

MILITARY ENGINEER SERVICES

NAME OF WORK : **OUTSOURCING SERVICES FOR OPERATION AND MAINTENANCE OF HT/LT INSTALLATIONS & UPKEEPING OF INTERNAL ELECTRIFICATION AT NEW CAIR, DAD QTRS AND DCA COMPLEX UNDER GE (I) R&D (WEST), BANGALORE.**

NAME OF SERVICE PROVIDER :

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	Total Page :	_____ Pages
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Signature of Service Provider
Date:

AGE (Contracts)
for Accepting Officer

Tele: 080 – 25242526

email : e8geirdwestbangalore@gmail.com**MILITARY ENGINEER SERVICES**

Garrison Engineer (I) R&D (West)

Military Engineer Services

DRDO Complex, CV Raman Nagar PO

Bangalore – 560 093.

8151/ 02 / E8

27 May 2023

M/s. _____

OUTSOURCING SERVICES FOR OPERATION AND MAINTENANCE OF HT/LT INSTALLATIONS & UPKEEPING OF INTERNAL ELECTRIFICATION AT NEW CAIR, DAD QTRS AND DCA COMPLEX UNDER GE (I) R&D (WEST), BANGALORE.

Dear Sir(s),

1. Tender documents in respect of above work are uploaded on the site www.gem.gov.in . The tender is on single stage two cover system. The contents of Cover I and Cover II are specified in NOTICE OF TENDER.
2. Bids will be received online by Garrison Engineer (I) R&D (West), Bangalore 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.
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 **01 Jun 2023**. You are requested not to write piece meal points and forward your points duly consolidated before due dated **01 Jun 2023**.
5. Un-enlisted Sellers 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) on e-procurement portal and submit the physical documents in the office of **Garrison Engineer (I) R&D (West), DRDO Complex, CV Raman Nagar - Post, Bangalore – 560 093** within the 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. Seller having not executed standing security bond and standing security deposit in any MES formation shall upload scanned copy of EARNEST MONEY DEPOSIT (EMD) mentioned in Notice of Tender and shall ensure receipt of hard copy of EMD in the office of tender issuing authority before date & time fixed for this purpose. In case of failure to abide by any of these two requirements, the finance bid will not be opened.

Contd.,

Para 6 Contd.,

7. Enlisted Sellers of MES shall submit the scanned copies (pdf file) of enlistment letter, tender fee and such other documents as mentioned in Appx 'A' to **NIT** on e-procurement portal and submit physical documents in the office of **Garrison Engineer (I) R&D (West), DRDO Complex, CV Raman Nagar - Post, Bangalore – 560 093** before date and time fixed for this purpose.
8. The Seller 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 e-mail / fax / by hand / through post from Seller / 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 this office.
11. ANY SELLER, 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.

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

1. A tender is invited for the work as mentioned in Appendix 'A' to this NOTICE INVITING TENDER (NIT).
2. The work is estimated to cost as indicated in aforesaid Appendix 'A'. This estimates however, is not a guarantee is and is merely given as a rough guide and if the work cost more or less, the Seller/bidder will have no claim on that account. The tender shall be based on as mentioned in aforesaid Appendix 'A'.
3. The work is to be completed within the period as indicated in aforesaid Appendix 'A' in accordance with the phasing, if any, indicated in the tender from the date of handing over site, which will be on or about two weeks after the date of Acceptance of tender.
4. Normally Sellers whose names are on the MES approved list for the area in which the work lies, and within whose financial category the estimated amount would fall, may tender/bid but in case of term contracts, Sellers in categories 'SS' to 'E' may tender/bid. Not more than one tender/bid shall be submitted/uploaded by one Seller or one firm of Sellers. Under no circumstances will a father and his son(s) or other close relations who have business dealing with one another be allowed to tender/bid for the same contract as separate competitors. A breach of this condition will tender the tenders/bids of both the parties liable for rejection.
5. This Office of **"Garrison Engineer (I)(R&D) West, DRDO Complex, C V Raman Nagar – Post, Bangalore – 560 093 will be the Accepting Officer** here-in-after referred to as such for purpose of the contract.
6. The Technical Bid and Financial Bid (Cover-1 and Cover-2) shall be uploaded by the Seller/bidder on or before the date & time mentioned in NIT. A scanned copy of DD with enlistment details/documents shall be uploaded as packet 1/cover-1 ('T' bid) of the tender/bid on e-tendering portal. DD is refundable in case T bid is not accepted resulting in non-opening of 'Q' bid. The applicant Seller shall bear the cost of bank charges for procuring and en-cashing the DD and shall not have any claim from Government whatsoever on this account.
- 6.1 Tender forms and conditions of contract and other necessary documents shall be available on www.gem.gov.in site for download and shall form part of contract agreement in case the tender/bid is accepted.
- 6.2 In case of Seller who has not executed the Standing Security Bond, the Cover-1 shall be accompanied with by Earnest Money of amount as mentioned in Appendix 'A' in the form of deposit at call receipt in favour of GE mentioned in the aforesaid Appendix 'A' by Scheduled Bank or in receipted treasury chalan, the amount being credited to the revenue deposit of the Garrison Engineer (I)(R&D) West, Bangalore.
- 6.3 GE will return the earnest money wherever applicable to all un-successful Sellers/bidders by endorsing an authority to the deposit-at-call receipt for its refund, on production by the Seller, bidder a certificate of the Accepting Officer, that a bonafide tender/bid was received and documents were returned.
- 6.4 Copies of the drawings and other documents pertaining to the work signed for the purpose of identification by the Accepting Officer or his accredited representative, sample of materials and stores to be supplied by the Seller will also be available for inspection by the Seller/bidder at the office of Garrison Engineer (I)(R&D) West, Bangalore. during office working hours.

NOTICE OF TENDER (Contd.....)

7. The Sellers/bidders are advised to visit the site of work by making prior appointment who is also the executing agency of the work (see Appendix 'A'). The Sellers/bidders are deemed to have full knowledge of all relevant documents, samples, site etc, whether they have inspected them or not.
8. Any tender/bid which proposes any alteration to any of the conditions laid down or which proposes any other condition or prescription whatsoever, is liable to be rejected.
9. The uploading of bid implies that bidder has read this notice and the conditions of contract and has made himself aware of the scope and specifications of work to be done and of the conditions and rates at which stores, tools and plants etc, will be issued to him and local conditions and other factors having bearing on the execution of the work.
10. Sellers/bidders must be in possession of copy of MES Standard Schedule of Rates (see appendix 'A') including errata /amendments thereto.
11. The Accepting Officer reserves the right to accept a tender submitted by a Public Undertaking, giving a price preference over other Tender(s)/bids which may be lower, as are admissible under the Government Policy. No claim for any compensation or otherwise shall be admissible from such Seller/bidder whose tender/bid is rejected.
12. The Accepting Officer does not bind himself to accept the lowest or any tender/bid or to give any reason for not doing so.
13. This Notice Inviting Tender (NIT) including Appendix 'A' shall form part of the contract.
14. Court of place from where tender has been issued shall alone have jurisdiction to decide any dispute out of or in respect of this tender. After acceptance of tender, Condition 72 (IAFW-2249) – Jurisdiction of Courts shall be applicable.
15. This document shall be read in conjunction with the Service Level and BoQ uploaded with this bid. Details of items of work to be executed have been uploaded against the entry "Quantifiable Specification / Standards of The Service/ BOQ". The Service Provider is required to quote total amount against each item of work in the bunch bid. Service Providers may note that **item no 1 to 3** being items related to manpower outsourcing have been provided with a minimum value based on minimum fair wages prevalent at the time of uploading of this bid. For **SI Nos 1 & 2 (Semi skilled)** Minimum Fair wages have been considered to be Rs **788**, EPF (Employer's contribution) Rs **75.00 (incl Adm Charges)**, ESIC (Employer's contribution) Rs **25.61, & Bonus Rs 5.17 and for** for **SI Nos 3 (Unskilled)** Minimum Fair wages have been considered to be Rs **711**, EPF (Employer's contribution) Rs **75 (incl Adm Charges)**, ESIC (Employer's contribution) Rs **23.11** and Bonus Rs **4.66..** For execution of Part II of BoQ i.e. Supply of materials as per provisions of General Conditions of Contract IAFW-2249, which shall be a part of the agreement alongwith amendments **1 to 48 and errata 1 to 20**. Any Service Provider not conversant with contents of IAFW 2249 shall obtain a copy from online sources/ authorized publisher or may also go through the same at the office of **Garrison Engineer (I) R&D (West) Bangalore** after taking prior appointment from Garrison Engineer. Once a Service Provider quotes his bid, he shall be deemed to be conversant with all provisions of IAFW-2249. For purpose of calculation of amount of performance guarantee total quoted amount shall be considered.

APPENDIX 'A' TO NOTICE INVITING TENDER

1.	Name of Work	<u>OUTSOURCING SERVICES FOR OPERATION AND MAINTENANCE OF HT/LT INSTALLATIONS & UPKEEPING OF INTERNAL ELECTRIFICATION AT NEW CAIR, DAD QTRS AND DCA COMPLEX UNDER GE (I) R&D (WEST), BANGALORE.</u>
2.	Estimated Cost	₹ 37.00 Lakhs (At par market)
3.	Period of Completion	300 days
4.	Cost of Tender documents	Nil
5.	Website / portal address	www.gem.gov.in
6.	Type of Contract	The tender shall be based on IAFW-1779A and General Conditions of Contracts (IAFW-2249) with Schedule 'A' (list of items of work) to be priced by Seller. The Seller is required to quote their rates against items of Schedule 'A'.
7.	Timeline details :-	Refer gem e-portal www.gem.gov.in
8.	Eligibility Criteria	
	A) For MES enlisted Sellers	Sellers shall be enlisted with MES in Class 'D' under Category d(v) and above and subject to satisfactory remarks wrt performance in respect of works in hand as reflected in Work load return (WLR) or any other report circulated by competent engineer authority.
	B) For Sellers not enlisted with MES	(i) Sellers not enlisted with MES should meet the enlistment criteria of Class 'D' and under Category d(v) , Seller with regards to satisfactorily completion of requisite value works with Central / State Govt / Central / State PSUs / <u>AWHO / AFNHB / CGEWHO / DG MAP, annual turnover.</u>
		Bank Solvency, working capital, and other requirements given in Para 1.4 and 1.5 of Section 1 of MES Manual on Contracts - 2020 as available in all MES Formations as well as MES website (www.gem.gov.in) (ii) Not carrying adverse remarks in Work Load Report (WLR) or any other similar report circulated by any Competent Authority if already working in MES. (ii) Not carrying adverse remarks in Work Load Report (WLR) or any other similar report circulated by any Competent Authority if already working in MES. (iii) Not suspended / debarred / blacklisted (either permanently or temporarily) from participating in any bid or for business dealings by any Central / State Government Department or any Central / State PSUs or any Autonomous Body under Central / State Government or any Local Body as on the bid submission end date.

APPENDIX 'A' TO NOTICE INVITING TENDER (Contd.,)

9	Tender issuing and Accepting Officer	Name : Garrison Engineer (I) (R&D) West Bangalore Address : Garrison Engineer (I) (R&D) West Bangalore, DRDO Complex, C V Raman Nagar – Post, Bangalore – 560 093. Contact Details of Concerned Officer : 080 – 25242526 email : e8geirdwestbangalore@gmail.com
10	Executing agency	GE(I) (R&D) West, Bangalore
11	Earnest Money	₹ 74,000.00 in favour of GE(I) (R&D) West, Bangalore in the form of Deposit at call receipt, FDR not acceptable

NOTES :

- In case after opening of Cover 1, the number of MES enlisted Sellers of eligible class as well as eligible un-enlisted Sellers, if any, fulfilling the other eligibility criteria given in NIT is less than 7 (seven), applications in respect of MES Sellers of one class or two classes (in case of remote and difficult areas to be decided as per list circulated by CE Command / ADG) below the eligible class shall also be considered subject to fulfillment of other eligibility criteria given in the NIT. Therefore, MES Seller's one class below (two classes below in case of remote and difficult area) may also bid for this tender. Such Sellers (Sellers of one/two classes below the eligible class) shall not be considered in case their present residual work in hand is more than **FIVE TIMES** their present tendering limit. However, in case such Sellers fulfill the criteria of up-gradation to the stipulated eligible class based on past experience of completed works (individual work experience and / or average annual turnover, as applicable) and financial soundness (solvency/financial soundness and working capital), the ceiling of present residual work will not apply and they will be considered for issue of tender. Such bidders shall upload in their Cover-1, bid details related to residual work in hand like details of works in hand showing names of work, names of Accepting Officers, Contract Amounts, dates of commencement and completion (stipulated) and progress as on bid submission date. Such Sellers, if claim to fulfill the criteria of up-gradation shall also upload the requisite information / documents in support of upgradation. These details shall be verified by the Tender Issuing Authority from concerned formations in case bids of such Sellers are considered for evaluation
- In case after opening of Cover-1, the number of MES enlisted Sellers of eligible Class as well as un-enlisted Sellers, if any, fulfilling the other eligibility criteria given in NIT, are 7 (SEVEN) or more, applications of only those one class below the eligible class bidders shall be considered, who have previously complete similar works satisfactorily and are meeting the criteria of upgradation in respect of past experience of completed works (individual work experience and / or average turnover as applicable) and financial soundness (solvency / financial soundness and working capital) as per details given in Manual of Contracts. Therefore, such Sellers shall upload the requisite information / documents in the Cover – 1.
- Unenlisted Seller shall be considered provided he meets the Criteria. Foreign Firms shall not be eligible for this tender. However, Indian Firms having foreign national / Indian nationals staying abroad / Indian National having taken foreign citizenship, as Director (s) shall be considered subject to security clearance from the concerned authorities.
- Sellers enlisted with MES will upload following documents in Cover – 1, for checking eligibility:-
 - Application for tender on Firm's letter head,
 - Enlistment letter issued by the Registering Authority duly renewed for the cyclic period in vogue,
 - Scanned copy of DD / Bankers Cheque towards cost of tender and EMD instrument in case SSD Bond is not signed at the time of Registration.
 - Any other document required as described in this Appendix.

APPENDIX 'A' TO NOTICE INVITING TENDER (Contd..)

5. Sellers not enlisted with MES will be required to upload following documents in Cover – 1 for checking eligibility :-

- a) Application for tender on Firm's letter head,
- b) Scanned copy of DD / Bankers Cheque towards cost of tender and EMD instrument.
- c) Copy of Police Verification Report / Police Clearance Certificate / Character Certificate from the Police Authority of the area where the registered office of the firm is located / notarized copy of valid Pass Port of Proprietor / each Partner / each Director.
- d) All documents required for enlistment in MES for the Class mentioned in Para 8 (b) above as follows :-
 - i) Affidavit for constitution of firm.
 - ii) List of works executed during last five years including copies of Work Orders/Work allotment letters, Copies of completion certificates and Form 16 A.

SI	CA No. & Name of Work	Amount of Contract	Formation viz CE, CWE, GE or Office of other Deptt. Including their Complete Postal Address, Fax No. and email ID	Date of Commencement	Original / Scheduled Date of Completion	Actual Date of Completion	Whether invoked Arbitration /Litigation. If yes the outcome of the same	Remarks
1	2	3	4	5	6	7	8	9

- iii) Annual turnover certificate duly supported with audited balance sheet.
- iv) Audited balance sheet of last five years in case of Limited companies
- v) Solvency certificate from scheduled bank as per following specimen : -

APPENDIX 'A' TO NOTICE INVITING TENDER (Contd.,)

Bank Address and Code No.

**FORM OF SOLVENCY CERTIFICATE FROM THE
NATIONALISED / SCHEDULED BANK**

This is certified that to the best of our knowledge and information Shri/Smt.....having address....., a customer of our bank are/is respectable and can be considered solvent upto ₹..... (Rupees)/financially sound for any engagement upto ₹..... (Rupees). This certificate is issued without any guarantee or responsibility on the bank or any of the officer(s).

(Signature)

Name, Designation and Personal
Code No of Signatory& Seal of bank
Complete Postal Address,
Telephone No, e-mail ID of Branch

vi) Working Capital certificate from scheduled bank as per following specimen :-

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

This is certified that Shri/Smt.....having address.....has /have been maintaining a Saving Bank Account /Current Account/ Fixed Deposit Account with this Branch of bank since..... and the firm is having working capital of approximately ₹ and/ or the firm is enjoying overdraft/credit facilities upto limit of ₹ This certificate is issued without any guarantee or responsibility on the bank of any or the officer(s).

(Signature)

Name, Designation and Personal
Code No of signatory& seal of bank

Note: In case of partnership firm, certificate shall include names of all partners as recorded with the bank.

vii) Affidavit from Seller that there is no Government dues/ recovery outstanding against him. If there is any Government dues/ recovery outstanding from the Seller, enlistment/ upgradation shall not be carried out.

vii) Affidavit from Seller giving brief details of arbitration / litigation cases he was involved in. Registering Authority will critically examine such details and if Seller is considered habitual litigant, his enlistment/ upgradation shall not be carried out. Seller shall be deemed to be a habitual litigant if he moves the court more than once ignoring arbitration clause and court does not uphold his view.

APPENDIX 'A' TO NOTICE INVITING TENDER (Contd..)

- viii) Two self-attested photographs of Proprietor/Partners/ Directors of firm for verification of character and antecedents from the police authorities. Places where online police verification process is available, the Seller will carry out police verification of the Proprietor/Partners/Directors and submit the verification reports for cross verification by the Department. Alternatively the Seller may submit a copy of valid passport issued by Govt of India.
- (ix) Copy of partnership deed in case of partnership firm.
- (x) Memorandum and Articles of Association in case of Limited Companies.
- (xi) Copy of Registration Certificate of firm with Registrar of Companies.
- (xii) Affidavit that no near relative(s) of the Seller or his/their employees/agents is/ are working as Gazetted/ Commissioned Officer(s) in MES/ Corps of Engineers/ Ministry of Defence. If the near relative(s) is/are working in such capacity in any formation upto Zonal CE/CCE, he/ they shall furnish details. The Seller shall not be entitled to tender for the works in entire area of CE Zone/CCE.
- (xiii) Affidavit that no near relative(s) of the Seller or his/their employees/ agents is/ are working as Junior Engineer(s) in MES/Corps of Engineers. If his near relative(s) is/are working in such capacity in any formation upto CWE/ GE(I) office, the Seller shall furnish details. The Seller shall not be entitled to tender for the works in entire area of that CWE/GE(I).
- (xiv) Copy of power of attorney/Resolution of the Board in favour of any Partner/Director of the firm.
- (xv) Copy of immediate last Income Tax Return.
- (xvi) A separate sheet containing specimen signatures (signed in black ink) and affixed with photographs of Proprietor/Partners/Directors (to be used as Appendix B of enlistment letter).
- xvii) Certified true copy of PAN of Proprietor, Partners, Directors and the firm/ Company.
- Notes:-
- (a) All the documents submitted by the Seller shall be signed by Proprietor/all Partners/all Directors unless specifically authorised to a Partner/Director through POA or Resolution of the Board.
- (b) Photocopies of documents shall be self-attested. Registering Authority shall ask production of original documents to verify the photocopies.
- (c) All affidavits shall be given on non-judicial stamp paper of appropriate value duly signed by the Seller and attested by the Magistrate/Notary public.
- e) Details of works being executed in MES, if any,
- f) Any other documents required as described in this Appendix,

APPENDIX 'A' TO NOTICE INVITING TENDER (Contd..)

6. Tenders not accompanied by scanned copies of earnest money (as applicable) or undertaking in Cover – 1 shall not be considered for validation of 'T' bid and their Financial Bid will not be opened.
7. Sellers should ensure that their original physical DDs and Earnest Money Deposit (EMD) instruments (as applicable) reach the office of Accepting Officer within 05 (FIVE) of bid submission ends date, failing which following action shall be taken :-
 - (a) In case of tenders from enlisted Sellers of MES, where scanned copies has been uploaded in Cover – 1, but physical copies are not received within the stipulated period, their finance bids (Cover – 2) will be opened. However, non-submission of physical copies shall be considered as willful negligence of the Seller with ulterior motives and such Seller shall be banned from bidding for a period of six months commencing from the date of opening of Financial Bbid (Cover - 2).
 - (b) In case of Sellers from un-enlisted Seller, where scanned copies have been uploaded in Cover – 1, but physical copies are not received within the stipulated period, their Financial Bids (Cover – 2) will not be opened. Name of such Sellers alongwith complete address shall be circulated for not opening of their bids for a period of six months commencing from the date of opening of Financial Bid (Cover - 2).
 - (c) In case of tenders from enlisted and un-enlisted Sellers, where scanned copies of instruments for Earnest Money Deposit (as applicable) have been uploaded in Cover – 1, but the same are not received in physical form within stipulated period, such tenders shall not qualify for opening of Financial Bid (Cover - 2).
8. Seller will not be allowed to execute the work by subletting or through power of attorney to a third party / another firm on his behalf. However a Seller can execute the work through power of attorney to sons / daughters / spouse of Proprietor / Partner / Director and firm's own employees, Director, Project Manager **provided they are not having a separate enlisted firm in MES in their name as Proprietor / Partner / Director.**
9. After opening of Cover – 1 and during its technical evaluation, in case any deficiency is noticed, in the documents required to be uploaded by the Sellers as per NIT, a communication in the form of e-mail/SMS/Speed Post etc. shall be sent to the Seller to rectify the deficiency within a period of 7 days from date of communication failing which their Financial Bid (Cover - 2) shall not be opened and Seller shall not have any claim on the same.
10. Invitation for e-tender does not constitute any guarantee for validation of Technical Bid and subsequent opening of Financial Bid of any applicant/bidder, merely by virtue of enclosing DD. Accepting Officer reserves the right to reject the Technical bid and not to open the Financial Bid of any applicant/bidder. Technical bid validation shall be decided by the Accepting Officer based on, eligibility of the firm as per criteria given in this Appendix. The Seller / bidder will be informed regarding non-validation of his Technical Bid assigning reasons thereof through tender evaluation report which shall be uploaded on the website. Such Seller, if desires may appeal to the next higher Engineer authority viz Chief Engineer R&D Secunderabad on e-mail : e8cerdsecbad@gmail.com with copy to the Accepting Officer on email before the scheduled date of opening of Cover - 2. Next Higher Engineer Authority (NHEA) shall decide the matter within a period of seven working days from the date of receipt of appeal. The decision of the NHEA shall be final and binding. The Seller / bidder shall not be entitled for any compensation whatsoever for rejection of his bid.

APPENDIX 'A' TO NOTICE INVITING TENDER (Contd..)

11. In case an unenlisted Seller is already executing works in MES, he shall not be considered eligible for the subject tender if the total value of such works is more than twice the tendering limit of the MES Class of Seller for which it is eligible. For this purpose, details of the works being executed by such a Seller shall be uploaded in the Cover – 1 of the bid and shall be checked / verified by the Accepting Officer.
12. In case the BOQ is revised through the Corrigendum and the bidder has failed to quote on the Revised BOQ (i.e., he has quoted on pre revised BOQ), such bid shall be treated as willful negligence by the bidder and his quotation shall be considered as non-bonafide. In such cases the lowest tender shall be determined from amongst the valid / bonafide bids only. Accepting Officer may decide whether to re-tender or consider the lowest bonafide tender for acceptance.
13. Revoking the Offer or revising the rates upward or offering voluntary reduction by the lowest Seller after opening of Cover – 2 shall be considered as a willful default. For this default a Earnest Money deposited by him shall be forfeited. In case of MES enlisted Seller having deposited the Standing Security Bond, an amount equal to the earnest money stipulated in the NIT shall be notified to the Seller for depositing through MRO and consideration of such Seller in tender evaluation for future works shall remain suspended till the aforementioned amount is deposited in the Government Treasury. No other disciplinary / administrative action shall be taken against such Sellers. In such a situation, the next lowest offer shall not be considered for acceptance. Instead, retendering shall be resorted to in a transparent and fair manner and the defaulting Seller and his related firm if any, shall not be eligible for this tender in second call or subsequent calls.
14. Tender to related firms shall not be issued simultaneously. Firms shall be termed as related if Proprietor / one or more Partners / Directors are common. Decision of Accepting Officer on issue / deny the tender to any of the related firms shall be final and binding

Signature of Seller
Date:

AGE (Contracts)
for Accepting Officer

[File No. 8151 / 02 / E8 dated 27 May 2023](#)

Address of Accepting Officer :

Garrison Engineer (I) (R&D) West,
DRDO Complex, C V Raman Nagar – Post,
Bangalore – 560 093.

Contact details of the Concerned Officer

Shr E. Srinivasa Rao, AE (QS&C),
AGE (Contracts)
Phone : 080 – 25242526
Email : e8geirdwestbangalore@gmail.com

INSTRUCTIONS ON FILLING AND SUBMISSION OF TENDER**1. EARNEST MONEY DEPOSIT :**

Seller(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 any one of the following forms, along with their tender / bid :-

- (a) Deposit at Call Receipt from a scheduled bank in favour of **GE (I) R&D (WEST) Bangalore - 560 093**
- (b) Receipted Treasury Challan for the amount being credited to the Revenue Deposit of GE (I) R&D (WEST) Bangalore - 560 093

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 Seller / 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 the **GE (I) R&D (WEST), Bangalore.**

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 and time fixed for opening of BOQ) WILL RENDER THE BID DISQUALIFIED FOR OPENING OF COVER II (FINANCE BID).

- 1.2 All bidders are exempted from submission of EMD except those who become ineligible from such exempted as mentioned in Para 1.3 here-in-after.
- 1.3 Bidders if withdraw or modify bids during the period of validity , or if awarded the Contract (s) and on being called upon to submit the Performance Security Deposit / Security Deposit, fail to submit the Performance Security / Security Deposit before the deadline defined in the request for bid documents / Notice inviting Tender, shall be debarred from exemption of submitting Bid Security / Earnest Money Deposit for a period of 06 (Six) months, from the date declared disqualified from exemption from submission of Earnest Money Deposit / Security Deposit, for all tender issued by MES during this period.
- 1.4 All bidders shall be required to sign the Bid Security Declaration as below “-

“I / We here by understand and accept that if I/We withdraw or modify my / our bids during the period or validity, or if I / We are awarded the contracts and on being called upon to submit the Performance Security / Security Deposit, fail to submit the Performance Security Deposit before the deadline defined in the request for bid documents / Notice Inviting Tender, I/We shall be debarred from exemption of submitting Bid Security / Earnest Money Deposit for a period of 06 (Six) months, from the date I / We are declared disqualified from exemption from submission of Earnest Money Deposit / Security Deposit, for all tender issued by MES during this period.”

2. GENERAL INSTRUCTIONS FOR COMPLIANCE:

- 2.1 The bids received only in electronic form will be considered. All bids shall be submitted on www.gem.gov.in portal. Documents should be scanned and forwarded in “pdf” form or “xls” form as indicated.
- 2.2 Tenders/bids (quoted Bid of BOQs) shall be uploaded on ‘defproc.gov.in’ portal on or before the bid closing date mentioned in the tender. No tender/bid in any other electronic or physical form like e-mail / fax / by hand / through post will be considered.

INSTRUCTIONS ON FILLING AND SUBMISSION OF TENDER (Contd.)

- 2.3 Bid should be DIGITALLY signed using valid DSC. All pages of tender documents, corrections / alterations shall be signed / initialed by the lowest bidder after acceptance.
- 2.4 Drawings, if issued in physical form, must be returned duly initialed by the Seller / bidder in separate envelope indicating his name and address.
- 2.5 The tender shall be signed, dated and witnessed at all places provided for in the documents after acceptance. All corrections shall be initialed. The Seller shall initial every page of tender and shall sign all drawings forming part of the tender. Any tender / bid, which proposes alterations to any of the conditions whatsoever, is liable to be rejected.
- 2.6 In the technical bid, a scanned copy of Power of Attorney in favour of the person uploading the bid using his /her DSC shall be uploaded. In case the digital signatory himself is the sole proprietor, scanned copy of an affidavit on stamp paper of appropriate value to this effect stating that he has authority to bind the firm in all matters pertaining to contract including the Arbitration Clause, shall be attached in 'pdf' form. In case of partnership concern or a limited company, digital signatory of the bid/tender shall ensure that he is competent to bind the Seller (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 conforming 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 other Partner(s) or in accordance with constitution of the company in case of company, stating that he has authority to bind such other person of the firm or the Company, as the case may be, in all matters pertaining to the contract including the Arbitration Clause.
- 2.7 Even in case of firms or companies which have already given power of attorney to an individual authorizing him to sign tender and in pursuance of which tender documents are being signed by such person as a routine, fresh power of attorney duly executed in his favourstating specifically that the said person has authority to bind such partner(s) 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 the power of attorney shall be executed in accordance with the Constitution of Company as laid down in Memorandum and Articles of Association.
- 2.8 Hard copies of all above documents shall be sent by the Seller to the Tender issuing authority well in advance to be received before the date & time fixed for the same.
- 2.9 Bids (Cover 1 & 2) shall be uploaded online well in time.
- 2.10 The Seller shall employ only Indian Nationals after verifying their-antecedents and loyalty. Attention is also drawn to Special Condition 3 and also conditions 24 and 25 of IAFW-2249 (General conditions of contracts).
- 2.11 Sellers / bidders who uploaded their priced tender / bids and are desirous of being present at the time of opening of the tenders/bids, may do so at the appointed time.
- 2.12 The Seller/bidder shall quote his rate on the BOQ file only. No alteration to the format will be accepted, else the bid will be disqualified and summarily rejected.

INSTRUCTIONS ON FILLING AND SUBMISSION OF TENDER (Contd.,)

2.13 In case the Seller/bidder has to revise / modify the rates quoted in the BOQ (excel sheet) or he can do so only in the BOQ, through "www.gem.gov.in" site only before the bids closing time and date.

3.0 **REVOCATION / REVISION OF OFFER UPWARD / OFFERING VOLUNTARY REDUCTION, AFTER OPENING OF FINANCIAL BIDS BY LOWEST BIDDER :**

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

Signature of Seller
Date:

AGE (Contracts)
for Accepting Officer

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

(TO BE READ IN CONJUNCTION WITH GENERAL CONDITIONS OF CONTRACT IAFW – 2249)

Telephone: 080 – 25242526
email : e8geirdwestbangalore@gmail.com

Garrison Engineer (I) R&D (WEST)
Military Engineer Services,
DRDO Complex,
CV Raman Nagar PO
Bangalore – 560093

8151 / 02 / E8

27 May 2023

MILITARY ENGINEER SERVICES**ITEM RATE TENDER AND CONTRACT FOR WORKS REQUIRED IN THE EXECUTION OF
OUTSOURCING SERVICES FOR OPERATION AND MAINTENANCE OF HT/LT INSTALLATIONS &
UPKEEPING OF INTERNAL ELECTRIFICATION AT NEW CAIR, DAD QTRS AND DCA COMPLEX
UNDER GE (I) R&D (WEST), BANGALORE.**

1. M/s. _____ of _____ is / are hereby authorised to tender for the above work. The tender is to be uploaded in the “ www.gem.gov.in ” site before 1800 hours on 19 May 2023.

Any correspondence concerning this tender should be addressed quoting the reference to Garrison Engineer (I) R&D (West) Bangalore – 560 093 and marked as **CA NO .GE(I) R&D (WEST) / BAN / TOKEN / 02 OF 2023 – 2024.**

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

Signature of Seller

Date:

Signature of Officer
Issuing the Documents
Appt: AGE (Contracts)
for Garrison Engineer (I) R&D
(WEST) Bangalore - 93

Dated : 27 May 2023

(In lieu of IAFW – 1779A (Revised 1955))

SCHEDULE 'A'

1. The entire work covered under this contract shall be completed within a period of **300 days** from date of commencement of the work as shown in WO No I
2. For Schedule of items refer BOQ sheet in Excel format.
3. The quantities shown in schedule (BOQ sheet) in column 3 are approximate and are inserted as a guide only. They do not constitute any guarantee of the ultimate quantities which will be ordered on the Seller. They shall not however be varied beyond the limit laid down in condition 7 of IAFW- 2249 (General conditions of contract).
4. BLANK
5. Unless otherwise specifically stated in the description of the items, the unit rates quoted shall be deemed to include for all materials and labour complete required for executing the respective items of works.
6. (a) The unit rate quoted by the Seller against respective items of schedule 'A' shall be deemed to include all minor details of construction of work, not specifically mentioned in description of schedule 'A' items and/or in the particular specifications/ drawing and which are fairly and obviously intended/essential for the execution of work in a workmen like manner and sound construction.

(b) In case of difference of opinion between the Seller and the GE as to, whether or not certain items of work constitute "Minor constructions details" which is deemed to have been included in the Seller's quoted rates, the decision of the Accepting Officer shall be final, conclusive and binding.
7. The description of Schedule 'A' items in BOQ sheet (Excel format) are brief. These shall be read in conjunction with particular specifications, special conditions, method of measurements, preambles contained in MES schedule and General conditions of contracts IAFW- 2249.
8. **The Seller's quotation shall be deemed to include all taxes, statutory levies/duties, such as GST, Labour welfare tax, EPF, ESIC, etc., as levied by the Central & State Government payable under respective statues as applicable from time to time.** Any other conditions stipulated by the Service Provider on taxes/duties will not be considered and such tender shall be liable for rejection. The taxes liable to be paid as per statutory shall be considered by the Service Provider while quoting their rates for this work and no claim of Service Provider, in this regard, shall be entertained at a later date. The Service Provider shall note this point and any condition to this effect will be treated as the **CONDITIONAL TENDER** and the tender thus quoted and submitted shall be rejected.
9. The Sellers are advised to visit the site with prior information to GE, to ascertain the conditions of working at site. The Seller shall be deemed to have satisfied himself as to the nature of works, local facilities including type and nature of approach available to various locations of works and different mode of conveyance of materials, T&P etc., which will be involved in the subject tender, and all matters affecting the execution and entire completion of work. The rates quoted shall be deemed to include considering all these site conditions and nature of works involved in the subject tender. No extra charges due to misunderstanding or otherwise what so ever shall be allowed.

SCHEDULE 'A' (Contd...)

10. Seller's further attention is invited to note the following and shall quote their rates accordingly. No claim whatsoever shall be admissible on this account.
 - a) Seller shall take all precautionary measures to avoid any inconvenience to the users. The site of work shall be left clean and tidy after day's work. No obstruction to passage shall be made by dumping materials during progress of work.
 - b) Any damage caused to any existing structure, etc., due to bad workmanship/ negligence of his workers, the same shall be rectified/ replaced by the Seller at his own expenses to match with the existing surfaces. Decision of GE in this regard shall be final and binding.
11. Total amount of BOQ is not firm but will be treated as the "Contract Sum" referred to in IAFW-2249. Seller has to visit the BOQ pages of tender for quoting the rates of each items of the Schedule.
12. Cost of all minor constructional details which are not specifically shown or given in the particular specifications and are essential to the execution of work and services in workman like manner and sound Engineering Practice/ Construction Principles is deemed to be catered for in the rate quoted by the Seller.
13. The descriptions inserted in BOQ are in brief. The unit rate quoted shall be deemed to include inter-alia the description given in particular specification read together with Schedule of works.
14. The rates quoted shall also include for all provision of labour regulation status promulgated by Central Govt/State Govt.
15. **The Seller shall reimburse the cost as decided by the Accepting Officer of contract for damage occurred due to negligence by the personnel employed by him.**
16. The operating personnel shall have thorough knowledge of precautions during emergency cases and also be conversant with state electricity rules/regulations.
17. The personnel shall limit their movements for the particular building / place and shall not trespass to surrounding building(s) on any reason. They shall not be under influence of alcoholic drinks while on duty.
18. The Seller will be responsible for safety of the personnel employed by him for repair / maintenance works and installations and any compensation arising on account of accident shall be borne by the Seller and insurance cover for this purpose shall be arranged by the Seller. Proper first aid arrangement shall also be maintained by the Seller at site.
19. The Seller shall have to pay the wages to the various categories of workers not less than prevailing minimum fair wage. Recovery for absence of person without replacement shall be recovered at twice the minimum fair wages rate.
20. Seller shall provide proper uniform and safety tools, safety Mayons etc. to his work men while on duty.
21. All statutory provisions such as Contract Labour (Regulation & Abolition) Act 1970, Minimum Act 1948 and Fair Wages Act, The Employees Provident Funds & Miscellaneous Provisions (EPF & MP) Act 1952, The Building and other Construction Workers Welfare Cess Act 1996, Payment of Wages Act 1936 etc. shall be strictly complied with.

SCHEDULE 'A' (Contd...)

22. Vis-à-vis the Government, the Seller shall be primarily liable for all payments to be made under, and for observance of the Regulations aforesaid. The GE shall have the right to deduct from the payment due to the Seller, any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfillment of the conditions of the contract for the benefit of the workers, non-payment of wages or deductions made from his or their wages, which are not justified by the terms of the contract or non-observance of the regulations.
23. The Seller shall be solely responsible for the redressal of grievances/ problems/ resolution of disputes related to persons employed by them for the subject work. The Department in no way shall be held responsible for mediation/ settlement of any disputes/ issues whatsoever.
24. No Seller shall be permitted to take advantage of ignorance of above provisions.
25. **LEAVE RESERVE ON HOLIDAY:** The number of personnel required for each category of is as specified in BOQ. MES will not sanction any leave etc, for the employees employed by the Seller. It is the responsibility of the Seller to provide necessary leave/holiday reserve at his own arrangement. The rates quoted by the Seller for the respective item in BOQ shall deemed to be included for such leave/holiday/reserve at no extra cost to government/Department. The Seller shall ensure that number of tradesmen/helpers etc., as per BOQ items shall be made available during the duty/shift hours. The rate quoted is deemed to include all tools and plants required for smooth operation of lift/installations.
26. The providing services, operation and maintenance shall be provided **including Sundays and Government Holidays** as detailed here in before and as directed by the Engineer-in-charge.
27. Please refer condition 64 of IAFW-2249. Running Account Receipt payment shall only be made at intervals of 30 days & Final Bill shall be submitted only after completion.
28. **Penalty charges wherever indicated in tender documents shall be subjected to maximum of 10% of the contract value but these penalties shall be in addition to provision made in condition 50 of IAFW -2249.**
29. The successful Seller shall himself or employ site supervisor with mobile phone to coordinate with department on daily basis and ensure smooth functioning of services and rates quoted are deemed to be included for the above provision.
30. **The rates quoted by the Seller / firm shall not be less than minimum wages as notified by Govt Of India / State Govt / Local body whichever is higher.**
31. Seller's attention is invited to Labour Wages Act with regards to payment of wages to the individuals engaged under this work. Seller shall make the payments to their staff / employees by Cheque or through NEFT in their Bank Account, and the particulars of same shall be submitted to the department while claiming any payment. No payments will be made, unless proof of payment of wages through bank account is submitted by the Seller/firm while claiming bills.
32. The Seller shall submit copy of valid Labour License from the Labour Commissioner within 15 days of commencement of work.
33. Govt reserves the right to foreclose the contract at any stage with one month notice to Seller. The Seller will have no claim what so ever on account. The Govt may enhance the period of completion for 2 months (As special case) due to non-finalization of the contract for next cyclic period & the Seller shall be paid as per the rates quoted against the contract.

SCHEDULE 'A' (Contd...)

34. During the surprise checks by the representatives of department, if any of the personnel is found missing during working hours or unattended to the work a penalty of twice the rate quoted for the particular personnel for the missing period(s) as per CA shall be derived out and recovered from the payment due to the Seller in addition to cost of any damages which shall also be recovered from the Seller. Regarding penal recovery the decision of Accepting officer shall be final and binding.
35. **Unless otherwise executed under the rule of Indian Electricity Rules the electrical works shall be carried out under the supervision of a person holding a certificate of competency issued by the recognized authority. The workmen shall also hold certificate of company good workmanship as an essential requirement for compliance with these specifications.**
36. While claiming payments, Contrator shall submit a Statement, as under alongwith supporting documents of proof of payment :-

Sl No	Name of employee	Gross Payment	Bonu s	Deduction as per employee contribution		Deduction as per Employer Contribution		Net payment	Mode of payment	Rema rks
				EPF	ESIC	EPF	ESIC			
1	2	3	4	5	6	7	8	9	10	11

It is confirmed that necessary payment to the employee has been not less than the minimum fair wages

Signature of Service Provider

37. In case it comes to notice of Department that Service Provider pays wages / Contributions to EPF, EDLI, ESIC & Bonus, etc., less than their quotes, and fails to substantiate proof of less payments, necessary recovery shall be worked out by Engineer-in-Charge and will be effected from the payments due to the Service Provider and Service Provider will not have any claim in this regards. The decision of Accepting Officer shall be final and binding in this regards.
38. Irrespective of whether Service Provider claims bills for payment form Department, Service Provider shall pay wages to personnel employed by him, EPF, ESIC, GST etc., as applicable at appropriate time. Any violations in payment of wages, EPF, ESIC, GST, etc., the Service Provider shall be solely responsible for any consequences thereof.
39. The unit rate quoted in respect of items of BOQ shall be inclusive of painting all paintable equipment which requires painting once in the contract period.
40. **One shift shall mean 8 working hours for the purpose of this contract. Minimum amount mentioned (for reference) against Sl Item Nos 1 to 4 are Basic Wage + EPF + ESIC + EDLI + Bonus and is excluding Service Provider's Overheads & Profits, GST, LWCT & any other applicable taxes/CESS.**

SCHEDULE 'A' (Contd...)

41. Consequent upon the provision of Section 51 of the Goods and Service Tax Act coming into force w.e.f. 01 Oct 2018 circulated vide E-in-C's Branch letter No. 66546/Manual/GST/168/E8 dt 26 Sep 2018, 2% GST shall be deducted at source as notified/specified in the Government Of India, Ministry Of Finance, Department of Revenue letter No F. No. S. 31011/11/2018-ST-I-DoR dt. 14 Sep 2018.
42. Service Provider's further attention is invited to note the following:
- a) Service Provider shall take all precautionary measures to avoid any inconvenience to the users. The site of work shall be left clean and tidy after day's work. No obstruction to passage shall be made by dumping materials during progress of work.
 - b) Any damage caused to any existing structure, etc., due to bad workmanship/ negligence of his workers shall be rectified/ replaced by the Service Provider at his own expenses to match with the existing surfaces. Decision of GE in this regard shall be final and binding.

SCHEDULE OF WORKS (BOQ)

Sl. No.	Item Description	Quantity	Units
1	2	3	4
	Works to be carried out		
	PART - I (PROVIDING SERVICES FOR OPERATION & MANNING OF HT / LT INSTALLATIONS AT SUB STATIONS, PUMP HOUSES, DG SETS ETC.,)		
1.	<p>Providing services by the service provider for manning and operation of NEW CAIR, DAD QTRS and DCA COMPLEX sub stations along with switch ON / OFF street lights, perimeter lights, post top lanterns (at sunset and sunrise) in substation areas, daily normal cleaning / general maintenance to installations, maintaining log sheets / maintenance register etc by deploying qualified semi-skilled tradesmen having a experience in handling HT / LT switchgear , equipment and services. The scope of work also includes manning and operation of these installations round the clock 24 x 7 including switch ON / OFF stand by DG sets with AMF / change over switches manually when failure of Main / BESCOM supply occurs including pump sets, sewage pumps etc. The installation wise electrical and DG set assets will be handed over to service provider by the dept. and the service provider is responsible for custody of all items held in the installations area during the entire currency of contract period and the service provider will handover back all assets to Dept. during last day of the completion of contract period. The services to be provided by the Service Provider with One Electrician (Semi Skilled) per shift in three shifts at each locations (1st Shift from - 0600 Hrs to 1400 Hrs, 2nd shift from 1400 Hrs to 2200 Hrs & 3rd shift form 2200 Hrs to 0600 Hrs including Saturdays, Sundays and Holidays) complete all as specified and as directed by Engineer-in-charge.</p> <p>Electrician (Semi-skilled) - 1 No per Shift of 8 Hours</p>	1830	Per shift of one Semi skilled Electrician
	PART - II (PROVIDING SERVICES FOR ATTENDING DAY TO DAY COMPLAINTS OF INTERNAL ELECTRIFICATION AND EXTERNAL ELECTRIFICATION)		
2.	<p>Providing services by the service provider for attending day to day maintenance nature complaints of internal & external electric supply comprising of all internal fitting & fixtures, wiring, fans, sub main, DBs, buildings panel, building supply cable complaints, checking & routine maintenance, attending of HT/LT cables pertaining to HT switch gear, transformers, LT panels, feeder pillar boxes, street lights including tightening of all type of connections, changing of burnt cable ends, MCB's connectors, etc. or any other repair works etc by deploying :- (i) Semi skilled electrician - 01 No and helper - 01 No in general shift (0830 Hours to 1730 Hours with One hour lunch) per day excluding Saturdays, Sundays & Holidays for New CAIR installations. (ii) Semi skilled electrician - 01 No and helper - 01 No in general shift (0830 Hours to 1730 Hours) with One hour lunch) per day including Saturday, Sundays & Holidays for DAD Quarters & DCA Quarters installations as under complete all as directed by Engineer-in-charge.</p> <p>Electrician (Semi Skilled) - Total 2 Nos per general Shift (1 No for DAD Quarters & DCA Quarters installations & 1 No for New CAIR installations)</p>	513	Per Shift of One Semi skilled Electrician

SCHEDULE OF WORKS (BOQ)(Contd..)

Sl. No.	<u>Item Description</u>	Quantity	Units
1	<u>2</u>	3	4
3.	All as per Item No.2 here-in-above but for Helper (Unskilled) – Total 2 Nos per general Shift (1 No for DAD Quarters & DCA Quarters installations & 1 No for New CAIR installations)	513	Per Shift of One Unskilled helper
<p><u>Notes for Serial Item Nos 1 to 3 :-</u></p> <p>(i) The E/M installations will be handed over as is what is basis after acceptance of contract as per Work Order.</p> <p>(ii) The work also includes Daily cleaning of all E/M installations and allied switch gear plants and equipments complete, installation surrounding areas, pump sets, DG Sets and DG set / pump set rooms etc complete all as directed by Engineer-in-charge.</p> <p>(iii) The Contractor is advised to visit the site before quoting their rates and know the scope of work from Deptt and nothing extra will be payable on account of any misunderstanding in Scope of Work and working areas.</p> <p>(iv) The Contractor is responsible to ensure that all man power employed during shift hours. shall restrict their movement to installations and connected complaint bdgs.</p> <p>(v) In any unforeseen circumstances/difficulties, if any technician/helper found absent during shift hours, no payment shall be paid to the contractor against the absent individual shift/shifts and the contractor is solely responsible for operation of E/M installations and servicessmoothly on the site with attended outsourcing staff without any extra claim from the Deptt.</p> <p>(vi) Provisions of statutory laws relating to minimum wages, EPF, EDLI, ESIC, Bonus, GST, CESS & other levies payable shall be strictly adhered to by the contractor. Attention is also drawn to minimum fair wages payable as notified (time to time) by Govt Of India / State Govt / Local body whichever is higher, including all taxes as applicable and quote their rates. Contractor shall not have any claim on account of misunderstanding / under quoting in this regards.</p> <p>(vii) Responsibility of compliance of labour regulations in force lies with the tenderer. Attention is also invited to Labour Wages Act with regards to payment of wages to the individuals engaged under this work. Contractor shall make the payments to their staff / employees by Cheque or through NEFT in their Bank Account, and the particulars of same shall be submitted to the department on monthly basis. No payments will be made, unless proof of ESI proofs, PF and payment of wages through bank account are submitted by the Contractor/firm on monthly basis strictly.</p> <p>(viii) Duty roster of the workmen on monthly basis to be submitted to Engineer-in-charge on 1st working day of every month and all workmen should wear uniform strictly during duty hours with contractor name badge etc.</p> <p>(ix) The site of work is at NEW CAIR, DAD & DCA QTRS E/M installations complete, will be handed over as per existing site as is what is basis to the Service Provider. The Service Provider shall have a visit to the site before submitting their bid, all wokmen to be more vigilant in their duty hours being a HT sub stns and others.</p>			

SCHEDULE OF WORKS (BOQ)(Contd..)

Sl. No.	<u>Item Description</u>	Quantity	Units
1	<u>2</u>	3	4
	<p><u>Notes for Serial Item Nos 1 to 3 :-</u></p> <p>(x) The Service Provider is responsible to keep present all man power in the E/M Installation premises only during shift hours and ensure that all man power employed for the work shall carry their breakfast / lunch / Dinner as applicable along with them before entry into users main gate, shall have their food at E/M installations duty room only and no persons shall be allowed to go outside premises of users campus during shift hours.</p> <p>(xi) The HT readings of installations shall be entered on hourly basis in the log sheets and also Maintenance of complaints job card, registers / breakdown / shutdown registers etc is the responsibility of the Service Provider workmen all as directed by Engineer-in-charge and the cost of all stationary shall be included in the quoted rate.</p> <p>(xii) Necessary testing equipments, tools & plants and safety gear i,e electrician tools kits, Tong testers, crimping tools kit (01 No), HT & LT megger (01No each), earth tester (01 No), wooden ladders (01 No), HT gloves (02 Set).suitable for each HT / LT supply installation shall be provided to duty persons by the Service Provider, the cost inclusive for the same in the quoted rate.</p> <p>(xiii) The Items required for attending complaints are mentioned here-in-after shall be supplied by the Service Provider as and when required and the same shall be measured and paid under relevant items as supply only. It must be ensured by the Service Provider that 10% of above items shall be made available at any point of time for day-to-day maintenance during contract period so that complaints are attended without any delay, a record of users complaint slips / complaint register to be maintained properly.</p> <p>(xiv) The Service Provider is responsible to bring all items here-in-after mentioned to AGE E/M sub division along with consignee original vouchers copies and test certificates (as applicable) with prior intimation to Concerned JE E/M and got inspected by Engineer-in-charge and Garrison Engineer in the sub division yard before sending / shifting to site.</p> <p>(xv) Also refer to Schedule 'A' Notes & Particular Specifications for other jobs to be carried out by the personnel employed by the Contractor.</p>		

SCHEDULE OF WORKS (BOQ)(Contd..)

Sl. No.	Item Description	Quantity	Units
1	2	3	4
	PART - III (SUPLY OF MATERIALS FOR ATTENDING DAY TO DAY COMPLAINTS)		
4	Supply only rigid non-metallic PVC conduit of size 20 mm dia, medium grade complete all as specified and directed.	50	RM
5	Supply only PVC casing/capping of 20 mm size, ISI marked, complete all as specified and directed.	50	RM
6	Supply only modular switch 6 Amps, 240 V, one way single pole, one module as per site requirements make & model complete all as specified and directed.	100	Each
7	Supply only modular switch 16 Amps with indicator, 240 V, one way single pole, one module as per site requirements make & model complete all as specified and directed.	50	Each
8	Supply only modular sockets, 5 pin, 240 v, 50 Hz, 6 Amps Two modules as per site requirements make & model complete all as specified and directed.	50	Each
9	Supply only modular sockets, 6 pin, 240 v, 50 Hz, 16 Amps two modules as per site requirements make & model complete all as specified and directed.	50	Each
10	Supply only modular fan regulator electronic dimmer type 0-5 steps, 120 W, 240 V, 50 Hz, two module as per site requirements make & model complete all as specified and directed.	50	Each
11	Supply only PVC insulated, PVC unsheathed, multi-stranded heavy duty copper conductor cable of 1.5 sq.mm size, FRLS grade, complete all as specified and directed.	180	RM
12	Supply only PVC insulated, PVC unsheathed, multi-stranded heavy duty copper conductor cable of 2.5 sq.mm size, FRLS grade, complete all as specified and directed.	180	RM

SCHEDULE OF WORKS (BOQ)(Contd..)

Sl. No.	Item Description	Quantity	Units
1	2	3	4
13	Supply only PVC insulated, PVC unsheathed multi-stranded heavy duty copper conductor cable of 4.0 sq.mm size, FRLS grade, complete all as specified and directed.	180	RM
14	Supply only PVC insulated, PVC unsheathed multi-stranded heavy duty copper conductor cable of 6.0 sq.mm size, FRLS grade, complete all as specified and directed.	180	RM
15	Supply only socket, 5 pin, 5 A, 240 V, 50 Hz, flush type, complete all as specified and directed.	100	Each
16	Supply only switch socket combination, 5 pin, 5 Amps, 240 V, flush type, multipurpose, controlled by one switch, with gang box, complete all as specified and directed.	100	Each
17	Supply only switch socket combination, 6 pin, 5 A & 15 Amps, 240 V, flush type, multipurpose, controlled by one switch, complete all as specified and directed.	100	Each
18	Supply only call bell Ding Dong type 230 volts single phase complete all as specified and directed.	20	Each
19	Supply only bell push switch single pole flush type 230 volts 5 Amps capacity complete all as specified and directed.	20	Each
20	Supply only fan regulator electronic type, 230 V, stepped type dimmer socket type 120 W complete all as specified and directed.	50	Each
21	Supply only electronic ballast 72 W for 2 x 36 W CFL light fitting, 4 pin type, 230V, complete all as specified and directed.	100	Each

SCHEDULE OF WORKS (BOQ)(Contd..)

Sl. No.	Item Description	Quantity	Units
1	2	3	4
22	Supply only, LED outdoor, decorative post top lantern fitting, with lamp, 40 W , IP 65 protection, resistant to impact and corrosion, glare-free and better uniformity and swath high lumen output, environmental friendly, energy efficient LED, Class I system electrical efficiency > 85%, system efficacy > 100 lm/W, operating voltage between 140 - 270 V, AC, 50 Hz, TDH<10%, power factor ≥ 0.95, inbuilt surge protection 4 kV, colour temperature 5700 K, CRI ≥ 70, integral drivers having high voltage, short circuit protection and driver should be BIS certified with R number and 4 KV SPD, complete all as specified and directed. Make :- Crompton Cat No. LPTO-40-CDL-M or techno commercially equivalent makes specified here-in-after.	5	Each
23	Supply only LED tube light fitting with tube rod, 9/10 Watt, 2 feet long, with high lumen output, IP 20 protection, environmental friendly, energy efficient LED, electrical efficiency > 85%, system efficacy > 100 lm/W, operating voltage between 140 - 270 V, AC, 50 Hz, TDH, 10%, power factor ≥ 0.95, surge protection 2.5 kV, colour temperature 5700 K, CRI > 80, with integral drivers, BIS certified with R number, prewired and connecting with 3 core 1 sq mm sheathed copper flexible cable, THD<20%, complete all as specified and directed. Make:- Crompton Cat No. LCTLN-10-CDL or techno commercially equivalent makes specified here-in-after.	20	Each
24	Supply only LED tube light fitting with tube rod, 18/20 Watt, 4 feet long , with high lumen output, IP 20 protection, environmental friendly, energy efficient LED, electrical efficiency > 85%, system efficacy > 100 lm/W, operating voltage between 140 - 270 V, AC, 50 Hz, TDH, 10%, power factor ≥ 0.95, surge protection 2.5 kV, colour temperature 5700 K, CRI > 80, with integral drivers, BIS certified with R number, prewired and connecting with 3 core 1 sq mm sheathed copper flexible cable, complete all as specified and directed. Make :- Crompton Cat No. DIJB12LT8-20 + LT8-20-865-2 or techno commercially equivalent makes specified here-in-after.	40	Each

SCHEDULE OF CREDIT**CREDIT FOR UNSERVICEABLE MATERIALS RETRIEVED AFTER REPLACING DEFECTIVE ONES**

- 1 The unserviceable materials retrieved after replacement of defective / damaged items will be sold to the Service Provider as per rates fixed by Govt as under. The credit assessed by the department is only rough indication and the Service Provider shall have no claim what so ever against the Government, irrespective of the condition of the materials obtained from site and if the actual cost of the salvaged materials turnout to be different from the amount assessed by the department.
- 2 The items in this Schedule shall not be reused/ incorporated in the work and it shall be removed out of site after getting permission of Engineer-in-Charge in writing.
- 3 The materials listed in this Schedule with quantity actually obtained shall be recorded in the Measurement Book and abstracted and this amount shall be deducted from the value of work done under Schedule 'A'. The Service Provider will not be allowed to remove the materials listed in this Schedule till such time the value of work done by him is more than the value of credit for such materials.
- 4 Any serviceable materials obtained other than those mentioned in Schedule of credit shall become property of Govt and shall be removed to store yard to GE (I) by the Service Provider without any extra cost.

SI No	Brief Specification of items	Unit	Rate
1	2	3	4
1	Unserviceable copper conductor cable 1.5 sq.mm	RM	4.00
2	Unserviceable copper conductor cable 2.5 sq.mm	RM	4.00
3	Unserviceable copper conductor cable 4 sq.mm	RM	5.00
4	Unserviceable copper conductor cable 6 sq.mm	RM	6.00
5	Un serviceable PVC conduit/ trunking/ casing and capping of any type with accessories.	RM	2.00
6	Unserviceable switches / socket/ /ceiling rose /bell push /lamp holders/ fan regulators/ starters	EACH	2.00
7	Unserviceable tube rods, lamps	EACH	2.00
8	Unserviceable electronic choke/ballast of any description.	EACH	10.00
9	Unserviceable call bell of any type	EACH	5.00
10	Unserviceable copper flexible cable	RM	4.00
11	Unserviceable internal light fittings of any description and size.	EACH	40.00
12	Unserviceable post top lantern/ steet light/ flood light/ recessed light fittings	EACH	125.00

SCHEDULE 'B'**ISSUE OF MATERIALS TO THE SERVICE PROVIDER****(REF CONDITION 10 OF IAFW – 2249)**

Ser No	Particulars	Rate at which materials will be issued to the Service Provider		Place of issue (by name)	Remarks
		Unit	Rate		
			Rs. ps.		
1	2	3	4	5	6
-----NIL-----					

SCHEDULE 'C'**LIST OF TOOLS AND PLANTS OTHER THAN TRANSPORT WHICH WILL BE HIRED TO THE SERVICE PROVIDER****(See conditions 15, 34 and 35 of IAFW-2249)**

Ser No	Quantity	Particulars	Details of MES crew supplied	Hire charges per unit of working day	Stand by charges per unit per off day	Place of issue (by name)
1	2	3	4	5	6	7
-----NIL-----						

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

SER NO	QUANTITY	PARTICULARS	RATE PER UNIT PER WORKING DAY	PLACE OF ISSUE (BY NAME)	REMARKS
1	2	3	4	5	6
-----NIL-----					

Signature Of Service Provider
DateAGE (Contracts)
For Accepting Officer

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

TENDER

To THE PRESIDENT OF INDIA

Having examined and perused the following documents:-

1. Specifications signed by Assistant Garrison Engineer (Contracts), GE (I) R&D (West), Bangalore – 560 093
2. Drawings detailed in the specifications.
3. Schedule 'A', 'B', 'C' and 'D' attached hereto.
4. MES Standard Schedule of Rates – 2009, Part I (Specifications) and Part II (Rates) of 2020 (hereinafter and in IAFW – 2249 referred to as the MES Schedule) together with Amendment No. 01 to 03 for Part – I as applicable to the above said Schedule.
5. General conditions of contracts, IAFW-2249 (1989 Print) together with amendment Nos 1 to 48 and errata Nos 1 to 20.
6. Water: Condition 31 of IAFW 2249: General Conditions of Contracts.
- 6.1. Water will not be supplied by MES. Service Provider shall his own arrangements for water.
7. SHOULD THIS TENDER BE ACCEPTED

I / We agree

(a) That the sum ₹ 74,000.00 (Rupees **Seventy four thousand** only) forwarded as earnest money shall either be retained as a part on account of the **Performance Security (5 % of Contract Sum)** or shall be repaid by the Government on receipt of the full amount of Performance Security within the time specified in Condition 19 of IAFW-2249.

(b) To execute all the work referred to in the said documents upon the terms and conditions contained or referred to therein at the item rates contained in the aforesaid Sch 'A' or at such other rates as may be fixed under the provision of conditions 62 and to carryout such deviations as may be ordered vide condition 7 of IAFW – 2249 upto a maximum of 10% (TEN) percent and further agree to refer all disputes, as required by the condition 70 of IAFW-2249 to the sole Arbitration of a serving officer having degree in Engineering or Equivalent of having passed final/ Direct final examination of sub division II of Institution of Surveyor's(India) recognized by the Govt of India to be appointed by Chief Engineer R&D Secunderabad or in his absence the Officer officiating as Chief Engineer R&D Secunderabad, if specifically delegated in writing by the Chief Engineer R&D Secunderabad, whose decision shall be final, conclusive and binding.

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

TENDER (Contd...)Signature: _____
(With Name in Block Letters)In the capacity of _____ fully authorised to sign the tender for and
on behalf of _____ (In block letters).

Date : _____

Witness : _____

Postal Address : _____

Address : _____

Telegraphic Address _____

Telephone: (Office) _____

(Res) _____

(Mobile) _____

ACCEPTANCE

_____ alteration have been made in this document and as evidence that these alterations were made before the execution of the contract agreement they have been initialed by the Service Provider and AGE (Contracts). The said officer is / are hereby authorised to sign and initial on my behalf the documents forming part of this contract.

The tender was accepted by me on behalf of the President of India at the Item Rates contained in Schedule 'A' on the _____ day of _____ 2023

(Pradipta Thakur, IDSE)

EE

Appointment:Garrison Engineer (I) R&D (West)
DRDO Complex, CV Raman Nagar PO
Bangalore-560 093

(For and on behalf of the President of India)

Dated this _____ day of _____ 2023

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

1. It is hereby agreed by me/us that the General Conditions of Contract including Conditions 70 pertaining to the settlement of disputes by arbitrator (IAFW-2249 - 1989 Print) containing 33 pages (Serial Page Nos. **34 to 66**) with errata Nos 01 to 20 and amendment Nos 01 to 48 there to (Serial Page Nos. **67 to 95**) form an integral part of the tender documents.
2. This tender submitted by me/us * is subject to the aforesaid General Conditions of Contracts IAFW-2249 an amended copy of which has been supplied to me/us * and is in my/our possession and which I /we* have read and fully understood before submission of the tender.
3. My/Our * signature there under is in token of my/our * having accepted the aforesaid General Conditions of Contracts together with errata and amendments (IAFW-2249, 1989 Print) and the clause relating to arbitration forming an integral part of this tender.
4. It is agreed that in the event of any discrepancy in the English and Hindi version of IAFW-2249, the contents in English will prevail.

* Delete which is not applicable.

AGE (Contracts)
for Accepting Officer

Signature of Service Provider
Date :

SCHEDULE OF MINIMUM FAIR WAGES

1. It is an express condition of contract that the schedule of Minimum fair wages form part of this contract and Service Provider is liable to pay minimum wages to labour/worker engaged under the contract as per notification issued by Central/State Government whichever is high.
2. It is also an agreed condition of this contract that the Minimum wages Act and provisions catered there-in form part of this contract agreement.

AGE (Contracts)
for Accepting Officer

Signature of Service Provider
Date :

SPECIAL CONDITIONS**1. GENERAL**

- 1.1 The following Special Conditions shall be read in conjunction with General Conditions of Contracts (IAFW – 2249) 1989 Print including amendments and errata thereto. If provisions in these special conditions are at variance with the provisions in the aforesaid documents, the provisions in these special conditions shall be deemed to take precedence there over.
- 1.2 The work under this Contract shall be carried out in accordance with Schedule “A”, the particular specifications, drawings and other provisions in MES Schedule.
- 1.3 The term General specifications referred to here as well as referred to in IAFW – 2249 (General conditions of contracts) shall mean the specifications contained in MES Schedule.

2. MES SCHEDULE

- 2.1 Service Provider’s special attention is invited to the fact that this tender is based on MES Schedule mentioned on tender page including Errata / Amendments there to as applicable.

3. GENERAL CONDITIONS OF CONTRACTS IAFW – 2249 (1989 PRINT)

- 3.1 Wherever “IAFW–2249” is mentioned it means General conditions of contracts IAFW–2249 (1989 Print) including Errata/Amendments as applicable.
- 3.2 Wherever the letters “C.W.E.” (Commander Works Engineers) have been referred to in General Conditions of Contracts IAFW – 2249, (1989 Print), the same shall be amended to read as “CE” (Chief Engineer).

4. SECURITY OF CLASSIFIED DOCUMENTS (REFER CONDITION 2A AND 3 OF IAFW – 2249)

- 4.1 Service Provider’s special attention is drawn to conditions 2A and 3 of General Conditions of Contracts (IAFW – 2249) and also to the Indian Official Secret Act – 1923 (Particularly Section 5). The Service Provider is bound by the provisions of the Act. The Service Provider shall not communicate any classified information regarding works either to sub-Service Provider(s) or others without prior approval of Engineer-in-Charge. The Service Provider shall also not make copies of the design/drawings and other documents furnished to him in respect of works and shall return all the documents on completion of the work or on earlier determination of the contract. The Service Provider shall along with final bill attach receipt from Engineer-in-Charge in respect of his having returned the classified documents as per condition 3 of the General Conditions of Contracts (IAFW – 2249).

4.2 OFFICIAL SECRET ACT

- 4.2.1 The Service Provider shall be bound by the official secret act and particularly Section 5 thereof

5. INSPECTION OF SITE AND RELEVANT DOCUMENTS (REFER CONDITION 4 OF IAFW – 2249)

- 5.1 The Service Provider is required to visit the site of works and make himself thoroughly acquainted with the working conditions and/or the approaches/accessibility to site availability of materials and all other relevant conditions affecting the completion of entire work. He is required to make himself fully acquainted with the nature and scope of the work before tendering. For the purpose of inspection of relevant documents other than those sent herewith, the Service Provider is required to contact the Garrison Engineer who will give reasonable facilities. The Service Provider shall be deemed to have visited the site before submitting the tender whether he does it or not.

SPECIAL CONDITIONS (CONTD...)**6. MATERIALS AND SAMPLES (REFER CONDITION 10 OF IAFW - 2249)**

- 6.1 The Service Provider is advised to inspect samples of the local building materials maintained by the GE before submitting his tender. He will be deemed to have full knowledge of these materials whether he inspects them or not the materials to be provided by the Service Provider shall conform to/ shall be superior to the standard of samples displayed in the office of Garrison Engineer in the matter of quality unless otherwise specified.
- 6.2 Items conforming to Indian Standard Specification shall be accepted only when ISI marked materials are not manufactured. Material such as glazed tiles, AC sheets, AC rain water pipes, paint, bib taps and pillar taps, sanitary fittings etc., which are considered superior to IS specifications by the GE may be used without any extra cost to Government. However before incorporating such materials / Items, the Service Provider shall produce necessary test certificates as required by the GE.
- 6.3 The Service Provider shall produce samples of materials for incorporation direct to the GE with copy to the Accepting Officer and get them approved in writing by the GE before commencement of work. All approvals of materials shall be in writing from GE to Service Provider. The materials, articles etc., as approved shall be labelled accordingly and shall be signed by GE and Service Provider and kept and displayed at the site of works.

7 CO-OPERATION WITH OTHER AGENCIES

- 7.1 The Service Provider shall permit free access and generally afford reasonable facilities to other agencies of specialist nature of departmental workmen engaged by Government to carryout their part of the works, if any, under separate arrangements.
- 7.2 The Service Provider's price shall be deemed to cater for all the above contingencies and nothing extra shall be admissible on this account.

8 DAMAGE TO EXISTING STRUCTURE/BUILDING

- 8.1 Any, damage done to the existing structure during the execution of work shall be made good by the Service Provider at his own cost and the site of work left clean and tidy on completion. Rectification/reinstatement/making good etc., shall conform to the standard materials originally used in the work and finished work shall match with existing work in all respects to the entire satisfaction of the GE. In case of any dispute on this account, the matter shall be referred to the Accepting Officer whose decision in writing shall be final conclusive and binding.

9 CONTRACT LABOUR (REGULATION AND ABOLITION) ACT 1970

- 9.1 **The Service Provider when required to employ more than ten workmen on the works under this contract shall be bound by the Contract Labour (regulation and abolition) Act 1970 and rules framed there under. No Service Provider can undertake or execute his work without a license issued by a Licensing Officer.**

SPECIAL CONDITIONS (CONTD...)**10. MINIMUM WAGES: PAYMENT TO LABOUR (CONDITION 58 OF IAFW-2249)**

- 10.1 Refer condition 58 of IAFW – 2249. The Service Provider shall not pay wages lower than minimum wages for labour as fixed by the Govt. of India / State Govt./ Union territory whichever is higher.
- 10.2 Service Provider's attention is also drawn, amongst other things to the 'explanations' to the schedule of minimum wages referred to above.
- 10.3 The fair wages referred to in condition 58 of IAFW - 2249 shall be deemed to be the same as the minimum wages payable as referred to above upto date from time to time.
- 10.4 Schedule of minimum wages are not enclosed alongwith tender documents. However, Service Provider shall be deemed to have verified the minimum fair wages payable as on the last due date of receipt of tender.
- 10.5 The Service Provider shall have no claim whatsoever if on account of local factor and/or regulations or otherwise he is required to pay the wages in excess of minimum wages as described above during the execution of work.

11. SERVICE PROVIDER'S AGENTS, REPRESENTATIVES AND WORKMEN (REFER CONDITION 25 OF IAFW – 2249)

- 11.1 The Service Provider shall employ only Indian Nationals as his representatives, servants, and workmen and verifying their antecedents and loyalty before employing them in works. He shall ensure that no person of doubtful antecedents and nationality is in any way associated with the work. If for reasons of technical collaboration or other considerations, the employment of any foreign nationals is unavoidable the Service Provider shall furnish full particulars to this effect to the Accepting Officer at the time of submission of the tender. As a proof that the Service Provider has employed only Indian Nationals, he shall render a certificate to GE(I) within one month from the date of acceptance of tender to this effect. In case the GE(I) desires Service Provider will have the police verification done for personnel employed by him.
- 11.2 The GE shall have full powers and without giving any reasons to order the Service Provider to immediately cease the employ in connection with this contract any Representatives, Agent, Servant and Workmen or employee whose continued employment is in his opinion undesirable. The Service Provider shall not be allowed any compensation on this account.
- 11.3 The Service Provider's attention is also drawn to Condition 25 of IAFW – 2249 in this connection.

12. ELECTRIC SUPPLY

- 12.1 Electricity will not be supplied by the department. Service Provider shall have to make their own arrangement.

13. GUARANTEE BOND / RETENTION MONEY :

- 13.1 On acceptance of the tender, the Government may accept a Guarantee Bond or a Fixed Deposit Receipt from State Bank of India and its subsidiaries, Nationalised banks or Scheduled banks for **Performance Security Deposit/ Retention Money**. The Bank Guarantee shall be in the prescribed form which is available in the office of the **Garrison Engineer (I) R&D (West) Bangalore - 560093** for Service Providers perusal. The period of validity of the Bank Guarantee Bond against Performance Security shall be initially valid upto the stipulated date of expiry of Defects Liability Period plus minimum 60 days beyond that.

SPECIAL CONDITIONS (CONTD...)

- 14 **RELEASE OF PERFORMANCE SECURITY (REFER CONDITION 19 AND 68 OF IAFW – 2249)**
- 14.1 The Performance Security Deposit mentioned in Condition 19 of IAFW-2249 may be refunded to the Service Provider after expiration of the defects liability period (vide Condition 46 of IAFW-2249) by the GE provided always that the Service Provider shall first have been paid the final bill and have rendered a No-Demand Certificate (IAFW-451).
- 14.2 Defects liability period for the subject work is **Twelve months from the certified date of completion of work.**
15. **ROYALTIES**
- 15.1 Reference condition of 14 of General Condition of Contracts (IAFW –2249) No Quarries on Defence Land are available.
16. **PERIOD OF KEEPING THE TENDER OPEN**
- 16.1 The tender shall remain open for the acceptance for a period of *60 (SIXTY)* days from the date on which the tender is due to be submitted.
- 17 **NETWORK ANALYSIS:**
- 17.1 The time and progress chart to be prepared as per Condition 11 of General Conditions of Contracts IAFW-2249 shall consist of detailed network analysis and a time schedule. The critical path network will be drawn jointly by the GE and the Service Provider soon after acceptance of tender. The time schedule of the activities will be done by the Service Provider so as to finish the work within the stipulated time. On completion of the time schedule, a firm calendar date schedule will be prepared and submitted by the Service Provider 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.
- 17.2 During the currency of the work, the Service Provider is expected to adhere to the time schedule and this adherence will be a part of the Service Provider's performance under the Contract. During the execution of the work, the Service Provider is expected to participate in the reviews and updating of the network undertaken by the GE. 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 Service Provider is substantially changed through deviation order or amendments.
- 17.3 Any revision of the time schedule as a result of the review will be submitted by the Service Provider to the GE within a week for his approval after due scrutiny.
- 17.4 The Service Provider shall adhere to the revised time schedule thereafter. In case of Service Provider disagreeing with revised schedule, the same will be referred to the Accepting Officer, whose decision shall be final, conclusive and binding. CE's approval to the revised schedule resulting in a completion date beyond the stipulated date of completion shall not automatically amount to a grant of extension of time. Extension of time shall be considered and decided by the appropriate authority mentioned in Condition 11 of IAFW- 2249 and separately regulated.
- 17.5 Service Provider shall mobilise and employ sufficient resources to achieve the detailed schedule within the broad frame work of the accepted method of working and safety. No additional payment will be made to Service Provider for any multiple shift work or other intensive methods contemplated by him in his schedule, even though the time schedule is approved by the department.

SPECIAL CONDITIONS (CONTD...)**18. SITE CLEARANCE (Refer condition 49 of IAFW – 2249, General Conditions of Contracts)**

- 18.1 The Service Provider shall remove from the site all unused stores and huts and the like belonging to the Service Provider provided for the execution of work under this contract and the site of works shall be cleared off all rubbish and waste materials by the Service Provider and the site of works delivered in clean and tidy manner to the satisfaction of the Engineer-in-Charge on or before the date of completion. Nothing extra whatsoever will be paid to the Service Provider for such clearance of site.
- 18.2 The Service Provider shall clean all floors, remove cement lime / paint drops etc., clean the joinery, glass panes etc., touch up all painting work in connection with and leave the whole premises clean and tidy to the entire satisfaction of the Engineer-in-Charge before handing over the buildings.

19 STANDARD OF WORKMANSHIP AND FINISHES

- 19.1 To determine the acceptable, standard of materials and workmanship / final finishes and layout of fittings etc., the Service Provider shall execute stages of work viz., excavation, foundation concrete, walling up to plinth / lintel / roof levels, roofing, flooring, joinery, built-in items, finishes and the like and services i.e., internal electrification, water supply, plumbing, sanitary fittings at one location as directed and shall get it completed within the stipulated time under close supervision of Engineer-in-Charge and shall get it approved by the GE. The workmanship of various trades and finishes of the sample items shall serve as guiding samples for the remaining work.
- 19.2 Approval of the stages and workmanship of sample items shall be separately entered and approved in stage passing register giving reference block and quarter numbers for easy identification even at a later date.

20 OUT OF POCKET EXPENSES

- 20.1 Out of pocket expenses incurred by the Service Provider in submitting this tender will not be reimbursed whether tender is accepted or not.

21 AVAILABILITY OF LAND FOR STORAGE OF MATERIALS / ACCOMMODATION FOR LABOUR

- 21.1 Delete the following in Para 1 of condition 24 of IAFW – 2249 General Conditions of contracts “In the event of areas of land allotted to him”.
- 21.2 The Service Provider shall be permitted to store his materials including erecting temporary sheds and also erect his temporary workshops for storage materials and for fabrication at the area of land marked for this purpose on the site plan free of rent if it is on class “A-1 land. For other types of land he shall be charged a license fee of Rs.1/- per year or part the rest is each & every separate area of land allotted to him. No defence land is available for accommodation of Labour for which the Service Provider shall make his own arrangement at his own expenses.

22. WORKING HOURS / DAYS

- 22.1 The Service Provider or his workmen shall not be permitted to work on Saturdays, Sundays, holidays or after normal working hours without prior written permission of the GE.

23. WATER (REFER CONDITION 31 OF IAFW – 2249)

- 23.1 Water will not be supplied by MES.

SPECIAL CONDITIONS (CONTD...)**24 SIGNING OF TENDER**

24.1 The person signing the tender on behalf of another partner or on behalf of a firm shall attach with the tender a proper power of attorney duly executed in his favour by such other person or by all the partners, stating that he has authority to bind such other person(s) or the firm as the case may be in all matters pertaining to the contract including arbitration clause.

25 CONDITIONS OF WORKING IN RESTRICTED AREA

25.1 **VISIT TO THE SITE BEFORE TENDERING:-** Permission to enter the restricted area at the time of submission of tenders can be obtained through the Garrison Engineer. Service Providers are advised to send prior intimation to the GE about the particulars of their agents, representatives etc., if any, dates and time of their proposed visits so that necessary arrangements may be made by GE to secure admission. Whether a Service Provider visits the site or not he shall be deemed to have full knowledge of the restrictions on entering into/exit/from and working within the Restricted Area.

25.2 **ENTRY / EXIT:-** The Service Provider, his agent(s), representatives, workmen etc., and his materials, carts, trucks or other means of transport etc., will be allowed to enter through and leave from only from such gate or gates and such times as the GE or authorities in-charges of the Restricted Areas may at their sole discretion permit to be used. The Service Provider's authorized representative is required to be present at the place of entry and exit for the purpose of identifying his carts, trucks etc., to the personnel in charge of the security of Restricted Area.

25.3 **IDENTITY CARDS OR PASSES:** The Service Provider, his agents and representatives are required individually to be in possession of an identify card or pass duly verified by the Security Department of the restricted area. The identify card or pass will be examined the security staff at the time of entry into or exit from the Restricted Area and also at time or any number of times inside the Restricted Area.

25.4 **IDENTITY OF WORKMEN:** Every workman shall be in possession of an identity card. The identity card will be issued after thorough investigation of the antecedents of the workmen by the Service Providers and attested by the Officer in charge of the unit concerned in accordance with the standing rules and regulations of the units. Service Provider shall be responsible for the conduct and action of his workmen, agents and representative.

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

25.6 **FEMALE SEARCHER:** If the Service Provider desires to employ female labour on works to be carried out inside the area of Factory, Depot, Park etc., and a female searcher is not borne on the authorized strength of the Factory, Depot, park etc., at the time of submission of the tender, he shall be deemed to have allowed in his tender for, pay and allowances etc., for a female searcher (Class IV Servant/Group "D" servant) calculated for the period female labour is employed by him inside that area. If more than one Service Provider employees female labour during any month and female searcher has/have to be employed in addition to the authorized strength of the Factory, Depot, Part etc., the salary and allowances paid to the additional female searcher(s) shall be distributed on an equitable basis between the Service Providers employing female labour taking into consideration the values and periods of completion of their contracts. The GE's decision in regard to the amount recoverable on this account from any Service Provider shall be final and binding.

SPECIAL CONDITIONS (CONTD...)**25.7 WORKING HOURS**

25.7.1 The units controlling restricted area, usually, work during **six days** in the week and remain closed on the 7th day. The working hours available to Service Provider's labour and staff may however appreciably reduced because of the time taken in security checks carried at the time of entry, exit and during working hours.

25.7.2 The exact working hours of the working days and non-working days observed for the restricted area, where works are to be carried out shall be deemed to have been ascertained by the Service Provider before submitting his tender. Service Provider's attention is invited to the fact that the total number of working hours for a unit is prescribed in regulations and they cannot be increased by the Garrison Engineer. The Service Provider has to produce police verification report of his supervisory staff and labour before commencement of work to the security section of unit controlling the area through GE.

25.7.3 Service Provider's materials, transport, etc., will normally be permitted to go out of the area between 8 AM to 6 PM only.

25.7.4 The work shall be executed entirely in the restricted area. Normal working hours are from 0900 hours to 1700 hrs on working days.

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

26 RE-IMBURSEMENT / REFUND ON VARIATION IN "TAXES DIRECTLY RELATED TO CONTRACT VALUE":

(a) The rates quoted by the Service Provider shall be deemed to be inclusive of all Taxes (including GST on works contract / GST on materials, Turnover Tax, labour welfare cess / tax etc.), EPF, ESI & other levies / taxes payable under the respective statutes (Central & State). 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 tax provided in sub para (b) here-in-below.

(b) (i) The taxes which, are levied by Govt. at certain percentage rates of Contract Sum / Amount shall be termed as "taxes directly related to Contract value" such as GST on works contracts, Turnover Tax, Labour Welfare Cess / tax, EPF, ESI or any other taxes / levies (by Central & State Govt) and like but excluding Income Tax.. The tendered rates shall be deemed to be inclusive of all "taxes directly related to Contract value" with existing percentage rates as prevailing on last due date for receipt of tenders. Any increase in percentage rates of "taxes directly related to Contract value" with reference to prevailing rates on last due date for receipt of tenders shall be reimbursed to the Service Provider and any decrease in percentage rates of "taxes directly related to Contract value" with reference to prevailing rates on last due to for receipt of tenders shall be refunded by the Service Provider to the Govt. / deducted by the Govt. from any payments due to the contract. Similarly imposition of any receipt of tenders shall be reimbursed to the Service Provider and abolition of any "taxes directly related to Contract value" prevailing on last due date for receipt of tenders shall be refunded by the Service Provider to the Govt./ deducted by the Govt. from the payments due to the Service Provider.

(ii) The Service Provider 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

SPECIAL CONDITIONS (CONTD...)

Condition, together with all information relating thee to which he may be in position to supply. The Service Providers shall submit the other documentary proof / information as the GE may require

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

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

27 ADVANCE ON ACCOUNT OF MATERIALS WHICH DON'T LOSE INDENTITY

27.1 BLANK

28. RECORD OF MATERIALS AND PURCHASE VOUCHERS

- (a) The quantity of materials which cannot be checked after incorporation in the works shall be recorded in measurement book and signed by the Service Provider and the Engineer-in-Charge as check to ensure that the required quantity has been brought to site for incorporation in the work. Materials brought to site shall be stored as directed by the Engineer-in-Charge and those already recorded in Measurement Book shall be suitably marked for identification.
- (b) Service Provider shall produce vouchers/ invoice from the manufactures and/or their authorized agents for the full quantity of the following materials, as applicable as a pre-requisite before submitting claims for payment for advances on account of the work done and /or materials collected in accordance with Condition 64 of General Conditions of Contract IAFW-2249.
- (c) The Service Provider shall, on demand, produce to the GE, original receipted vouchers/ invoice in respect of the materials other than as stated in sub-para (b) Voucher/ invoices so produced and verified shall be stamped by Engineer-in-Charge indicating contract number. The Service Provider shall ensure that the materials are brought to site, in original sealed, container/packing, bearing manufactures marking except in the case of the requirement of materials (s) being less than smallest packing.
- (d) The vouchers/invoice will clearly indicate the contract number and the S No specific alternative to which the materials conforms in case of various alternative in IS.

29 FOREIGN EXCHANGE

29.1 Particular attention of the Service Provider is drawn to the fact that all materials, machinery, plants, spares components etc. required to be supplied under this contract shall be from ready stocks or such as would be available within India except for such items of plant and equipment which are not of indigenous manufacture and are not otherwise totally banned for import by the Ministry of Commerce and Industry. No import license will be obtained by the department as such item will have to be arranged by the Service Provider against their own import quota.

29.2 All equipment and materials to be used in the work shall be new and of the best of their respective kind.

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29.3. No foreign exchange shall be provided for by MES for any equipment / materials.

30. RECORD OF CONSUMPTION OF CEMENT

30.1 The Service Provider shall maintain a bound register with serially numbered pages with all pages initiated by Engineer-in-Charge against numbering showing quantities of cement procured, received at site used in work and balance at the end of each day. The form of record shall be as approved by Engineer-in-Charge. The register shall be daily by representative of MES and the Service Provider in token of verification of its correctness and will be checked by Engineer-in-Charge at least once a week and on the days cement is consumed by the Service Provider. The register shall be kept at site in safe custody of the Service Provider representative during the progress of the work and on demand be produced for verification to the inspecting officer (s). On completion of the work the Service Provider shall deposit the cement register with the Engineer-in-Charge for record.

31.00 CONCILIATION**31.1 SCOPE OF CONCILIATION**

31.1.1 The scope of conciliation shall be restricted to the following types of disputes with financial limits as indicated therein:-

(a) Disputes relating to levy of compensation for delay in completion - Actual amount of compensation.

(b) Disputes relating to technical examination of works.

(c) Disputes relating to interpretation of the provisions of the contract with reference to their application to parties.

(d) Disputes relating to non-return of schedule 'B' stores over-issued to Service Provider.

(e) Any other disputes having fair chances of being resolved by conciliation and considered fit to be referred to conciliation by the parties.

For item (b), (c), (d) and (e) each as stated above the financial limit shall be Rupees two Lakh or one percent of the contract amount whichever is less.

31.2 COMMENCEMENT OF CONCILIATION PROCEEDINGS

31.2.1 The party initiating conciliation shall send to the other party written invitation to conciliate, briefly identifying the subject of the dispute.

31.2.2 Conciliation proceedings shall commence when the other party accepts in writing the invitation to conciliate.

31.2.3 If the other party rejects the invitation, there will be no conciliation proceedings. If the party initiating conciliation does not receive a reply within 30 days from the date on which he sends or within such other periods of time as specified in the invitation, he may elect to treat this as a rejection of the invitation to conciliate and if he so elects, he shall inform in writing the other party accordingly.

31.3 NUMBER OF CONCILIATORS

31.3.1 There shall be a Sole conciliator.

SPECIAL CONDITIONS (CONTD...)**31.4 STATUS OF EFFECT OF SETTLEMENT AGREEMENT**

31.4.1 The settlement agreement signed by the parties as a result of conciliation proceedings shall have the same status and effect as it is an arbitral award on agreed terms.

32.0 HANDING OVER OF SITE

32.1 Site for execution of work will be available as soon as the work is awarded. In case it is not possible to make the entire site available on the award of work, the Service Provider will have to arrange his working program accordingly. No claim whatsoever, for not giving entire site on award of work and for giving site gradually, will be tenable

33. PERFORMANCE SECURITY

33.1 Within 28 days of receipt of the letter of Acceptance, the successful Service Provider shall deliver to the Accepting Officer a performance Security in any of the forms given below for an amount equivalent to **5 % of the contract sum**. (a) A Bank Guarantee in the prescribed form. (b) Government Securities, FDR or any other Government instruments stipulated by the Accepting Officer.

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

33.3 Failure of the successful Service Provider to comply with the requirement of clause 33.1 here-in-before shall constitute sufficient grounds for cancellation of the award of work and forfeiture of the Earnest Money. In case of MES enlisted Service Provider, amount equal to the Earnest Money stipulated in the Notice Inviting Tender, shall be notified to the Service Provider for depositing the amount through MRO. Issue of tender to such Service Providers shall remain suspended till the aforesaid amount equal to the Earnest Money is deposited in Govt Treasury.

33.4 (i) All compensation or other sums of money payable by the Service Provider to the Government under the terms of this contract or under any other contract with Government may be deducted from, or paid by the sale of a sufficient part of the Performance Security or from the interest arising there from or from any sums which may be due or become due to the Service Provider by the Government on any account whatsoever and in the event of his Performance Security being reduced by reason of any such deduction, or sale as aforesaid, the Service Provider shall within ten days thereafter make good in cash or securities, endorsed as aforesaid, any sum of sums which may have been deducted from or realized by the sale of his Performance Security or any part thereof.

(ii) Government shall not be responsible for any loss of securities or any depreciation in the value of securities while in their charge nor for loss of interest thereon.

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

34. BANK GUARANTEE BOND AGAINST PERFORMANCE SECURITY (REFER PARA 33 HERE-IN-BEFORE)

34.1 Condition 19.1 of IAFW-2249 provides for submission of Performance Security by the successful Service Provider in the form of Bank Guarantee Bonds or Govt Securities, FDR or any other form of deposit stipulated by the Accepting Officer.

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- 34.2 The Performance Security shall be in favour of Accepting Officer and shall be in any of the forms mentioned above. Work Order No 1 shall be placed only after submission of Performance Security of adequate value by the Service Provider. In case a fixed deposit receipt of any Bank is furnished by the Service Provider to the Government as part of the Performance Guarantee and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the Service Provider and the Service Provider shall forthwith on demand furnish additional security to the Government to make good the deficit.
- 34.3 If the Performance Security is provided by the successful Service Provider in the form of a Bank Guarantee, it shall be issued by Nationalized / Scheduled Indian Bank but its confirmation shall be done only from the Head office of the Bank.
- 34.4 Form for Bank Guarantee Bond against Performance Security Deposit shall be same as Appendix 2.1 of MES Manual on Contracts 2020 with "security deposit" in Para 1, line 4 replaced by "Performance Security Deposit".
- 34.5 The period of validity of the Bank Guarantee Bond against Performance Security shall be initially valid upto the stipulated date of expiry of Defects Liability Period plus minimum 60 days beyond that. In case final bill is not paid during this period, the Service Provider shall get the validity of Performance Guarantee extended to cover such enlarged time required for payment of final bill.
- 34.6 The original Bank Guarantee Bond against Performance Security alongwith necessary certified copies shall be sent to the PCDA / CDA by the Accepting Officer for verification and then returning the original to the Accepting Officer and the certified true copies to the GE (I) & AAO. The original BGB shall be kept in the custody of the Accepting Officer.
- 34.7 The Accepting Officer shall evolve a procedure to ensure that timely action is initiated to have the validity date of the Bond extended by the Service Provider, or to have it encashed before the same expires. For this purpose, a suitable register shall be maintained by the Accepting Officer.
- 34.8 In case at a later stage, on account of delay in completion of work or due to any other reason, it is considered that the validity date stipulated in the Bank Guarantee against Performance Security should be extended, then the Service Provider shall be directed by the Accepting Officer of the contract to have the validity extended before the date of validity expires. If the Service Provider fails to do so, the Bank Guarantee shall be encashed before expiry. The encashment notice shall be similar to the format given in Appendix of MES Manual on Contracts 2020 with "in lieu retention money" in Para 1, line 2 replaced by "against Performance Security".
- 34.9 In case the BGB is not encashed by the concerned Bank, the matter shall be referred to the Central Office of RBI in Delhi and Mumbai at the following address or any latest address which can be found from internet: -
- | | |
|--|---|
| (a) Jt Chief Officer
Deptt of Banking and Operations
Reserve Bank of India
Parliament Street
New Delhi-110 011 | (b) Reserve Bank of India
Central Office
Department of Banking Operations
& Development Centre-1
World Trade Centre
Cuffe Parade, Colaba
Mumbai-400 005 |
|--|---|
- 34.10 Bank Guarantee Bond in lieu of Performance Security is due for discharge on expiry of Defect Liability Period provided always that the Service Provider has been paid the final bill and Service Provider has rendered the No Demand Certificate (IAFW-451). Immediately after expiry of Defects Liability period. GE concerned shall check and ascertain the position of final bill.

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In case final bill has been paid, Service Provider shall be asked to submit the No Demand Certificate (IAFW 451), if not already submitted by him. After submission of No Demand Certificate (IAFW – 451), GE will intimate this fact to the Accepting Officer within a week who shall release the Bond duly discharge to the Service Provider. Accepting Officer will ensure that no delay occurs in releasing the Bank Guarantee Bond.

In case final bill has not paid, the status thereof shall be ascertained by Accepting Officer and efforts will be made to get it cleared within one month of expiry of Defects Liability period. After clearance and payment of final bill Service Provider shall be asked to submit the No Demand Certificate (IAFW-451), if not already submitted by him. After submission of No Demand Certificate (IAFW-451) to GE and on receipt of the same, Accepting Officer shall release the Bond duly discharged to the Service Provider without any delay.

If any recovery is outstanding against the Service Provider, release of Bank Guarantee will be subject to compliance of the procedure for effecting the recovery / with-holding the due amount as stipulated in Condition 67 (as amended) of General Conditions of Contract.

Signature of Service Provider
Date:

AGE (Contracts)
for Accepting Officer

1.0 **GENERAL :-**

- 1.1 The work under this contract shall be carried out in accordance with Sch 'A' the particular specifications. General Specifications and other provisions in MES Schedule.
- 1.2 The term 'General Specifications' referred to hereinbefore as well as referred to IAFW-2249 (General conditions of contracts) shall be specifications contained in the MES Schedule.
- 1.3 General rules, specifications, special conditions and all preambles in the MES Schedule shall be deemed to apply to the works under this contract, unless mentioned otherwise in these documents.
- 1.4 In such cases, the provisions in this document shall be take precedence over the aforesaid provisions in the MES Schedule.

2. **SCOPE OF WORK**

2.1 The scope of the work broadly comprises of following :-

- (a) Running and operation of HT / LT plants with associate Panel and other equipments etc complete with enough electricians, lineman, helpers etc., depending on the work load for all the shifts on all the days. Switch off / on feeders as per instructions of Engineer-in-Charge.
- (b) Any requirement to set-right, any major fault / major repair necessary for the installations noticed by personnel will be brought to the notice of the Engineer-in-Charge or his authorised representative immediately to arrange for repairs / replacement.
- (c) Running and operation comprises of switching On / switching Off of street / security lights installed on various building of entire **NEW CAIR, DCA COMPLEX, & DAD QUARTERS**. Check all the street/ perimeter/ gate/ garden lights periodically at least once in fortnight and ensure that all the lights are working.
- (d) Monitoring of power factor on daily basis including timely switching ON/OFF of capacitor banks and ensure minimum 0.95. Penalty of low PF due to non-adherence of above shall be Service Provider's responsibility.
- (e) Daily monitoring of standby DG set, warm up run, maintaining the battery ensure proper charging through battery charger filling up of distilled water etc, The fuel required for running of generating sets will be supplied by Department through DEL and the Log Books and consumption details shall be maintained by the detailed DEL under the supervision of JE or Engineer-in-Charge.
- (f) Manning of the locations consists of hourly monitoring, recording of readings prompt restoration of feeders at times of tripping and ensure minimum down time.
- (g) Checking of capacitor Bank for proper functioning.
- (h) All relays provided in the protective equipments required to be jointly checked for their functioning and accuracy. If needed, these relay be set as per instruction of Engineer-in-Charge depending upon conditions of the load.
- (i) The vacuum circuit breaker shall be duly checked for its proper functioning of operation to ensure the continuity of power supply and recording all the parameters in the log sheet.
- (j) The incoming voltage at the bulk receiving point shall be constantly watched and recorded. Any fluctuations, if not within permissible limits will immediately be informed to Engineer-in-Charge for taking up the matter with suppliers.

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- (k) Voltage drop within permissible limits will be regulated by the use of OFF load tap changers with the permission of Engineer-in-Charge.
- (l) In case of power failure on BESCO Side, the Service Provider shall immediately liaise with BESCO authorities to restore power supply immediately at the complex to avoid inconvenience to users.
- (m) Replacement of fuses in LT panel/HT panel in the presence of the department staff.
- (n) The running and operation will be co-coordinated as per the advice of Engineer-in-Charge.
- (o) Cleaning of street light fittings / glasses / cover etc.
- (p) Periodical inspection of equipments like transformers HT/LT panel boards 4/2 pole structures for uneven sounds and report the same to dept immediately.
- (q) Cleaning, periodical maintenance of equipments, 4/2 pole structures, earthlings as per the schedule specified in PS and maintain the records.
- (r) The LT panel shall be periodically examined for any loose connections and tighten/cleaning the terminals with CTC.
- (s) Periodical checking of earth resistance through meters and intimate to Engineer-in-Charge on the requirement.
- (t) Service Providers shall periodically inspect all LT cable installed for any damage,
- (u) The Service Provider shall provide necessary notice board about precautions to be taken by the staff.
- (v) Informing Engineer-in-Charge or his representatives every major fault and requirement to set right the fault.
- (w) The stationeries required for maintenance of records during the currency of contract.
- (x) The Service Provider shall provide necessary notice board about precautions to be taken by the staff.
- (y) Informing Engineer-in-Charge or his representatives every major fault and requirement to set right the fault. Furnishing details of spare parts well in advance for efficient functioning of installations.
- (z) All stationeries required for maintenance of records during the currency of contract.
- (aa) Service Provider shall arrange necessary instruments, testing equipments at site for routine checking and maintenance of electric and water supply installations.
- (ab) Service Provider shall provide proper uniform and safety shoes, tools, safety Mayons etc. to his work men while on duty.
- (ac) All the above tasks shall be performed by skilled persons possessing the required qualification and certificates issued by state govt authorities. Service Provider has to produce the requisite certificates to the Dept before commencement of work for approval. Delay in restoration of supply/damages caused to the eqpt due to incompetency of the work man shall be responsibility of the Service Provider and attributable to the default of the Service Provider and penalty as specified in the relevant PS clause shall be imposed on the Service Provider.

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- (ad) The operating personnel shall have thorough knowledge of precautions during emergency cases and also be conversant with state electricity rules/regulations.
- (ae) In the event of electric supply failures or dislocation or absent of operating staff from duty for more than ½ hours (30 minutes) due to negligence or absence of operating staff or improper operation, the Service Provider shall liable to pay compensation at twice the cost of maintenance and operation calculated at Sch 'A' rates worked out proportionally to installation of failure/dislocation. The decision of the Accepting Officer regarding the cost of maintenance as worked out from Sch 'A' shall be final and binding.
- 2.2 (a) The vacuum circuit breaker shall be duly checked for its proper functioning of operation to ensure the continuity of power supply to premises and recording all the parameters in the log sheet.
- (b) The LT panel shall be periodically examined for any loose connections and tighten/cleaning the terminals with CTC.
3. BLANK
4. Furnishing details of spare parts well in advance for efficient functioning of installations.
5. Periodical checking of earth resistance through meters and intimate to Engineer-in-Charge on the requirement.
6. Replacement of materials of rectification HT/LT system except VCB generating.
7. Contractors shall periodically inspect all LT cable installed for any damage and rectify the same if required by providing materials from his own sources.
8. BLANK
9. The contractor shall ensure not to cause any damage by the personnel employed for operation of the installations etc., while operating them. In case any damage occurs due to the fault of the operating staff, the same shall be made good by the contractor at his own expenses. The decision of Garrison Engineer in this regard as to whether the damage/breakage etc is due to the fault of the operating staff or due to any other reasons shall be final and binding and no claim shall be entertained on this account. Occurrence of any such damage/breakage to installations during the currency of contract will be immediately reported to the Engineer-in-charge who will report the matter to Garrison Engineer for his decision. The rate quoted in the relevant Sch 'A' items shall include for such contingencies also. The damage shall be made good by the contractor by employing additional personal in any number of shifts. Nothing extra shall be admissible on this account
10. Any repair or rectification work to be carried out not due to the fault of operation staff as stated above, the same shall deemed to be out of scope of the contract. If any fault/breakages and electrical failure are as observed by the operation staff the same shall be immediately reported to Engineer-in-Charge for necessary action and carry out rectifications as orders by him.
11. **DOCUMENTS TO BE MAINTAINED IN SUB STATIONS**
- 11.1 Following documents shall be maintained in the sub stations :-

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- (a) Log book for noting hourly readings of various sub stations.
- (b) Register for instructions for Engineer-in-Charge.
- (c) Register for earth resistance details.
- (d) Log book for pump set and generating set.
- (e) Log book for HT KEB meter reading shown Ampere meter, KWH power metre etc.,
- (f) Complaint registers.
- (g) Breakdown registers.

12. DOCUMENTS TO BE MAINTAINED IN SERVICE CENTRE.

12.1 Following documents shall be maintained in each service centre :-

Complaint book i.e., machine numbered complaint book procured by the contractor shall be issued by the department duly certified for use in the service centre.

(i) The relevant columns/details are filled in the complaint slip and on completion of the job the users signature is obtained and the slip is pasted back along with counter foil of the slip.

(ii) The stores issued and incorporated in the work are entered against the appropriate item and the slip got signed by the JE (E/M) -in-charge of the area.

12.2 The relevant columns in the register shall be filled by duty personnel and linked to the complaint slip and signed by the JE (E/M) in-charge of the area.

13. GENERAL REQUIREMENTS TO BE ADHERED TO BY THE CONTRACTOR

13.1 To ensure that whole premises of installations are kept clean and tidy, area shall be cleaned on all days.

13.2 To ensure that high level of satisfaction is achieved and maintained throughout the currency of the contract with regard to maintenance and operation of installations and manning of service centre and attending day to day complaints of various users.

13.3 To keep all details required for maintenance of documents as referred above.

13.4 All relays provided in the protective equipments required to be jointly checked for their functioning and accuracy. If needed, these relay be set as per instruction of Engineer-in-Charge depending upon conditions of the load.

13.5 The incoming voltage at the bulk receiving point shall be constantly watched and recorded. Any fluctuations, if not within permissible limits will immediately be informed to Engineer-in-Charge for taking up the matter with suppliers.

13.6 Voltage drop within permissible limits will be regulated by the use of OFF load tap changers with the permission of Engineer-in-Charge.

13.7 Check all the street/perimeter/gate/garden lights periodically at least once in fortnight and ensure that all the lights are working.

14. DUTIES OF OPERATING PERSONNEL

14.1 Maintaining daily log sheets in register and hourly reading of various meters entered in log sheets.

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- 14.2 Switch Off/On feeders as per instructions of Engineer-in-Charge.
- 14.3 Keep the premises, panel board etc clean and tidy.
- 14.4 Replacement of fuses in LT panel/HT panel in the presence of the department staff.
15. **MANPOWER REQUIREMENTS.**
- 15.1 The contractor is advised to visit all the installations covered under this contract and acquaint himself with the requirements and make his own assessment of the manpower requirement. Manpower which he considers inescapable shall be catered for regular employment or as reserve as deemed necessary.
- 15.2 The skilled personnel employed in substation and in electrical installation should have adequate knowledge in the trade in addition to elementary knowledge of first aid and treatment for electric shock.
- 15.3 Checking for lapse connection and rectify.
16. **GENERAL**
- 16.1 Local fire orders as approved by the Garrison Engineer will be strictly followed and all fire points will be maintained properly. Requisite stores for replacement of fire extinguishers will be issued by the department. No temporary or loose connections will be allowed in any of the installations as a precaution against fire.
- 16.2 Contractor shall furnish details of operating staff employed by him to commensurate to contract provisions and obtain necessary passes for staff entry and exit to restricted area with photos of personnel in consultation with the Engineer-in-Charge.
- 16.3 The Accepting Officer may reject persons employed by the contractor if he is not satisfied with performance of duty or without assigning any reasons and the contractor shall not be reimbursed on this account. No claim on this account shall be entertained.
- 16.4 The personnel employed by contractor shall limit their movement for the particular complaint and shall not trespass to the surrounding buildings(s) for any reasons. He shall not be under the influence of alcoholic drinks during duty. He should be polite in behavior while dealing with/attending to users complaints.
- 16.5 In case of person/persons are absent on any days and no substitute is provided, amount for the number of days so absent shall be deducted from running account receipt payment at proportional rate based on the rate quoted for the entire contract period.
- 16.6 The contractor shall reimburse the cost as decided by Accepting Officer of the contract due to the damages occurred to the existing fittings/fitments due to negligence of persons employed by him.
- 16.7 All tools and plants required for maintenance work will be supplied by contractor to labourers.
- 16.8 Contractors workmen shall not grant law and order problems while dealing with users in attending to their complaints.
- 16.9 Contractor's workman shall carry badges/name tags to facilitate easy recognition of their name and Identity by users.

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16.10 Contractor's workmen shall possess power identity cards issued by the user units. The contractor shall approach Engineer-in-Charge who will assist them in obtaining the Identity cards from users.

17. STATIONERIES

17.1 All the stationeries required during the currency of the contract including Registers / Complaint slips / Log sheets / meter reading reports are also covered under the scope of work. The item rate quoted shall be deemed to include the cost of stationeries also.

18. THE EDUCATIONAL REQUIREMENTS

18.1 The electrician shall be qualified, holder of certificate from Industrial Training Institute of any state in Electrical Engineering and should have sufficient experience. The contractor shall produce original ITI certificate including certificates of experience to Engineer-in-Charge. The above certificate shall be produced on demand to the Accepting Officer for verification. The Accepting Officer may reject any person employed by the contractor for operation of substation if he is not satisfied with performance of duty without assigning any reasons and the contractor shall not be reimbursed or paid extra on this account.

19. ACCIDENTS ETC CAUSED TO THE PERSONS EMPLOYED BY THE CONTRACTOR

19.1 While working in the defence installations, if any of the persons employed by the contractor meets with an accident causing/minor/grave/fatal injuries, etc no workmen compensations will be provided by the department. First aid treatment facility available at the installations will be provided by the department as one time measure. It is the responsibility of the contractor to pay any compensation due to the individual. Insurance cover for the workers shall be provided by the contractor. Replenishing the first aid requirements during the currency of the contract is the responsibility of the Contractor.

20. THEFT/DAMAGE TO INSTALLATIONS

20.1 In case of any theft, damage to installations/defence property, due to negligence, intentions on the part of the individuals employed by the contractor, a board of officers appointed by the Accepting Officer to investigate the matter and pin point the responsibility. If the board of officers identify the persons employed by the contractor, he (the contractor) is liable to pay such compensation as decided by the Accepting Officer. The decision of the Accepting Officer in this regard shall be final and contractor shall have no claim on this account.

21. STATIONERY AND UNIFORM

21.1 Stationery for log sheets and log books for each lifts records and uniform for operating personal shall be provided by the contractor as directed by Engineer-in-Charge.

22. INVENTORY

22.1 Inventory of all accessories/equipment and handing/taking over be signed by Engineer-in-Charge/ Contractor and recorded before commencement of work/completing of work.

23. CREDENTIALS OF WORKMEN EMPLOYED AND SAFETY PRACTICES:-

23.1 The contractor shall employ skilled persons competent to work on live HT and LT systems. The workmen employed shall possess valid certificate issued by state electricity authorities. **As the job involves working on live/semi live systems during breakdown/shut down and periodic**

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maintenances, the contractor or his site engineer should possess necessary license issued by local state electric authorities. Necessary documents to this effect are to be produced by the contractor on demand by the department failing which the contract shall be cancelled and losses to this effect shall be borne by the contractor. Contractor has to arrange at site safety belts, earth discharge rods, hand gloves (tested for 15 KV) artificial respiratory system and ensure the usage of those by workmen. First aid box and electric shock treatment chart are to be displayed by the contractor in all E/M installations and proper training on usage to be imparted to the workmen by the contractor.

24. PREVENTIVE MAINTENANCE & CONSUMABLES –

24.1 The Contractor apart from the deployment of manpower shall arrange necessary consumables like insulation tapes etc., fuse wire, petroleum jelly, distilled water, grease, gland packing, bolts, nuts & washers etc for periodic maintenance of E/M equipments, pump sets, batteries etc and cost of the same is deemed to be rate quoted for item **1 to 3 of Sch 'A'**. Contractor shall assess the quantities of consumables required based on number of equipments to be maintained and its periodicity. Adequate quantity of consumables shall be made available at site for effective preventive maintenance. If contractor fails to perform the periodical maintenance due to lack of materials or manpower an amount of **Rs 500/-** per activity per month will be recovered from the contractor.

25. PREVENTIVE AND BREAKDOWN MAINTENANCE :-

25.1 The contractor shall strictly adhere to the maintenance schedule of all equipments. The quality of work shall be of high standards and time bound and upto the satisfaction of Engineer in charge. Periodic inspections of earthings of all equipments, watering, ensure tightening of contact surfaces, ensure safe earth resistance. The metering and indications of all HT and LT panels shall be operative on all times and ensure hourly recording. Defective meters, indication lamps selector switches shall be replaced promptly and items are either be issued by MES or will be measured under respective item of Sch 'A'.

26. MAINTENANCE OF PANELS / FEEDER PILLAR BOX :-

26.1 Maintenance of LT panels, feeder pillar boxes, distribution boards located outside the substation i.e., located in OTM (applicable for providing services for internal electrification of OTM. The contractor shall ensure prompt maintenance of these equipments; ensure the enclosure/doors are in closed condition, to avoid ingress of moisture, entry of insects etc and accidental contact of human beings. The cable and bus bar connection are to be checked periodically and tighten the connections. The individual current loading on each phase to be measured at regular intervals for any unequal loading and load balancing to be done as per the directions of the department. The electrician on duty apart from attending to the complaints shall inspect and ensure healthy connections at sockets. Any inappropriate connections noticed be brought to the notice of the department to avoid any electrical short circuit/accidents.

27. ROLE OF SERVICE PROVIDER FOR ATTENDING TO DAY TO DAY COMPLAINTS :-

27.1 A complaint cell has been established. The complaint cell to be manned by outsourcing tradesmen 24x7 complaints will be originated by manual/phone/IVRS. Normal complaints will be attended in day shift i.e, between 0900am to 0500pm, except emergency E/M complaints shall be attended round the clock. One electrician and helper will be deployed in beyond day shift. On lodging of complaints by user, the technician deployed by contractor shall generate complaint slip with docket number for future reference. Proforma of complaint slip shall be given to the contractor before commencement of contract. It should also indicate the time frame for repairs, and stores required. The stores required for attending to the complaint shall either be issued by Department or contractor shall supply these items for which payment will be made under

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respective schedule. The daily progress report on complaints shall be generated by rep of contractor and accessible to JE/AGE and GE. Delay in attending to complaints occurred due to inadequate/in competent man power shall be noted and penalty amount will be deducted as stipulated. If certain complaints are such that it cannot be classified under day to day petty repair, the same shall be reported the department immediately. The contractor along with his team shall ensure speed, quality and courtesy while attending to the complaints.

28. BLANK.

29. **ADHERENCE TO STATUTORY LABOUR LAW :-**

29.1 The provision of statutory laws relating to minimum wages, EPF, ESI payments shall be strictly adhered to by the contractor. If contractor fails to meet the above obligations, the contract will be cancelled and liable for the losses. The contractor or his supervisor shall report to the Engineer in Charge daily and maintain attendance register of all tradesmen employed.

30.0 **ELECTRIFICATION**

30.1 The work included in this schedule comprises of electrification complete including testing as specified in BOQ The layout of conductors/cable route shall be as directed by the Engineer-in-Charge.

30.2 **GENERAL**

(a) This installation shall strictly comply with the provisions contained in the latest edition of the Indian Electricity Rules and amended IS-732-1963. Code of practice for Electrical wiring and fittings in buildings as applicable to these works except where such regulation and rule are modified by these specifications.

(b) All electrical work shall be executed properly by skilled licensed electricians under the supervision of suitably qualified electrical supervisors. The contractor on demand by Engineer-in-Charge shall produce such evidence of qualification of his workmen, supervisors(s) either at the time of commencement of the work or at any time thereafter during the contract period.

(c) The position of various electrical fittings and fixtures shall be as directed by the Engineer-in-Charge at the time of execution.

(d) The run of steel conduits shall be marked on the walls and soffits of roof floors slabs for the wiring. Approval of the Engineer-in-Charge shall be obtained in writing before starting the works.

(e) Looping back system of wiring shall invariably be used throughout the installation.

(f) All electrical fittings and wirings shall be clear of door, windows and other openings.

(g) The main switches and controls should have the voltage of supply clearly painted on them.

(h) The phase indication (RYB) should be provided at the main incoming switches and controls.

(j) The name of functions of each distribution board shall be clearly and neatly painted on the distribution boards. Colour code system for internal electrification of conduit wiring shall be followed as per IS for phase, neutral and earthing. For phase RYB, cable colour shall be Red, Yellow and Blue respectively. For neutral and earthing, cable shall be of Black and Green colour respectively

(k) Safety procedure and practices, fire safety shall be all as specified as described in clause No. 19.2.7 and 19.2.8 of MES schedule SSR Part I of 2009.

30.3 **MATERIALS AND SAMPLE BOARD**

SPECIAL CONDITIONS (CONTD...)

- 30.3.1 All materials unless otherwise specified shall possess ISI mark or conform to relevant IS specifications or to BSS if ISS is not available. Approval of GE referred to in clause 19.2.1 and 19.2.2 of MES Schedule shall be in writing. Approval samples shall be labeled as such and signed both by the contractor and the Engineer-in-Charge. They shall remain in the custody of Engineer-in-Charge, till final completion of work.
- 30.3.2 The contractor is deemed to have included in rates, cost of making holes/chases where required through masonry or concrete work for taking in cables/conduits and conductors etc and making good the same to match with existing work.
- 30.4 **TYPE OF ELECTRIC SUPPLY**
- 30.4.1 Type of electric supply will be AC-415 volts, 3 phase and 240 volts single phase at 50 cycle.
- 30.5 **SCREWS, NAILS ETC**
- 30.5.1 All screws, nails used in the electrical works shall be of brass, unless otherwise specified. Laminated sheet cover for pressed steel boxes shall be fixed with cadmium plated iron screws.
- 31.0 **WIRING**
- 31.1 **CABLES**
- 31.1.1 All cables (except flexible cables) to be used in the point wiring/sub main wiring shall be indigenous make conforming to IS -1396 for PVC unsheathed and IS-1753 for aluminum conductor and IS-694 for FRPVC insulated cable suitable for 1100V and bearing necessary ISI Certification mark. The contractor shall also ensure this by Keeping intact the manufacturer's original seal on the cable drum.
- 31.2 **CONDUIT AND CONDUIT FITTINGS**
- 31.2.1 Conduit and fittings shall conform to the various standards as specified in clause 19.29 of MES Schedule Part-I. The minimum external diameter of conduit shall be suitable to the number of run of cables all as mentioned in clause 19.125 of MES Schedule Part-I
- 31.2.2 The run of wire shall be marked on the wall and soffit of roof and floor slab for wiring
- 31.3 **SWITCH, SWITCH SOCKET ETC**
- 31.3.1 Switch socket outlets etc, shall be indigenous make and bear ISI mark. The fittings shall be approved by the GE before incorporation in the work.
- 31.4 **LIGHT FITTINGS**
- 31.4.1 Light fittings shall be of approved make with ISI mark and shall conform to the description given in Schedule 'A'. The rate quoted shall be deemed to include for fixing the fittings and connecting up complete with necessary connectors, cables etc, all as directed by Engineer-in-Charge. The make shall be any one of the make as specified here-in-after. The make shall be got approved from GE.
- 31.4.2 Light fittings shall be connected with twin core copper flexible cable 23/0.0076 of make finolex or equivalent as approved by the accepting officer. The round block and adaptor shall be of PVC suitable for FTL fittings of make as specified here in after.
- 31.4.3 Particular attention is drawn to the neatness in appearance which is to be achieved by judicious location of light fittings, switches socket outlets and main controls etc. Due regard shall be given to doors, windows, opening etc. infixing the run of cables, position of fittings, control switches etc. The location of fittings etc. shall be marked in advance on walls etc. as approved by GE.

SPECIAL CONDITIONS (CONTD...)**31.5 CEILING ROSE**

31.5.1 Ceiling rose shall comply with IS-371-1979. It shall be of two or Three terminals and of out side diameter shall be not less than 63 x 50 mm. It shall be fixed all as specified in SSR Part I.

31.6 MINIATURE CIRCUIT BREAKERS

31.6.1 The miniature circuit breakers shall have tungsten contacts and shall have quick break free mechanism. The break shall be provided with both thermal overload and magnetic short circuit tripping devices. The trip free mechanism shall ensure that contact cannot be held closed against fault and the thermal element shall prevent continuous rapid reclosing of a circuit when a fault over load persists. The body of the breaker shall be made with heat resisting mouldings. The breaker shall be flush mounted and conforming to IS-8828. The voltage shall be 415 volts AC, nominal rating current shall be as specified in schedule A and breaking capacity shall be 10KA at 0.75 power factor.

31.7 MOULDED CASE CIRCUIT BREAKER (MCCBs)

31.7.1 Moulded case circuit breaker shall be suitable for operational voltage of 415 V, AC 50 HZ, 3 phase 4 wire system for a rated current and ultimate breaking capacity as specified in Schedule 'A' and conform to IS 13947 (Part 3, 1993) and IEC – 60947 (Part 2).

31.7.2 MCCBs shall be of compact and elegant design suitable for reversible load and line terminations without affecting its performance. MCCBs shall be suitable for fixing flush on the panels and shall be provided with handle operating mechanism including Rotary Handle vari-depth type. The insulating case and cover of MCCBs shall be made of high resistant and lame retardant thermosetting insulating materials. The switching mechanism shall be quick make, quick break and trip free. The position of the operating knob / handle shall clearly indicate ON, OFF and TRIP position.

31.7.3 Each pole shall be provided with a pair of contacts, which shall open at a high speed over a large distance under short circuit faults. The special designed arc chutes of insulating materials shall be provided to contain the arc by providing effective arc quenching device.

31.7.4 The tripping mechanism shall be hydraulic type of Electronic release or thermal magnetic release for protection for over load and short circuit as per the details given in Clause No. 19.100.14.5 of MES Schedule Part – I. Under voltage trip, mechanical interlocks etc shall be provided as per standard practice and ISS. Under voltage trip shall be designed to operate when the control voltage drops below a tripping threshold i.e., 20% to 70% of rated voltage and shall be suitable for operation on 230 V / 415 V AC. The terminals shall be suitable for copper or aluminium terminations depending on the type of cables specified in Schedule 'A'.

32.0 CEILING ROSE

32.1 Ceiling rose shall conform to IS 371 of 1979. No of terminal plates shall be as specified in Schedule. Ceiling rose shall be surface type and provided as specified in Clause No. 19.32 of SSR Part – I.

33.0 EARTH PLUG & SOCKET

SPECIAL CONDITIONS (CONTD...)

33.1 Earth plug & socket shall be provided at locations shown in drawings and as directed by Engineer-in-Charge. These shall conform to relevant IS and procured from approved manufacturers.

34.0 LED FITTINGS

(i) The LED lights/luminaries supplied must meet the provision laid down in IS No.16101, 16102 Part I & II, 16103 Part I, 15885 Part II/ Sec 13, 16104, 16105, 16106, 16108:2012 and LM 70.

(ii) All LED light products must have replacement warranty as given by manufacturers from the date of completion of the contract.

(iii) The product will replace free of cost in the following cases:-

(a) Manufacturing defects.

(b) Failure due to mechanical and electrical impact.

(c) Drop in lumen (or lux at 1m) below 90% of claimed values of lumen (or lux at 1m) of the LED/Luminaries.

(iv) The warranty will be provided on a case to case basis and shall be extended if above clause are included in contract agreement/supply order.

(v) The firm must have all India foot print, its own R&D and should be a leading manufacturer of LED lights/luminaries.

(vi) Owing to continuous innovation and improvements in LED light fittings by manufactures the contractor shall provide latest version of LED fittings with high lumens output and system efficacy which are available in the market during execution of works.

(vii) For any change in product or change in catalogue number etc due to technological up gradation letter has to obtain from the lighting company on their letter head signed by an official of National level only.

(viii) All the LED fittings shall be identified by printing or fixing stickers duly mentioned the CA number and date of completion.

(ix) Sample approval must be obtained for any type of LED Light fittings before incorporating in works.

35. LIST OF MANUFACTURERS

35.1 The make of various items of materials are as under. The contractor shall ensure that the items of these makes only are incorporated in the work which conforms to the relevant specifications/requirement/stipulations in the contract.

35.2 Other products which are equivalent in the specification having IS certificate shall be permitted in the work if approved by GE.

SPECIAL CONDITIONS (CONTD...)

SL. NO	PRODUCT	NAME OF APPROVED MANUFACTURER'S
1	PVC cable for wiring	Finolex / Havells / Plaza / Anchor / Polycab / Standard
2	Switches, sockets, ceiling rose, bell push, buzzer, fan regulators, bells.	Anchor / Crabtree/ Legrand / Leader / Cona/ SSK
3	Modular Switches / sockets	Anchor Roma / Crabtree/ Legrand/ Havells / INDOASIAN/ Polycab
4	PVC conduits, Accessories	Anchor / Modi / Avon / Polycab / Prestfit/ Precision/ Astral
5	PVC Casing and capping & Accessories	Supreme / Modi / Polycab / Prestoplast/ Precision/ Plaza
6	MCB, MCCB, MCB DB's, Isolator	Schneider / L&T / Havells / Indoasian / Legrand / HPL / Polycab / ABB/ Siemens
7	Starter, tube rods, side holders, copper choke, electronic ballast,	Philips / Bajaj / CG / Havells / Wipro
8	Capacitors	Epcos / Tibcon / Bajaj / CG
9	Metal Clad Socket / Plug	L&T / Schneider / GE Power / Indoasian / Legrand / HPL / Standard / Havells
10	Tube light and CFL fittings	Philips / Wipro / Bajaj / CG / Havells
11	LED light fittings & lamps	BAJAJ / CROMPTON / PHILIPS / HAVELLS / WIPRO / POLYCAB
12	Fan regulators	BAJAJ / ORIENT / HAVELLS / CROMPTON / KHAITAN / ANCHOR / USHA
13	CHOKE, BALLAST, IGNITORS	PHILIPS / WIPRO / BAJAJ / CG / HAVELLS
14	PVC Hot & Cold connecting piece	PRAYAG / SHAKTI / POLYTUF / WATERTEC
15	Metal Clad Socket / Plug	L&T / Schneider / GE Power / Indoasian / Legrand / HPL / Standard / Havells

Signature of the Contractor
Date:

AGE (Contracts)
For Accepting Officer

SPECIAL CONDITIONS (CONTD...)**Appendix 'A'****(A) Checks for Transformers as per IS : 10028 (part-III)-1981 upto 500 KVA****Hourly :-**

Winding & Oil Temperature rise is reasonable
Load (amperes) & Voltage against rated figures.

Daily :-

Oil level in transformers , if low top up with dry oil.
Dehydrating breather, change the silica gel if it is pink colour.

Quarterly :-

dirt / crack on bushes, replace if cracked.
Moisture content in oil & Di-electric strength of Oil .
Oil in OLTC driving mechanism.
Ventilation in indoor transformers.

(B) Checks for HT Switch Gear and Panels :-

Carry Out visual checks at night time especially during peak loads hours periodically to check loose sparking contacts of GOD's and jumpers etc.

Check operation of Gang Operated switch and to apply mineral jelly periodically.

Check the lightening arrestors prior to monsoon and ensure no lightening arrestor is by-passed.

Check the IR Values of main HT feeder and improve the IR valves where required.

Check that proper size of fuse has been used on GOD switches as per transformer capacity.

Remove all creepers climbing on poles .

Check earthing of all panels periodically and re-do if value is less.

Signature of Contractor

AGE (Contracts)
For Accepting Officer