVC casing-N-capping as specified in Schedule 'A'.

7.2.2 Prior to laying and fixing of conduits/PVC casing-capping the contractor shall carefully examine the building, satisfy himself about the sufficiency of number and sizes of conduits, location of junction boxes, sizes and location of switch boxes and other relevant details.

7.2.3 Joint between conduits/PVC casing-capping and accessories shall be securely made to ensure earth continuity.

7.3 **RIGID PVC CONDUIT/PVC CASING, CAPPING AND ACCESSORIES**

Conduit/PVC casing-capping and accessories shall conform to relevant Indian Standards. Each length of rigid PVC conduit/PVC casing-capping and accessories shall be marked with the following:-

- (a) Manufacturers name or trademark
- (b) Nominal size of the conduit
- (c) ISI certification mark

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- 7.3.2 Inspection type conduit/PVC casing-capping fittings such as inspection boxes, drawn boxes, bends, elbows and tees shall be so installed that they can remain accessible for such purposes as to withdrawal of existing cables or the installing or additional cables.
8. **SCREWS, FASTENING AND NAILS:-**
- 8.1 All screws used in the work shall be chromium plated iron screws unless otherwise indicated.
- 8.2 Clips or wiring shall be of aluminium, of the gauge as approved by Engineer-in-Charge.
- 9.1 **SWITCHES/SOCKET OUTLETS 3 PIN 5 AMPS SP/6 PIN 15 AMPS**
Switch/socket outlets shall be provided as specified in clause 19.114.1 and 19.114.5 of MES SSR Part-I. Switches and sockets outlets shall be ISI marked. Switches – IS-3854, Socket outlet- 1239-1988.
- 9.2 **CEILING ROSE** :- Ceiling rose shall be surface type and shall comply with IS : 371-1979 and specification as specified in clause 19.32 of SSR Part-I (2009).
10. **FLEXIBLE CORD**
Flexible cord shall be used for connecting the fan, light points and pendants. The wire used shall be twin core, tinned enameled stranded copper conductor elastomer insulated of nominal cross section not less than 0.5 Sqmm.
11. **BULK HEAD FITTINGS:-**
Bulk head CFL light fittings shall be all as specified in Sch A and SSR Pt I.
12. **DISTRIBUTION BOARDS:-**
Distribution boards shall be Factory made double door type fabricated out of 1.2 mm th CRCA sheet all as indicated in Sch A and specified in SSR Pt I, (2009).
- 13.0 **MINIATURE CIRCUIT BREAKER:-**
- 13.1 Miniature circuit breakers shall conform to IS – 8828 of 1996, specification for miniature circuit breakers for AC circuits for voltage not exceeding 1000 Volts.
- 13.2 **MCBs ISOLATORS** :- All MCB type isolators shall conforming to IS-13947 Part-3, 1993 and shall be suitable for impulse voltage of 6 KV and short time with stand capacity of 1000 amps for 0.3 seconds.
- 13.3 **PLUG AND SOCKET DBs** :- Plug and socket distribution boards including SP/DP MCBs for protection of appliances like window type/ split type air conditioners and geysers shall only be provided. All these plug and socket DBs shall be of universal mounting type.
- 13.4 **MOULDED CASE CIRCUIT BREAKERS (MCCBs)**:- Moulded case circuit breakers (MCCBs) shall be suitable for operational voltage of 415 V, AC, 50 Hz, 3 Phase, 4 Wire system for a rated current and ultimate breaking capacity and it shall conform to IS : 13947 (Part-3, 1993) and IEC- 60947 (Part-2) and specification as specified in clause 19.100.14.2 to 19.100.14.7 of SSR Part-I (2009).

PARTICULAR SPECIFICATIONS**14. LED LIGHT FITTINGS/SECURITY LIGHT FITTINGS/FLAME PROOF LIGHT FITTINGS :-**

14.1 LED Light fittings shall be of the makes as specified in BOQ/List of make mentioned in Appendix 'C'. Unit rates for various fittings shall be deemed to include for fixing the fittings and connecting complete with necessary connections, cable etc as directed by Engr-in-charge.

14.2. **TESTING** :-After installation of equipment all tests as per latest IS shall be carried out by contractor to the entire satisfaction of Engineer-in-Charge without any extra cost to the Govt.

14.3. GUARANTEE AND MAINTENANCE

14.3.1 The equipment installed (after satisfactory completion of all test specified in the contract document and taking over) shall be deemed to be guaranteed by the contractor for efficient performance for Twenty Four Months from the certified date of completion of work. In case of any fault arising during this period, the contractor will do the rectification/replace the defective parts as the case may be at his own expense. A fresh guarantee for further period of 24 months from the date of rectification/replacement of such items shall be furnished by the contractor. The defects liability period referred to in condition 46 of IAFW-2249 (General Condition of contract) for purpose of this contract, shall be deemed to be included in this period covered by the guarantee given by the contractor.

14.3.2. An amount equal to 2.5% worked out at his quoted rates of contract agreement shall retained till completion of defects liability period. The same shall be released only after completion of defect liability period. In case the contractor has fails to rectify the defects notified to him during defect liability period GE has right to rectified by defects at the risk and cost of the contractor.

14.3.3 Contractor allowed to submit FDR drawn in favour of GE (A) Jaisalmer from any schedule bank in lieu of retention money as mentioned here-in-before at clause 30.3.2.

14.4. **PUCHASE VOUCHER**:- The original purchase vouchers and test certificate shall be produced by the contractor to Engineer-in Charge. The Engineer-in-Charge shall verify the purchase voucher and test certificate with respect to material brought at site by the contractor and shall deface the original purchase vouchers and test certificate and copy thereof shall be kept on record by the Engineer-in-Charge for further verifications.

15. **LT CABLE**:- All LT cables shall be of 2/3/3 ½ or 4 Core aluminum conductors, XLPE insulated heavy duty and suitable for 1100 volts grade and conforming to IS- 7098 (Part-I – 1988) and other specification mentioned in clause No. 19.19.2.2 to 19.19.2.4 of SSR Part-I (2009).

16. TAKING OVER ARTICLES BY CONTRACTOR AND HANDING BACK TO MES ON COMPLETION

16.1 The contractor shall draw the articles required to be repaired from Engineer-in-Charge and shall give a receipt to Engineer-in-Charge in token of his having received the articles for the execution the work. On completion of work, the contractor shall hand over the completed articles back to the Engineer-in-charge and obtain a receipt from him to that effect.

17. REPAIR WORK

17.1 Repair/Rewinding of equipments/machinery will be undertaken by the contractor in the MES E/M store yard of AGE E/M Jaisalmer or at site/premises .Necessary space/room will be made available by AGE E/M Jaisalmer in his store yard/Office area for repair/rewinding of equipments/machinery. In

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no case the contractor will be allowed to take the fans out of defense area for any repair/replacement of unserviceable items. The contractor shall responsible for article issued to him for repair/replacement which in his custody. In case of damage or loss of articles which in the custody of the contractor, panel recovery shall be effected from the contractor at double the prevailing market rate as decided by the GE and decision of the GE shall be final and binding on the contractor.

17.2 The contractor shall take out old material which shall be replaced by contractor during repair work and shall remove the same as directed by the Engineer-in-charge before proceeding with repair work. On completion of the individual items the contractor shall hand over all the articles duly repaired to the Engineer-in-Charge and obtained receipt in token of acceptance thereof.

17.3 The contractor will maintained two register indicating the details of the servicing of fans carried out various locations vis-à-vis (i) Locations (ii) Bldg No/Qtr No (iii) MES No/SI No of fan (iv) signature of the occupant/user indicating Rank, Name, Unit of the occupant.

Note :- (The register will be deposited on fortnightly basis in rotation to the Engineer-in-charge while the second register will be operative with the contractor to enable the Engineer-in-charge to check at site).

18. **BEARING**

Bearing used in this work shall be any of the following make :-

(a) NBC (b) SKF (c) NATIONAL

19. **PAINT**

19.1 The contractor shall use synthetic enamel paint from any of the following brand and shall be purchased from manufacturers authorized dealer in sealed container. The paint shall be applied by spray all as directed by Engineer-in-Charge and as described in Sch 'A' :-

(a) Berger (LUXAL) (b) Asian Paint (APCOLITE) (c) Johnson & Nicholson (BROLAC) (d) Shalimar (SUPERLAC) (e) Godless Nerolac (NEROLAC).

20. **WINDING WIRE** :- The winding wire of thermal class 'E' and one of the following makes shall be incorporated in the work :- Devidayal/ Swan/ Chetak/ Mukati/ Usha

21. **TESTING**

21.1 All the equipment/machine repaired under this contract will be tested for continues running for 24 hours at full load for satisfactory performance before the item/work is accepted. Any defects noticed at the time of testing shall be made good by the contractor without any extra payment whatsoever. For testing of equipment, electricity will be provided by the department at free of cost.

22. **MAKES OF MATERIALS**

Makes of materials shall be as given in Appendix 'C'. The contractor shall provide these materials from one of the manufacturers only.

23. **DEMOLITION AND DISMANTLING**:-

23.1. Before handing over the buildings to the contractor a joint inspection by Engineer-in-charge and contractor shall be carried out and the inventories of all fittings / fixtures shall be prepared and signed by the both parties.

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23.2. Taking down items shall be carried out carefully without damaging any part of the building / structures which are to be intact any damages caused to the buildings v/ structures shall be made good by the contractor without any extra cost to the Govt.

24. EARTHING

24.1 All the non current carrying metal parts of electrical installation shall be earthed properly. All metal conduits, cable sheaths, switch gear, distribution board, light fittings, MS boxes and alloying parts made of metal shall be bonded together and connected by means of earthing conductors to an efficient earthing system. All earthing shall be in conformity with IE Rules.

22.2 Neutral conductor, pipe conveying water, structural steel work, metallic enclosures, metallic conduits and lightening protection system conductors shall not be used as means of earthing an installation of even as a link in an earthing system. The electrical resistance measured between earth connection at the main distribution board and any other point on the completed installation shall be low enough to permit the passage of current necessary to operate circuit breakers and shall not exceed phase current. All metal clad switches and other equipment carrying single phase current, shall be connected to earth by a single connection. All metal clad switches, carrying medium voltage shall be connected with earth by two separate and distinct connections.

24.3 No earth pit shall be made within 2.0 metre of a wall or foundation. Effort shall be made to locate in grass lawns or near flower beds or water taps. The distance between two earthing pits shall be at least 2 metres.

24.4 **RCC COVER FOR EARTH PIT:-** RCC cover for earth pit shall be 40 mm thick mix of concrete for cover shall be M-25 design mix using 20 mm graded crushed stone aggregate and reinforced with 8 mm dia high strength deformed TMT steel bars @ 100 mm c/c both ways. Handle shall be of 8 mm dia high strength deformed TMT steel bars and shall be fixed in such as way that the gap between cover and handle is at least 150 mm.

24.5 Concrete chamber shall be PCC (1:3:6) type C-1. All internal surfaces of the chamber shall be given 15 mm thick plaster in cement mortar (1:4). Funnel in chamber shall be made out of GI sheet. It shall be leak proof and provided with wire gauge duly soldered.

24.6 Charcoal dust and salt filling shall be done in layers as shown in electrical plate. Surplus soil shall be disposed off and site left clean and tidy on completion.

25. TESTING

25.1 The installation after completion of work shall be tested for following:-

(a) Insulation Resistance

(i) The insulation resistance shall be measured by applying between earth and the whole system of conductor or any section thereof with all fuses in

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place and all itches closed, and except in earthed concentric wiring, all lamps in position or both poles of installation otherwise electrically connected together, a, DC voltage of not less than twice the working voltage, provided that it does not exceed 500 volts for medium voltage circuits. Where the supply is derived from three-wire (ac or dc) or a poly-phase system the neutral pole of which is connected to earth either direct or through added resistance the working voltage shall be deemed to be that which is maintained between the outer or phase conductor and the neutral.

(ii) The insulation resistance in megohms of an installation measured as in (i) shall be not less than 50 divided by the number of points on the circuit, provided that the whole installation need not be required to have an insulation resistance greater than one mega ohm.

(iii) Control rheostats, heating and power appliances and electric signs, may, if desired, be disconnected from the circuit during the test, but in that event the insulation resistance between the case or frame work, and all live parts of each rheostat, appliance and sign shall be not less than that specified in the relevant Indian Standard specification or where there is no such specification shall be not less than half a megohm.

(iv) The insulation resistance shall also be measured between all conductors connected to one pole or phase conductor of the supply and all the conductors connected to the middle wire or to the neutral on to the other pole of phase conductors of the supply. Such a test shall be made after removing all metallic connections between the two poles of the installation and in these circumstances the insulation resistance between conductors of the installation shall be not less than that specified in (ii) above.

(v) On completion of an electric installation (or an extension to an installation) a certificate shall be furnished by the contractor, countersigned by the certified supervisor under whose direct supervision the installation was carried out. This certificate shall be in a prescribed form as required by the Engineer in charge.

(b) Testing of Earth Continuity Path:- The earth continuity conductor including metal conduits and metallic envelopes of cable in all cases shall be tested for electrical continuity and the electrical resistance of the same along with the earthing lead but excluding any added resistance or earth leakage circuit breaker measured from the connection with the earth electrode to any point in the earth continuity conductor in the completed installation shall not exceed one ohm.

(c) Testing of Polarity on Non-linked, Single-Pole Switches

(i) In a two wire low voltage installation, a test shall be made to verify that all non-linked, single-pole switches have been fitted in the same conductor throughout and that such conductor has been connected to an outer or phase conductor or to the non-earthed conductor of the supply.

(ii) In a three-wire or four-wire installation, a test shall be made to verify that every non-linked, single pole switch is fitted in a conductor connected to one of the outer or phase conductor of the supply.

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- 25.2 The test shall be carried out in the presence of the Engineer-in-Charge and shall be signed by Engineer-in-Charge and the contractor. Three copies of test sheet shall be submitted by contractor. In case the earth result does not fall within the specified limit, as mentioned in IS/IE Rules, the contractor shall dig earth pit beyond 2.5 metres deep to obtain the desired earth results.
- 25.3 All testing instruments labour, materials and incidentals necessary to conduct the test shall be arranged by the contractor at his own cost.
26. **GALVANISED IRON PIPE**:-Galvanized iron pipe shall be as specified in Sch 'A' and conforming to IS 1239.
27. **LT INSULATORS**
These shall be vitreous white in colour and shall conform to IS-1445 and shall be free from any
28. **SITE CLEARANCE :-** After completion of the work the site is to be cleared from all debris waste materials & spoils etc obtained from the site & spoils etc to be deposited at the place all as directed by Engineer-in-charge upto his entire satisfaction.

PARTICULAR SPECIFICATIONS**Appendix 'A'****SOURCES OF MATERIALS**

Ser No	Name of materials	Name of sources
1	2	3
1.	Coarse stone aggregate for cement concrete	Jazia / Moolsagar
2.	Coarse Sand for masonry	Jazia / Moolsagar
3.	Fine aggregate (Sand) for all works	Jazia / Moolsagar
4.	Stone for stone masonry	Mool Sagar

NOTES

- 1 Sources indicated above are for guidance only. The contractor may at his discretion procure materials from other sources without any extra cost to Govt provided they conform to / are superior to the samples of materials kept in AGE's office and source is approved by GE.
- 2 Sources of materials shall be as given as above or in the vicinity there of. The tenderer shall ascertain the actual position / exact location of source before submitting his tender and no additional payment shall be made on account of misunderstanding for its distance from site of works.
3. The tenderer shall amongst other things also ascertain all information such as royalties, taxes, duties and other charges etc, on the materials and no additional payment shall be made on account of the foregoing.
4. However, if due to any ban imposed by the state Govt authority on obtaining the materials from the sources specified above and or specified materials is not available at the sources mentioned above these materials conforming to specifications as given in particular specifications will be procured from any other place/source after getting the same approved from GE in writing and without any extra cost to Govt.

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PARTICULAR SPECIFICATIONS**APPENDIX 'B'****LIST OF BIS CERTIFICATE NOS OF VARIOUS PRODUCTS**

List of BIS Nos are given below for various items. Items for which Makes are not specified in Appendix 'C' shall be procured from any manufacture holding valid CML No

1. CONCRETE:

- (a) Plywood for concrete shuttering work (IS-4990-1981)
- (b) White Portland cement (IS-8042-1978)

2. WATER SUPPLY PLUMBING, DRAINS AND SANITARY APPLIANCES:

- (a) Concrete to pipes with or without reinforcement (IS:458-1971)
- (b) Salt glazed stone ware pipes and fittings (IS:651-1980)
- (c) Flushing cistern for water closets and urinals other than plastic (IS:774-1984)
- (d) Galvanised mild steel tubes (IS:1239 Part I-1979)
- (e) Cast copper alloy screwed down bib taps and stop valves (IS:781-1984)
- (f) Galvanised mild steel tube fittings (IS:1239 Part-II-1982)
- (g) Sand cast iron spigot and socket soil, waste and ventilating pipes and fittings (IS:1729-1979)
- (h) Ball valves (Horizontal plunger type) including floats for Water supply "purposes (IS: 1703-1977)
- (i) Cast iron manhole covers and frames (IS:1726-Part-I to VII-1974)
- (j) AC pressure pipes (IS:1592-1980)
- (k) Automatic flushing cisterns (IS:2326-1987)
- (l) Vitreous china sanitary appliances
 - (i) Wash down water closets (IS:2556-1981 Part-II)
 - (ii) Squatting pans (IS:2256-1981 Part III)
 - (iii) Wash basins (IS:2556-1972 Part IV)
 - (iv) Laboratory sinks (IS:2556-1979 Part V)
 - (v) Urinals bowl type (IS:2556-1979 Part VI Section I)
 - (vi) Foot rests (IS:2556-1974 Part X)
 - (vii) Plastic WC seats and covers (IS:2548-1983)
 - (viii) Vertically cast iron pressure pipes for water, gas and sewage (IS:1537-1976)
 - (ix) Pillar Taps (IS:1795-1982)
 - (x) Centrifugally cast(spun) iron pressure pipes for water, gas and sewage (IS:1536-1979)
- (xi) Centrifugally cast(spun) iron spigot and socket soil, water and ventilating pipes, fittings and accessories (IS:3989-1984)
- (xii) Rubber sealing rings for gas mains, water mains and sewage (IS:5382-1985)
- (xiii) Cast Iron fittings for pressure pipes for water, gas and sewage (IS:1538-1976) Part II to XXIV
- (xiv) Sluice valves (TS:780-1969)

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3. ELECTRICAL WORKS:

- (a) Ceiling rose (IS:371-1979)
- (b) Tumbler switches (IS:3854-1966)
- (c) Socket, outlet 3 pin plug and socket (IS:1293-1988)
- (d) Switch fuses (Main switch) (IS:4064-1978, Part I & II)
- (e) Rigid steel conduits (IS:9537-Part II-1988)
- (f) Single core cable polyethylene insulated and PVC sheathed cable (IS: 1596-1977)
- (g) Rigid non metallic conduit (IS:9537 – 1983 Part III)
- (h) Starter for tube light (IS:2215-1983)
- (i) Fluorescent lamps (IS:2418-1977 Part I to Part IV)
- (j) Aluminium stranded conductor (IS:398-1976-Part -I& II)
- (k) Switch gear (IS:2268-1969)
- (l) HRC cartridge fuse links up-to 650 volts (IS:9224-1979-Part II)
- (m) Porcelain insulators for overhead power lines (IS:731-1971)

PARTICULAR SPECIFICATIONS**APPENDIX 'C'****LIST OF MAKES/MANUFACTURERS**

SL NO	DESCRIPTION OF ITEM	LIST OF MAKES/BRANDS/MANUFACTURERS
1	2	3
1	LT CABLE, XLPE, PVC INSULATED COPPER/ ALUMINUM WIRES & CABLE 650/1100 V OF ALL TYPE	1 PLAZA 2 FINOLEX 3 ANCHOR 4 HAVELLS 5 NICCO 6 RPG 7 SBEE CABLES (INDIA) LTD 8 KEI INDUSTRIES 9 M/S VIN POWER ELECTRO PRODUCT 10. M/S SEEWEL POWER INDUSTRIES, NEW DELHI 11. M/S SS CABLE INDUSTRIES
2	LED LAMPS/TUBE LIGHTS/ HIGH BAY LIGHT/FLOOD LIGHTS/STREET LIGHTS/ FAÇADE LIGHTS/ BOLLARDS/ POST TOP/ STEP LIGHT/ AVIATION LIGHT/DOWN LIGHTS/SEARCH LIGHT/COMMERCIAL LIGHTS/ LANDSCAPE/INDUSTRIAL/AREA LIGHTING/ PANEL LIGHTING	1 BAJAJ ELECTRICAL LTD 2 PHILLIPS 3 WIPRO 4 CROMPTON 5 HALOXIS TECHNOLOGIES PVT LTD 6.CROMPTON GREAVES (CONSUMER ELECTRICAL) 7 JAQUAR (LIGHTENING SOLUTIONS) 8 LUKER ELECTRIC 9 ORIENT ELECTRIC 10. FORTUNE ARRT 11 SYSKA LED LIGHTS 12 HAVELLS 13 SURYA ROSHNI 14 GOLD MEDAL ELECTRICAL PVT LTD
4	FAN REGULATORS	1 M/S ANCHOR 2 M/S HAVELLS INDIA LTD 3 M/S BAJAJ 4 M/S USHA 5 M/S KHAITAN 6 M/S GEC 7 M/S LEGRAND 8 M/S LIVELINE ELECTRONICS
5	ELECTRONIC TYPE FAN REGULATOR	1 M/s LEGRAND 2 M/s CROMPTON 3 M/S HAVELLS INDIA LTD 4 M/s BAJAJ 5 M/s ORIENT 6 M/S V GUARD 7 M/s POLYCAB
6	ELECTRIC ACCESSORIES, PIANO SWITCHES, CELING ROSE, CALL BELLS, BUZZERS, LAMP	1 M/S ANCHOR 2 M/S CRABTREE 3 M/S LEADER

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SL NO	DESCRIPTION OF ITEM	LIST OF MAKES/BRANDS/MANUFACTURERS
1	2	3
	HOLDERS	4 M/S LEGRAND INDIA LTD 5 M/S GOLD MEDAL ELECTRICALS PVT LTD
7	MS CONDUIT	1 M/S BEC INDUSTRIES 2 M/S KALINGA TUBES 3 M/S JINDAL 4 M/S BHARAT 5 M/S AKG CONDUITS PIPE
8	PVC CONDUITS (RIGID OR FLEXIBLE) FRLS RIGID PVC CONDUITS/FITTINGS	1 M/S ANCHOR 2 M/S MODI 3 M/S PRESSFIT PIPE & PROFILE 4 M/S PRECISION 5 M/S ASTRAL LTD 6 M/S AVON PLASTIC INDUSTRIES
9	CASING CAPPING & ACCESSORIES	1 M/S PRECISION 2 M/S MODI 3 M/S PRESTO PLAST 4 M/S PLAZA
10	FLAME PROOF LIGHT FITTINGS	1. M/S SUDHIR 2 M/S BALIGA 3 FLEXPRO ELECTRICALS, NASIK 4 M/S SHYAM SWITCHGEARS, MUMBAI 5 BAJAJ 6 M/S CROMPTON
11	DBs/MCB/ MCCB/RCCB	1 LARSEN & TUBRO 2 LEGRAND 3 ABB 4 SIEMENS 5 SCHNEIDER 6 C&S LIMITED 7. INDO-ASIAN 8. LUKER ELECTRIC 9. ORIENT ELECTRIC 10 HAVELLS 11. GOLD MEDAL ELECTRICAL PVT LTD 12 BCH
12	MODULAR SWITCHES/ SOCKETS	1 ANCHOR ROMA 2 LEGRAND 3 CRABTREE 4 C&S ELECTRICAL LTD 5 INDO-ASIAN 6 GOLD MEDAL ELECTRICALS PVT LTD 7 HAVELLS
13	MAINTENANCE FREE EARTHING SYSTEM	ERICO / ALTEC
14	TERMINAL STRIP	CONNECT WELL / ELMEX

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SL NO	DESCRIPTION OF ITEM	LIST OF MAKES/BRANDS/MANUFACTURERS
1	2	3
15	EARTH ELECTRODE	M/S KAPILANSH, ASHLOK, JMV
16	GALVANIZED IRON (GI) PIPES & FITTINGS	1 TATA 2 JINDAL 3 ZENITH 4 SWASTIK 5 PRAKASH 6 APL APOLLO TUBES LTD
	<u>Note :-</u> (i) Any other make approved by the E-in-C Branch or any Commands/ADGs shall be deemed to have PAN-INDIA Approval. (ii) It will be insured by the GE that validity of the approval of the make is not expired from the bid submission end date.	

Signature of Contractor

AGE (Contracts)