

**MILITARY ENGINEER SERVICES****REPAIRS/REPLACEMENT OF HT NETWORK (OH LINE/UG CABLE) AND CONNECTED WORKS AT SEC IV TO VII AND MD ACCN UNDER ZONE B UNDER GE (U) LTD AT BATHINDA MIL STN****INDEX**

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Signature of Contractor  
Date : \_\_\_\_\_

DCWE (Contracts)  
for Accepting Officer

Tele: 0164-2246143

Headquarters  
Commander Works Engineer  
Military Engineer Services  
Bathinda Mil Stn

8100/46/18-19/ /E8

Nov 2018

M/S \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_**REPAIRS/REPLACEMENT OF HT NETWORK (OH LINE/UG CABLE) AND CONNECTED WORKS AT SEC IV TO VII AND MD ACCN UNDER ZONE B UNDER GE (U) BTD AT BATHINDA MIL STN**

Dear Sir(s),

1. Tender documents in respect of above work are uploaded on the site [http:// defproc.gov.in](http://defproc.gov.in). The tender is on single stage two cover e-tendering system. The contents of Cover I & Cover II are specified in NOTICE OF TENDER.
2. Bids will be received online by ACCEPTING OFFICER upto the date and time mentioned in the NOTICE INVITING TENDER (NIT). No tender/bid will be received in physical form and any tender/bid received in such manner will be treated as non bonafide tender/bid.
3. Bid will be opened on due date and time fixed for opening in the presence of tenderers / bidders or their authorised representatives, who have uploaded their quotation bid and who wish to be present at the time of opening the bids.
4. Your attention is also drawn to instruction on filling and submission of tender attached herewith. You may forward your points on tender documents and/or depute your technical representative for discussion on tender/ drawings and to clarify doubts, if any, on or before **03 Dec 2018**. You are requested not to write piece meal points and forward your points duly consolidated before due date viz **03 Dec 2018**.
5. Unenlisted contractors are required to submit the scanned copies (in pdf file) of documents required as per eligibility criteria mentioned in instructions for filling the tender documents and Appendix 'A' to NIT alongwith EARNEST MONEY DEPOSIT (EMD) and tender fee on e-procurement portal and submit the physical documents in the office of Head Quarter Commander Works Engineer Bathinda Military Station 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.
- (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 Rs. 1875000/- (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 Appendix 'A' to NIT on e-procurement portal and submit physical documents in the office of Head Quarter Commander Works Engineer Bathinda military Station before date & time fixed for this purpose .

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

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

10. General Conditions of Contracts (IAFW-2249) (1989 Print) and errata and amendments thereto, Schedule of minimum fair wages and MES SSR (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.

12. (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.

(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 Rs. 1875000/- (Rupees Eighteen Lakhs seventy five thousand Only).

Yours Faithfully,

Signature of Contractor

Dated:

(Shailendra Kumar)  
EE (QS&C) (SG)  
DCWE (Contracts)  
For Accepting Officer

**INSTRUCTIONS ON FILLING AND SUBMISSION OF TENDER TO BE COMPLIED WITH BY THE TENDERER(S)**

**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 / CCE.

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 alongwith Technical Bid & hard copy before the date & time fixed for opening of BOQ) WILL RENDER THE BID DISQUALIFIED FOR OPENING OF COVER II (FINANCE BID) .

**2. 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 Rs. 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 COMMAND AND WHO HAVE EXECUTED STANDING SECURITY BOND AND DEPOSITED STANDING SECURITY DEPOSIT BUT OF LOWER CLASS**

In case the tender/bid is 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 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 (Refer Condition 22 of GCC (IAFW-2249)).

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

Contractors whose names are on the approved list of any MES formation i.e. other than CE 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 by the contractor of notification of acceptance of tender/bid, failing which the sum shall be recovered from the 1<sup>st</sup> RAR payment or from the Final bill.

**5. GENERAL INSTRUCTIONS FOR COMPLIANCE**

5.1 The bids received only in the electronic form will be considered. All bids shall be submitted on 'eprocuremes.gov.in' portal. Documents should be scanned and forwarded in `pdf form and `xls' form as indicated.

5.2 Bids shall be uploaded on 'eprocuremes.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/ alterations shall be signed/initialed by the lowest bidder after acceptance.

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

**INSTRUCTIONS ON FILLING AND SUBMISSION OF TENDER TO BE COMPLIED  
WITH BY THE TENDERER(S) (CONTD/-)**

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

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 of another partner(s) or on behalf of a firm or company using his DSC shall upload with the tender/bid a scanned copy (in 'pdf' form) of Power of Attorney duly executed in his favour by such other or all of the Partner(s) or in accordance with constitution of the company in case of company, stating that he has authority to bind such other person of the firm or the Company, as the case may be, in all matters pertaining to the contract including the Arbitration Clause.

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

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

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

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

5.11 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 BOO file only. No alteration to the format will be accepted, else the bid will be disqualified and summarily rejected.

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

**6. REVOKATION/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 Government 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.

**INSTRUCTIONS ON FILLING AND SUBMISSION OF TENDER TO BE COMPLIED  
WITH BY THE TENDERER(S)( CONTD/-)**

7. CPM (Critical Path Method)

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

7.2 The tenderer/bidder is 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 in using the technique will be taken as his technical inefficiency and will affect his class of enlistment and future prospect/invitation to tenders for future works.

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

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

Signature of Contractor  
Dated:

DCWE (Contracts)  
FOR ACCEPTING OFFICER

**MILITARY ENGINEER SERVICES**

**IN LIEU OF IAFW-1779-A (REVISED 1955) ITEM RATE TO BE  
USED IN CONJUNCTION WITH GENERAL CONDITIONS OF  
CONTRACT (IAFW-2249 OF 1988 PRINTS)**

Headquarters  
Commander Works Engineer  
Military Engineer Services  
Bathinda Mil Stn

8100/46/18-19/ /E8

Nov 2018

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

**REPAIRS/REPLACEMENT OF HT NETWORK (OH LINE/UG CABLE) AND CONNECTED WORKS  
AT SEC IV TO VII AND MD ACCN UNDER ZONE B UNDER GE (U) BTD AT BATHINDA MIL STN**

1. S'Shri/Shri \_\_\_\_\_  
is/are hereby authorized to tender for the above work. The tender is to be uploaded in the e-tendering portal <http://defproc.gov.in>.
2. All correspondence concerning this tender should be addressed as indicated at the top of this sheet, quoting the reference as indicated.

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

Yours Faithfully,

(Shailendra Kumar)  
EE (QS&C) (SG)  
DCWE (Contracts)  
For Accepting Officer

**SCHEDULE 'A' NOTES**

1. The entire work covered under the contract shall be completed within the period of 06 months (Six months) from the date of handing over site.
2. The quantities shown in column 03 are approximate (Provisional) and are inserted as in guide only. These shall however, not be varied beyond the limits laid down in condition 7 of IAFW-2249 (General Conditions of Contract). The payment shall be made for the actual quantities of work carried out and measured in accordance with the method of measurement as given in the tender documents.
3. The rates and amount under column No 05 shall be filled in by the tenderers on line on <http://defproc.gov.in> website.
4. Unless specified/indicated otherwise, the items of works in various Sections of schedule 'A'/BOQ shall be deemed to include material and labour or supplying and fixing, jointing, connecting, testing etc, complete in all respects.
5. Unless otherwise stated in Schedule 'A' /BOQ and or Particular Specifications the unit rates quoted by the tenderer in column 05 of Schedule 'A' /BOQ shall be deemed to include for all provisions in the preambles given in MES Schedule 2010 as applicable to respective items.
6. The rates quoted by the contractor in this Schedule will be deemed to include all minor extras which are not specifically, mention in Schedule 'A'/BOQ or given in Particular Specifications but are essential for the execution of works/services in a sound and workman like manner. In case of any difference of opinion between the contractor and the GE as to whether or not certain item of work constitute minor extras included in the contractor's prices the decision of the Accepting Officer shall be final and binding.
7. The contractor shall clear the site on completion of work as directed by Engineer-in-Charge.
8. The total amount in summary of cost is not firm but will be treated as 'Contract Sum' referred to in IAFW-2249.
9. The description of items of work given in BOQ are brief, these are deemed to be amplified and read in conjunction with the General Conditions, Particular Specifications and MES Schedule duly amended.
10. Demolished material shall be Government property and shall be deposited in Store Yard of concerned GE except the items those are reused in the same work and or shown in Schedule of Credit to be contractor's property at specified rate.
11. Bidder should check the website periodically for any modified BOQ uploaded by Deppt. and it is his responsibility to ensure the uploading of correct BOQ. In case of his failure to upload modified BOQ, his bid if uploaded and opened by NIC portal shall be rejected and his EMD forfeited. Further in case his offer is shown by NIC system as L1 with original BOQ though revised BOQ is not uploaded by bidder then his bid shall be rejected & EMD forfeited. Under such circumstances the tender shall be retendered and in the next / subsequent calls this bidder shall not be issued the tender.
12. The following abbreviations have been used in Schedule :
  - a) RM : Running Metre
  - (b) Kg – Kilogram
  - (c) Sqm – Square Metre
  - (d) Cum – Cubic Metre
  - (e) M&L- Material and labour
  - (f) S&F- Supply and fix



**SCHEDULE 'A' NOTES**

13. The tenderers are advised to visit the site and acquaint themselves before quoting the tender. The contractor shall visit the site of work on prior appointment with **GE concerned** before quoting/submitting their offer. The tenderers are deemed to have visited the site irrespective of whether they have visited the site or not before quoting the tender. No claim whatsoever arising will be entertained at a later date.
14. Fixed in repairs means taking down the existing one and supplying and fixing the new one in lieu and Fixing only in repairs means taking down the existing one and re fixing the same.
15. **Schedule of Credit:** - Schedule of credit has been prepared duly priced. The quoted contract sum shall be arrived at after deducting amount of schedule of credit from the total amount of BOQ.
16. **The rate quoted by the tenderer shall be inclusive of all types of taxes, levies including GST, labour welfare tax etc. as prevailing on the date of submission of tender.**
17. **Certain taxes such as central excise duty, service tax, additional custom duty, state level value added tax, octroi and other levies which were applicable on interstate transportation of goods are subsumed by GST, thus special condition as per clause No. 28 on serial page Nos 37 for Reimbursement/Refund on variation in prices in taxes directly related to contract value of tender shall be deemed to be amended incorporating GST in lieu of taxes mentioned in the condition but subsumed by GST.**

CREDIT SCHEDULE FOR OLD RETRIEVED MATERIALS

- a) The quantities shown under column 03 are tentative and may vary at site. The rates and the amount of credit assessed by the department are based on position and state of material at site; contractors are advised to visit the site to ascertain the actual condition of material at site. The contractor shall have no claim whatsoever against the department with regards to quantity, shown below, quality of material or rate found to be different in the market.
- b) All the old demolished/dismantled material shall be measured jointly by the Engineer-in-charge and contractor, and recorded in measurement book, However Engineer-in-charge shall only be responsible to full items of material which are given to contractor.
- c) The credit demolished material shall be recovered for full quantity as per Sch 'A'/BOQ irrespective of condition of the material obtained on site.
- d) Credit material shall be removed from the site only after recover of the amount from the respective RAR.

Srl No	Description of item	Unit	Qty	Rate (Rs)	Amount (Rs)
1	Old Unserviceable insulators of any type and size	Each	20	5.00	100.00
2	Old Unserviceable/rusted steel cross arm clamps nut/bolts	Kg	100	15	1500.00
3	Old Unserviceable ACSR of any size	Kg	200	80	16000.00
4	Old Unserviceable switch air break gang operated of any capacity and structure	Each	20	200	4000.00
5	Old Unserviceable male and female contact of any capacity and type	Each Set	20	5	100.00
6	Old Unserviceable GI pipe any size and grade	RM	21	20	420.00
7	Old Unserviceable HT XLPE cable of size 95 sqmm, 3 core	RM	550	40	22000.00
8	Old Unserviceable HT XLPE cable of size 120 to 185 sqmm, 3 core	RM	800	50	40000.00
9	Old Unserviceable joints any size and type	Each	65	40	2600.00
10	Old Unserviceable stay assembly	Each Set	5	100	500.00
			<b>Total</b>	<b>Rs</b>	<b>87220.00</b>

Signature of contractor

DCWE (Contract)  
For Accepting Officer

**GENERAL SUMMARY**

(a) Total amount as per BOQ Rs \_\_\_\_\_  
(Brought forwarded from serial page No 20)

(b) Less amount of credit schedule Rs **87220.00 (Minus)**  
(Brought forwarded from serial page No 21)

Net Contract Sum (a-b) Rs \_\_\_\_\_

Signature of contractor  
Dated :

DCWE (Contracts)  
For Accepting Officer

**SCHEDULE 'B'****LIST OF MATERIALS TO BE ISSUED TO THE CONTRACTOR**

(See condition 10 of IAFW – 2249)

Srl No	Particulars	Rate on which materials etc will be issued to the contractor		Place of issue by name	Remarks
		Units	Rate in Rs.		
1	2	3	4	5	6

**-NIL-**\_\_\_\_\_  
(Signature of contractor)DCWE (Contracts)  
for Accepting Officer

CA NO CWE BTD-46/2018-19

Serial Page No 24

**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 charge per unit per working day	Stand by charges per unit per off day	Place of issue by name	Remarks
1	2	3	4	5	6	7	8

**-NIL-**\_\_\_\_\_  
(Signature of contractor)DCWE (Contracts)  
for Accepting Officer

CA NO CWE BTD-46/2018-19

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**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)  
for Accepting Officer

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

Having examined and perused the following documents:-

1. Specifications – Signed by DCWE (Contracts).
2. Drawings detailed in the list of drawings.
3. Schedule 'A', 'B', 'C' and 'D' attached here to.
4. MES Standard Schedule of Rates-2009 (part-I specifications) and Standard Schedule of Rates 2010 Part-II (Rates) (hereinafter and in IAFW-2249 referred to as the MES schedule) together with errata/amendments as under:-
 

SSR-2009 (Part-I)	:	01 to 03
SSR-2010 (Part-II)	:	01 to 59
5. General conditions of contract IAFW-2249 (1989 Print) together with amendments Nos.1 to 40 and Errata 1 to 20.
6. WATER: CONDITION 31 OF GENERAL CONDITIONS OF CONTRACT IAFW-2249 (1989 PRINT).

Water will not be supplied by MES. The contractor shall arrange his own water for execution of work.

Should this tender be accepted I/We \* agree:-

\*\* (a) That a Sum of Rs. **42,000 (Rupees Forty two thousand only)** forwarded as Earnest Money shall either be retained as a part of Security Deposit or be refunded by the Govt. on receipt of the appropriate amount as Security Deposit all as per condition 22 of IAFW-2249.

To execute all the works referred to in the said documents up to the terms and conditions contained or referred to therein and as detailed in Schedule 'A'/BOQ on the subsequent pages and to carry out such deviation as may be ordered vide condition 7 of IAFW-2249 upto a maximum 10% for this contract and further agree to refer all disputes as required vide condition 70 of IAFW-2249 to the sole Arbitration of an serving officer, having degree in engineering or equivalent or having passed final/direct final examination (Sub Division-II) of Institution of Surveyors (India) recognized by Govt. of India, appointed by the Chief Engineer, Bathinda Zone, Bathinda Mil Stn or in his absence, the officer officiating as Chief Engineer, Bathinda Zone, Bathinda Mil Stn, whose decision shall be conclusive and binding.

\* Delete whichever is not applicable.

\*\* Delete where not applicable.

Contd....

**In lieu of IAFW 1779A**

Signature \_\_\_\_\_ in the capacity of \_\_\_\_\_

duly authorised to sign the tender for and on behalf of M/s \_\_\_\_\_

\_\_\_\_\_ (IN BLOCK CAPITAL)

Witness

Postal Address

Address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

**ACCEPTANCE**

\_\_\_\_\_ Alterations have been made in these documents and as evidence that these alterations were made before the execution of the Contract Agreement; these have been initialed by the contractor and Shailendra Kumar, EE (QS&C) (SG), DCWE (Contracts).

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

The above tender was accepted by me on behalf of the PRESIDENT OF INDIA at the Item Rates contained in Schedule 'A'/BOQ on the \_\_\_\_\_ day of \_\_\_\_\_.

Signature \_\_\_\_\_

COMMANDER WORKS ENGINEERS  
BATHINDA MIL STN  
BATHINDA –151004  
(FOR AND ON BEHALF OF THE PRESIDENT OF INDIA)

Dated \_\_\_\_\_ day of \_\_\_\_\_

**GENERAL CONDITIONS OF CONTRACT: IAFW-2249 (1989 PRINT)**  
**FOR MEASUREMENT CONTRACTS (IAFW-1779& 1779A)**

1. I/We have read and understood the provisions contained in the aforesaid **General Conditions of Contracts** before submission of this tender and I/We agree that I/We shall abide by the terms and conditions therefore as modified if any, elsewhere in these tender documents.

It is hereby further agreed and declared by me/us that **General Conditions of Contracts** (IAFW-2249-1989Print) with Errata 01 to 20 and Amendments Nos 1 to 40 form part of these tender documents and I/We are in possession of the said conditions with errata and amendments.

Note: It is also agreed me/us that in case of any discrepancy in the interpretation of the contents between ENGLISH and HINDI version, ENGLISH version shall take precedence over HINDI version.

DCWE (CONTRACTS)  
FOR ACCEPTING OFFICER

(SIGNATURE OF CONTRACTOR)

**SCHEDULE OF MINIMUM FAIR WAGES PAYABLE BY**  
**THE CONTRACTORS UNDER FAIR WAGES ACT**

1. It is hereby agreed that the 'Schedule of Minimum Fair wages' (SMFW) Published vide Government of India Notification dated 14 Oct 1988 and as amended Subsequently from time to time by the orders of the Competent Central/State Government/local authorities form part of the tender documents.
2. Schedule of Minimum Fair Wages is not enclosed along with tender but the Contractor is deemed to have full knowledge regarding the minimum wages payable to labourers as legally effective on the date of submission of the tender and his tendered rates shall be deemed to have been based on this irrespective of the fact that Gazette Notification may not have been published or that he was unaware of the increase in minimum wages. For the purpose of reimbursement of price variation [PV] clause for wage escalation of labour, the minimum wages legally effective on the date of receipt of Tender shall be the basis.
3. The minimum wage legally effective referred to above are the minimum wages Notified in Gazette/Governed by any local regulations/Central Government/ State Government whichever is higher.
4. My/Our signature hereunder amounts to my/our having read and understood the provisioning contained therein and I/We agree that the aforesaid documents form part of this tender.

DCWE (CONTRACTS)  
FOR ACCEPTING OFFICER

(SIGNATURE OF CONTRACTOR)  
Dated:- \_\_\_\_\_

Notes:- 1. 'Schedule of Minimum Fair wages' referred to above is available for reference, in the Office of CWE Bathinda.

**SPECIAL CONDITIONS****1.0 GENERAL**

- 1.1 The following special conditions shall be read in conjunction with General Conditions of Contracts, IAFW-2249 (1989 print) including amendments and errata thereto. Any provisions in these special conditions, if at variance with the provisions in the above-mentioned documents, provisions given in these special conditions shall take precedence there over.
- 1.2 General rules, preambles, special conditions, method of measurements etc specified in MES standard schedule of Rates shall be applicable unless specific provisions to the contrary are made in these tender documents.

**2.0 INSPECTION OF SITE**

- 2.1 Refer para 11 and 14 of notice of tender (IAFW- 2162), condition 4 of General conditions of contracts (IAFW –2249) for the purpose of inspection of site, the tenderers are advised to contact the GE concerned and visit the site of works with his permission. The tenderer shall be deemed to have satisfied himself before submitting his tender as to the nature of the ground and buildings, (so far as practicable) nature of work and materials necessary for the completion of the works and the means of access to the site, the accommodation he may require and in general shall be deemed to have himself obtained all necessary information on inspection on site as to affect risks, contingencies and other circumstances which may influence his tender. No extra payment consequent on any misunderstanding or mistake or otherwise on this account will be allowed.

**3.0 RECORD OF MATERIALS**

- 3.1 Original vouchers/invoices for the following proprietary materials as required for execution of work shall be produced by the contractor before claiming RAR payments :-
- (i) Integral Water Proofing Compound
  - (ii) Timber for wood work and joinery/factory made shutters.
  - (iii) All types of Builder's Hardware fittings.
  - (iv) MS round/TMT bars ( in case of contractor's supply)
  - (v) MS rolled sections/plate and welded steel wire fabric, rolling shutters/steel/ventilator, Al shutters, PVC Shutters & Frame.
  - (vi) MP tiles, materials for roof statement.
  - (vii) Particle board, decorative laminate, bonded mineral wool blankets plywood, Gypsum board, Glasswool
  - (viii) Marble tile/slab, glazed tile/ceramic tile, terrazzo tiles .
  - (ix) Lime fat, distemper, cement paint.
  - (x) Sheet glass, plain/pin headed.
  - (xi) Pink primer/red oxide, synthetic enamel paint, plastic emulsion, French polish, Varnish, Creosote Oil, Epoxy primer & paint.
  - (xii) Conduits, conduit fittings/PVC casing/caping and accessories.
  - (xiii) All cables, conductors, DG set /VCB / LT panel board and the like.
  - (xiv) PVC water tanks.
  - (xv) Cement
  - (xvi) Steel for reinforcement & structural steel.
- 3.2 In addition to the above any other proprietary materials which are not reflected but included in the work shall also be submitted by the contractor as per the direction of GE, his decision shall be final and binding.
- 3.3 The vouchers/invoices shall be from the manufacturers and/or from their authorized agents for full quantity of respective items required for the work under this contract. These vouchers shall be endorsed, dated and initialed by the Engineer-in-Charge giving the contract number and name of work and a certified true copy of each such voucher signed both by the Engineer-in-charge and the contractor shall also be kept on MES record.
- 3.4 The quantity brought to site shall be recorded in measurement books and signed by contractor and Engineer-in-Charge as a check to ensure that the required quantity have been brought to site for incorporation in the work.
- 3.5 Proprietary materials brought at site shall be stored as directed by Engineer-in-Charge and those already recorded shall be suitable marked for identification.

Contd..



**SPECIAL CONDITIONS(Contd..)**

- 3.6 The contractor shall ensure that materials are brought to site in original sealed in containers or packing bearing manufacturer's marking except in the case of the total requirement less than the smallest packing.
- 4.0 **ALLOTMENT OF LAND FOR STORAGE OF MATERIALS (INCLUDING TEMPORARY BUILDING) ACCOMMODATION OF LABOUR, CANTEEN, FABRICATING WORKSHOP ETC.**  
Delete the following in para 1 of condition 24 of IAFW-2249 General Conditions of Contracts: - "In the event----- of land allotted to him" and the following shall be read in conjunction with condition 24 of IAFW-2249. "The contractor shall only be permitted to store his materials including erecting temporary shed for cement The contractor shall pay a nominal rent of Rupees one 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 the like and labour huts shall be provided in the MOD land the contractor shall make his own arrangements for same and out side the MOD land.
- 5.0 **CO-OPERATION WITH OTHER AGENCIES AT SITE OF WORK**  
The Contractor shall permit free access and generally afford all facilities and usual convenience to other agencies or departmental workers to carryout work if any, under separate arrangements. The contractor shall not be allowed any extra payment on this account.
- 6.0 **SECURITY OF CLASSIFIED DOCUMENTS**  
Contractor's special attention is drawn to conditions 2-A and 3 of IAFW-2249 (General condition of contracts). The contractor shall not communicate any classified information regarding the work either to sub Contractors or other Contractor without the prior approval of the Engineer-in-Charge. The Contractor shall also not make copy of the design/drawings and other documents furnished to him in respect of the work and shall return all documents on completion of the work or earlier on termination of Contract. The Contractor shall along with the 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).
- 7.0 **MINIMUM WAGES PAYABLE**
- 7.1 Refer condition 58 of IAFW-2249. The contractors shall not pay wages lower than minimum wages for labourers as fixed by the Govt of India/State Govt/Union Territory, whichever is higher.
- 7.2 Contractor's attention is also drawn amongst other things to the "explanation to the Schedule of minimum wages".
- 7.3 The fair wage referred to in condition 58 of IAFW-2249 will be deemed to be the same as minimum wages upto date from time to time.
- 7.4 Schedule of minimum wages are not enclosed with the 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.
- 7.5 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.

Contd...

**SPECIAL CONDITIONS (Contd..)****8.0 WATER**

8.1 Reference condition 31 of General Conditions of Contracts, IAFW-2249. Water will not be supplied by the MES. The Contractor shall arrange water at his own cost for this work.

8.2 The Contractor shall make his own arrangement for supply of water, he will be permitted to drill bore well (s) in the area at his own cost. The well (s) dug/drilled by the contractor shall become the property of Govt. after the completion of the work under this Contract without any cost reimbursement to the Contractor. However no recovery shall also be made for water charges in case the Contractor digs his own well(s). The Contractor shall at his own cost get the water tested from recognised Govt. laboratory for its potability and produce the certificate to the GE on demand.

**9.0 SUPPLY OF ELECTRICITY**

9.1 In case the contractor desires to buy electricity from MES, he shall be charged for the electric energy consumed at **Rupees Eight & paisa ten only** per unit for lighting as well as power.

9.2 Electric supply required for the work shall be made available by MES at one point as decided by the GE. The main switch and KWH meter to register the electric energy supplied shall be provided and installed by MES. Contractor shall provide all necessary cables, fittings, etc., from the main switch in order to ensure proper and suitable supply of electricity for the execution of works. All contractors' installation shall conform to and be strictly in accordance with Indian Electricity Act and Rules. Moreover, the layout of cable etc., as proposed by him shall be as per plan approved by the Engineer-in-Charge.

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

9.4 The supply shall be AC, 3 phases.

**10.0 CONTRACTOR'S REPRESENTATIVE AND WORKMEN**

10.1 Refer condition 25 of IAFW-2249. The contractor shall employ only Indian National as his representative, servants and workmen and verify their antecedents and loyalty before employing them for the works. He shall ensure that no person of doubtful antecedents and nationality is in any way associated with any work. If for reasons of technical collaboration or other considerations the employment of any foreign national is unavoidable, the tenderer shall furnish full particulars to this effect to the Accepting Officer at the time of submission of the tender. The Engineer-in-Charge shall have full power and without giving any reasons, to require the contractor immediately to cease to employ in connection with this contract any representative, agents servants and workmen or employees whose continued employment in his opinion is undesirable. The contractor shall not be allowed any compensation on this account.

**11.0 TIME AND PROGRESS CHART USING CRITICAL PATH NET WORK METHOD**

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

11.2 During the currency of the work the contractor is expected to adhere to the time schedule and this adherence will be part of the contractor's performance under the contract. During the execution of the work the contractor is expected to participate in the reviews and updating of the network undertaken by the GE.

Contd...

**SPECIAL CONDITIONS(Contd..)**

- 11.3 These reviews may be undertaken at the discretion of the GE either as a periodical appraisal measure or when the quantum of work ordered on the contractor is substantially changed through deviation order or amendments. Any revision of the schedule as a result of the review will be submitted by the Contractor to the 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 to 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 completion date beyond the stipulated date of completion shall not automatically amount to a grant of extension. Extension of time shall be considered and decided by the appropriate authority mentioned in condition 11 of IAFW-2249 and separately regulated.
- 11.4 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.
- 11.5 No additional payment will be made to the contractor for any multiple shift work or other incentive methods contemplated by him in his work schedule even though the time schedule is approved by the department.
- 12.0 ADVANCE ON ACCOUNT (REFER CONDITION 64 OF IAFW-2249 (Applicable for contracts of value above fifty Lakh):-
- 12.1 Provided further, the contractor may be paid advance on account to the full value of the under mentioned materials only brought on the site, on his furnishing guarantee bond(s) from a schedule bank for the amount of the retention money which should otherwise be recoverable from him under the contract.
- 12.2 The Bank Guarantee Bond (s) shall be executed for a period and on a form as directed by the Accepting Officer. The contractor shall further arrange to extend the period of guarantee bond (s) of an when necessary, as directed by the Accepting Officer or shall furnish fresh guarantee bond (s) of similar value in lieu.
- 12.3 MATERIALS FOR FULL PAYMENT
- (a) Panelled shutters/Flush shutters/Glazed shutters and timber for joinery.
  - (b) Particle Board/ Ceiling board
  - (c) Steel reinforcement.
  - (d) Aluminium Doors/Partitions
  - (e) Steel windows/vents, Rolling shutters
  - (f) Sanitary Fittings
  - (g) Electric light fitting, ceiling fittings, Electrical equipment/machinery.
  - (h) CI/DI/GI water tubing (except tube fittings)
  - (j) Electrical wires, underground cables / HT VCB / ACB.
  - (k) Any other items which are considered as material that deserves full payment in the opinion of GE.
  - (l) MS Post
  - (m) Barbed wire/Chain Link fencing

Contd...

**SPECIAL CONDITIONS(Contd..)**

- 13.0 **QUALIFIED TRADESMEN (APPLICABLE FOR WORKS COSTING RUPEES ONE CRORE OR MORE)** :- In compliance with the Condition 26 of IAFW-2249 (General Conditions of Contracts), the contractor shall employ skilled/semi skilled tradesmen who are qualified and possessing certificate in particular trade from Industrial Training Institute (ITI)/National Institute of Construction Management and Research (NICMAR)/ National academy of construction(NAC) Hyderabad / Construction Industry Development Council (CIDC). Similar reputed and recognized institutes by State/Central Government, to execute the works of their respective trade. The number of such qualified tradesmen shall not be less than 25% of total skilled/semi skilled tradesmen required in each trade. The contractor shall submit the list of such tradesmen alongwith requisite certificate to Garrison Engineer for verification and approval. Notwithstanding the approval of such tradesmen by GE, if the tradesmen are found to have inadequate skill to execute the work of their trades leading to unsatisfactory workmanship, the contractor shall remove such tradesmen within a week after written notice to this effect by the GE and shall engage other qualified tradesmen after prior approval of GE. GE's decision whether a particular tradesmen possesses requisite qualification, skill and expertise commensurate with nature of work shall be final and binding. No compensation whatsoever on this account shall be admissible.
- 14.0 **PERIOD OF KEEPING THE TENDER OPEN**
- 14.1 The tender shall remain open for acceptance for a period of 60 (sixty) days from the last date of submission of bid. The last date of submission of bid shall not be included for the purpose of calculation.
- 15.0 **OFFICIAL SECRET ACT**
- 15.1 Refer condition 2A of IAFW-2249 (General Conditions of contracts). The contractor shall be bound by the Official Secret Act and particularly section 5 thereof.
- 16.0 **QUARRIES:** Quarries are not available on MD land, which is in the charge of the MES authorities. Condition 14 of IAFW-2249 shall thus be treated as deleted.
- 17.0 **CHANGE OF SITING**
- 17.1 No claim shall be entertained and acceptable for any changes in siting, 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.
- 18.0 **LOSS OR DAMAGE ON ACCOUNT OF ENEMY ACTION.**  
(Applicable for works in operational/border area)
- 18.1 **Contractor's plant/equipment at sites:-** The contractor shall furnish to the Engineer-in-Charge every morning distribution return of his plant/equipment on the site of work, stating the following Particulars:-
- (i) Particulars of the plant/equipment its make, manufacture number, model number, if any, registered number, if any, capacity, year of manufacture, year of purchase, etc.
  - (ii) Location indicating number (quantity) at each location on the site of work(s).
  - (iii) Total number (quantity) on site of works(s).
  - (iv) Purchase value on the date of purchase. For the purpose of this condition, plant/equipment include vehicles i.e. trucks and lorries but except neither the workman's tools nor any manually operated tools/equipments. 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.

Contd..

**SPECIAL CONDITIONS(Contd..)**

- 18.2 If as a result of enemy action, the Contractor suffers any loss or damages, the Government shall reimburse to the Contractor such loss or damage to the extent and in the manner here-in-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 legal successor for loss of workmen life.
- (c) Payment of compensation for loss or damage to any work or part of the work carried out. (The amount of compensation shall be determined in accordance with condition 48 of General conditions of contracts (IAFW-2249).
- (d) No reimbursement shall be made nor shall any compensation shall be payable under the above provision unless the contractor had taken Air Defence precautions ordered in writing by GE/OC concerned or in absence of such order, reasonable precautions. No reimbursement shall be payable nor any compensation shall be payable for any plant/equipment or materials not lying on site of work at the time of enemy action.
- 19.0 **ADJUSTMENT OF TAX CONSEQUENT UPON AMENDMENT TO CONSTITUTION**  
Tendered rates are inclusive of all taxes and levies payable under the respective states including the sale tax on works contract levied by the state government in pursuant to Amendment No 46 to the constitution.
- 20.0 **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.
- 21.0 **OUT OF POCKET EXPENSES**  
No out of pocket expenses incurred by the tenderer in submitting this tender will be reimbursed whether his tender is accepted or not.
- 22.0 **DAMAGE TO EXISTING BUILDINGS, ROADS AND DRAINS ETC**  
Any damage to the existing structure/construction/building etc during the execution of work shall be made good by the contractor at his own cost and the site of work shall be left clean and tidy on completion. Rectification/reinstatement, making good etc. shall conform to the standard of material originally used in the work and finished work shall match with existing work in all respects and to the entire satisfaction of the GE. In case of any dispute on this account the matter shall be referred to the CWE whose decision in writing shall be final and binding.
- 22.1 **CONDITIONS OF CONTRACT AND EXECUTION OF WORK**  
The material and workmanship shall satisfy the job specifications contained in latest relevant Indian Standard Codes as applicable as on the date of issue of tender by the accepting Officer where the job specifications stipulate requirement in addition to those contained in the Indian standard Codes of practice, these additional requirements shall also be satisfied by the contractor.
- 22.2 The tendered rates shall be deemed to include all taxes & duties such as octroi, sales tax, excise etc as referred in condition 10 of IAFW 2249.
- 22.3 The contractor shall quote all in rates for various items of equipment inclusive of all taxes and cost of supply and installation and inclusive of all taxes, Octroi, sales tax and the like payable by him. Even if the, contractor has shown his rates separately for supply of equipment and installations the contract being lump sum contract will be treated as composite and indivisible work contract and the contractor shall not be entitled to any reimbursement of sales tax, or any other tax he may have paid to the authorities concerned. Any tender not complying with the condition will be treated as non-bonafide.

**SPECIAL CONDITIONS (Contd..)****23.0 EQUIPMENT AND MATERIALS**

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

24.0 **SOURCES OF MATERIALS**; Refer Appx 'C' here –in- after.

**25. CONDITIONS OF WORKING**

25.1 The work under this contract lies in UN-RESTRICTED AREA. The restrictions for entry to work site and conditions of working in unrestricted area shall be as under :-

25.2 The work lies in UN-RESTRICTED AREA. However, the contractor, his agents, servants, workmen and vehicles may pass through the unit lines, in which case, the Engineer-in-Charge at his discretion has the right to issue passes, control their admission to the site of work or any part thereof. The contractor shall submit a list of personnel etc. concerned and any other information called for by the Engineer-in-Charge and shall satisfy the Engineer-in-Charge as to the bonafide of such people. Passes will be returned at any time on demand by the Engineer-in-Charge and in any case immediately after the completion of work or earlier on termination of contracts.

25.3 The contractor and his work people shall observe all the rules promulgated from time to time by the authority controlling the area where the work is to be carried out viz. Prohibition of smoking 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.

**26.0 FOREIGN LABOUR**

26.1 The Contractor shall employ only Indian Nationals after verifying their antecedents and loyalty. Foreign Nationals including labour shall be excluded from all contract sites Contractor's attention is also drawn to the provisions contained in condition 26 of IAFW-2249 and the official security Act particularly section 5 thereof of the unit concerned in accordance with the standing rules and regulations of the units.

**27.0 INDEMINITY BOND FOR PAYMENT OF LABOUR, WORKMEN EMPLOYED ON WORKS OR OTHER MONEYS OF TENDER PAYMENTS**

The contractor shall execute indemnity bond with the GE for enforcement of various enactments 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 labour employed on works and rules framed there under from time to time for the time being enforce. In case of non compliance of any of the 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 Condition of Contracts.

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**SPECIAL CONDITIONS (Contd..)****28. RE-IMBURSEMENT/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 Sales Tax/VAT on materials, Sales Tax/VAT on works contracts, turnover Tax, Service Tax, Labour Welfare cess/tax etc ) duties, Royalties, Octroi & other levies payable under the respective Statutes. No reimbursement/refund for variation in rates of taxes, duties, Royalties, Octroi & other levies and/or imposition/abolition of any new/existing taxes, duties Royalties, Octroi & other levies shall be made except as provided in sub para here-in-below :-

28.2 (i) The taxes which are levied by Govt at certain percentage rates of contract Sum/Amount shall be termed as "taxes directly related to Contract value" such as Sales tax/VAT on Works Contracts, Turnover Tax, Labour Welfare cess/tax and like but excluding Income tax. The tenderer 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 of 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 payments due to the contractor.

(ii) The contractor shall, within a reasonable time of his becoming aware of variation in percentage rates and/or imposition of any further "taxes directly related to Contract value" , give written notice thereof to the GE stating that the same is given pursuant to this Special Condition, together with all information relating thereto which he may be in a position to supply. The Contractors shall submit the other documentary proof/information as the GE may require.

(iii) The Contractor shall for the purpose of this condition keep such books of account and other documents as are necessary and shall allow inspection of the same by a duly authorized representative of Govt, and shall further at the request of the GE furnish, verified in such a manner as the GE may require, any documents so kept and such other information's as the GE may require.

(iv) Reimbursement for increase in percentage rates/imposition of "taxes directly related to Contract value" shall be made only if the Contractor necessarily & properly pays additional "taxes directly related to Contract value" to the Govt, without getting the same adjusted against any other tax liability or without getting the same refunded from the concerned Govt Authority and submits documentary proof for the same as the GE any require.

(v) However neither form 'D' nor any other form/certificate to this effect shall be Issued / supplied by the department to the contractor.

29. **e-PAYMENT**: Department at their option may make e-payment to contractor. For this purpose contractor shall submit his bank account number and other e-payment details i.e. Name of bank, IFSC code, Bank cancelled cheque or photo copy of cheque or front page of saving bank pass book for making e-payment after acceptance of tender to concerned GE.

\_\_\_\_\_  
Signature of contractor  
Date : \_\_\_\_\_

DCWE (Contracts)  
for Accepting Officer

**PARTICULAR SPECIFICATIONS SECTION-I**  
**GENERAL REQUIREMENTS**

**1. WORK IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS**

- 1.1 The work under this contract shall be carried out in accordance with schedule 'A'/BOQ, Special condition, particular specifications, General specifications and other provisions in the MES Schedule, relevant latest Indian standards and codes of practice. National building codes and drawings forming part of this contract read in conjunction with each other.
- 1.2 The term "General specifications" referred to above as well as in IAFW-2249 (General conditions of contracts) shall mean the specifications contained in MES schedule of rate 2009 (Part-I Specifications) and 2010 (Part-II-Rates) briefly mentioned as MES schedule or SSR.
- 1.3 General Rules, specifications, special conditions and preambles in the MES schedule shall be deemed to be applicable to the work under this contract. Unless mentioned otherwise the provisions in these tender documents shall take precedence over the above said provision in the MES schedule.
- 1.4 Where specifications for any item of work are not given in MES schedule or in these particular specifications or drawings, specifications given in the relevant INDIAN standard specifications or code of practice shall be followed.

**2. SAMPLES OF MATERIALS (ARTICLES AND EQUIPMENTS)**

- 2.1 All materials, articles and equipment's to be incorporated in the work shall be brand new and shall be procured from the manufacturer/authorised agents of the manufacturer and these shall be brought at site in the original packing. If any article is manufactured in more than one quality, the material/article 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/article 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 to in CPM Chart .The approved sample shall be signed by GE as well as contractors representative and shall be kept in safe custody till the expiry of the defect liability period.
- 2.2 The materials articles and equipment referred to in Schedule 'A' shall invariably bear ISI certification mark. These materials although conforming to relevant IS will not be accepted if they do not bear ISI certification mark.
- 2.3 The materials of local origin referred to in Appendix 'C' shall be procured from the sources as indicated against each and shall conform to the quality and the grading specified in SSR/IS.
- 2.4 The materials, articles and equipment not covered in the above Appendices shall bear ISI certification mark. If ISI mark 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.
- 2.5 The contractor shall produce original purchase vouchers to the GE in respect of all materials, articles and equipments for which payment is claimed in RAR as "Materials Lying at Site". However, Purchase Vouchers in respect of cement, steel, major E/M equipments like transformers, DG Sets, pumps, motors, AC & lift equipments will be submitted invariably.
- 2.6 HT/ LT cable of qty more than 500 metre of one size, HT panels, VCBs/ RMU, transformers , stabilizers of capacity more than 500 KVA shall be inspected/ tested in presence of Accepting Officer's rep in the factory premises before dispatch of the material. Contractor shall intimate the planned date of inspection to the GE well in advance for the testing in factory premises by rep of Accepting Officer. All incidental expenditure for getting the testing of the same in the factory premises shall be borne by the contractor without any extra cost to the department.

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**PARTICULAR SPECIFICATIONS SECTION-I (CONTD...)**  
**GENERAL REQUIREMENTS**

**3. PROPRIETARY MATERIALS**

- 3.1 All the proprietary materials such as cement, steel, water proofing compound, bitumen, paints, chemicals for anti termite-treatment and the like which lose their identity and which cannot be measured after incorporation in the work shall be recorded in the measurement book 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.
- 3.2 Proprietary materials brought to site shall be stored as directed by Engineer-in-Charge and those already recorded in measurement book shall be suitably marked for identification.

**4. MAKING CHASES HOLES, ETC IN WALLS AND OTHER SITUATIONS**

- 4.1 Chases/holes etc. shall be left in concrete, brick work, stone masonry, floors and in any other situation for carrying out various items of works as required or as directed by the Engineer-in-Charge, as far as possible during the progress of work in the particular situation and shall be made good in the same mortar/mix as specified for that portion of the work.

**5. CLEANING DOWN**

- 5.1 Refer condition 49 of IAFW-2249 (General Conditions of Contracts). The contractor shall clean all floors, remove cement/lime/paint drops etc. clean the joinery, glass panes etc. touch up all paints work in connection therewith and leave the whole premises clean and tidy to the entire satisfaction of Engineer-in-Charge before handing over the buildings.

**6. CURING AND STRIKING OFF FORM WORK**

- 6.1 The following specifications with regard to curing and striking off form work will be adopted in case of various type of cement issued.
- |   |   |                        |
|---|---|------------------------|
| A. Curing period for structural RCC/PCC Work/Plastering/ pointing/brick work etc for ordinary Portland cement | : | As per IS 456 of 2000. |
| B. Form work (Striking period) for ordinary Portland cement   | : | As per IS 456 - 2000.  |
| <b>C. <u>REMOVAL OF PROPS TO SLABS</u></b>  |   |                        |
| (a) Spanning up to 4.5 metre  | : | 9 days                 |
| (b) Spanning over 4.5 metre   | : | 16 days                |
| (c) Spanning over 6 metre   | : | 23 days                |
| <b>D. <u>REMOVAL OF PROPS TO BEAMS AND ARCHES</u></b>   |   |                        |
| (a) Spanning up to 6 metre  | : | 16 days                |
| (b) Spanning over 6 metre   | : | 23 days                |

7. No claim what-so-ever on account of use of various types of cement used shall be admissible. In case more than one type of cement is used in the work, record shall be maintained indicating date, the exact location of work and type of cement. Record register shall be maintained with daily entries duly authenticated by the contractor or his authorized representative and Engineer-in-Charge. The register shall be kept in the safe custody of the Engineer-in-Charge and shall be produced to the inspecting officer as and when the inspecting officer visits the site for his authentications.
8. A properly bound register showing consumption of steel shall be maintained at site and signed by the Engineer-in-Charge and contractor or his authorized rep and shall be forwarded along with final bill.

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 (Signature of Contractor)

DCWE (Contracts)  
 For Accepting Officer

**PARTICULAR SPECIFICATIONS SECTION-II****1. GENERAL**

- (a) The work under this contract shall be carried out in accordance with the schedule 'A', special conditions, particular specifications, General specifications and other provisions given in the MES Schedule, relevant latest Indian standards and code of practice.
- (b) The term 'General Specifications' referred to above as well as in IAFW-2249 (General conditions of contracts) shall mean the specifications contained in the MES Schedule of 2009 (Part-I Specifications) and Schedule of Rates 2010 (Part-II Rates) briefly mentioned as MES schedule or SSR.
- (c) General Rules, specifications, special conditions and preambles in the MES Schedule shall be deemed to be applicable to the work under this contract. Unless mentioned otherwise the provisions in these tender documents shall take precedence over the above said provision in the MES Schedule.
- (d) Where specifications for any item of work are not given in the MES schedule or in these particular specifications, specifications given in the relevant Indian standard specification or code of practice shall be followed.
- (e) The rates quoted by the contractor shall be deemed to include for the cost of necessary safety appliances required for the workers.

- 2 **SCOPE OF WORK** : Work under this contract relates to the **REPAIRS/REPLACEMENT OF HT NETWORK (OH LINE/UG CABLE) AND CONNECTED WORKS AT SEC IV TO VII AND MD ACCN UNDER ZONE B UNDER GE (U) BATHINDA AT BATHINDA MIL STN** at various locations throughout the Bathinda Mil Stn as described in BOQ, Particular Specifications. The tenderers advised to visit the site in consultation with GE to ascertain the actual locations of works, nature of work and quantum of work etc. involved, restrictions etc imposed on the entry/exit of labour including requirement of verification of antecedents of labour/supervisors/work men and issue of passes etc in respect of such people to be employed for the work by the contractor and/or any other factors which may effect his rates. The contractor shall be deemed to have visited the site and acquainted himself with all these important aspects mentioned here-in-before, irrespective of the fact whether he actually visits the site or not and no claim what-so-ever shall be entertained on this account at a later date .

**3. EARTH WORK**

- 3.1 Excavation in trenches and over areas as applicable shall be carried in soft/loose soil for foundation to depth and dimensions as shown/indicated on drawings and as described in paras 3.13.1 to 3.13.5 of MES Schedule part-I. Bottom surfaces of excavation shall be watered and rammed. In the event of deviation, the rates in MES Schedule for soft/loose soil shall be applicable subject to contractor's percentage.
- 3.2 In case timbering to excavation is required and accordingly specifically ordered by the GE in writing, this shall be paid as a deviation.
- 3.3 Bailing/Pumping out of water where required shall be carried out as described in para 3.17 of MES Schedule Part-I. However, no payment shall be admissible on this account.

**3.4 EARTH FILLING**

- 3.4.1 All soil obtained from excavation as stated above (other than the soil obtained from site clearance and surfaces dressing) as approved by GE shall be used for filling around foundations, under floors and other situations to make levels/slopes etc, as specified and shown on the drawings in layers not exc. 25cm thick, watered and rammed all as per paras 3.19 of MES Schedule Part-I.
- 3.4.2 In case additional earth is required for filling, the same as approved shall be obtained from locations as directed by the Engineer-Charge and the payment for the same shall be made under the item for removal of surplus soil.

**PARTICULAR SPECIFICATIONS SECTION-II (Contd..)****3.5 DISPOSAL OF SURPLUS SPOIL**

3.5.1 Surplus spoil, if any, from excavation after use in earth filling shall be removed to a distance not exc. 50 metres and deposited, spread and leveled to the entire satisfaction of the Engr-in-Charge without any additional payment.

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**10.0 EXTERNAL ELECTRIFICATION****10.1 GENERAL :**

The rates quoted by the Contractor shall be deemed to include for any minor details of construction which are obviously intended and which may not have been specifically included in these documents, but which are essential for the execution and entire completion of the work.

10.1.1 The routes for under ground cables etc is shown in the site plan as a guideline for quoting tender. The tenderer shall mark the route on the ground and shall get it approved by the GE before the actual commencement of the work.

10.1.2 The rates quoted for supplying and fixing of cables and other equipments shall be deemed to include for the necessary breaking of walls / floor / road surfaces etc and making them good to match with the existing finishes.

10.1.3 The unit rate quoted by the tenderer for supply and installation of the dynamic equipment shall be deemed to include the cost of foundation wherever necessary.

10.1.4 Wherever reference to samples is made in this tender documents the same shall be read as samples kept in sample room of the office of GE.

**10.2 STANDARD AND QUALITY OF WORK**

10.2.1 The entire electrical work under this contract shall be carried out in strict compliance with these specifications and in conformity with the provisions contained in the latest edition (including amendments) of Indian Electricity Act 1940, Indian Electricity Supply Act 1948 as amplified and enforced by the Maharashtra State Govt.

10.2.2 All electrical work shall be carried out by properly skilled electrician under the supervision of suitably qualified electrical supervisors and the contractor on demand by Engineer-in-Charge shall produce such evidence either at the commencement of the work or at any time thereafter when called for.

10.2.3 All equipments and materials to be used in the work shall have ISI mark on them as are available in the market. However if equipments and materials with ISI mark are not available, the equipments and materials supplied by the contractor shall comply with relevant ISS and if relevant IS has not been issued, these shall comply with current relevant BSS unless otherwise specified in these tender documents.

10.2.4 In case tenderer's offer conforms to standard specification other than ISS / BSS, copies of such standard specification with English translation and salient points of comparison between the two standards shall be submitted alongwith the tender.

10.2.5 Approval of the GE as referred to in Clause 19.2.1 of MES Schedule Part I shall be in writing. Approved samples shall be labelled as such and signed by both the contractor and the GE. The sample shall be kept in the custody of the GE till the final completion of the work, except for high value items for which the required quantity is not more than five.

10.2.6 The materials shall be brought to the site by the contractor in the manufacturer's original packing with seal intact or with makers wrapper on and shall not be installed unless approved by Engineer-in-Charge/GE.

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**PARTICULAR SPECIFICATIONS SECTION-II (Contd..)**

10.2.7 Tenderer is free to choose any of the makes mentioned in the Appendix 'C', however he shall give in writing alongwith the submitted tender, the make selected by him in his offer. In absence of such letter, the decision of Accepting Officer shall be final and binding.

10.2.8 All the materials and equipments shall be of the best class and quality and shall have to be capable of satisfactory operation in the tropics under hot and humid atmospheric conditions. The installation shall strictly comply with the provisions contained in the latest edition of Indian Electricity Rules.

10.2.9 The workmanship shall be of the highest grade and the entire construction shall be in accordance with the best modern engineering practice.

10.2.10 All similar materials and removable parts of similar equipments shall be interchangeable with each other. The equipments should be designed to facilitate inspection and repairs and ensure satisfactory operation under the atmospheric conditions prevailing at site, under sudden variations of load and voltage as may be met with under different working conditions in the system.

**10.3 EXCAVATION AND EARTHWORK**

10.3.1 Excavation and earthwork for laying cables, pipes etc shall be carried out as laid down in MES Schedule Clause 3.20 to 3.20.4 and 19.74 and 19.75 to a depth as ordered by the GE.

10.3.2 The excavation for laying cables shall be measured under respective Schedule.

10.3.3 Removal and disposal of surplus spoil after utilising approved earth within a distance specified in BOQ and depositing at places as directed by the Engineer-in-Charge.

10.3.4 The hard rock measurements / excavation records shall be simultaneously recorded in the MB as the work progress and all the MB entries of hard rock excavation shall be approved by GE.

**10.4 CABLE TRENCH AND LAYING OF CABLES**

10.4.1 The depth of trench for the purpose of excavation in trenches shall comply to clause 19.74.1 of SSR Part-I. The depth of the trench as specified there in may however be altered to suit site condition. The width of the trench shall be authorised width as specified in clause 3.2.3 of SSR Part-I.

10.4.2 The method of laying cable shall be as specified in clause 19.75 of SSR Part I. The bricks shall be laid on the sand cushion.

10.5 **SAND FILLING**: Sand for filling in trenches where specified or indicated shall be free from foreign materials, and shall be natural river sand.

**10.6 AGGREGATE**:

10.6.1 Coarse aggregate shall be of graded broken trap stone and shall conform to the sample kept in the office of the GE.

10.6.2 Fine aggregate (sand) shall be from natural sources and shall conform to the sample and grading kept in the sample room of GE.

10.7 **CEMENT CONCRETE**: Type of mixes of cement concrete required for works in various situations shall be as stated in BOQ.

10.8 **MIXING**: Mixing of all cement concrete shall be done in mixer machines, Where small quantities of cement concrete is involved, hand mixing may be adopted, if approved by the Engineer-in-Charge.

**10.9 FORM WORK**

10.9.1 Form work shall be of steel or plywood or timber of adequate strength and for finished surfaces suitable for the description of the item of work.

10.9.2 Screws need not be used in the form work except at the discretion of the Contractor for his own convenience.

10.9.3 The Contractor's attention is invited to the stipulation in clause 4.11.6.3 of MES Schedule Part I regarding stripping off form work. The periods stipulated there in are for concrete using ordinary Portland cement

**PARTICULAR SPECIFICATIONS SECTION-II (Contd..)****10.10 WELDING**

10.10.1 Welding shall be generally done by metal arc process unless oxyacetylene welding is specifically permitted by the GE in writing. All welds shall be made in flat position where possible.

10.10.2 The areas of welding shall be well cleaned to remove any paints, scales or rust to obtain clean metal surface, immediately before welding. The members shall be securely held in position by means of tack welds, service bolts, clamps or jigs before commencing welding. The welding of a joint shall be so arranged that resulting tensile and compressive stresses produced by all portions of the weld tend to balance each other. The step back method shall be adopted for continuous weld.

**10.11 BOLTS, NUTS, WASHERS:**

10.11.1 All bolts and nuts shall be MS, HRH, and of the dimensions specified/shown in the drawings. They shall conform to IS-1363. The washers shall be of sufficient thickness. All bolts and nuts shall be of grade black (B) and in general shall comply with IS-1367 and shall be dipped in oil while hot. Steel required for items of works under this Schedule shall be procured by the contractor, under his own arrangements and will not be issued under Schedule 'B'.

**10.12 PAINTING**

10.12.1 All MS works including poles etc, shall be painted after preparation of surfaces with two coats of aluminium paint, one coat before erection / fixing and other coat after erection / fixing over a priming / shop coat of red oxide primer done at the end of fabrication.

10.12.2 The portions which are required to be embedded in earth / concrete will be painted with two coats of approved paint over one coat of red oxide primer.

10.13 GI PIPES GI pipes for cable guard shall be all as specified in Schedule 'A' & conforming to IS-1239 (Part-I). The pipes shall be fixed to poles etc. with suitable MS clamps, bolts, nuts and washers.

10.14 RCC PIPES RCC pipes shall be all as specified in Schedule 'A' & conforming to IS-458.

**10.15 POWER CABLES**

10.15.1 The LT under ground cables shall be 1100 volt grade, 3 ½ core/ 4 core / 2 core PVC armoured, heavy duty with aluminium conductor of sizes as specified in Schedule 'A' suitable for earthed system and conforming to IS-1554(Part I). All HT cables shall be of three core aluminium conductors, XLPE insulated, armoured and conforming to IS-7098(Part 2)/1985. These cables shall be suitable for earthed system.

10.15.2 The cables shall be laid in trenches at a depth as specified in Clause No 19.74.1 of SSR Part-I(Specifications).

10.15.3 The cable trench shall be carefully leveled and rendered free of stones. Before laying cable, a layer of 8 cm of sand shall be provided and after the cable has been laid, it shall be covered with sand to a depth of 15 cm before bricks are laid. This is then gently punned down to a depth of 10 cm above the top of upper most cable, thus providing a good bedding for providing pre cast PCC slab cable protection, which are placed over the cables. Contractor shall produce test certificate for PCC pre cast slab cover.

10.15.4 For spacing between cable, Cables laid in tier formation at road / railway crossing and laying of cables inside buildings refer SSR Part I Para 19.76, 19.78, 19.79 & 19.82. of SSR Part I.

10.15.5 The rates quoted by the tenderer for supplying and fixing of cables of walls, poles / bastions and other similar positions shall be deemed to include clamps fabricated out of flat iron 30 x 6mm including nuts, bolts, and washers fixed at an interval of 1.5 m apart. Excavation and earth work shall be measured and paid separately

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**PARTICULAR SPECIFICATIONS SECTION-II (Contd..)**

10.15.6 The rates quoted by the tenderer for supplying, laying, jointing and testing of cable shall include the cost of straight through joints on long run of cable. No straight through joints shall be acceptable on a length less than standard cable drum length or otherwise as directed by the Engineer-in-Charge.

10.15.7 Cable route indicators shall be provided all as specified in BOQ.

10.15.8 After completion of work the contractor shall submit a cable route chart. This shall depict the complete layout of the cables on the ground with their sizes, turning points accurately marked with reference to certain permanent points and building etc.

10.15.9 While transporting cable, cable drum shall be mounted on cable wheels sufficient to take the weight of drum with cable which are to be pulled by means of ropes or alternately the drum may be mounted on trailer or a vehicle with a low loading platform to the destination.

10.15.10 Under ground cable shall be laid out by mounting the cable drum on jacks or cable wheels with a spindle of sufficient strength placed on the jacks horizontally so that the drum is free to rotate axially. Cable shall be pulled by means of ropes gently from the drum. In no case the drum shall be rolled for taking out cable.

10.15.11 While laying the cable the same shall be fitted over rollers beginning from one end by helpers 10 yards apart and drawing straight and taken off the rollers by the helpers lifting the cable and then laid straight into the route provided. By the help of string line drawn into the trench. Kinks shall be avoided.

10.15.12 Cable glands shall be of brass with double compression type nuts and shall be as approved by GE.

**10.16 TESTING CABLES :**

The new cables shall be megger tested before jointing as well as after completion of jointing of cables. Cables shall be tested for :-

- a) Continuity.
- b) Insulation resistance between conductor to earth.
- c) High voltage test.
- d) Earth test.

10.16.1 The results shall be tabulated and submitted to the Engineer-in-Charge duly signed by the Contractor and authorized MES representative.

10.17.1 The HT Cable shall be inspected/ tested by the rep of accepting officer at the factory premises prior to dispatch of cables.

10.17.2 HT Testing in accordance with existing IE rules shall be carried out to entire satisfaction of MES. Any cost towards this testing & commissioning shall be deemed to be included in the rates quoted by the contractor.

10.17.3 **PRELIMINARY TO MAKING JOINT OR CUTTING CABLES** :- The work shall be carried out all in accordance with clause 19.84 of SSR Part-I (2009)

10.17.4 **CABLE JOINTS** :- The work shall be carried out all in accordance with relevant clause of SSR Part-I (2009)

10.17.5 **STRAIGHT THROUGH JOINTS** :- The work shall be carried out all in accordance with relevant clause of SSR Part-I (2009)

10.18 to 10.21 Blank

10.22 **STAY AND STAYING ARRANGEMENTS**:-Refer paras 19.55, 19.55.1, 19.55.2, & 19.55.3 of MES Schedule Part I. For stay assembly's and stay wires refer clause 19.7 & 19.8 of MES Schedule Part I.

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**PARTICULAR SPECIFICATIONS SECTION-II (Contd..)**

- 10.23 **PRECAST CONCRETE CABLE COVER**: Provide precast concrete cable covers all as specified in para 19.20 of MES Sch Part I.
- 10.24 **PORCELAIN INSULATORS**: Porcelain insulations shall comply with IS 1445 and IS 731. The porcelain shall be sound, free from defects, thoroughly vitrified and smoothly glazed.
- 10.25 **TEST CERTIFICATE**  
 Manufacturer's test certificate shall be furnished by the contractor to the GE in respect of the following items before installation.
- (a) Switch gear LT
  - (b) Cable LT
  - (c) Relays and instruments
  - (d) Insulated rubber matting
  - (e) Switch fuses
  - (f) All HT Equipment
- 10.26 **TECHNICAL LITERATURE**  
 The tenderer shall submit along with the offer three complete sets of detailed specifications, instruction manuals and descriptive literature for all equipments offered by him. The contractor shall within 4 weeks of acceptance of tender submit detailed dimensional drawings, wiring diagrams etc for approval of the GE.
- 10.27 **TEST ON COMPLETION**: The following tests shall be carried out by the contractor after completion of the work in presence of Engineer-in-Charge. The results of such tests shall be recorded and signed by the contractor and the Engineer-in-Charge. All testing apparatus required to carry out the under mentioned tests shall be arranged by the contractor without any extra cost to the Govt. The work which does not withstand satisfactory test shall be re-executed by the contractor at his own expense :-
- a) **POLARITY TEST** : This shall be made to ensure all switches are connected to the correct phase or live conductor of supply.
  - b) **RESISTANCE OF EARTH CONTINUITY PLATE** : Maximum continuity resistance test shall be carried out with continuity tester of a low reading Ohm meter. From any point in the installation, including the earth continuity conductor and earth lead to earth plate the resistance shall not exceed 1 Ohm.
  - c) **EARTH TEST** : Effectiveness of earth shall be tested by earth tester.
  - d) **INSULATION TEST**: The test shall be carried out by 500 volt megger testing set for LT system, 1000 Volts Meggar testing set for 11 KV lines and 5000 Volts Meggar testing set for 22 KV lines. The insulation resistance shall be measured by the meggar between all conductors connected to natural phases of supply and the results shall not be less than those specified in the relevant IS / IE rules.
- 10.28 **G.I. EARTH WIRE**: Plain G.I. Steel wire shall conform to IS-280. The wires shall be round free from splits, kinks, surface flukes, rough, jagged and imperfect edges and all other harmful defects. The zinc coating shall be smooth even and bright.
- 10.29 **CROSS ARMS, BRACINGS, SUPPORTS, CLAMPS ETC** : Refer paras 19.9 of MES Schedule Part I.
- 10.29.1 The cross arms, bracings, supports and clamps shall be fabricated out of MS channel /angle/flat iron as shown in drawings. The cross arms shall be fixed to the poles by means of clamps made out of MS flat iron of size not less than 50 x 6mm. All nuts, bolts, washers used in fixing clamps shall be galvanised mild steel and of size 19mm dia. Bracings shall be fixed on 2 pole structures as directed by the Engineer-in-Charge.
- 10.29.2 All cross arms; clamps supports and bracings shall be painted with two coats of aluminium paint over a coat of red oxide primer before fixing on the poles. 2nd coat of paint shall be applied on cross arms, supports, and bracings after completion of fixing the same and stretching of ACSR conductor on poles.

**PARTICULAR SPECIFICATIONS SECTION-II (Contd...).**

10.29.3 While calculating the weight of steel, the weight of nuts/bolts/washers etc shall be included for payment and weight of paint will not be included for payment.

**10.30 AIR BREAK GANG OPERATED SWITCH**

Air break gang operated switch shall be with expulsion fuse and conforming to IS-1818 and 5792, shall be three pole type, 3 insulator per phase triple pole racking out door type suitable for vertical mounting with accruing horns. Each triple pole switch shall be supplied complete with vertical. Operating medium grade GI pipe and fittings specified, dia and length, phase coupling shaft, operating handle. The non-ferrous parts shall be electroplated and ferrous parts hot dip galvanised. The switch shall be of robust construction for accommodating aluminium conductors

**10.31 LIGHTNING ARRESTER**

Lightning arrestor of non linear type shall be as described in Sch 'A' and shall conforming to IS-3070 Part-I.

**11. APPLICABILITY OF RULES REGULATIONS AND CODE OF PRACTICE**

11.1 The entire electrical installation under this contract shall comply with the requirements of Indian Electricity Rules/Acts National electrical Code, relevant Indian Standard Specifications and other regulations such as those made under factories Act and fire insurance Act, as may be applicable from time to time.

11.2 Power is being received from State electricity Board and therefore all plants, equipment's and electrical work shall comply with relevant rules of that authority also. It shall be the responsibility of the contractor to ascertain from state electricity Board Rules and Regulations, application for these installation under this contract shall be executed as per latest Indian Standard code of practice.

**12. SCAFFOLDING / LADDERS**

12.1 Wherever scaffolding is necessary required to execute the work, it shall be carried out all as per relevant clause of SSR 2009 (Part-I) and the same shall be arranged by the contractor at their own cost and arrangement.

12.2 The T & P / vehicles and necessary ladders etc. will be arranged by the contractor and the cost deemed to be included in the quoted rates of respective items of BOQ.

**13. SAFETY PROCEDURE AND PRACTICE**

13.1 Work shall be carried out all as specified in BOQ as directed by Engineer-in-Charge. The contractor shall take precaution to entire safety as per latest safety code execute the work as per the code of precautions and also as per para 19.2.7 of SSR – 2009 (Part – I)

13.2 All safety precautions as per IE Rule shall be taken by the contractor. Contractor shall be responsible for any loss/ damage to MES equipments/ machinery and the same shall be made good without any extra cost to the Govt. In case of any mishap/ accident the contractor shall solely be responsible to settle all the claims with labour reps/ Labour Welfare Officer/ Court without any extra cost to the Govt

**14 ACCEPTANCE OF MATERIALS :-** The order of precedence for acceptance of materials to be incorporated in this work shall be as under :-

- (a) Materials with ISI marking.
- (b) In case of non-manufacture of ISI marked materials conforming to relevant IS (latest edition).

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**PARTICULAR SPECIFICATIONS SECTION-II (Contd..)****15 PRODUCTION OF PURCHASE VOUCHERS**

15.1 The Contractor shall submit original purchase vouchers, manufacturers test certificate, invoice from authorized agents/ dealers in respect of purchase of items for which makes have been specified and incorporated in the contract including cables to the Engineer-in-Charge who shall be responsible to verify and deface the same before according his permission to incorporate such material in the work. These original purchase vouchers/ invoices shall be released to the contractor duly defaced by Engineer-in-Charge after technical check of the final bill by Garrison Engineer/ Commander Works Engineer. In exceptional cases where the contractor demands for return of the original vouchers/ invoices for submission to income tax/ sales tax department prior to technical check of final bill by the Garrison Engineer/ Commander Works Engineer then Engineer-in-Charge, if satisfied about the genuineness of the requirement may return the original vouchers/ invoices to the contractor. However, photo copy of each such vouchers/ invoice shall be retained by Engineer-in-Charge.

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**17. SAFETY PRECAUTIONS:**

17.1 The contractor shall take all safety precautions as per relevant IS code and as specified below during execution of the work :-

- a) The contractor/supervisor to meet user department Manager/co-ordinator every day before commencement of work and intimate the nature of work and area of work to the user department so that the area be cordoned off and no workers are present underneath.
- b) The contractor to ensure that labourers employed on work where risk of fall exists are provided with safety belt with leather shoulder straps of not less than two inches in width and 'D' rings at the back for fastening of rope, the other end of which shall be securely tied or hooked to suitable rigid fixture whilst working. Where no suitable rigid fixture exists, one may be specifically constructed/fabricated prior to commencement of the work.
- c) Wearing of safety helmets to be ensured at all time while doing work.
- d) Labourers above 60 years of age are not to be employed by the contractor for the works inside ND (V), as they can not be covered by insurance policies.
- e) Arrangements be made by the contractor for timely administration of first aid and the contractor and his supervisors should be aware of the proximity of hospitals/ medical units close to the work site.
- f) Chief Security Officer, the Garrison Engineer and Asst. Garrison Engineer are to be informed by the contractor as soon as accident occurs.
- g) Compensation to the family of deceased on account of death of the labourer is to be provided by contractor through the Commissioner of workers compensation.
- h) All personnel employed against any of the contracts awarded are to be insured against accident by the contractor, prior to commencement of the work.
- j) Goggles/shields and gloves are to be used during welding/brazing operations.
- k) Electrical equipment being used should be adequately earthed.
- l) Insuring the Workmen:-All the workmen engaged in the work shall be insured suitably by the contractor for the risks of working in confined places etc.
- m) Construction labour welfare tax:-The rates quoted by the tenderer shall be deemed to be inclusive of construction labour welfare tax.

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**PARTICULAR SPECIFICATIONS SECTION-II (Contd..)**

- n) Shut-down of electric supply:-The contractor shall commence electricity connected works only after shut-down of electric supply. The contractor shall obtain prior written permission/orders for shut down of electric supply. The loss of time, manpower and such aspects as a result of the above shall be considered by the contractor at the time of tendering.
- p) Constant watch of the workmen:-The contractor should ensure a suitable system for his men working to know/vigilant about their working place at any time and to alarm them about the impending dangers if any.
- 17.2 The cost of provision of the above shall be deemed to be included in the rates quoted by the contractor. No extra payment whatsoever on this account will be allowed.
- 17.3. REMOVAL OF DEBRIS:-The contractor is responsible for removal all the debris and other foreign materials (generated during execution of the work) at the place as directed by Engineer-in-Charge.
18. **M.E.S SAFETY CODE**
- (i) Suitable scaffolds should be provided for workmen for all works that cannot safely be done from the ground or from solid construction except such short period work as can be done safely from ladders. When a ladder is used an extra Mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well suitable foot holds and hand holds shall be provided on the ladder and the ladder shall be given an inclination not steeper than 1/4 to 1 (1/4 horizontal and 1 vertical).
- (ii) Scaffolding or staging more than 3.5 Meters above the ground or floor, swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly attached bolted, braced and otherwise secured at least 1 meter high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside, and ends thereof with only such openings as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
- (iii) Working platform Gangways and Stairways should be so constructed that they should not sag unduly or unequally and if the height of the platform of the Gangway or the stairways is more than 3.5 metres above ground level or floor level they should be closely boarded, should have adequate width and should be suitably fenced as described in 2 above.
- (iv) Every opening in the floor of a building or in a working platform be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing whose minimum height shall be 1 metre.
- (v) Safe means of access shall be provided to all working platform and other working places. Every ladders shall be securely fixed. No portable single ladder shall be over 9 metre in length while the width between side rails in rung ladder shall no case be less than 30 cms for ladder upto and including 3 metres in length. For longer ladders this width should be increased at least 6mm for each additional 30 cms. Uniform step spacing shall not exceed 30 cms. Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites of work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The contractor shall also provide all necessary fencing any light to protect the public from accident and shall be bound to bear the expenses of defence of every suit, action or other proceedings, at law that may be brought by any person for injury sustained owing to neglect of the above precaution and to pay any damages and costs which may be awarded in any such suit, action or proceedings to any such person or which may with the consent of the contractor be paid to compromise any claim by any such person.

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**PARTICULAR SPECIFICATIONS SECTION-II (Contd..)**

- (vi) Excavation and trenching :- All trenches 1.2 metres or more in depth, shall at all times be supplied with at least one ladder for each 30metres in length or fraction after thereof ladder shall be extended from bottom of the French to at least 1 metre above the surface of the ground. The sides of the trenches which are 1.5 metres or in depth shall be stopped back to give suitable slope or securely held by timber bracing so as to avoid the danger of sides to collapse the excavated material shall not be placed within 1.5 metre of the edge of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances undermining or under cutting shall be done.
- (vii) Demolition – Before any demolition work is commenced and also during the process of the Work:-
- (a) All roads and open areas adjacent to be work site shall either be closed or suitably protected.
- (b) No electric cable or apparatus which is liable to be a source of danger over a cable or apparatus used by the operator shall remain electrically charged.
- (c) All practical steps shall be taken to prevent danger to persons employed from risk or fire or explosion of flooding. No floor, roof or other part of the building shall be so overloaded with debris or material as to render it unsafe.
- (viii) All necessary personal safety equipment as considered adequate by the Engineer-in-Charge should be kept available for the use of the persons employed on the site and maintained in a condition suitable for immediate use and the contractor should take adequate steps to ensure proper use of equipment by those concerned.
- (a) Workers employed on mixing Asphalted materials, Cement and lime mortars shall be provided with protective goggles.
- (b) Those engaged in white washing and mixing or stacking of cement bags or any materials which is injurious to the eyes shall be provided with protective goggles.
- (c) Those engaged in welding works shall be provided with welder's protective eye shields.
- (d) Stone breakers shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
- (e) When workers are employed in sewers and manholes, which are in use, the contractor shall ensure that the manhole covers are opened and are ventilated at least for an hour before the workers are allowed to get into the manholes and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public.
- (f) The contractor shall not employ men below the age of 18 and women on the work of painting with products containing lead in any form. Whenever men above the age of 18 are employed on the work of lead painting, the following precaution should be taken :-
- (i) No paint containing lead or products shall be used except in the form of paste or ready made paint.
- (ii) Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint dry rubbed and scraped.
- (iii) Overalls shall be provided to enable the working painters to wash during and at cessation of work.
- (ix) When the work is done near any place where there is risk of drawing, all necessary equipments should be provided and kept ready for use and all necessary steps taken for prompt rescuer of any person in danger and adequate provision should be made for prompt first-aid treatment of all injuries likely to be sustained during the course of the works.

Contd..

**PARTICULAR SPECIFICATIONS SECTION-II (Contd..)**

- (x) Use of hoisting machines and tackle including their attachments, anchorage and supports shall confirm to the following standard or conditions :-
- (a) (i) These shall be of good mechanical construction, sound material and adequate strength and free from patent defect and shall be kept in good repairs and in good working order.
- (ii) Every rope used in hoisting or lowering materials or as a means of suspension shall be of 31 durable quality and adequate strength and free from patent defect.
- (b) Every crane driver or hoisting appliance operator shall be properly qualified and no person under an age of 21 years should be in charge of any hoisting machine including any scaffold which or give signals to the operator.
- (c) In case of every hoisting machine and of every chain ring hook, shackle swivel and pulley block used in hoisting or lowering or as means of suspension of safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load, In case of hoisting machine having a variable safe working load, each safe working load of the conditions under which it is applicable shall be clearly indicated. No part of any machine or of any gear referred to above in his paragraphs shall be loaded beyond the safe working load except for the purpose of testing.
- (d) In case of departmental machine the safe working load shall be modified by the Electrical Engineer-in-charge. As regards contractor's machine the contractor shall notify the safe working load of the machine to the Engineer-in-charge whenever he bring any machinery to site of work and get it verified by the Electrical Engineer concerned.
- (xi) Motor gearing, transmission, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards, hoisting appliances should be provided with such means as will reduce to the minimum the risk of accidental descent of the load, adequate precautions should be taken to reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced when workers are employed on electrical installations which are already energized insulating mats, wearing apparel such as gloves, sleeves and boots as may be necessary should be provided. The workers should not wear any rings, watches and carry keys or other materials which are good conductor of electricity.
- (xii) All scaffolds, ladders and other safely devices, mentioned or described herein shall be maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities shall be provided at or near places of work.
- (xiii) These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at the workspot. The persons responsible for compliance of the safety code shall be named therein by the contractor.
- (xiv) To ensure effective enforcement of the rules and regulations relating to safety precautions the arrangement made by the contractor shall be open to inspection by the Labour Officer, Engineer-in-Charge of the Department of their representatives.
- (xv) Notwithstanding the above clause from (i) to (xiv) there is nothing in these to exempt the contractor to exclude the operations of any other Act or Rules in force in the Republic of India.

Contd..

**PARTICULAR SPECIFICATIONS SECTION-II (Contd..)****16. DISMANTLING / TAKING DOWN**

- 16.1 It shall be as per relevant section of SSR-2009 part-I.
- 16.2 No recondition, used equipment/material, old dismantled material shall be allowed to be used in the work. Unless otherwise specifically mentioned in BOQ.
- 16.3 The old dismantled material mentioned in Schedule of credit shall be property of the contractor. The rates for credit of these materials has been mentioned by the deptt in the Schedule of credit. The contract sum shall be calculated after deducting the credit amount. The material, if any, for which no credit is considered in the schedule of credit, the same shall be the property of department and shall be deposited in the store yard of AGE E/M (E/S) of GE (Utility) Bathinda Mil Stn without any extra cost to the Govt.
- 16.4 All the new material against the old dismantled materials shall be of the same make, quality as of the original one or superior to that.
- 16.5 The inventories shall be prepared before the taking down of the materials duly signed by the Engineer-in-Charge and contractor. The contractor shall be responsible for dismantling without proper inventories.
- 16.6 After completion of work site/sites shall be cleared to the entire satisfaction of Engr-in-Charge.
- 16.7 Proper care shall be taken while taking down and refixing the material in position to avoid any damage to the equipment. Any damage done to the equipment by the negligence of contractor or his workmen shall be made good by the contractor without any extra cost to the Govt.

**17. SITE CLEARANCE**

- 17.1 Road / track cuttings, damage to certain roads, floor, wall etc occurring while carrying out the work will have to be made good by the contractor to match with the existing specification to the satisfaction of Engineer-in-Charge and cost thereof for making good the surface shall deemed to have included in the tendered rates. Nothing extra is admissible on this account.

**18. TIMELY PLANNING/PROCUREMENT ACTION BY CONTRACTORS**

The contractor shall submit catalogues/pamphlets/drgs of major equipment like transformers, Led Street lights, LED flood lights LT/HT poles, LT/HT cables, ACSR, Lightning Arrestors, Luminaries etc to the GE for approval within one month of placing of work order. GE would give his decision within two weeks and thereafter procurement would be organised by contractor and within twelve weeks after acceptance of tender the contractor shall procure documents/evidence to the effect that he has placed orders for various equipments of makes specified in the tender on the manufacturer or his authorized dealers, to the Garrison Engineer and Accepting Officer.

**19 Acceptance of Materials** :- The order of precedence for acceptance of materials to be incorporated in this work shall be as under :-

- (a) Materials with ISI marking.
- (b) In case of non-manufacture of ISI marked materials conforming to relevant IS (latest edition).

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

DCWE (CONTRACTS)  
FOR ACCEPTING OFFICER

**APPENDIX 'B'**  
**LIST OF MAKES/MANUFACTURERS OF EQUIPMENTS AND MATERIALS**

<b><u>ELECTRICAL ITEMS</u></b>					
1	HT/LT INSULATOR / DISC/PIN/SHACKLE/LOOP /STRING TYPE	1	BHEL	2	PACTIL
		3	JAIPURA BROTHERS	4	JAYSHREE
		5	WS INSULATORS	6	SOUTHERN INSULATORS
		7	MYSORE		
2	GALVANISED IRON STEEL TUBING AND FITTINGS	1	JINDAL	2	TATA
		3	PRAKASH SURYA	4	SWASTIK PIPE LTD (TT SWASTIK)
		5	RAWALWASIA STEEL PLANT PVT LTD, HISAR(BST)		
3	HT / LT JOINT KIT (HEAT SHRINKABLE / COLD SHRINKABLE / PUSH ON)	1	M-SEAL	2	Y-DENSON
		3	RAYCHEM	4	BIRLA 3M
		5	DENSONS	6	YAMUNA GASES & CHEMICALS
		7	SIEMEN	8	RPG
		9	CCI	10	MAHINDRA & MAHINDRA
4	CABLE HT (XLPE) ALUMINIUM CONDUCTOR FOR 33/11 KV SYSTEM	1	CABLE CORPORATION OF INDIA	2	RPG
		3	UNIVERSAL CABLES LTD, SATNA	4	HAVELLS
		5	GLOSTER	6	POLYCAB
		7	ASIAN CABLES		
5	ACSR (ALUMINIUM CONDUCTOR STEEL REINFORCEMENT) CONDUCTOR	1	ALL-IND	2	NICCO
		3	ICC	4	INDIAN ALUMINIUM CO
		5	BHARAT CONDUCTOR		
6	CONTACTOR	1	SCHNEIDER	2	ABB
		3	LEGRAND	4	LARSEN&TURBO
		5	SIEMENS	6	GE
		7	C&S	8	HAVELLS
		9	STANDARD	10	MDS
		11	CROMPTON GREAVES	12	HPL
		13	NOVATEUR ELECTRICALS & DIGITAL SYSTEMS PVT LTD (INDOASIAN)		
7	MALE AND FEMALE CONTACT	1	JAIPURIA BROTHERS	2	ATLAS
		3	AREVA		
8.	AIR BREAK SWITCH/GANG OPERATED (33KV/11 KV) (GO/DO SWITCH)	1. PACTIL, MUMBAI 2. MYSORE ELECTRICAL INDUSTRIES 3. MEI 4. SOUTHERN SWITCHGEAR 5. ANDREW YULE 6. ATLAS 7. JAIPURIA 8. ECE 9. AREVA 10. GEC 11. UNIVERSAL 12. CROMPTON GREAVES 13. GR POWER SWITCH			

**APPENDIX 'B'**  
**LIST OF MAKES/MANUFACTURERS OF EQUIPMENTS AND MATERIALS**

9.	(A) SYNTHETIC ENAMEL PAINT	1. ASIAN PAINTS 2. NEROLAC PAINTS 3. BERGER PAINTS 4. SHALIMAR PAINTS 5. JENSON & NICHOLSON PAINTS 6. ICI PAINT 7. DULUX
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- Note :-
- (i) Makes specified in Sch 'A' /BOQ shall only be provided when makes are mentioned in Sch 'A'/BOQ.
  - (ii) Makes specified in Particular Specification Sec -II shall be provided only when no makes are specified in the Sch 'A'/BOQ.
  - (iii) Makes specified in the Appx 'B' shall be provided only when no makes are mentioned in the Sch 'A' /BOQ and Particular Specification Sec- II.

Signature of Contractor

DCWE (Contract)  
for Accepting Officer

**Appendix 'C'****SOURCES OF MATERIALS**

Ser No.	Name of Material	Sources of Material
1.	Coarse aggregate for all PCC works.	: Pathankot /Chandigarh/Randhisar
2.	Fine aggregate (coarse sand) for PCC works	: Pathankot /Chandigarh/Randhisar
3.	Sand for plastering, pointing,	: Pathankot /Chandigarh/Randhisar
4.	Bricks.	: From the nearest source with specified quality
5	Fly Ash Bricks	1. M/s Power Fly Ash Bricks, Malout Road ,Near Ambuja Cement Bathinda (Punjab) 2. M/s Reetika Fly Ash Bricks, Khialiwalla ,Bathinda ( Punjab) 3. M/s Harry Fly Ash Bricks ,Vill Deon, Bathinda(Punjab) 4. M/s FAB Associates,Near STPS Thermal Power Plant Suratgarh (Rajasthan) 5. M/s Appex Industries, National Highway, Bucho Kalan 6. M/s Vishwkarma Ash Bricks Industries, Near Chhavi Cinema Suratgarh (Rajasthan) 7. M/s Shri Laxmi Enterprises, Head Office Gate No 1, SSTPS , Suratgarh ( Rajasthan) 8. M/s Vivek Brick Udhog Society, Lehra Bega Road, Bucho, Bathinda (Punjab) 9. M/s Singla Industries, Near Singla Rice Seller, Rampura Phool Dist Bathinda (Punjab) 10. M/s Vinayak Enterprises, Prabhat Nagar SSTPS, Suratgarh (Raj) 11. M/s Adam Fly Ash industry, Near SSTPS, Suratgarh (Raj) 12. M/s Balaji Brick Co, Suratgarh NH-15, Rajpura Piperan (Raj) 13. M/s Ramsatu Green products, Plana Bikaner (Raj) 14. M/s Mahadev Fly Ash Bricks Industry, Jaimalsar The Kolayat, Bikaner 15. M/s Modern Brick & Block industry, NH-15, Bikaner Industrial Mart, The Kolayat, Bikaner (Raj) 16. M/s Sidhi Vinayak fly ash brick Industry, Jaimalsar, The Kolayat, Bikaner Raj)

**NOTE :**

Sources of materials shall be as given in serial No. 1 to 5 above or in vicinity thereof. The tenderer shall however ascertain the actual position/exact location of sources before submitting his tender and nothing extra shall be admissible on account of any misunderstanding due to their distance from site of works.

(Signature of contractor)

DCWE (Contracts)  
for Accepting Office



**ERRATA/ AMENDMENTS TO APPENDIX 'A' OF NIT**

Srl No	Srl Page No.	Location	Errata/Amendment
1	2	3	4
<b><u>NIT</u></b>			
1	09	Serial No7(a), Line 1, Bid submission start date	For " 19 Nov 2018" Read "06 Dec 2018"
2	09	Serial No7(b), Line 1, Last date of bid submission	For "26 Nov 2018" Read "11 Dec 2018"
3	09	Serial No7(c), Line 1, Date of bid opening	For "28 Nov 2018" Read "13 Dec 2018"

Signature of Contractor

8100/46/18-19/ /E8

Headquarters  
Commander Works Engineers  
Bathinda Mil Station

(Shailendra Kumar)  
EE (QS&C) (SG)  
DCWE (Contracts)  
For Accepting Officer

Dated : Nov 2018