CA NO : CWE KOTA/ALW-53 OF 2018-19 Srl Page No : 01

**NAME OF WORK : SPECIAL REPAIR/REPLACEMENT OF LT ELECTRIC O/H LINES INTO LT UNDERGROUND CABLE IN CERTAIN UNIT AND JCOs/OR MD ACCN AREA OF CERTAIN UNIT AT ITARANA ALWAR**

**CONTENTS**

|  |  |  |
| --- | --- | --- |
| **S No** | Description | Page No |
|  |  |  |
| 1. | Contents | 01 |
| 2. | Forwarding letter | 02 & 03 |
| 3. | Instructions to tenders | 04 to 06 |
| 4. | Notice of tender IAFW – 2162 (Revised 1960) and amendments thereto | 07 to 15 |
| 5. | E-Tender and item rate contract for work by measurement IAFW – 1779-A (Revised 1955) | 16 to 34 |
| 6. | General conditions of contracts IAFW- 2249 (1989 Print) including, Errata/Amendments thereto | 35 to 85 |
| 7. | Schedule of Minimum fair wages | 86 to 99 |
| 8. | Special conditions | 100 to 110 |
| 9. | (a) Particular specifications | 111 to 118 |
|  | (b) Source of materials | 119 |
| 10. | Appendix ‘A’ to ‘D’ | 120 to 123 |
| 11. | Errata and Amendment |  |
| 12. | Relevant Correspondence |  |
| 13. | Acceptance letter |  |
|  | Total Pages |  |

Enclosures: (NIL Drawings)

……………………………..

(Signature of Contractor) DCWE (Contracts)

For Accepting Officer

Dated : ……………….. 2018

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 02

**REGISTERED /ACK DUE**

🕾: 0744-2330596 Headquarters

Commander Works Engineer

Military Engineer Services

Dadwara, Military Station Kota

Kota (Raj)-324002

81469/ALW/ 07 /E8 02 Nov 2018

M/s …………………………

………………………………...

…………………………………

**TENDER DOCUMENTS FORWARDING OF : NAME OF WORK : SPECIAL REPAIR/ REPLACEMENT OF LT ELECTRIC O/H LINES INTO LT UNDERGROUND CABLE**

**IN CERTAIN UNIT AND JCOs/OR MD ACCN AREA OF CERTAIN**

**UNIT AT ITARANA ALWAR**

Dear Sir (s),

1. Tender documents in respect of above work are uploaded on the site [www.defproc.gov.in](http://www.eprocuremes.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) and as amended subsequently on e-tendering portal i.e.** [www.defproc.gov.in](http://www.eprocuremes.gov.in) for subject work. 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 authorized representatives, who have uploaded their quotation bid and who wish to be present at the time of opening the bids.

4. Your attention is also drawn to instruction on filling and submission of tender attached herewith. You may submit 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 **12 Nov 2018**. You are also requested not to write piece meal points and submit your points duly consolidated on or before above date.

5. Un-enlisted contractors are required to submit the scanned copies (in pdf file) of documents required as per eligibility criteria mentioned in instructions for filling the tender documents 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 **HQ Commander Works Engineers, Kota** within time limit specified in NIT. Inadequacy/ deficiency of documents shall make the bid liable for rejection resulting in disqualification for opening of finance bid.

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

Contd…/-

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 03

(b) Contractor having not executed standing security bond and standing security deposit in any MES formation would be required to deposit individual security deposit on acceptance of tender which will be calculated with reference to the tendered cost as per scales laid down by MES for calculation of “EARNEST MONEY” enhanced by 25% subject to maximum of R 18,75,000/- (Rupees Eighteen Lakhs seventy five thousand only).

7. Enlisted contractors of MES shall submit the scanned copies (pdf file) of enlistment letter, tender fee and such other documents as mentioned in Appx ‘A’ to NIT on e-procurement portal and submit physical documents in the office of **HQ Commander Works Engineers, Kota** before date & time fixed for this purpose.

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

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

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

**11. ANY 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.**

Yours faithfully,

…………………………….. (K D Mandal)

(Signature of Contractor) EE (QS & C) (SG)

Dated: ……………… DCWE (Contracts)

For Accepting Officer

***Encls*:**- (One set of tender documents detailed on Index page)

**Copy to**: -

GE Alwar

Internal Distribution

E-2 Section

E-4 Section

CA NO : CWE KOTA/ALW-53 OF 2018-19 Srl Page No : 04

**INSTRUCTIONS ON FILING AND SUBMISSION OF TENDER**

1. **EARNEST MONEY DEPOSIT (EMD)**

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

(a) Deposit at Call Receipt from a Scheduled Bank in favour of Garrison Engineer concerned.

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

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

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

2. **SECURITY DEPOSIT**

In case the tender/bid submitted by such contractor who is not enlisted with MES is accepted the contractor will be required to lodge with the Controller of Defence Accounts INDIVIDUAL SECURITY DEPOSIT calculated with reference to tendered cost as notified by the Accepting Officer subject to a maximum of **R** 18,75,000/-. The amount is required to be lodged within 30 (Thirty) days of the receipt by the contractor of notification of acceptance of tender/bid, failing which the sum shall be recovered from the 1st RAR payment or from the Final bill (See Condition 22 of GCC) IAFW-2249)).

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

In case the tender/bid in accepted, the amount of Additional Security Deposit will be as notified by the Accepting Officer. The amount will be the difference between the “Individual Security Deposit” calculated with reference to the “TENDERED COST” and ‘Standing Security Deposit’ lodged. The amount is required to be lodged within 30 (Thirty) days of the receipt of the contractor of notification of acceptance of tender/bid, failing which the sum shall be recovered from the 1st RAR payment or from the final bill (Refer Condition 22 of GCC (IAFW-2249).

4. **CONTRACTORS ENLISTED IN MES FORMATIONS OTHER THAN CE SOUTH WESTERN COMMAND**

Contractors whose names are on the approved list of any MES formation i.e other than CE South Western Command and who have deposited Standing Security and have executed Standing Security Bond may tender/bid without depositing Earnest Money with the bid and if the Accepting Officer decides to accept the tender/bid, such tenderers will be required to lodge Security Deposit as notified by the Accepting Officer. The amount is required to be lodged within 30 (Thirty) days of the receipt of the contractor of notification of acceptance of tender/bid, failing which the sum shall be recovered from the 1st RAR payment or from the Final bill.

Contd…/-

CA NO : CWE KOTA/ALW-53 OF 2018-19 Srl Page No : 05

**INSTRUCTIONS ON FILING AND SUBMISSION OF TENDER (Contd…..)**

5. **GENERAL INSTRUCTIONS FOR COMPLIANCE**

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

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

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

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

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

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

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

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

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

Contd…/-

CA NO : CWE KOTA/ALW-53 OF 2018-19 Srl Page No : 06

**INSTRUCTIONS ON FILING AND SUBMISSION OF TENDER (Contd…..)**

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

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

5.12 The tenderer/bidder shall quote his rate on the latest BOQ (Revised if any) file only. In case the BOQ is revised by the Department and the bidder has failed to quote in revised BOQ (i.e. Bidder has quoted in previous BOQ), such bid shall be treated as wilful negligence by the bidder and his quotation shall be considered non-bonafide. In such cases lowest tender shall be determined by the lowest amount amongst the valid/bonafide bids only. However Accepting Officer reserves the right whether to retender or otherwise in such circumstances. Decision of Accepting Officer in this regard shall be final and binding. Contractors/bidders shall not be entitled for any compensation for such eventuality.

5.13 No alteration to the format will be accepted, else the bid will be disqualified and summarily rejected.

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

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

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

7. **CPM (CRITICAL PATH METHOD)**

7.1 The subject planning for work covered in the scope of tender in based on CPM.

7.2 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.

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

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

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

……………………………..

(Signature of Contractor) DCWE (Contracts)

Dated : ……………….. For Accepting Officer

CA NO : CWE KOTA/ALW-53 OF 2018-19 Srl Page No : 07

{In lieu of IAFW 2162 (Revised 1960)}

MILITARY ENGINEER SERVICE

NOTICE INVITING TENDER (NIT)

1. A tender is invited for the work as mentioned in Appendix ‘A’ to this **NOTICE INVITING TENDER (NIT).**

2. The work is estimated to cost as indicated in aforesaid Appendix ‘A’. This estimate, however, is not a guarantee and is merely given as a rough guide and if the work costs more or less, a tenderer/bidder will have no claim on that account. The tender shall be based on as mentioned in aforesaid Appendix ‘A’.

3. The work is to be completed within the period as indicated in aforesaid Appendix ‘A’ in accordance with the phasing, if any, indicated in the tender from the date of handing over the site, which may be on or about two weeks after the date of acceptance of the tender.

4. Normally contractors whose names are on the MES approved list for the area in which the work lies, and within whose financial category the estimated amount would fall, may tender/bid but in case of term contracts, contractors of categories ‘SS’ to ‘E’ may tender/bid. In case, where the tender amount is in excess of the financial limit of the contractor and the Accepting Officer decides to accept the tender/bid, in which event the tenderer/bidder would be required to lodge additional security deposit as notified by the Accepting Officer in tem of conditions of contract. Contractors whose names are on the MES approved list of any MES Formation and who have deposited sanding security and have executed standing security bond may also tender/bid without depositing Earnest money along with the tender/bid and if the tender/bid submitted by such a tenderer/bidder is accepted, the contractor will be required to lodge with the Controller of Defence Accounts concerned the amount of ‘Individual security deposit’ within thirty days of the receipt by him of notification of acceptance of his tender/bid, failing which this sum will be recovered from 1st RAR payment or from the first final bill. In case of term/running contracts, remaining sum shall be recovered from subsequent bill (s) of the contractor. Not more than one tender/bid shall be submitted/uploaded by one contractor or one firm of contractors. Under no circumstances will a father and his son(s) or other close relations who have business dealing with one another be allowed to tender/bid for the same contract as separate competitors. A breach of this condition will render the tenders/bids of both the parties liable for rejection.

5. The Office of HQ Commander Works Engineers Kota 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 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 from part of contract agreement in case the tender/bid is accepted.

6.2 In case of contractor who has not executed the Standing Security Bond, the Cover-1 shall be accompanied with by Earnest Money of amount a mentioned in Appendix ‘A’ in the form of deposit at call receipt in favour of concerned GE (see Appendix ‘A’) by a scheduled Bank or in receipted treasury Challan the amount being credited to the revenue deposit of the concerned GE (see Appendix ‘A’).

Contd…/-

CA NO : CWE KOTA/ALW-53 OF 2018-19 Srl Page No : 08

NOTICE INVITING TENDER (NIT) (CONTD..)

6.3 A contractor who is not enlisted for the area in which the work lies but whose name is in the MES approved list of any MES formation and who has deposited standing security and executed standing security Bond may bid without deposited earnest money along with the tender, but if the Accepting Officer accept the tender/bid, the contractor will be required to lodge with the Controller of Defence Accounts concerned the amount of “Individual security deposit’ within thirty days of the receipt by him of notification of acceptance of this tender/bid, failing which this sum will be recovered from 1st RAR payment or from the first final bill. In the case of term/running contracts, remaining sum shall be recovered from subsequently bill (s) of the contractor.

6.4 A contractor who has executed the standing security bond but not corresponding to the appropriate class category as mentioned above, shall lodge with the Accepting Officer, Additional Security Deposit as notified by the Accepting Officer within thirty days of the receipt of his notification of acceptance of his tender/bid, failing which, this sum will be recovered from first RAR payment or from the first final bill. In the case of term/running contract, remaining sum shall be recovered from subsequent bill(s) of the contractor. However, in case where any payment is made to the contractor within thirty days of receipt by him of notification of acceptance of tender/bid, the amount of additional security deposit shall be recovered from such payment.

6.5 The GE will return the Earnest Money whereas 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, bidder a certificate of the Accepting Officer that bonafide tender/bid was received and all documents were returned.

6.6 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 Security Deposit or will retain the same in part or full on account of security deposit if such a transaction is feasible.

6.7 Copies of the drawings and other documents pertaining to the work signed for the purpose of identification by the Accepting Officer or his accredited representatives, 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 GE during working hours.

7. The tenderers/bidders and advised to visit the site of work by making prior appointment with GE who is also the Executing Agency of the work (see appendix ‘A’). The 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 alternation to any conditions laid down or which propeses 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 Scheudle of Rates (see Appendix ‘A’) including amendments and errata thereto.

Contd…/-

CA NO : CWE KOTA/ALW-53 OF 2018-19 Srl Page No : 09

NOTICE INVITING TENDER (NIT) (CONTD..)

11. Invitation for e-tender does not constitute any guarantee for validation of ‘T’ bid and subsequently opening of finance bid of any applicant/bidder , even of enlisted contractors of appropriate class, merely by virtue of enclosing DD. Accepting Officer reserves the right to reject ‘T’ bid and not open the finance bid of any applicant /bidder. ‘T’ bid validation shall be decided by the Accepting Officer based on, inter alia, capability of the firm as per criteria given in Appx ‘A’ to NIT. The applicant contractor/bidder will be informed regarding non-validation of his ‘T’ bid assigning reasons thereof through the www.defproc.gov.in website. The applicant contractor/bidder if he so desires may appeal to the next higher Engineer authority viz CE Jaipur Zone on email id  [cezjpr2-mes@nic.in](mailto:%20cezjpr2-mes@nic.in) with copy to the Accepting Officer on email id [ktz3-mes@nic.in](mailto:ktz3-mes@nic.in) before the scheduled date of opening of Finance Bid. The decision of the Next Higher Engineer Authority (NHEA) shall be final and binding. The contractor/bidder shall not be entitled for any compensation whatsoever for rejection of his bid.

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 does not bind himself to accepted 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 from part of the contract.

……………………………..

(Signature of Contractor) DCWE (Contracts)

For Accepting Officer

Dated : ………………..

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 10

**APPENDIX ‘A’ TO NOTICE OF TENDER**

|  |  |  |
| --- | --- | --- |
| 1. | **Name of work.** | SPECIAL REPAIR/REPLACEMENT OF LT ELECTRIC O/H LINES INTO LT UNDERGROUND CABLE IN CERTAIN UNIT AND JCOs/OR MD ACCN AREA OF CERTAIN UNIT AT ITARANA ALWAR |
| 2. | Estimated Cost. | **R** 65.00 Lakhs |
| 3 | Period completion | 180 days |
| 4. | **Cost of tender** | **R** 1000.00 in the shape of DD/Bankers cheque from any schedule Bank in favour of GE Alwar & Payable at Alwar. |
| 5 | Website /portal address | [www.defproc.gov.in](http://www.eprocuremes.gov.in) and [www.mes.gov.in](http://www.mes.gov.in) |
| 6. | Type of contract | The tender shall be based IAFW-1779-A and IAFW-2249 with Schedule ‘A’ (list of items of works) to be priced by the tenderers. |
| 7. | Information & Details |  |
|  | (a) Published date | 02 Nov 2018 |
|  | (b) Document Download/ sale /Clarification start date | 02 Nov 2018 |
|  | (c) Clarification End date | 12 Nov 2018 |
|  | (d) Bid Submission start date (Cover 1 & Cover 2) | 22 Nov 2018 |
|  | (e) Document Download/ sale end date | 27 Nov 2018 |
|  | (f) Bid Submission end date (Cover 1 & Cover 2) | 27 Nov 2018 |
|  | (g) Bid Opening date (Cover-1) | 28 Nov 2018 |
|  | (h) Bid Opening date (Cover-2) | Will be intimated online after completion of evaluation of tech bid/application (cover-1) |
| 8 | Eligibility Criteria |  |
|  | (A) For MES enlisted contractors | All contractors enlisted with MES in class **‘C**’ and above and category **(b) (i)** shall be considered qualified provided they do not carry adverse remarks in WLR of competent engineer authority or any other specific constraints.  **(Please also refer Notes here-in-after)** |
|  | (B) For other contractors | (a) **As per Eligibility criteria given below**.  (b) Applicant contractor should not carry adverse remarks in WLR/or any other similar report of any authority. |
|  | (C) For all Contractors | Contractor will not be allowed to execute the work by subletting or through power of attorney holder on his behalf to a third party/another firm except sons/daughters of proprietor/partner/Director and firm’s own employees, Director, Project Manager. This shall be subject to certain conditions which will be prescribed in the **Notice of Tender** forming part of the tender documents. |
| 9. | Tender issuing and Accepting Officer | CWE Kota |
| 10. | Executing agency Officer | GE Alwar |
| 11. | Earnest Money | **R** **1,22,500.00** in favour of GE Alwar |

Contd…/-

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 11

**APPENDIX ‘A’ TO NOTICE OF TENDER (CONTD...)**

**NOTES :**

(A) **ELIGIBILITY CRETERIA FOR MES ENLISTED CONTRACTOR**

(i) **APPROPRIATE ENLISTED CLASS & CATEGORY**

**Class ‘C’ Category b (i).**

Note:- Contractors not enlisted in MES may also apply however, they can be considered if they meet eligibility criteria for selection of Contractors in MES for issue of tender.

(ii) **MES ENLISTED CONTRACTOR (DOCUMENTS TO BE UPLOADED)**

Scanned copy of application letter requesting issue of tender.

Scanned copy of enlistment letter in MES alongwith its enclosures

Scanned copy of Demand Draft/Bankers Cheque toward cost of tender.

Scanned copy of GST registration Number of firm.

Scanned copy of Provident Fund Code Number of firm.

(B) **ELIGIBILITY CRETERIA FOR UN-ENLISTED CONTRACTORS (AT PAR WITH MES ENLISTED ‘C’ CLASS CONTRACTOR)**

1. List of work in hand and remaining work to be completed as on date of application duly signed by contractor on an affidavit on non-judicial stamp paper of R 100/- duly notarized on the format given below :-

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ser No | CA No & Name of Work | Name and address of Accepting officer with complete postal address, contact No etc | Period of comple  tion | Date of commen  cement | Date of compl  etion | Actual date of compl-  etion | Present progress | Bal work in hand |
| (a) Completed Works  (i)  (ii) | | | | | | | | |
| (b) Work in Hand  (i)  (ii) | | | | | | | | |

(ii) Scanned copy of average annual turn over of work for last two consecutive financial year i.e. 2016-17 & 2017-18 and certificate that firm is profit making issued by Chartered Accountant shall be uploaded.

(iii) Past Experience of “similar nature of works” completed in last 5 years.

Two works costing not less than R 50.00 Lakhs

**OR**

One work costing not less than R 80.00 Lakhs

**OR**

Average annual turnover for last two consecutive financial Years shall not be less than R 100.00 Lakhs

**Note** : Please upload scanned copy of details of “similar nature of works” executed by the firm financial year wise in tabular form giving name of work, cost. Accepting Officer’s details, viz address, telephone, email etc date of acceptance of tender and actual date of completion. It should indicate whether extension was granted or compensation was levied. Attested copy of acceptance letter, copy of work order showing date of commencement & completion and completion certificate shall be enclosed of each work. In case performance report has been given by the client same shall also be submitted/uploaded duly attested.

Contd…/-

CA NO. : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 12

**APPENDIX ‘A’ TO NOTICE OF TENDER (CONTD...)**

(iv) **Financial Criteria** :- Certificate from the Bankers on requisite specimen to be furnished :-

(a) Sovent upto R 40.00 Lakhs

OR

Financially sound for engagement up to R 100.00 lakhs.

(b) Working capital not less than R 10.00 lakhs

**Note 1**. Performa of solvency certificate and working capital certificate are given below. Please upload above documents issued by Bankers. These certificates shall not be older than 6 months on prescribed date of submission of bid. Signatory shall endorse his rubber seal, indicate his name and personnel code number, bank address particulars like full address, telephone & Fax number.

2. Alternatively Wealth Tax Certificate can also be given, if available.

**FORM OF SOLVENCY CERTIFICATE FROM NATIONALIZED/SCHEDULED BANK**

This is certified that to the best of our knowledge and information M/s Shri/Smt \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ having proprietor/partners (Name of proprietor/partners) and address\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, a customer of our bank having A/C No …………………………… are/is respectable and can be considered solvent upto R \_\_\_\_\_\_\_\_\_\_\_\_ (Rupees\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)/financially sound for engagement upto R ……… (Rupees ………………………………………….). This certificate is issued without any guarantee or responsibility on the bank or any of the officers.

Place Signature

Name, Designation, personal code

Date No of signatory & Seal of Bank

**NOTE** : In case of partnership firm, certificate to include names of all partners as recorded with the Bank.

**FORM OF WORKING CAPITAL CERTIFICATE FROM NATIONALISED/SCHEDULED BANK**

This is Certified that M/s Shri/Smt \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ having proprietor/partners (Name of proprietor/partners) and address has/have been maintaining a saving Bank account/current account/fixed deposit account having A/C Nos. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ with this branch of Bank since \_\_\_\_\_\_\_\_\_ and an amount not less than R \_\_\_\_\_\_\_\_\_\_\_\_\_\_(Rupees \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) has available to credit in his /her/their accounts for last three months. The firm is enjoying over draft/credit facility up to limit of R \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. This certificate is issued without any guarantee of responsibility on the bank or any of the officers.

Place Signature

Name, Designation, personal code

Date No of signatory & Seal of Bank

**NOTE** : In case of partnership firm, certificate to include names of all partners as recorded with the Bank.

1. Minimum reserves/total of movable or immovable property or fixed assets (in case of companies) shall be R 25.00 lakhs (80% of minimum reserve/assets shall be in shape of immovable property). Please upload affidavits for immovable property indicating present market value and containing following endorsement and supported by copies of present valuation report for both immovable and movable property separately from Govt approved valuer.

Contd…/-

CA NO. : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 13

**APPENDIX ‘A’ TO NOTICE OF TENDER (CONTD...)**

(a) that the immovable property is free from mortgage, hypothecation or any other disputes and encumbrances and clearly belongs to the Contractor.

OR

That the immovable property is free from any disputes and encumbrances and clearly belongs to the Contractor. The immovable property has been mortgaged/hypothecated for R \_\_\_\_\_\_\_. Market value of immovable property as per valuation report No \_\_\_\_\_\_\_ given by Registered valuer \_\_\_\_ is R \_\_\_\_\_\_\_\_\_\_\_. Therefore balance market value of property i.e. R \_\_\_\_\_\_ (Market value minus mortgaged value) is free from any mortgage/hypothecation.

(b) that the said immovable property has not been shown for seeking enlistment of a sister concern in MES.

(c) that the said immovable property will not be sold, transferred, gifted or otherwise disposed off till completion of work.

**Note :** 1. In case of partnership firm the partner having immovable property in his name, shall also endorse the following in addition to above :-

“Irrespective of my share in partnership firm, my whole property may be utilized by the Government for realizing their dues/recovery, if the firm, fails to deposit the same”

2. Movable assets like Scooter/Car etc should be supported by certified photocopies of updated RC Books, valid current insurance papers etc.

(vi) **Minimum Engineer Establishment**

(a) One graduate Engineer from a Govt recognized institution with minimum experience 2 years.

or

(b) One diploma Engineer from Govt recognized institution with minimum experience of 04 years.

**Note :** 1. For electrical engineering works, One of the engineers employed by the contractor should be degree/diploma holder in electric Engg with requisite experience.

2. The contractor should also employ persons having valid electrical Licence from competent authority on their permanent establishment (One person for Class ‘S’ to ‘E’). For this, he will submit requisite affidavits and attested copies of Licences.

(vii) **Constitution of firm** :- Affidavit of Constitution of firm indicating status of firm i.e. whether it is proprietorship or partnership or limited firm.

**Note. Please also upload attested copy of partnership deed in case of partnership firm. Memorandum of Article of constitution in case of limited firm**.

(viii) **Certificate of relative** :- Affidavit that no near relative(s) of the contractor or their employees/agenet is/are working as Gazetted/Commissioned Officer in MES/Corps of Engineer/Ministry of Defence. If his/their near relative(s) is/are working in such capacity, he/they shall furnish details. The contractor shall not be entitled to tender for the works in entire area of CE Zone/project under whose control his/their near relatives are working as Gazetted/Commissioned Officers.

(ix) **Certificate of relatives** :- Affidavit that no near relative(s) of the contractor is/are working as Junior Engineer in MES/Corps of Engineer. If his near relative(s) is/are working in such capacity, the contractor shall furnish details. The contractor shall not be entitled to tender for the works in entire area of GE(I)/GE in which his near relative(s) is/are working as Junior Engineer.

Contd…/-

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 14

**APPENDIX ‘A’ TO NOTICE OF TENDER (CONTD...)**

(x) **Police Verification** :- Copy of police verification certificate from police authority of the area where registered office is located. Alternatively notarized copy of valid passport of proprietor/each partner/each director can be submitted.

(xi) **Certificate regarding no recovery outstanding in any Govt Department** :- Affidavit to the effect that no recovery of any kind is outstanding in any Government department to be furnished.

(xii) **Certificate regarding no Arbitration/Litigation Cases** :- Affidavit to the effect that no Arbitration/litigation cases is outstanding in any Government department to be furnished.

(xiii) Affidavit by firm/bidder containing details of each employed engineer in firm.

(xiv) Affidavit from engineer side of taking firm/bidder employment duly supported by attested copy of degree/diploma certificate and experience certificate as applicable.

(xv) Affidavit containing details of possession and having ownership of T&P mentioned in para B (vii) here-in-above with present value of each T&P alongwith ownership details like make and year of manufacturer, certified copies of updated RC books and valid current insurance papers.

(xvi) Certified true copies of PAN/TIN of proprietor, partners/firm.

(xvii) Certified true copies of enlistment letters with various Govt Deptt/PSUs.

(xiii) Copy of last three years Income Tax return filed.

(xix) **Indemnity Bond** :- Indemnity bond on non judicial stamp paper duly attested by Notary (on format given below) :-

**INDEMNITY BOND**

This bond of indemnity is executed on this ……………. Day ……….. ….by M/s/Shri …………………………………… having registered office at ………………… to indemnify the Govt of India of the following :-

(a) We undertake to pay the Govt of India any damages that may be found to be recoverable on order of our contracts.

(b) We undertake that in case Govt is put to pay any loss or disadvantage in monetary of contract by the firm which shall indemnify the Govt for each loss or disadvantage.

This bond of indemnity is executed by M/s………………………… and has singed before me. Whatever stated above is true and correct to the best knowledge and belief.

**Signature of Contractor Notary**

(xx) **UN-ENLISTED CONTRACTOR (DOCUMENTS TO BE UPLOADED)**

Contractor not enlisted with MES will be required to upload the following necessary documents to prove their eligibility :-

Scanned copy of application letter requesting issue of tender.

Scanned copy of enlistment letter in any other department alongwith its enclosures

Scanned copy of Demand Draft/Bankers Cheque toward cost of tender.

Scanned copy of Demand Draft/Bankers Cheque towards Earnest Money Deposit.

Scanned copy of GST registration Number of firm.

Scanned copy of Provident Fund Code Number of firm.

Scanned copy of all documents mentioned in para B above.

***NOTE – Contractor shall upload copies of all the above documents prior to closing date of bid submission***.

Contd…/-

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 15

**APPENDIX ‘A’ TO NOTICE OF TENDER (CONTD...)**

(C) (i) Applications/bids not accompanied by scanned copies of requisite DD/Bankers Cheque towards cost of tender and earnest money (as applicable) shall not be considered for validation of ‘T’ bid and their finance bids will not be opened.

(ii) Tenderers/bidders to note that they should ensure that their original DDs and earnest money (as applicable) are received within 06 days of bid submission end date.

(iii) In case of applications/bids form enlisted contractors of MES, where scanned copies of requisite DD/Bankers Cheque towards cost of tender has been uploaded but physical copies are not received by the stipulated date, finance bids will be opened. However non-submission of physical copies of cost of tender shall be considered as willful negligence of the bidder with ulterior motives and such bidder shall be banned from bidding for period of six months commencing from the date of opening of finance bid.

(iv) In case of applications/bids from unenlisted contractors, where scanned copies of requisite DD/Bankers Cheque towards cost of tender has been uploaded but physical copies are not received by the stipulated date, finance bids 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 finance bid.

(v) In case of applications/bids/(enlisted contractor as well as unenlisted contractor) where scanned copies of requisite Earnest money (as applicable) were uploaded but the same are not received in physical form within stipulated time, such bids shall not qualify for opening of finance bid.

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

(D) Contactors not enlisted with MES will be required to upload necessary documents to prove their eligibility for enlistment in eligible class & category of work as enumerated here-in-above. Contractors not enlisted with MES shall also refer para 1.5 of section 1 of Part I of MES Manual on Contract 2007 (reprint 2012) to comply the eligibility for enlistment in eligible class & category of work.

(E) Tenderers/bidders are required to upload their GST Registration number alongwith their T-bid. Non submission/uploading GST Registration number shall disqualify Bid submitted in the T bid evaluation and finance bid submitted by bidder shall not be opened.

(F) In case of rejection of technical/prequalification bid, contractor may appeal to next higher Engineer authority i.e CE Jaipur Zone on e-mail [cezjpr2-mes@nic.in](mailto:cezjpr2-mes@nic.in) against rejection, whose decision shall be final and binding. However contractor/bidder shall not be entitled to any compensation whatsoever for rejection of technical /prequalification bid.

(K D Mandal)

EE (QS & C) (SG)

DCWE (Contracts)

For Accepting Officer

Dated : 02 Nov 2018

**Case File No : 81469/ALW/E8**

Headquarters

Commander Works Engineer

Military Engineer Services

Dadwara, Kota -324002 (Raj)

**Distribution:-**

**Internal** :

**E-2 Section** - **For info wrt JON NO : 42AD/02/SRW ‘B’ (E&M)/2018-19/ALW/Q,**

**42AD/03/SRW ‘B’ (E&M)/2018-19/ALW/Q &**

**42AD/04/SRW ‘B’ (E&M)/2018-19/ALW/Q**

**Notice Board**

CA NO : CWE KOTA/ALW-53 OF 2018-19Srl Page No : 16

**IN LIEU OF IAFW-1779-A (REVISED 1955) TO BE USED IN CONJUCTION WITH**

**GENERAL CONDITIONS OF CONTRACTS IAFW-2249**

**MILITARY ENGINEER SERVICES**

**REGISTERED POST**

Tele : 0744-2320596 Headquarters

Commander Works Engineer

Military Engineer Services Dadwara, Military Station Kota

Kota (Raj) - 324 002 (Raj)

81469/ALW/07/E8 02 Nov 2018

**E-TENDER AND ITEM RATE CONTRACT FOR WORKS REQUIRED FOR :**

**SPECIAL REPAIR/REPLACEMENT OF LT ELECTRIC O/H LINES INTO LT**

**UNDERGROUND CABLE IN CERTAIN UNIT AND JCOs/OR MD**

**ACCN AREA OF CERTAIN UNIT AT ITARANA ALWAR**

1. M/s\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_of\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_s/ are hereby authorised to tender for the above work. The e-tender duly quoted shall be uploaded on portal of MES e-tendering during the period of bid submission published on website. Bid opening date and time of Technical bid is presently scheduled on **28 Nov 2018 at/after 1200 Hrs.** The hard copies of desired documents must be delivered to office of **Commander Works Engineer, Kota** within stipulated period mentioned in tender documents addressed to **Headquarter Commander Works Engineer, Kota -324002 (Raj)** and marked ***“CA NO : CWE KOTA/ALW-53 OF 2018-19 : “SPECIAL REPAIR/ REPLACEMENT OF LT ELECTRIC O/H LINES INTO LT UNDERGROUND CABLE IN CERTAIN UNIT AND JCOs/OR MD ACCN AREA OF CERTAIN UNIT AT ITARANA ALWAR”***

2. All correspondence concerning this tender will be addressed to as indicated at the top of this sheet quoting the reference as given above.

**“THE PRESIDENT OF INDIA DOES NOT BIND HIMSELF TO ACCEPT**

**THE LOWEST OR ANY TENDER”**

Signature of officer issuing the

tender documents

Appointment : DCWE (Contracts)

(Signature of Contractor) For Accepting Officer

Dated: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Dated : 02 Nov 2018

CA NO : CWE KOTA/ALW-53 OF 2018-19 Srl Page No : 17

**SCHEDULE ‘A’**

|  |  |  |
| --- | --- | --- |
| Scope of Work | **(a)** | **JOB NO. : 42AD/02/SRW ‘B’ (E&M)/2018-19/ALW/Q : REPAIR/ REPLACEMENT OF LT OVERHEAD LINE INTO LT UG CABLE AT JCOs/OR MD ACCN ZORAWAR MARG AT ITARANA CANTT, ALWAR.** |
| **(b)** | **JOB NO. : 42AD/03/SRW ‘B’ (E&M)/2018-19/ALW/Q : REPAIR/ REPLACEMENT OF LT OVERHEAD LINE INTO LT UG CABLE AT 35 FD REGT AT ITARANA CANTT, ALWAR.** |
| **(c)** | **JOB NO. : 42AD/04/SRW ‘B’ (E&M)/2018-19/ALW/Q : REPAIR/ REPLACEMENT OF LT OH LINE INTO LT U/G CABLE FROM ARAVALI CIRCLE TO 4 GRENADIERS UNIT AREA INCLUDING JUNCTION BOXES AND PANEL AT ITARANA, ALWAR.** |

**NOTES** :-

1. The Bill of quantities (BOQ) annexed to Schedule ‘A’ shall form an integral part of Schedule’A’

2. The entire work under this contract shall be completed within **180 Days** months from the date of handing over site, as indicated in W.O. No 1 to be issued by GE.

3. The quantities given in column 3 of BOQ are ‘PROVISIONAL’ and are inserted as a guide only. The quantities required at site may vary as per actual site requirement. These shall however not be varied beyond the limits laid down in condition 7 of IAFW-2249 (General Conditions of contracts). The payment will be made for the actual quantities of works carried out and measured.

**4. Rate in column 5 of BOQ are to be entered by tenderers in figure only and uploaded after due validation. In the event of failure to quote rate for any item in BOQ, the same is liable to be rejected.**

5. Unless otherwise stated in BOQ, unit rate inserted in BOQ shall be deemed to include for supplying and fixing or material and labour complete including commissioning and testing.

6. The rate in BOQ shall be deemed to allow for all minor extras and constructional details or minor accessories which are not specifically given in Particular Specifications but are essential for the execution of work in a sound and workman like manner. In case of difference of opinion between the contractor and the GE as to whether or not certain items of work constitute minor extras and constructional details or minor accessories included in the contractor’s prices, the decision of the Accepting Officer shall be final and binding.

7. Unless otherwise specified in BOQ or Particular Specifications, unit rate mentioned in BOQ shall be deemed to include for all the provisions in the preambles given in MES Schedule 2010 (Part-II) as applicable to respective items.

8. All materials retrieved from demolition/ dismantling/ taking down/ up except items covered in schedule of credit shall become property of the Government and contractor shall deposit the same in the store yard of concerned AGE.

9. The provision of statutory laws relating to Minimum Wages, EPF ESIC etc shall be strictly adhered to by the contractor and quoted rate shall deemed to include these factors.

10. AS per latest Govt notification, the GST is levible in this work. Contractor shall pay total GST liability under this contract and this aspect shall be deemed to be included in rate quoted by the contractor.

(Signature of Contractor) DCWE (Contracts)

For Accepting Officer

Dated : ……………….. 2018

CA NO : CWE KOTA/ALW-53 OF 2018-19 Srl Page No : 18 to 29

BOQ

From Page No

18 to 29

CA NO : CWE KOTA/ALW-53 OF 2018-19 Srl Page No : 30

###### SCHEDULE OF CREDIT FOR OLD UNSERVICEABLE MATERIAL RETRIEVED DURING DISMANTLING/DEMOLITION/TAKING UP/TAKING DOWN

NOTES :-

1. Quantities mentioned in this schedule are “PROVISIONAL”. However, rate of recovery indicated in Col 5 is firm and amount of credit shall be worked out accordingly.

2. Tenderers are advised to visit the site of work before quoting their rates in Bill of quantities (BOQ) to ascertain the conditions/ quality of materials likely to be retrieved from work.

3. Credit on account of old materials/ items shall be effected against quantity actually obtained from site at the rate mentioned in credit schedule. No claim on account of quality of materials/items shall be admissible. This aspect shall be deemed have been considered while quoting rates against of quantities (BOQ).

4. Materials retrieved from demolition/ dismantling shall not be allowed for reuse in the work except otherwise specified to be re-used as per relevant items of of quantities (BOQ).

5. Any materials other than which has been catered in Credit Schedule shall become Govt. property and contractor shall deposit the same in the store yard of AGE without any extra cost to department.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| SNo | Description of items | Unit | Quantity | Rate per unit | Amount |
| in **R**. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. | Old Unserviceable Pin Type/Shackle/Loop Type Insulator Retrieved vide Item No. 7.00 of BOQ. | EACH | 348 | 8.00 | 2,784.00 |
| 2. | Old Unserviceable GI Pipe Light Grade any Size Retrieved vide Item Nos. 11.00, 12.00 & 13.00 of BOQ. | RM | 42 | 15.00 | 630.00 |
| 3 | Old Unserviceable ACSR Aluminum Conductor Retrieved vide Item No. 4.00 of BOQ. | Qtl | 14 | 9,500.00 | 1,33,000.00 |
| 4 | Old Unserviceable Cross Arms Bracing Supports Retrieved vide Item No. 5.00 of BOQ. | Qtl | 10 | 2,000.00 | 20,000.00 |
| 5 | Old Unserviceable GI Earth/Guard Wire Retrieved vide Item No. 6.00 of BOQ. | Qtl | 1.50 | 2,000.00 | 3,000.00 |
| 6 | Old Unserviceable PCC LT Pole of any Size Retrieved vide Item No. 8.00 of BOQ. | EACH | 25 | 750.00 | 18,750.00 |
| 7 | Old Unserviceable LT Panel Retrieved vide Item No. 23.00 of BOQ. | EACH | 01 | 2,000.00 | 2,000.00 |

|  |  |
| --- | --- |
| **TOTAL C/O TO NEXT PAGE R** | **1,80,164.00** |

Contd…/-

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 31

**GENERAL SUMMARY**

1. Total amount of of Bill of quantities (BOQ) brought : **R**.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ forward from Srl. Page No. 29

2. Deduct credit amount as per Schedule of Credit on Srl : **R. 1,80,164.00 (Minus)**

Page No. 30

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

***Contract Sum* : R.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

(Note: The summary of BOQ shall automatically be generated by e-tender system. The overall tendered sum will be worked out by the Accepting officer after deducting amount of Schedule of credit.)

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

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

(Signature of Contractor) DCWE (Contracts)

Dated: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ For Accepting Officer

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 32

**SCHEDULE ‘B’**

# LIST OF MATERIAL TO BE ISSUED TO THE CONTRACTOR

**(SEE CONDITION 10 OF IAFW-2249)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Ser No. | Particulars | Rate at which material etc will be issued to the contractor  Unit Rate Rs. | | Place of issue by name | Remarks |
| 1 | 2 | 3 | 4 | 5 | 6 |
|  |  |  |  |  |  |

--------------------------------------------------- NIL -------------------------------------------

##### SCHEDULE ‘C’

**LIST OF TOOLS AND PLANTS (OTHER THAN TRANSPORT) WHICH**

**WILL BE HIRED TO THE CONTRACTOR**

**(Refer conditions 15 and 35 of IAFW-2249)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Srl.  No. | Quantity | Particulars | Details of MES crew supplied | Hire charges per unit per working days | Stand by charges per unit per off day | Place of issue by name | Remarks |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

--------------------------------------------------- NIL --------------------------------------------------

##### SCHEDULE ‘D’

**TRANSPORT TO BE HIRED TO THE CONTRACTOR**

**(Refer conditions 16 and 35 of IAFW-2249)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Srl. No. | Quantity | Particulars | Rate per unit per working day (Rs.) | Place(s) of issue (By name) | Remarks |
| 1 | 2 | 3 | 4 | 5 | 6 |

-------------------------------------------------------NIL -----------------------------------------------

------ - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

(Signature of Contractor) DCWE (Contracts)

Dated: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ For Accepting Officer

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 33

**TENDER**

**TO,**

**THE PRESIDENT OF INDIA**

Having examined and perused the following documents: -

1. Specifications signed by *Shri K D Mandal,* DCWE (Contracts).

2. BOQ (Schedule ‘A’), ‘B’, ‘C and ‘D’ attached hereto.

3. MES Standard Schedule of Rates 2009 (Part-I – Specifications) and MES Standard Schedule of Rates 2010 (Part-II) (Rates) (here-in-after and in IAFW-2249 referred to as the MES Schedule) together with amendments as under: -

SSR 2009 Part-I : 1 to 3

SSR 2010 Part-II : 1 to 59

4. General Conditions of Contracts IAFW-2249 (1989 Print) together with amendment No. 1 to 40 and errata 1 to 20.

5. **Water: - Condition 31 of General Conditions of contracts IAFW-2249**

Water will not be supplied by the MES.

6. Should this tender be accepted;

I / We agree

\*(a) That the sum of R **1,22,500.00 (Rupees One Lakh Twenty Two Thousand Five Hundred Only)** forwarded as earnest money shall refunded by the Government on receipt of the appropriate amount of security deposit as per Condition 22 of IAFW-2249 (1989 Print).

(b) To execute all the works referred to in the said documents upon the terms and conditions contained or referred to therein and as detailed in General Summary on the subsequent pages and to carryout such deviations as may be ordered vide Condition 7 of IAFW-2249 upto a maximum of 10% (Ten percent) and further agree to refer all disputes as required vide Condition 70 of IAFW-2249 to the sole Arbitration of serving Officer having degree in Engineering or equivalent or having passed final/direct final examination of sub Division-II of Institution of Surveyors (India) recognized by the Govt. of India, to be appointed by Chief Engineer, Jaipur Zone Jaipur or in his absence officer officiating as Chief Engineer, Jaipur Zone, Jaipur whose decision shall be final, conclusive and binding.

\*Delete whichever is not applicable.

Contd…/-

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 34

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

Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the capacity of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ duly authorised to sign the e-tender for and on behalf of M/s\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (IN BLOCK LETTERS).

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

Address\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Telephone No.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# ACCEPTANCE

\_\_\_\_\_\_\_\_ Alterations have been made in these documents and as evidence that these alteration(s) were made before execution of the contract agreement; they have been initialled by the contractor and *Shri K D Mandal, DCWE (Contracts)*. The said officer is/are hereby authorised to sign and initial on my behalf the documents forming part of this contract.

The above e-tender was accepted by me on behalf of THE PRESIDENT OF INDIA for the contract sum of Rs.\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Rupees \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) on the \_\_\_\_\_\_\_\_ day of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ dated this \_\_\_\_\_\_\_\_\_\_\_ day of \_\_\_\_\_\_\_\_\_\_\_.

Appointment: Commander Works Engineer Kota

(For and on behalf of the President of India)

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 35 to 85

# GENERAL CONDITIONS OF CONTRACTS

**(IAFW- 2249 (1989 PRINT)**

#### FOR

**LUMP SUM CONTRACTS (IAFW- 2159)**

**AND**

**MEASUREMENT CONTRACTS (IAFW-1779 & 1779-A)**

1. It is hereby agreed by me/ us that the following documents shall form an integral part of the tender documents:-

(a) General Conditions of Contracts including Condition- 70 pertaining to the settlement of disputes by Arbitration, IAFW-2249 (1989 Print) and Errata 1 to 20 containing **34 Pages (Serial Page No. 35 to 68)**.

(b) Amendment No. 1 to 40 to IAFW-2249 in **17 Pages (Serial Page No. 69 to 85).**

2. This tender submitted by me/ us is subject to the aforesaid documents and copy of which is in my/ our possession and which I/ We have read fully and understood before submission of this tender.

3. My/ Our signature here-in-under is in token of my/ our having accepted the aforesaid documents as forming an integral part of this tender.

**Notes:-**

1. The document mentioned above can be seen in the office of the Commander Works Engineer, Kota or in GE office during working hours.

2. In case of difference or interpretation due to wording of English and Hindi versions, the English version will prevail as per article 348 of Constitution of India.

DCWE (Contracts) (Signature of Contractor)

For Accepting Officer Dated: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 86 to 99

# MINIMUM FAIR WAGES

1. It is hereby agreed that the “Schedule of Minimum Fair Wages” (SMFW) as published vide Govt of India notification dated \*10 Mar 92 comprising **14 Pages** (Revised upto date) shall form part of these tender documents.

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

DCWE (Contracts) Signature of Contractor

For Accepting Officer Dated :

**Notes** :-

(i) “Schedule of Minimum fair Wages” is not enclosed alongwith tender but the contractor is deemed to have full knowledge regarding the minimum wages payable to labours as legally effective on the date of submission of tender and his tendered rates shall be deemed to have been based on this. The minimum wages notified in the State/Central/Gazette governed by any local regulation whichever is higher.

(ii) “Schedule of Minimum Fair Wages” referred to above is available for reference in the office of Accepting Officer. It can be seen during office hours by the tenderers.

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 100

**SPECIAL CONDITIONS**

1. **GENERAL**

The following special conditions shall be read in conjunction with General Conditions of contracts, IAFW – 2249 and 1779-A including Errata/ amendments thereto. If any provisions in these special conditions is at variance with that of the aforesaid documents the former shall be deemed to take precedence there over.

1.1 The work under this contract shall be carried out in accordance with Schedule ‘A’, the particular specifications, drawings, general specifications and other provisions in MES Schedule.

1.2 The term General specifications referred to hereinbefore, as well as referred to in IAFW-2249 (General conditions of contracts), shall mean the specifications contained in the MES schedule.

1.3 General Rules, specifications, special conditions and all preambles in the MES schedule shall be deemed to apply to the works under this contract. In case of any discrepancy the provisions in these documents shall take precedence over the aforesaid provisions in the MES schedule.

2. **VISIT TO SITE OF WORK BY THE CONTRACTOR**

2.1 Reference Para 11 and 14 of notice of tender (IAFW-2162) and condition 4 of IAFW-2249. The tenderer is advised to contact the Garrison Engineer for the purpose of inspection of site (s) and relevant documents other than those sent herewith, who will give reasonable facilities for the purpose. The tenderer shall also make themselves familiar with the working conditions, accessibility of site (s), availability of materials and other cogent conditions, which may affect the entire completion of work under this contract.

2.2 The tenderer shall be deemed to have inspected the site (s) and made themselves familiar with the working conditions, whether they have actually inspected the site (s) or not.

3. **COOPERATION WITH OTHER AGENCIES AT SITE OF WORK**

Contractor’s attention is invited to the fact that during the currency of this contract, works on other services which are outside the scope of work of this contract may be entrusted for execution to other agencies. The contractor shall permit free access and afford normal facilities and usual convenience to other agencies or departmental workmen to carryout connected works or services under separate arrangements. The contractor will not be allowed any extra payment on this account.

4. **EMPLOYMENT OF PERSONNEL**

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

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No. : 101

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

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

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

4.4 Verification of antecedent of contractors representatives/labour deployed at site in connection with execution of work under the contract a per security requirement of user unit/installation shall be responsibility of the contractor and all expenses in connection with verification of antecedents by police authority/security agency shall be borne by the contractor.

5. **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 contractors 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 determination 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).

6. **VALIDITY OF TENDER**

The tender shall remain open for acceptance for a period of Sixty days from the **Bid submission end date**. For the purpose of calculating this period, **Bid submission end date** shall be excluded.

7. **CRITICAL PATH METHOD (CPM) NETWORK**

7.1 The time and progress chart to be prepared as per condition 11 of General Conditions of Contracts (IAFW-2249) shall consist of detailed network analysis and a time schedule. The critical path network will be drawn jointly by the GE and the contractor soon after acceptance of tender but before the date of commencement as per work order No 1. The time scheduling of the activities will be done by the contractor so as to finish the work within the stipulated time. On completion of the time schedule a firm calendar date schedule will be prepared and submitted by the contractor to GE, who will approve it after due scrutiny. The schedule will be submitted in four copies within two weeks from the date of handing over the site.

Contd…/-CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No. : 102

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

7.2 During currency of the work the contractor is expected to adhere to the time schedule and this adherence will be one of the main parameters of the contractor’s performance under the contract. During the execution of work the contractor is expected to participate in the reviews and updating of the network as and when called for by the GE. These reviews may be undertaken at the discretion of the GE either as a periodic appraisal measure or when the quantum of work ordered on the contractor is substantially changed through deviation orders or amendments. Any revision of the schedule as a result of the review, will be submitted by the contractor to GE within a week who will approve it after due scrutiny. The contractor will adhere to the revised schedule thereafter. In case of contractor disagreeing with the revised schedule, the same will be referred to the Accepting Officer whose decision will be final, conclusive and binding.

GE’s approval to the revised schedule resulting in a completion date beyond the stipulated date of completion shall not automatically amount to a grant of extension of time. Extension of time shall be considered and decided by the appropriate authority mentioned in condition 11 of IAFW-2249 and separately regulated.

7.3 The Contractor shall mobilise and employ sufficient resources to achieve the detailed schedule within the broad framework of the accepted methods of working and safety.

7.4 No additional payment will be made to the contractor for any multiple shift work or other incentive method contemplated by him in his work schedule even though the time schedule is approved by the Department.

8. **RECORD OF MATERIALS AND PURCHASE VOUCHERS**: -

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

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

8.3 Contractor shall produce original receipted vouchers/ invoices/Bills alongwith test certificates wherever applicable in respect of following items from the manufacturers and/or their authorised agents for the full quantity of the following materials, as applicable as a pre-requisite before submitting claims for payment of advances on account of the work done and/or materials collected in accordance with condition 64 of General Conditions of contracts-IAFW-2249.

(i) MCBs/MCCBs

(ii) Power Contactors

(iii) Metering equipments

(iv) Timer switches/Relays

(v) LT Cables.

(vi) GI Tubing.

(vii) LT Panel board

8.4 Vouchers/ invoices so produced and verified shall be stamped by Engineer-in-Charge indicating contract number. The contractor shall ensure that the materials are brought to site, in original sealed containers/ packing, bearing manufacturer’s marking except in the case of the requirement of materials (s) being less than smallest packing.

Contd…/-CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 103

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

8.5 Bitumen shall be purchased directly from manufacturer’s stockist or their authorised dealers only. These vouchers/ invoices shall be defaced by the GE/ Engineer-in-Charge, indicating reference to the contract number, under his dated signature, and CTC thereof shall be kept on record so as to avoid their being used again.

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

9. **APPROVAL OF SAMPLE OF WORKMANSHIP**.

To determine the acceptable standard of workmanship, sample finishes shall be carried out as directed by GE under close supervision of the Engineer-in-Charge and shall be got approved from the GE.

10. **MATERIALS AND SAMPLES**

10.1 Refer condition 10 of IAFW-2249. The materials and articles, which have been specified from certain makes/ manufacturers, shall be of makes/ manufactures as specified. If the manufacturers specified in tender documents make both ISI marked and conforming to ISI, the materials/articles shall be ISI marked.

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

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

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

10.3 Materials of local origin shall be as specified and conforming to samples kept in GE’s office. The tenderer is advised to inspect sample of materials which are displayed in the office of GE, before submitting his tender. The tenderer shall be deemed to have inspected the samples and satisfied himself as to the nature and quality of materials, he is required to incorporate in the work irrespective of whether he has actually inspected them or not.

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

10.5 For obtaining sample approval, contractor will download list of BIS marked manufacturers from BIS site [www.bis.org.in](http://www.bis.org.in). He will select manufacture(s) meeting contract specifications criteria and handover the report with a request letter to Engineer-in-Charge with his signature. Engineer-in-Charge will verify its correctness by visiting the BIS site and process it to GE with his recommendations AE/ JE(QS&C) of GE will recheck the same from internet, endorse his recommendation and put up for approval of GE.

10.6 The printout having signature of all concerned including GE will be kept on record and approval will be conveyed within 7 days of contractor’s request.

10.7 After sample approval GE shall send an e-mail to manufacturer (not the authorised dealer) intimating him name of firm, approx quantity of material being procured by the contractor and request the manufacturer to ensure that his product only is purchased by the contractor from proper authorised source. A printout of the e-mail sent to manufacturer shall be kept on record duly signed by the GE and a copy thereof will be sent by post to the manufacturer.

Contd…/-CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No. : 104

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

10.8 In cases involving suspected procurement of spurious material purchase vouchers shall be verified through the manufacturer and proof of payment shall be obtained from the contractor by Engineer-in-Charge. The payment of such doubtful material shall be allowed only after GE satisfies himself about the genuineness of material.

10.9 Where no licensee exists for a particular item as per BIS web site, GE will permit procurement of same conforming to IS from manufacturer to be decided by GE.

10.10 Wherever list of make is included in tender document. These shall supersede the name, if any, given in particular specifications. However the makes, if any, given in the Sch ‘A’ shall take precedence over make mentioned at other places.

11. **HANDING OVER OF SITE**

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

12. **DAMAGE TO THE EXISTING STRUCTURES/WORKS**

Any damage to the existing structures, any existing road , underground cables, pipe lines, drains, and fixtures etc., during the execution of work shall be made good by the contractor at his own expense. Rectification, replacement, making good and touching up etc. shall be carried out, conforming to the materials and workmanship originally provided and to the satisfaction of the Engineer-in-Charge. In case of any dispute on this account, the decision of the GE shall be final, binding and conclusive.

13. **APPROACHES**

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

14. **ROYALTIES**

Reference to condition 14 of IAFW-2249. Quarries are not available on Defence land for use by the contractor to remove material for use in the works.

15. **RELEASE OF ADDITIONAL SECURITY DEPOSIT**

Additional security deposit when deposited by the Contractor as per Condition 22 of the IAFW-2249 shall be released in two stages as under :-

(a) 50% of the additional security deposit shall be released on payment of final bill provided there are no claims outstanding against the contractor in respect of the contract in which the additional security is lodged and the final bill is not minus. In the event of departments claims against the contractor becoming and / or the final bills under Condition 66 of IAFW-2249 becoming minus the amount of the security deposit shall be adjusted against the claim due to Government and the balance if any will be released to the contractor.

(b) Balance 50% of the additional security deposit will be released to the contractor after expiry of defects liability period as per Condition 68 of IAFW-2249 Provided the contractor shall first have to render a No Demand Certificate (IAFA-451).

(c) In order to implement the above procedure, the contractor is advised to deposit the additional security in two equal parts so as to facilitate its release.

(d) The above clause is not applicable to release of earnest money/ security deposit by a contractor who has not executed the security bond with the department.

Contd…/-CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 105

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

16. **ALLOTMENT OF LAND FOR STORAGE OF MATERIALS INCLUDING TEMPORARY SHEDS, ACCOMMODATION OF LABOUR, CANTEEN, FABRICATING WORKSHOP ETC**.

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

16.2 The contractor shall be permitted to store his materials including erecting temporary sheds for cement. The contractor shall pay a licence fee of Re 1/- per year or part thereof in respect of each and every separate area of land allotted to him. No land for erecting temporary workshops and like and labour huts shall be provided in the MOD land. The contractor shall make his own arrangements for same outside the MOD land.

17 **EQUIPMENTS AND MATERIALS**

All equipment and materials to be incorporated in the work shall be new and of best of their kind conforming to the latest IS or in the absence the materials shall conforming to British or other relevant standard specifications.

18. **MINIMUM WAGES PAYABLE**

18.1 Refer condition 58 of IAFW-2249. The Contractor shall not pay wages lower than minimum wages for labour as fixed by the Government of India/ State Govt/ Union territory, whichever is higher.

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

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

18.4 Schedule of minimum wages is not enclosed along with tender documents. However contractor shall be deemed to have verified the minimum fair wages payable as on the last due date of receipt of tender.

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

19. **OUT OF POCKET EXPENSES**

No out of pocket expenses incurred by the tenderer in submitting the tender shall be reimbursed whether his tender is accepted or not.

Contd…/-CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 106

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

20. **WATER**

Water will not be supplied by the MES and the Contractor shall make his own arrangement for water from source outside MD land. In case shallow wells exist on MD land or nallah/rivulets follow through MD land, the contractor can be permitted to draw water from such sources. The water so used shall be potable water. In all cases water used shall be subjected to prior written permission of Engineer-in-charge.

21. **SUPPLY OF ELECTRICITY**

21.1 In case the contractor desires to buy electricity from the MES, he shall be charged for the electric energy consumed as applicable at that time/at the rate of **R** 9.47 (Rupees Nine and paise Forty Seven only) whichever is higher per kilowatt hour for light and power*.*

21.2 Electric supply required for works upto maximum of 10 KVA shall be made available by the MES at the incoming terminal of the main switch .The main switch and KWH meters to register the electric energy supplied shall be provided and installed by the MES. The contractor shall provide all necessary cables, fittings, etc., from the main switch in order to ensure a proper and suitable supply of electricity for the execution of work.

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

21.4 GE or his representative shall be free to inspect all the power consuming devices or any electric lines provided by the contractor. Any device or electric lines provided by the contractor, which is not to the satisfaction of the GE shall be disconnected from the supply if so desired by him.

22. **CONDITION OF WORKING**

22.1 **UNRESTRICTED AREAS**

22.1.1 The work lies in UNRESTRICTED AREA. However, the contractor, his agents, servants, work people and vehicles can pass through the unit lines in which case the Engineer-in-Charge shall at his discretion have the right to issue passes, control their admission to the site of work or any part thereof. The contractor shall on demand by the Engineer-in-Charge submit a list of personnel etc, concerned and shall satisfy the Engineer-in-Charge as to the bonafides of such people. Passes shall be returned at any time on demand by Engineer-in-Charge and in any case on completion of work. Routine security checks can be carried out including checks at the time of entry/exit through unit lines.

22.1.2 The contractor and his work people shall observe all the rules promulgated from the authority controlling the area in which the work is to be carried out eg prohibition of smoking, lighting and fire precaution, restricted hours of working etc. Any person found violating the security rules laid down by the authority, shall be immediately expelled from the area without assigning any reasons whatsoever and the contractor shall have no claim on this account. Nothing shall be admissible for any man hours lost on this account.

Contd…/-CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 107

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

23 **BLASTING**

23.1 Blasting is prohibited

24. **LOCATION OF BUILDING AND WORKS**

There may be some changes in location/ siting of building shown in site (layout) plan(s) to suit local conditions and/or departmental requirements. The contractor shall have no claim what so ever consequent to such changes in the location/ siting of works.

25. **WATCH WARD & LIGTHING**

The contractor shall at his own cost take all possible precautions to ensure safety of life and property by providing necessary fencing, barrier, light, watchmen etc., during the progress of work and as directed by the Engineer-in-Charge. The contractor shall make good the damages without any extra cost to Govt failing which reimburse the loss to the Govt on account of any damage that may occur on this account.

26. **CLEANING DOWN**

Refer condition 49 of IAFW-2249. The contractor shall clean all floors, remove cement, lime or paint drops, clean joinery, glass panels etc., Touch up all paint work and carry out all necessary items of work in connection therewith and have the whole premises clean and tidy to the entire satisfaction of Engineer-in-Charge before handling the items/works. No extra payment shall be admissible to the contractor for this operation.

27. **RETENTION MONEY/ COMPENSATION FOR DELAY**

Refer condition 64 and 50 of IAFW-2249. For the purpose of calculating retention money under condition 64 of IAFW-2249, and compensation for delay under condition 50 of IAFW-2249, the value of contract as revised by price variation shall be taken into account.

28. **REIMBURSEMENT/REFUND ON VARIATION IN “TAXES DIRECTLY RELATED TO CONTRACT VALUE”**

28.1 The rates quoted by the contractor shall be deemed to be inclusive of all taxes (including GST, 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 Condition 28.2 herein below.

Contd…/-CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 108

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

28.2 The taxes which are levied by Government at certain percentage rates of contract sum/ amount shall be termed as “taxes directly related to contract value” such as GST, 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.

28.3 The contractors 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 also submit the other documentary proof/information as the GE may require.

28.4 The Contractor shall, for the purpose of this condition keep such books of account and other documents as are necessary and shall allow inspection of the same by a duly authorised representative of Government, 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.

28.5 Reimbursement for increase in percentage rates/imposition of “taxes directly related to Contract value” shall be made only if contractors necessarily and properly pays additional “taxes directly related to contract value” to the Government, without getting the same adjusted against any other tax liability or without getting the same refunded from the concerned Government Authority and submits documentary proof for the same as the GE may require.

29. OFFICIAL SECRET ACT: Refer Condition 2-A of IAFW-2249 (General Conditions of contracts). The contractor shall be bound by the Official Secret Act and particularly section 5 thereof.

30. **SITING OF BUILDINGS/ LAYOUT OF PROVISIONAL ITEMS:** No claim shall be entertained and acceptable for any changes in siting of buildings/ change in layout of provisional items, if ordered. Adjustment on account of any variation in the quantity or quality of works will, however be made as a normal deviation but no adjustment will be made on account of lead and lift.

31. LABOUR REGULATION AND ABOLITION ACT: Contract Labour) Regulation and Abolition) Act-1970 is applicable to MES Contracts. Rates quoted by the contractor shall be deemed to take into account the cost etc. required to comply with the provisions contained in the said Act and the rules framed under the said Act.

Contd…/-CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 109

**SPECIAL CONDITION (CONTD...)**

32. **FOREIGN LABOUR:** The Contractor shall employ only Indian Nationals after verifying their antecedents and loyalty. Foreign Nationals including Labour shall be excluded from all contracts site(s). Contractor’s attention is also drawn to the provisions contained in condition 26 of IAFW-2249 and the Official Secret Act, particularly Section –5 thereof.

33. LOSS OR DAMAGE ON ACCOUNT OF ENEMY ACTION:

(Applicable for works in Operational / Border Areas)

33.1 **Contractor’s Plant/ Equipment at site**:- The contractor shall furnish to the Engineer-in-Charge every morning a distribution return of his plants/equipment on the site of work stating the following particulars :-

(a) Particulars of the plant/equipment, its make, manufacturer’s number, model number if any, registered number if any, capacity, year of manufacture, year of purchase etc.

(b) Location indicating number (quantity) at each location on the site of works(s).

(c) Total number (quantity) on site of work(s).

(d) 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 workman’s tools nor any manually operated tools/equipment. The Engineer-in-Charge shall record the particulars supplied by the contractor in the works diary and send the return to the GE for record in his office.

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

(a) The loss suffered by him on account of any damage or destruction of his plant/equipment or materials or any part thereof. The amount of loss assessed by the Accepting Officer of the contract shall be final and binding.

(b) The compensation paid by him under any law for the time being in force to any workman employed by him for any injury caused to him or to the workman’s life.

(c) Payment of compensation for loss or damage to any work or part of work carried out. (The amount of compensation shall be determined in accordance with condition 48 of General Conditions of Contract (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 absence of such order, reasonable precautions. No reimbursement shall be payable nor any compensation be payable for any plant/equipment or materials not lying at site of work at the time of enemy action.

34. OCTROI, SALES TAX, SERVICE TAX AND OTHER DUTIES

The tendered rates shall be deemed to include all duties such as octroi, GST etc as referred in Condition 10 of IAFW-2249.

Contd…/-CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 110

**SPECIAL CONDITION (CONTD...)**

35. **INDEMINITY BOND FOR PAYMENT OF LABOUR, WORKMAN EMPLOYED ON WORKS OR OTHER MONEYS OF TENDER PAYMENTS**

The Contractor shall execute indemnity bond with the GE for enforcement of various enactment like Wages Act 1936, Minimum wages Act 1948, employees liability Act 1938, workmen’s compensation Act 1923 or any other Act or enactment’s related to indirectly and directly labours employed on works and rules framed thereunder from time to time for the time being enforce. In case of non compliance of any of enactment’s by the contractor, the GE shall be empowered to exercise the powers vested in him as the principal employer and the amount so not paid to the labour/ workman to be deducted from the sum become due under this Contract or from other Contracts in terms of condition 67 of IAFW-2249, General Conditions of Contracts.

36. **TESTING OF MATERIALS**

36.1 It will be mandatory for the contractors to carry out all the tests specified in Appendix ‘A’ in addition to other tests specified elsewhere such as cement, steel etc in the these tender documents. Cost of material and transportation to different laboratories will be borne by the contractor in addition to testing charges given in succeeding Para’s.

36.2 The tests shall be carried in presence of Engineer-in-Charge and the same shall be signed by Engineer-in-Charge, contractor and the technical person conducting these tests. Further, the contractor shall submit the test reports to Engineer-in-Charge for record.

36.3 For ‘A’ level tests indicated in Appendix ‘A’ the contractor may set up site laboratory at his option. However, in case the contractor has not set up the site laboratory and tests are carried out in Zonal (CTL Jaipur) or any other laboratory approved/set up by GE, the recovery shall be made at rates applicable i.e. as given in Appendix ‘A’. In case the tests are carried out in site lab, the contractor shall employ a competent technical representative having minimum qualification as Diploma in Civil engineering for carrying out these tests. This qualified person will be in addition to engineer(s) required to be employed for supervision of work in pursuant to condition 25 of IAFW-2249.

36.4 For ‘B’ & ‘C’ level tests indicated in Appendix ‘A’, the contractor shall provide all facilities for testing of materials in Zonal laboratory (CTL Jaipur)/ Govt. approved laboratories or test house/Engg Colleges at his own cost. The lump sum / items rates quoted by the contractor shall deemed to be inclusive of these tests. The contractor shall bear the actual charges to ‘C’ level tests (to be done in labs other than MES labs) irrespective of rates indicated in Appendix ‘A’. Wherever it is convenient to get ‘B’ level tests done by approved tests house/ Engg College, the same can be done at the cost of the contractor and no separate recoveries will be made by the department for the same.

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

(Signature of Contractor) DCWE (Contracts)

Dated \_\_\_\_\_\_\_\_\_\_\_\_\_\_ For Accepting Officer

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 111

**PARTICULAR SPECIFICATIONS**

1. **GENERAL**

1.1 The works under this contract shall be carried out in accordance with Schedule ‘A’, Particular Specification and General Specifications and other provisions in the MES Schedule.

1.2 The Term “General Specifications” referred to in para 1.1 above as well as referred in IAFW-2249 (General Conditions of Contract) shall mean the specifications contained in the MES Standard Schedule of Rates – 2009 (Part-I) Specification and MES SSR Part-II (2010) rates.

1.3 General Rules, Specifications, Special Conditions and all Preambles in the MES Schedule shall be deemed to be applicable to all works under this contract, unless mentioned otherwise in these tender documents, in which case specifications in these tender documents shall take precedence over the aforesaid provisions in the MES Schedule.

1.4 Where specification for any item of work are not given in MES schedule or in these particular specifications or drawing, specifications given in the relevant Indian standard specifications or code practice shall be followed.

1.5 **SAMPLES OF MATERIALS (ARTICLES AND RERUIREMENTS)**

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

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

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

2. **MAKING GOOD**

2.1 The contractor shall cut, leave or form holes, recesses, chases etc, in concrete, brick work, walls, ceiling, floors and in any other situations as required or as directed by the Engineer-in-Charge and finish to match the adjoining surfaces.

Contd…/-CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 112

**PARTICULAR SPECIFICATIONS (CONTD….)**

3 **SCOPE OF WORKS**: All work mentioned in Schedule ‘A’ and prescribed in particular specifications is included in the scope of this contract.

4. **FLY ASH BRICK :-**

4.1 The burnt clay fly ash bricks shall confirm to IS : 13757(1993) : Specification for burnt clay fly ash building bricks. The brick shall be sound, compact and uniform in shape. Bricks shall be free from visible cracks, warpage and organic matter. The bricks shall be solid and with frog on one of its flat side. The bricks shall have smooth rectangular faces with sharp corners and shall be uniform in shape and colour. Compressive strength of fly ash brick shall not be less than 75 Kg/Sqcm. The compressive strength testing shall be done as per IS : 3495 (Part I) : 1992. The bricks shall be of non modular size and dimensions of bricks shall be 230 mm (L) x 110 mm (W) x 70 mm (H). General requirement, tolerance, materials, physical characteristics, sampling & criteria for conformity, marking etc shall be complied as per IS: 13757 (1993). The bricks shall be hand or machine moulded.

4.2 Water absorption shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher class. The testing shall be done as per IS-3495(Part-2) : 1992 after immersion in cold water for 24 hrs.

4.3 Efflorescence treatment shall be carried out to brick work as per IS-3495 (1992) Part-3 and as specified here-in-under:-

(a) After initial curing of brick work, the same shall be left to dry for 21 days. The efflorescence appearing on the brick work shall be brushed and thoroughly washed with water.

(b) The brick surface then again be left to dry for 30 days and again brushed and washed with water and again same process is repeated after 45 days.

(c) Finally tamarind solution of concentration as approved by GE shall be applied on the brick work before plastering.

(d) If above treatment is not suitable for fly ash brick masonry, other suitable type of treatment as ordered by GE shall be provided without any price adjustment. The tenderer shall verify the local practice also.

5 . **EXCAVATION AND EARTH WORK**

5.1 Excavation for laying of under ground cables, poles struts and fixing of stays etc shall be restricted to dimensions shown in the drawings and as directed by the Engineer-in-Charge. The minimum depth and the width of the trenches shall be as laid down in para 19.74, 19.74.1 and 19.76 of MES Schedule 2009 (Part I). In the case of excavation for poles, struts and stay, excavation in excess of the required depth shall be made good by the contractor in cement concrete (1:4:8) type D-2 without any extra cost to the Government.

5.2 The trenches for cable shall be excavated to levels gradients as directed by Engineer- in-Charge.

(c) All excavation earth shall be deposited at least one meter clear of the edge of the trenches. When roads have to be crossed, trench upto half the width of the road shall be dug a time and proper notices, signboards and lights shall be displayed and watchman posted to prevent accidents.

Contd…/-

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 113

**PARTICULAR SPECIFICATIONS (CONTD….)**

5.3 Refilling of earth in trenches shall be done in 25cm thick layers with excavated soil approved by Engineer-in-Charge in manner as to ensure the greatest compactness and solidity. Each layer shall be well watered and rammed. Surplus spoil removed as provided in Schedule `A'.

5.4 Soft/loose soil , hard/dense soil and mud shall be classified as "any type of soil".

6. **UNDERGROUND HT CABLES XLPE**

6.1 Cross- linked polyethylene (XLPE) insulated , PVC sheathed HT Cable 11000 Volts grade steel strip or wire armoured with stranded aluminium conductor shall conform to IS-7098 (Part-II). The cable shall be manufactured by using either Sio-plass Technology or Dry Curing with Nitrogen Gas technology. Laying of the cables shall be carried out as described in clause 19.74 to 19.76,19.88 to 19.92 of the MES Schedule Part-I. Testing of the under ground cable during and after laying shall be done as per relevant IS Code and as mentioned in MES Schedule Part-I

6.2 Acceptance Test of HT XLPE Cable : Before accepting the lot of cable for incorporation in the work, it shall be tested in accordance with Clause 18.2.1 of IS –7098 (Part-II) to ensure quality of the cable supplied.

7. **UNDERGROUND LT CABLES XLPE**

7.1 LT cables shall be cross linked polyethylene (XLPE) insulated PVC sheathed GI strip or wirearmoured with stranded aluminium conductors suitable for working voltage up to and including 1100 volts and shall bear ISI certification mark with IS-7098 (Part-I).

8 **CABLE TERMINATION AND CABLE JOINTS KIT**

8.1 Refer para 19.85.2 and 19.85.3 of SSR Part-I

8.2 Cable Termination & Cable Joint Boxes: Cable boxes for straight through and termination joints shall be in form of ‘Kits’ with jointing instructions and literature/test certificate. The kit shall also carry the name of manufacturer, date of manufacture and expiry date on the kit also the type of cable for which suitable.

8.3 Cable Termination Accessories : All the cable termination accessories such as cable sockets, compression joint sleeves, conducting jellys, cable glands, reducing bushes and check nuts etc shall be best quality available or as directed

9. **LAYING AND JOINTING OF UNDER GROUND CABLES**

(a) The cables shall be laid and jointed strictly as specified in the MES Schedule-2009 (Part-I) and in accordance with instructions furnished by the cable manufacturers and the latest IS specification and as specified hereinafter. The cable shall be laid as per para 19.75 and 19.76 of SSR Part-I. The cable jointing shall be made as per para 19.85.1 of SSR part-I

(b) The sand for the purposes of cushioning and cover should be fine sand.

Contd…/-

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 114

**PARTICULAR SPECIFICATIONS (CONTD….)**

(c) (i) The bricks for covering the cables shall be as described in Schedule `A'. It shall be of minimum compressive strength 75 Kg/Sqcm.

(ii) Wherever precast concrete cable cover is specified, it shall be confirming to IS:5820-1970. The concrete used in the manufacture of precast concrete cable cover shall be of a grade not lower than M-20.Also refer clause 19.20 of SSR Part-I.

(d) After the layer of cable cover is laid the remaining trench will be filled with excavated earth all as specified in item of Schedule 'A'.

(e) The cables shall be snaked at all joints and junction boxes. Snaking shall be as directed by the Engineer-in-Charge. Extra length on account of snaking will also be measured under respective items of Schedule 'A'. The quantity payable under Schedule 'A' items shall be the length of cable laid including the length in snaking and no price adjustment shall be made for variation in quantities of connected (allied) items like sand cushion, sand cover and brick layer protection cover.

(f) Where the cables run vertically, they shall be firmly fixed with flat iron clamps as directed by the Engineer-in-Charge at one meter centre to centre along the supports.

10 **TESING OF CABLES**

10.1 Manufacturer test certificate shall be furnished by the contractor to the GE in respect of HT/LT cables.

10.2 **TESTING DURING LAYING CABLES**: All cables shall be megger tested before jointing. After joining is completed, all low voltage cable shall be megger tested and high voltage cables pressure tested before commissioning. The cables shall be tested for:-

(a) Continuity

(b) Insulation and resistance between conductors

(c) Insulation resistance to earth.

(d) Absence of cross- phasing

10.3 **TESTING AFTER LAYING CABLES**: Immediately after the initial laying and jointing work is complete, a high voltage test shall be applied to HT cables to ensure that they have not been damaged during or after the laying operations and that there is no flaw in jointing. The following tests shall be carried out for HT/LT cables:-

(a) Insulation resistance tests – Sectional and overall

(b) Continuity test – Sectional and overall

(c) Full load test

(d) Earth test

Contd…/-

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 115

**PARTICULAR SPECIFICATIONS (CONTD….)**

11. **PAINTING**

11.1 **GENERAL**

11.1.1 Paint shall be synthetic enamel paint of Ist quality and not inferior to that specified in the IS and procured from any of the manufacturer given below: -

(a) Jenson & Nicholson BOROLAC

(b) Shalimar SUPERLAC

(c) Berger LUXOL

(d) Goodlass Nerolac NEROLAC

(e) Asian paints APCOLITE

11.1.2 Paint for priming coat, under coat and finishing coat shall be of the same manufacturer.

11.1.3 Where the tint of paints is not indicated, it shall be approved by the GE.

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

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

11.1.6 Priming coat on a prepared surface shall be applied only after the surface has been passed by the Engineer-in-Charge and marked as such.

* + 1. Pink primer shall be used in wood work.

11.2 Tarring or Painting with Coal Tar Paint: Refer Clause 17.12 & 17.12.1 of MES Schedule (Part-I).

12. **PIPES**

12.1 GI pipe for cable protection and earth wire shall be light grade and shall bear ISI certification mark with IS-1239.

12.2 Ends of pipes shall be properly sealed with wooden bush and bitumen compound after drawing the cable through pipes.

12.3 Where cables are to be fixed alongwith poles these shall be drawn through pipes. The pipes shall be fixed to poles by providing proper clamps and same shall be paid under appropriate item of Sch 'A'.

Contd…/-

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 116

**PARTICULAR SPECIFICATIONS (CONTD….)**

|  |  |
| --- | --- |
| 13.0  13.1  13.2    13.3    13.4 | **LT FEEDER PILLAR BOX/PANEL**  These shall be **factory made and CPRI type tested** and certified, shall be cubicle type, front & rear opening type. Manufacturer’s name plate, danger boards and feeder details shall be provided. Neoprene rubber gasket shall be provided for proper sealing. The internal wiring shall be min 4 Sqmm thick solid copper conductor, PVC insulated FRLS cables. The outdoor panel shall be installation on PCC platform. The platform height shall be such made that bottom of panel is at least 45cm above the nearest road level.  LT outdoor panel shall be factory fabricated, dust and vermin proof, front opening type, protection class IP-65, fabricated out of 3.15mm CRCA MS sheet and 50 x 50 x 6 mm thick MS angle.The top of the outdoor panel shall have a slope of 1:2 and have an overhang of at least 20 Cm clear from the ground level. Danger boards in English, Hindi and predominant vernacular language, indicating the voltage shall be fixed at the front. Internal dimensions shall be such that generous clearances are available for all electrical components.    The bus bars and their electrical connections shall be of Aluminium or electrolytic copper as described in BOQ. The air insulated bus bars, connections and their insulated supports shall be of standard construction, mechanically strong and shall withstand all the stresses which may be imposed upon them in ordinary working due to fixing vibrations, fluctuations in temperature, short circuit or other causes. Copper busbar shall be made of high conductivity 99.9% pure copper of ETP grade. The ends of the bus bars should be drilled to facilitate future expansion / extension of the switch board.  The layout diagram of LT panel shall be approved by GE before placing order for manufacture at factory layout diagram of panel shall be provided by contractor for approval of GE before placing order to manufacturer and LT panel shall be brought at site as per approved drawing. |
| 13.5 | **METAL TREATMENT & FINISH**  All steel work used in the construction of the LT Panels should have undergone a rigorous metal treatment process as follows :-   1. Effective cleaning by hot alkaline degreasing solution followed by cold water rinsing to remove traces of alkaline solution. 2. Pickling in dilute sulphuric acid to remove oxide scales & ru formation, if any, followed by cold water rinsing to remove traces of acidic solution. 3. A recognized phosphating process to facilitate durable coating of the paint on the metal surfaces and also to prevent the spread of rusting in the event of the paint film being mechanically damaged. This again, shall be followed by hot water rinsing to remove traces of phosphate solution.     (iv) Passivating in de-oxalite solution to retain and augment the effects of phosphating.  (v) Drying with compressed air in a dust free atmosphere  (vi) Panel shall be powder coated with epoxy based powder paint after the above process so as to render the material suitable for corrosive environment  (vii) Paint shade shall be pebble (light) gray, shade no RAL 7032 unless otherwise specified. |

Contd…/-

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 117

**PARTICULAR SPECIFICATIONS (CONTD…)**

|  |  |
| --- | --- |
| 13.6  13.7  13.7.1  13.7.2 | **CABLES**  Cables for instrument wiring shall be of solid copper conductor, PVC insulated, FRLS, IS 694 marked and cables for power connections shall be XLPE insulated and PVC sheathed, heavy duty armoured with multistranded aluminium conductors, IS-7098 marked.  **TESTING AND ARRANGEMENTS THEREOF**  All arrangements / equipments required for testing to the entire satisfaction of Garrison Engineer shall be provided by the contractor without any extra cost to the deptt.  **TESTING AT MANUFACTURER’s FACTORY**: All routine tests specified in IS : 8623-1977 shall be carried out and test certificate shall be submitted by the contractor to the GE before installation of panel. The Accepting Officer, at his discretion, may detail his representative to witness the factory testing (routine tests as per IS) before dispatch from the manufacturer’s factory. For this the contractor shall give one months notice to the GE for consideration by AO and detailing the rep. |
| 13.7.3 | **TESTING AND COMMISSIONING :-** Commissioning checks and testing shall include all wiring checks and checking up of connections checks and tests shall include the following :-   * 1. Operation checks and lubrication of all moving parts   2. Interlocking function check   3. Insulation test   4. Trip test and protection gear test |

14. **TUBULAR STEEL POLES SWAGED**

14.1 Steel tubular swaged poles and struts shall comply with the requirements of IS: 2713-1980(Part I to III). Steel tubular swaged poles shall be seamless, well finished, clean and free from harmful defects. The poles shall be straight, smooth, cylindrical and the end of the pole shall be cut square. The base plate shall be of cast iron and base plate, finial taper plug, screws and bolts shall conform to the dimensions given in Appendix ‘C’ of IS: 2713-1980(Part I to III).The poles shall be painted with two coats of black bituminous paint in all internal surfaces with base plate and taper plug and external surfaces up to the portion embedded in concrete with base plate. The remaining external surfaces shall be treated with two coats of aluminium paint over a coat of red-oxide primer after necessary preparation to surfaces all as specified in the MES Schedule Part-I.

14.2 The pole shall be provided of the size and class as indicated in Sch ‘A’ and all as specified in clause 19.3 of the MES Schedule Part-I. Foundation and erection of pole shall be carried out all as described in clause 19.52 of the MES Schedule Part-I.

15. **EARTHING**

15.1 Each item of equipment such as LT switch board and other electrical equipment shall be connected to proper sets of earth connection.

Contd…/-

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 118

**PARTICULAR SPECIFICATIONS (CONTD…)**

15.2 The contractor shall obtain approval of Engineer-in- Charge to the earthing before commencement and it shall be executed in the presence of his representative. Excavation shall be passed by Engineer-in-Charge before filling the charcoal dust filling and back filling of earth shall be done in 25cm layers well watered and rammed.

15.3 The earthing shall generally conform to IS-3043.

15.4 The earth resistance of the whole system shall not in any case exceed 5 Ohm and for copper earthing it shall be restricted to 1 ohm.

15.5 The earthing shall be carried out to the specification given in Schedule 'A'.

16. **EARTH WIRE**

16.1 Earth wire shall be galvanised iron strip of size 25X4mm and shall be strung on poles with clamps or eye body hooks.

16.2 Earthing to metal supported with and accessories shall be done by 2.5mm dia wire, connected to main continuous earth wire running on poles. Nothing extra shall be paid on this account.

17. **STAY WIRE**

17.1 Stay wire shall be provided all as specified in Schedule `A'. Stay wire shall be grade 4 quality with minimum tensile strength of 700/N/Sqmm and conforming to IS-2141-1979 specifications for galvanised stay strand

18. **CABLE ROUTE INDICATOR**

18.1 Cable route indicators shall be provided at distance of every 100 meters and at cable joints and turning of all cables except for street light cables and 2 core cable size and voltage written on it.

18.2 The CI route indicator shall be fixed on MS angle iron.It shall be erected at the time of refilling the trenched.

18.3 The cable route indicator shall be painted as under

(i) For HT 11 KV cables - BROWN

(ii) For LT cables - BLUE

19. **DISMANTLING / DEMOLITION / TAKING DOWN**

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

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

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DCWE (Contracts)

Signature of contractor For Accepting Officer

Date:

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial page No. : 119

# SOURCES OF MATERIAL

|  |  |  |
| --- | --- | --- |
| Sl. No. | Description of material | Sources of material |
| 1 | 2 | 3 |
| 1. | Coarse stone aggregate for all RCC, PCC work and hard core | Lalkhan/Golata/Khairthal/Narayanpur |
| 2. | Coarse stone aggregate for soling & WBM | Lalkhan/Golat/Kesroli |
| 3. | Brick and brick tiles | Locally best available. |
| 4. | Fine aggregate(Sand) for all RCC and PCC works, mortar for masonry & plastering/ pointing | Banas or best available sand as per IS specification as approved by GE |
| 5. | Stone for stone masonry (Random rubble) | Lalkhan/Golat/Kesroli |
| 6. | Stone for kerb/edging | Lalkhan/Golat/Kesroli |
| 7. | Stone chipping for semi dense asphaltic concrete | Lalkhan/Golat/Kesroli |
| 8. | Moorum for filling under foundation, under floor, under plinth protection, under drain, road work etc | Best available (Moorum shall be obtained/procured from the outside of MD land). |

**NOTES:**

1. Sources of material shall be as given in Srl. No. 1 to 8 above or in vicinity thereof. The tenderer shall ascertain the actual position/exact location of sources before submitting his tender and no additional payment shall be made on account of any misunderstanding due to its distance from site of work.

2. The material so brought shall meet the requirements when tested in accordance with the relevant IS-Code.

(Signature of Contractor) DCWE (Contracts)

Dated: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ For Accepting Officer

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 120

**APPENDIX `A'**

**MATERIALS AND THEIR TESTS**

------NIL-------

**APPENDIX `B'**

### CEMENT SUPPLY/ACCEPTANCE REGISTER

------NIL-------

**&**

**APPENDIX ‘C’**

(Refer to Para 7 of E-in-C’s Branch letter No

3044/Steel/1777/E2 Des-3 dt 10 Jul 2012

**STEEL SUPPLY & ACCEPTANCE REGISTER**

------NIL-------

(Signature of Contractor) DCWE (Contracts)

DATED: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ For Accepting Officer

CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 121

# Appendix ‘D’

# LIST OF MAKES/MANUFACTURERS OF EQUIPMENTS/MATERIALS

|  |  |  |
| --- | --- | --- |
| **SER NO** | **MATERIAL** | **NAME OF MANUFACTURERS/BRAND NAME** |

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | **MCBs** | (i)  (ii)  (iii)  (iv)  (v)  (vi)  (vii)  (viii)  (ix) | Schneider  HPL  Havells India Ltd (Standard Division)  Legrand  English Elect Schneider  ABB  L & T  Simens  Bentec India Limited (BENTEC/BENLO) |
| 2. | **MCCBs** | (i)  (ii)  (iii)  (iv)  (v)  (vi)  (vii)  (viii)  (ix)  (x) | Schneider  C & S  Legrand  Standard  Havells  L&T  GE/English Elect  ABB  HPL  Indo Asian |
| 3. | **Power Contactors** | (i)  (ii)  (iii)  (iv)  (v)  (vi)  (vii)  (viii)  (ix) | C & S  BCH  MDS  Standard  Havells  GE  Seimens  ABB  L & T |
| 4. | **Selector Switches** | (i)  (ii)  (iii)  (iv)  (v) | BCH  C & S  AE  KAYCEE  CONCORD |
| 5. | **Ammeter/Voltmeter/**  **Power Factor/Frequency Meter** | (i)  (ii)  (iii)  (iv)  (v)  (vi)  (vii)  (viii)  (ix) | IMP  HPL  Universal  L & T  Havells  Conserv  AE  Control & Switchgear  Secure |

Contd…/-CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 122

# Appendix ‘D’

# LIST OF MAKES/MANUFACTURERS OF EQUIPMENTS/MATERIALS

|  |  |  |
| --- | --- | --- |
| SER NO | MATERIAL | NAME OF MANUFACTURERS/BRAND NAME |

|  |  |  |  |
| --- | --- | --- | --- |
| 6. | **Digital type Ammeter/Voltmeter/**  **Power Factor/Frequency/Energy/KW Meter** | (i)  (ii)  (iii)  (iv)  (v)  (vi)  (vii)  (viii)  (ix) | IMP  HPL  Universal  L & T  Havells  Digitron  ABB  Siemens  Conserv |
| 7. | **Timer Switches** | (i)  (ii)  (iii)  (iv)  (v)  (vi)  (vii)  (viii)  (ix)  (x) | Schneider  C & S  Legrand  Standard  Havells  L&T  GE/English Elect  ABB  HPL  Indo Asian |
| 8. | **Power factor improvement capacitors** | (i)  (ii)  (iii)  (iv)  (v)  (vi)  (vii) | L&T  Seimens  EPCOS  GE  ABB  Ducati  BCH Electric Ltd |
| 9. | **Cable LT (PVC/XLPE)** | (i)  (ii)  (iii)  (iv)  (v)  (vi)  (vii) | Asian  Finolex  CCI  Havells  RPG/Asian  Universal Cables Ltd  Ravin Cables Ltd |
| 10. | **GI Tubing and Fittings** | (i)  (ii)  (iii)  (iv)  (v)  (vi) | TATA  Jindal  Surya Prakash  Zenith  Indian Tubes Co.  Swastik |

Contd…/-CA NO : CWE KOTA/ALW-53 OF 2018-19 Serial Page No : 123

# Appendix ‘D’

# LIST OF MAKES/MANUFACTURERS OF EQUIPMENTS/MATERIALS

|  |  |  |
| --- | --- | --- |
| **SER NO** | **MATERIAL** | **NAME OF MANUFACTURERS/BRAND NAME** |

|  |  |  |  |
| --- | --- | --- | --- |
| 11. | **LT PANELS, FEEDER PILLAR BOX,** | (i)  (ii)  (iii)  (iv)  (v)  (vi)  (vii)  (viii)  (ix)  (x)  (xi)  (xii)  (xiii)  (xiv) | Neptune  Universal Switch Gear Control  SMS  M/S Rem Electromech Pvt Ltd  ABB  Powerware  L & T  Ess Ess Kay Power System & Control  Havells  Henson Enterprises Pvt Ltd  M/S Sombani Envior Engg Pvt Ltd  SS Electro Power  Indo Asian  Bafna Electrical Co. Jodhpur |
| 12. | **Flexible wires & cables (PVC) upto 1100 Volts (IS-694-2010) (IS Marked)** | (i)  (ii)  (iii)  (iv)  (v)  (vi) | Polycab wires Pvt Ltd (Polycab)  Anchor  Havells  HPL  Wipro  RPG cables |
| 13. | **LED STREET LIGHT FITTING** | (i)  (ii)  (iii)  (iv)  (v)  (vi)  (vii)  (viii) | Philips  Havells  Wipro  Syska LED Lights Pvt Ltd (SYSKA)  Crompton Greaves Ltd  Halonix Technologies Pvt Ltd (HALONIX)  Polycab wires Pvt Ltd (POLYCAB)  C & S Electric Limited |
| 14. | **Steel Tubular Poles** | (i)  (ii)  (iii)  (iv)  (v)  (vi)  (vii)  (viii)  (ix)  (x)  (xi)  (xii)  (xiii)  (xiv)  (xv) | India Tube & Co  India Electric Poles Mfg Co, Maharashtra  Quality Steel Products Ltd, Kanpur  The National Tubing Company, Kanpur  Kalinga Tubes  M/S Bharat Steel Tubes, Haryana  M/S Sohan Lal Gaziabad  M/S Jindal Steel Products, Kanpur  Bombay Tubes  Metal Coats Chennai  Riddi Poles Vadodara  Sankhla Poles Jodhpur  Surjit Singh & Co Mohali  M/S Anil Engineering Corporation Kanpur  Bharat Conduit and Steel Wks Kanpur |

(Signature of Contractor) DCWE (Contracts)

Dated: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ For Accepting Officer