

MILITARY ENGINEER SERVICES**REPAIR / REPLACEMENT OF CEILING FANS / GEYSERS / EXHAUST FANS AND WALL MOUNTED FANS AT ARTY CENTRE, ASIF NAGAR AND MH MD AREA UNDER GE GOLCONDA**

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4	Tender & item rate contract for works required by measurement IAFW-1779 A (Revised 1955) [Schedule (BOQ IN EXCEL SHEET)]		
5	General conditions of contracts IAFW-2249 (1989 print) together with amendments and errata thereto		
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10	Errata/amendments to the tender documents		
11	Relevant correspondence		
12	Acceptance letter		
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13	Drawings <u>NIL</u> sheets		

SIGNATURE OF THE CONTRACTOR

EE
ACCEPTING OFFICER

DATED:

Telephone: 23513341
Email id: golcon4-mes@nic.in

REGD POST WITH ACK DUE

Garrison Engineer, Golconda,
Hyderabad-500 008

8406/ /E8

Feb 2020

**REPAIR / REPLACEMENT OF CEILING FANS / GEYSERS / EXHAUST FANS AND WALL
MOUNTED FANS AT ARTY CENTRE, ASIF NAGAR AND MH MD AREA UNDER GE
GOLCONDA**

Dear Sir,

1. Tender documents in respect of above work are uploaded on the site www.eprocuremes.gov.in. The tender is on **Single stage Two cover e tendering system**. The contents of Cover 1 & Cover II are specified in NOTICE OF TENDER.

2. Bids will be received online by **GARRISON ENGINEER GOLCONDA**

(a) Bid submission start date	07/03/2020
(b) Last date of submission	14/03/2020
(c) Date of bid opening	16/03/2020

as mentioned in the NOTICE INVITING TENDER (NIT). No tender/bid will be received in physical form and any tender/bid received in such manner will be treated as non-bonafide tender/bid.

3. Bid will be opened on due date and time fixed for opening in the presence of tenderers/bidders or their authorized representatives, who have uploaded their quotation bid and who wish to be present at the time of opening the bids.

4. Your attention is also drawn to instruction on filling and submission of tender attached herewith. You may forward your points on tender documents and/or depute your technical representative for discussion on tender/drawings and to clarify doubts, if any, on or before **05 Mar 2020**. You are requested not to write piecemeal points and forward your points duly consolidated before due date viz **05 Mar 2020**

5. Un-enlisted contractors are required to submit the scanned copies (in pdf file) of documents required as per eligibility criteria mentioned in instructions for filling the tender documents and Appendix 'A' to NIT along with EARNEST MONEY DEPOSIT (EMD) and tender fee on e-procurement portal and submit the physical documents in the office of Garrison Engineer Golconda within time limit specified in NIT. Inadequacy/deficiency of documents shall make the bid liable for rejection resulting in disqualification for opening of finance bid.

6. (a) Contractor having not executed standing security bond and standing security deposit in any MES formation shall upload scanned copy of EARNEST MONEY DEPOSIT (EMD) mentioned in Notice of Tender and shall ensure receipt of hard copy of EMD in the office of tender issuing authority before date & time fixed for this purpose. In case of failure to abide by any of these two requirements, the finance bid will not be opened.
- (b) The successful Contractor shall be required to lodge **Performance Security** for an amount equal to **5%** of the Contract Sum within 28 Days of receipt of Letter of Acceptance in the form of Bank Guarantee in the prescribed format or Government Securities or FDR or any other Government Instruments stipulated by the Accepting Officer in terms of Condition – 19 of IAFW – 2249, General Conditions of Contracts.
7. Enlisted contractors of MES shall submit the scanned copies (pdf file) of enlistment letter, tender fee and such other documents as mentioned in Appx 'A' to NIT on e-procurement portal and submit physical documents in the office of Garrison Engineer Golconda before date & time fixed for this purpose.
8. The contractor must ensure that the tender/bid on the proper form is uploaded in time as the Accepting Officer will take no cognizance of any quotations/offer received in any other electronic or physical form like email/fax/by hand /through post form tenderer/bidder even if they are received in time.
9. In view of delays due to system failure or other communication related failures, it is suggested that tender/bid be uploaded, if necessary, sufficiently in advance of the last due date and time fixed.
10. General Conditions of Contracts (IAFW-2249) (1989 Print) and errata and amendments thereto, schedule of minimum fair wages and MES SSR (Part-I and Part-II) are not enclosed with these documents. These are available for perusal in the Office of GE concerned and this office.
11. ANY TENDERER, WHICH PROPOSES ALTERATIONS TO ANY OF THE CONDITION, SPECIFICATIONS LAID DOWN IN THE TENDER DOCUMENTS OR ANY NEW CONDITION, WHATSOEVER, IS LIABLE TO BE REJECTED.

Yours faithfully,

Encls : (As above)

EE
Accepting Officer

SIGNATURE OF CONTRACTOR

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

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

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

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

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

2. PERFORMANCE SECURITY: The tenderers shall note that the successful tenderer is required to lodge **Performance Security** for an amount equal to 5% of the Contract Sum within 28 Days of receipt of Letter of Acceptance in the form of Bank Guarantee in the prescribed format or Government Securities or FDR or any other Government Instruments stipulated by the Accepting Officer in terms of Condition – 19 of IAFW – 2249, General Conditions of Contracts. The Performance Security shall be valid till expiry of Defects Liability Period as stipulated hereinafter. In case the tenderer fails to deposit the Performance Security within the stipulated period, the award of work shall be cancelled and Earnest Money deposited by him shall be forfeited. In case of MES enlisted Contractors, the amount equal to the Earnest Money stipulated in the Notice of Tender, shall be notified to the tenderer / bidder for depositing the amount through MRO. Bids of such Contractors / bidders shall not be opened till the aforesaid amount equal to the Earnest Money is deposited by him in Government Treasury. The contractor / bidder shall not be entitled for any compensation whatsoever on this account.

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

In case the tender/bid is accepted, the amount of Additional Security Deposit will be as notified by the Accepting Officer. The amount will be the difference between the "Individual Security Deposit: calculated with reference to the "TENDERED COST" and 'Standing Security Deposit' lodged. The amount is required to be lodged within **30 (thirty)** days of the receipt by the contractor of notification of acceptance of tender/bid, failing which the sum shall be recorded from the 1st RAR payment or from the Final Bill (Refer Condition 22 of GCC (IAFW-2249).

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

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

INSTRUCTIONS ON FILLING AND SUBMISSION OF TENDER (CONTD)**5. GENERAL INSTRUCTIONS FOR COMPLIANCE**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

7. CPM (CRITICAL PATH METHOD)

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

7.2 The tenderer/bidder is expected to be fully conversant with the CPM technique and employ technical staff who can use the technique in sufficient details. Sufficient books and other literature on the subject are widely available in the market which the tenderer/bidder may make use of.

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

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

8.0 GENERAL

8.1 In case of MES enlisted Contractors if all other eligibility criteria met, the financial bid shall be opened and the cost of tender shall be recovered from any amount due to the MES enlisted contractor. Further the Contractor shall be barred to tender during the period of 6 months commencing from the date of opening of financial bid.

8.2 **Incase of un-enlisted tenderer if original DD pertaining to cost of tender is not received before the tender opening then their T-bid shall be rejected and tenderer shall be barred to tender for six months commencing from date of opening of financial bid.**

8.3 **Incase of Un-enlisted Contractor and enlisted Contractor (who have not executed Standing Security Deposit) if original DD pertaining to earnest money is not received by stipulated date as explained above then the tenderer shall be rejected during opening of T-bid.**

8.4 **The tenderer should be in possession of Provident Fund code Number issued by EPFO and copy of the same shall be uploaded in Cover-I in Pdf Form/submitted before opening. If the same not found uploaded/submitted, the bid shall be disqualified in T-bid Evaluation and financial bid shall not be opened.** Employees Provident Funds and miscellaneous Provision Act-1952 is applicable to contractor for this contract. The contractor and their sub contractors shall be in possession of Provident Fund code number. All the workers deployed in the work by the contractor and sub contractor shall be enrolled as members of Provident fund and shall be given the Universal Account Number (UAN).The Contractor shall submit a certificate stating that all workers employed by him or his sub contractor in the work are registered for EPF and their due contributions have been credited into their account. This certificate duly signed by the contractor shall form Part of Running Account Receipt's and Final Bill.

8.5 The contractor shall employ only Indian nationals after verifying their antecedents and loyalty. Attention is also drawn to special Condition 3 and also condition 24 and 25 of IAFW-2249 (General Conditions of contracts)

8.6 The bidder shall submit their offer online in electronic formats, **however DD/ Banker Cheque for tender fees and EMD required to be submitted manually in the office of Garrison Engineer Golconda as done in conventional tender, before date & time of opening of opening of tender application (Ist cover) but scanned copy of DD/ banker cheque for tender fees and EMD etc must be uploaded at www.eprocuremes.gov.in along with tender documents.**

8.7 **Copy of GST registration number shall be uploaded along with the T bid. This will be one of the criteria for qualifying in T bid. Contractor who does not upload "GST Registration No shall be disqualified in the T bid evaluation and his financial bid shall not be opened.**

ELIGIBILITY CRITERIA:

Enlisted Contractors:

1. The applicant contractor shall note that DD/Banker's cheque shall be in favour of Garrison Engineer Golconda, Hyderabad. The cost of tender documents shall be non refundable in the event of tender is issued to the firm. However DD/ Banker Cheque shall be returned to the applicants whose cover No 2 is not opened. Please note that cover No 2 (Price Bid) will be opened only in respect of qualified and eligible contractors who fulfill the eligibility criteria according to their technical Bid submitted in cover No.1.
2. Application received without scanned copy of requisite amount of demand draft along with necessary documents as mentioned in para 7 above shall not be considered their financial bid.
3. Contractors not enlisted with MES will be required to upload the following necessary documents to prove the eligibility for :-
 - (i) Meeting enlistment criteria of MES with regard to having satisfactorily completed requisite value of works,annual turnover,working capital,fixed assets verification of character and antecedents of proprietor/partner/directors etc and affidavit for no recovery outstanding (Enlistment criteria ara available in all MES offices and MES website, Also refer instruction for completion of tender in tender documents)

(ii) Tenderers shall upload copy of police verification certificate (within last one year) from the police authorities of the area where the registered office is located. For proprietor/each partner/each director, valid passport duly notarized shall also be applicable in lieu of police verification.

(iii) Scanned copy of Demand Draft towards the cost of blank tender and EMD to be uploaded.

(iv) Eligibility criteria to be worked out and submitted as per formula

(A*N-B)

A- Average annual turnover for last three financial years.

N- Period of completion contracted work (in years calculated till two decimal places)

B- value of balance works in running government contracts for the above period.

(v) Document containing list of remaining work to be completed as on date of application duly signed on an affidavit on non judicial stamp paper of rupee 100/- duly notarized to be uploaded is mandatory.

(vi) Scanned copy of Demand Draft/ Bankers Cheque drawn in favour of Garrison Engineer Golconda Hyderabad payable at Hyderabad in addition to all the documents mentioned above in 7 (b)

Experience Criteria for un-enlisted contractor

Past Experience of “similar nature of works” completed in last 5 years

(a) Three works costing not less than Rs 7.5 lacs

Or

Two works costing not less than Rs. 10.00 lakhs

or

One work costing not less than Rs 20.00 lakhs

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

(b) Average annual turnover for two consecutive financial years shall not be less than Rs 25.00 lakhs.

Note : Please forward turnover certificate issued by Chartered Accountant for this.

Financial Criteria:

(a) Solvent upto Rs 10.00 lakhs OR

Financially sound for engagement upto Rs 25.00 lakhs

(b) Working Capital not less than Rs 5.00 lakhs

Note (i) Proforma of above documents is given below. Please forward above documents issued by your Bankers in Original. Above certificates shall not be older than 6 months as on 01 Sep 2014. Signatory shall endorse his rubber seal, indicate his name & bank employee number, bank address particulars like full address, telephone & fax number.

(ii) Alternatively Wealth Tax certificate can also be given, if available.

FORM OF SOLVENCY CERTIFICATE FROM A SCHEDULE BANK

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

Place : Signature of Bank Manager

Date : Name, No & Seal of Bank

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

WORKING CAPITAL CERTIFICATE

This is certified that M/s/Shri/Smt _____ having address _____ has/have been maintaining a saving bank account/current account / fixed deposit account with this branch of bank since _____ and an amount not less than Rs _____ (Rupees _____) has been available to the credit in his/her/their account Nos _____ for the last three months. The firm is enjoying overdraft/credit facility upto limit of Rs _____.

Place : Signature of Bank Manager

Date : Name, No & Seal of Bank

Fixed Assets

Limit of minimum reserves/total of movable or immovable property or fixed assets (in case of companies) (80% of minimum reserve/assets shall be in shape of immovable property) shall be Rs 25 lakhs

Note : (i) Please forward affidavits on non judicial stamp paper of Rs 100/- each duly notarized and supported by copies of present valuation certificates for both immovable and movable property separately. It should also indicate that immovable property is free from mortgages, hypothecation or any other disputes and encumbrances and clearly belongs to your firm and it should indicate that immovable property will not be sold, transferred, gifted or otherwise disposed off without prior intimation to this office.

(ii) Immovable asset value indicated should be supported by Valuation Certificate from a registered valuer and last tax paid receipt. Valuation Certificate shall be submitted for immovable property (Other than agricultural lands, plantations, forests, mines and quarries).

(iii) Movable assets like Scooter/Car etc or NSCs/fixed deposits etc should be supported by certified photocopies of updated RC books, valid current Insurance papers, NSCs/fixed deposits.

Engineering Establishment

(a) One graduate Engineer from a Government recognized institution.

(b) One diploma Engineer from Government recognized institution with minimum experience of 2 years.

NOTE :- Please forward affidavits on non judicial stamp paper of Rs 100/- duly notarized from your side having employed each engineer and from engineer side of taking your employment duly supported by attested copy of engineering degree/diploma as applicable to the individual.

(a) Constitution of firm on an affidavit on non judicial stamp paper of Rs 100/- duly notarized indicating status of firm, ie whether it is proprietorship or partnership or Limited firm.

Note :- Please enclosed notarized copy of partnership deed in case of partnership firm, and notarized Memorandum of Articles of constitution in case of Limited firm.

(b) Certified copy of Certificate of registration of firm with Registrar of Firms.

(c) Certified copy of PAN No/TIN No of proprietor/partners/firm.

(d) Certified copies of enlistment letters with various Govt. Departments/PSUs.

(e) Certified copy of general power of attorney in case any person(s) have been authorized to represent the firm including signatory of the application.

(f) Postal address and Police Station Area of proprietor/partners/Directors of the firm. Department will carry out Police Verification of Proprietor / Partners / Directors as applicable. Contractor has to pay for fees if the rules of Police Dept have the provision of the same.

(g) Indemnity Bond on non judicial stamp paper of value of Rs 100/- duly attested by Notary (On format given below)

INDEMNITY BOND

This bond of Indemnity is executed on this _____ day _____ by M/s/Shri _____ having registered office at _____ to indemnify the Government of India of the following :-

1. We undertake to pay the Government of India any damages that may be found to be recoverable on order of our contracts.
2. We undertake that in case Government is put to pay any loss or disadvantage in monetary of contract by the firm which shall indemnify the government for ach loss or disadvantage.
3. This bond of indemnity is executed by M/s _____ and have signed before me. Whatever stated above is true and correct to the best of my knowledge and belief.

Signature of Contractor

Notary

(h) Certified copy of Sales Tax Certificate/VAT.

(j) Notarised affidavit on judicial stamp paper of Rs 100/- that there are no recoveries outstanding with any organization and there are no arbitration/litigation cases involving recoveries known to b e existing on the firm at the time of submitting these details to our office.

(k) Notarised affidavit on non judicial stamp paper of Rs 100/- that there is no relationship with any Gazetted/Commissioned Officers and JEs in MES/Corps of Engineers/Ministry of Defence.

(l) Affidavit on non judicial stamp paper of Rs 100/- giving details of contracts where arbitration invoked during last five years.

Tenderers shall upload copy of police verification certificate from police authorities of the area where the registered office is located. For proprietor/each partner / each director, scanned copy of valid passport duly notarized shall also be applicable in lieu of police verification.

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

SIGNATURE OF THE CONTRACTOR

**EE
ACCEPTING OFFICER**

CA NO: GE/GOL/Token No.30 of 2019-2020

SERIAL PAGE NO: 12

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

(To be read in conjunction with General Conditions of Contracts IAFW-2249)

MILITARY ENGINEER SERVICES

REGD POST WITH ACK DUE

Telephone: 23513341
Email id: golcon4-mes@nic.in

Garrison Engineer, Golconda,
Hyderabad-500 008

8406/ /E8

Feb 2020

**ITEM RATE TENDER AND CONTRACT FOR WORKS REQUIRED IN EXECUTION OF
REPAIR / REPLACEMENT OF CEILING FANS / GEYSERS / EXHAUST FANS AND WALL
MOUNTED FANS AT ARTY CENTRE, ASIF NAGAR AND MH MD AREA UNDER GE
GOLCONDA**

1. Shri/S'Shri M/s _____ of _____ is/are hereby authorized to tender for the above work. The tender is to be uploaded in the eprocuremes.gov.in site as per critical dates.

2. Any correspondence concerning this tender shall be addressed as indicated at the top of this sheet, quoting the reference as indicated.

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

Signature of the officer issuing the
tender documents
Appointment: Garrison Engineer
Accepting Officer

CA NO: GE/GOL/Token No.30 of 2019-2020

SERIAL PAGE NO: 13

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

SCHEDULE 'A' NOTES

1. **PERIOD OF COMPLETION:** - The entire work covered under this contract shall be completed within **09 (Nine)** months from the date of handing over of site.
2. For schedule of items refer BOQ sheet in excel format. Tenderer shall carefully go through the BOQ pages of tender for quoting the rates of each item of the schedules. Contract sum shall be arrived accordingly for finding out lowest quoted tender.
3. The quantities shown in schedule (BOQ sheet) in column 3 of Sch 'A' are approximate and are inserted as a guide only. They do not constitute any guarantee of the ultimate quantities which can be ordered on the contractor. They shall not however be varied beyond the limit laid down in condition 7 of IAFW-2249 (General conditions of contract)
4. The contractor shall enter the unit rate in column 5 of BOQ. The unit rates in figure shall be entered only.
5. Total amount in column 7 is not firm but will be treated as contract sum referred to IAFW-2249. Tenderer has to visit the BOQ pages of the tender for quoting the rate of each item of the schedules.
6. Unless otherwise specifically stated in the description of the items, the unit rates quoted in column 5 shall be deemed to include for all labour and materials complete required for executing the respective items of work.
7. The unit rate quoted by the tenderer against respective items of schedule 'A' shall be deemed to include 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 to the execution of work in a workmen like manner and sound construction.
8. In case of difference of opinion between the contractor and the GE as to, whether or not certain items of work constitute "Minor construction details" which is deemed to have been included in the contractor's quoted rates, the decision of the accepting officer shall be final, conclusive and binding.
9. The description of schedule 'A' items in BOQ sheet (Excel format) are in brief. The unit rate quoted shall be deemed to include interalia the description given in particular specification read together with schedule of works.
10. The items of work covered under this contract shall be taken up for execution according to priorities given by Engineer-in-Charge.

11. Tenderers quoted rates shall include all statutory levies / duties, construction labour welfare tax including sales tax on works contracts, GST etc as applicable. It may be noted that conditional tender regarding this **WILL NOT BE CONSIDERED** and shall be liable to be rejected.
12. All the materials to incorporated in the work shall be tested as per the latest IS Code. if otherwise not specified in the tender documents. The cost of the same shall be deemed to be included in the unit rate quoted. If make's of certain item given in Sch 'A' supercede List of Makes in Particular specification.
13. Site for execution of work shall be available as soon as the work is awarded, in case it is not possible for the department to make the entire site available on the award of the contract, the tenderer will have to arrange his working programme accordingly. No claim whatsoever for not giving him the entire site on award of contract and for giving the site gradually will be admissible.
14. **The tenderer's quotation shall be deemed to include all taxes, statutory levies/ duties, such as Octroi, sales tax, Excise, Labour welfare tax, sales tax and GST on works contract, as levied by the state government payable under respective statues as applicable from time to time. Any conditions stipulated by the tenderer regarding sales tax and GST on works contracts or any other taxes/ duties will not be considered and such tender shall be liable for rejection. The contractor 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. Plz also refer the Special Condition Clause No 28 in this tender document.**
15. In case of difference of opinion between the contractor and the GE as to, whether or not certain makes of items which is deemed to have been included in the Schedule 'A' and also in List of makes or anywhere in specifications, That mentioned in Sch 'A' shall supercede overall. However, in case of user requirement or non availability, the decision of the accepting officer shall be final, conclusive and binding.
16. **DEFECTS LIABILITY PERIOD: Refer Condition – 46 of IAFW – 2249, General Conditions of Contracts. The Defects Liability Period for this work shall be Twenty Four [24] Calendar Months from the certified date of final completion of the work.**
17. **The contractor shall have to engage the following workmen/labour daily during the currency of contract daily for day to day maintenance work irrespective of manpower required for the works assigned to him under Schedule `A'(BOQ):-**
 - (a) Carpenter - 01 No.
 - (b) Plumber -01 No.
 - (d) Mason -02 Nos.
 - (e) Mazdoor(Male) - 04 Nos.

Incase of failed to engage above mentioned manpower a penalty for an amount of Rs. 500/- per day per each shall be recovered from the contractor's dues.

SIGNATURE OF THE CONTRACTOR

**EE
ACCEPTING OFFICER**

CA NO: GE/GOL/Token No.30 of 2019-2020

SERIAL PAGE NO: 15

**ELECTRONIC CLEARING SERVICE (CREDIT CLEARING) MANDATE FORM
CONTRACTOR'S OPTION TO RECEIVE PAYMENTS THROUGH CREDIT**

CLEARING MECHANISM

1. Scheme name and the periodicity of payment :
2. Contractor's Name / Name of the firm :
3. Particulars of bank account :-
 - (a) Bank Name :
 - (b) Branch Name :
 - Address :
 - Telephone :
 - (c) 9 Digit code number of the bank & branch appearing on the MIGR Cheque issued by the Bank. :
 - (d) Account type (SB account/current account or Cash Credit) without code 10/11/13. :
 - (e) Ledge No / Ledger folio No :
 - (f) Account number (as appearing on the Cheque Book). :

(In lieu of the bank certificate to be obtained as under, please attach a blank cancelled Cheque or photocopy of a Cheque or front page of your bank passbook issued by your bank for verification of the above particulars)

4. Date of effect :

I, hereby, declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold the user institution / department responsible. I have read the option invitation letter and agree to discharge the responsibility expected of me as a participant under the scheme / Tender.

DATED: (SIGNATURE OF THE CONTRACTOR)

Certified that the particulars furnished above are correct as per our records.

Bankers Stamp (Signature of the authorized official from the bank)

CA NO: GE/GOL/TOKEN NO.30 OF 2019-2020

Serial Page No.

SCHEDULE OF CREDIT

Notes:

- 1 The credit for the materials obtained from dismantling/demolition as detailed below. The credit assessed by the department is only rough indication and the contractor shall have no claim what so ever against

the Government if the actual cost of the salvaged materials turnout to be different from the amount assessed by the department.

- 2 The quantities inserted in the column 4 are provisional and the tenderer will have no claim if the quantities obtained turnout to be different on execution. The rate of credit shown in column 5 is firm.
- 3 The credit amount will be carried over to Summary to arrive at the contract sum.
- 4 The materials listed in this Schedule 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 contractor 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 of the materials.

SI No	Description of materials	Unit	Approx No. of Units	Unit Rate Assessed Rs.	Amount Rs.
1	Old unserviceable Fan capacitor of any size and capacity	Each	3570	0.50	1785.00
2	Old unserviceable bearing/bushing of any size	Each	4300	1.00	4300.00
3	Old unserviceable steel shaft of any size	Each	600	2.00	1200.00
4	Old unserviceable copper winding	Job	3630	60.00	217800.00
5	Old unserviceable Chromo plated pipe of any size	Each	90	5.00	450.00
6	Old unserviceable Nonreturn valve/pressure release valve of any size	Each	60	6.00	360.00
7	Old unserviceable Thermostat of any size	Each	50	3.00	150.00
8	Old unserviceable Heating element of any size	Each	140	8.00	1120.00
9	Old unserviceable apparatus plate assembly of any size	Each	8	8.00	64.00
10	Old unserviceable GI tubing 15/20mm size	RM	48	5.00	240.00
11	Old unserviceable CP bib cock	Each	15	1.00	15.00
12	Old unserviceable Fan blades	Per set of Three	120	1.00	120.00
13	Old unserviceable down rod any type any size	Each	110	2.00	220.00
14	Old Unserviceable fan hook	Each	160	12.00	1920.00
Total Rs					229750.00

Signature of Contractor

**EE
Accepting Officer**

CA NO: GE/GOL/Token No.30 of 2019-2020

SERIAL PAGE NO:

SUMMARY

Total Amount of Schedule 'A' on BOQ = Rs. _____

DEDUCT

Total Amount of Schedule of Credit = Minus (-) Rs. **229750.00**

TOTAL CONTRACT SUM

= _____
Rs. _____

(Rupees _____
_____ only)

NOTE: Bidders/Tenderers are required to upload this summary dually filled manually. In case summary is not uploaded by the Bidders/Tenderer, the contract sum shall be arrived after deduction of Total amount of Schedule of credit from the quoted amount in BOQ.

SIGNATURE OF THE CONTRACTOR

**EE
ACCEPTING OFFICER**

CA NO: GE/GOL/Token No.30 of 2019-2020

SERIAL PAGE NO:

SCHEDULE 'B'

ISSUE OF MATERIALS TO THE CONTRACTOR

Sl No.	Particulars	Rates at which materials will be issued to the contractor		Place of issue by name	Remark
		Unit	Rate in Rs		
1	2	3	4	5	6
_____NIL_____					

SCHEDULE 'C'

ISSUE OF TOOLS AND PLANTS (OTHER THAN TRANSPORT) WHICH WILL BE HIRED TO THE CONTRACTOR
(SEE CONDITION 15, 34 AND 35 OF IAFW-2249)

Sl No	Quantity	Particulars	Details of MES crew supplied	Hire charges per unit per working day (Rs)	Stand by charges per unit per off day (Rs)	Place of issue by name	Remarks
1	2	3	4	5	6	7	8
_____NIL_____							

SCHEDULE 'D'

TRANSPORT TO BE HIRED TO THE CONTRACTOR
(SEE CONDITION 16 & 35 OF IAFW-2249)

Serial No	Quantity	Particulars	Rates per unit per working day	Place of issue by name	Remarks
1	2	3	4	5	6
_____NIL_____					

SIGNATURE OF THE CONTRACTOR

**EE(CONTRACTS)
ACCEPTING OFFICER**

CA NO: GE/GOL/Token No.30 of 2019-2020

SERIAL PAGE NO:

(In lieu of IAFW-1779A Rev 1955)

TENDER

To

The President of India

Having examined and perused the following documents:-

1. Specifications signed by AE (QS&C)/Garrison Engineer
2. Drawings as detailed in the specifications.
3. Schedule 'A' [BOQ IN EXCEL SHEET], 'B', 'C' and 'D' attached hereto.
4. MES standard schedule of rates 2009 (Part I) (Specifications) amended Nos 1 to 3 and 2010 (Part II) (rates) here-in-after and in IAFW -2249 referred to as the 'MES SCHEDULE' with amendments 1 to 59 for Part II as applicable to the said schedule.
5. General conditions of Contracts IAFW-2249 (1989 Print) together with amendment No 1 to 48 and errata No 1 to 20 for English version only.
6. WATER CONDITIONS 31 OF IAFW-2249 (GENERAL CONDITIONS OF CONTRACTS):-
Water will be supplied by the MES on payment @ Rs.3.75 per every thousand rupees (1000/-) worth of work done at contracts rates.

SHOULD THIS TENDER BE ACCEPTED I/WE AGREE

*(a) That the sum of **Rs 39,000/- (RUPEES THIRTY NINE THOUSAND ONLY)** forwarded as Earnest Money shall either be retained as a part of Security Deposit or be refunded by the Government on receipt of an appropriate amount of Security Deposit, all as per condition 22 of IAFW-2249.

(b) To execute all the works referred to in the said documents upon the terms and conditions contained or referred to therein at the item rates contained in the afore said Schedule 'A.' OR, at such other rates as may be fixed under the provisions of condition 62 and to carry out such deviations as may be ordered vide condition 7 of IAFW-2249 up to a maximum of **10% (TEN)** percent and further agree to refer all disputes, as required by the condition 70 to the sole arbitration of a serving officer having degree in Engineering or equivalent or having passed final/direct final examination of Sub-Division II of Institution of Surveyors (India) recognised by the Govt. of India to be appointed by the Chief Engineer zone, Chennai or in his absence the officer officiating as Chief Engineer zone, Chennai or whose decision shall be final, conclusive and bindings.

* To be deleted where not applicable.

Contd...

CA NO: GE/GOL/Token No.30 of 2019-2020

SERIAL PAGE NO.

(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 : _____

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 contractor and **Shri GV Singh, EE**. The said officer is/are hereby authorized to sign and initial on my behalf the documents forming part of this contract.

The above tender was accepted by me on behalf of the President of India, at the item rates contained in Schedule `A` on this _____ day of _____ 2020.

(GV Singh)
EE
Garrison Engineer
(For and on behalf of the President of India)

Dated this ____ day of _____ 2020

Appointment: Garrison Engineer Golconda
Langer House Hyderabad - 500008

CA NO: GE/GOL/Token No.30 of 2019-2020

SERIAL PAGE NO:

GENERAL CONDITIONS OF CONTRACTS (IAFW-2249: PRINT - 1989)

FOR

*** LUMPSUM CONTRACTS (IAFW-2159)**

OR

*** MEASUREMENT CONTRACTS (IAFW-1779 AND 1779A)
AS APPLICABLE**

A copy of the MES GENERAL CONDITIONS OF CONTRACTS (IAFW-2249: Print-1989) with Errata 1 to 20 and Amendments Nos. 1 to 40 has been supplied to me/us and has been perused by me/us and is in my/our possession. I/We have read and understood the Provisions contained in the aforesaid GENERAL CONDITIONS OF CONTRACTS before submission of this tender and I/We agree that I/We shall abide by the terms and conditions thereof, as modified, if any, elsewhere in these tender documents.

It is hereby further agreed and declared by me/us, that the MES General Conditions of Contracts (IAFW-2249 Print - 1989) including Condition 70 & 71 thereof pertaining to settlement of disputes by Arbitration and Conciliation Act-1996 containing 34 pages (Serial page No. ____ to ____ with errata 1 to 20 and Amendment No 1 to 40 (Serial page No. ____ to ____)) form part of these tender documents.

NOTES

In case of difference in interpretation due to wordings of English and Hindi versions to the General Conditions of Conditions (IAFW-2249) (1989 Print), the English version will prevail.

**EE
ACCEPTING OFFICER**

SIGNATURE OF THE CONTRACTOR

IN LIEU OF SCHEDULE OF MINIMUM FAIR WAGES

1. It is hereby agreed that the "SCHEDULE OF MINIMUM FAIR WAGES" (SMFW) as published vide Government of India dated 20 May 2009 which specifies minimum rates of wages for various categories of workmen as applicable on the last due date receipt of this tender shall form part of the tender documents and in my/our* possession. I/We* have read and understood the provisions contained in aforesaid Schedule of Minimum Wages before submission of tender.

2. My/our* signature(s) here under amounts to my/our* having signed the aforesaid "SCHEDULE OF MINIMUM FAIR WAGES" forming part of this tender.

*Delete whichever is not applicable.

**EE
ACCEPTING OFFICER**

SIGNATURE OF THE CONTRACTOR

SPECIAL CONDITIONS**1 GENERAL**

- 1.1 The following Special Conditions shall be read in conjunction with the General Conditions of Contracts, IAFW-2249 1989 Print including errata/amendments thereto. If any provision in these Special Conditions is at variance with the provisions in the aforesaid documents, the provisions in these special conditions shall be deemed to take precedence there over.

2 MES SCHEDULE

- 2.1 Contractor's special attention is invited to the fact that this tender is based on MES Schedule mentioned on tender page including errata/amendments thereto 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.

4 SECURITY OF CLASSIFIED DOCUMENTS (REFER CONDITIONS 2A AND 3 OF IAFW-2249)

- 4.1 Contractor's special attention is drawn to condition 2A and 3 of General Conditions of Contracts (IAFW-2249) and also to the Indian Official Secret Act – 1923 (Particularly Section 5). The contractor is bound by the provisions of the Act. The contractor shall not communicate any classified information regarding works either to sub-contractors(s) or other without prior approval of Executive in-charge. The contractor 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 contractor 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 SECRETS ACT

- 4.2.1 The contractor shall be bound by the Official Secrets Act and particularly section 5 thereof.

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

- 5.1 The contractor 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 contractor is required to contract the Garrison Engineer who will give reasonable facilities. The contractor shall be deemed to have visited the site before submitting the tender whether he does it or not.

6 MATERIALS AND SAMPLES (REFER CONDITION 10 OF IAFW-2249)

- 6.1 The tenderer is advised to inspect samples of the local building materials maintained by the Garrison Engineer before submitting his tenders. He will be deemed to have full knowledge of these materials whether he inspects them or not the materials to be provided by the contractor shall confirm to/shall be superior to the standard of samples displayed in the office of Garrison Engineer in the matter of quality unless otherwise specified.

Contd.

SPECIAL CONDITIONS (CONTD)

- 6.2 Items conforming to Indian Standard Specifications shall be accepted only when ISI marked materials are not manufactured. Materials 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 contractor shall produce necessary test certificates as required by the GE.
- 6.3 The contractor shall produce samples of materials for incorporating 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 contractor. The materials, articles etc, as approved shall be labeled as such and shall be signed by GE and contractor and kept and displayed at the site of works.

7 PROPRIETARY BRAND MATERIALS

- 7.1 Original vouchers/invoices for the following proprietary materials as and if required for execution of work shall be produced by the contractor before claiming RAR payments.
- (i) Cement
 - (ii) Steel
 - (iii) 2n class HW
 - (iv) Factory made paneled door shutters/Skeliton shutters/Flush shutters
 - (v) Non-skid/glazed ceramic tiles
 - (vi) Synthetic enamel Paints
 - (vii) OBD
 - (viii) Cement base paint
 - (ix) APP modified membrane
 - (x) Conduits, conduit fittings and accessories
 - (xi) Bitumen for water proofing treatment
 - (xii) Water proofing compound
 - (xiii) PVC doors
 - (xiv) CI/GI PVC pipes and fittings
 - (xv) All cable conductors and the like
 - (xvi) All water supply items
 - (xvii) All electrical utility fittings
 - (xviii) Any other proprietary articles not mentioned above but catered in the tender documents.
- 7.2 The voucher/invoice shall be from the manufacturers and/or from their authorized agents for full quantity of respective items required for the work under this contract. These vouchers shall be endorsed, dated and initialed by the Engineer-in-Charge giving the contract number and name of work and a certified true copy of each such voucher signed by the Engineer-in-Charge and the contractor shall be kept on MES record.
- 7.3 The quantity brought to site shall be recorded in measurement books and signed by contractor and Engineer-in-Charge as a check to ensure that the required quantity have been brought to site for incorporation in the work.
- 7.4 The contractor shall permit free access are brought to site in original sealed containers or packings bearing manufacturers making.
8. **CO-OPERATION WITH OTHER AGENCIES**
- 8.1 The contractor shall permit free access and generally afford reasonable facilities to other agencies of specialist nature or department workmen engaged by the Govt. to carryout their part of the work, if any, under separate arrangements.

SPECIAL CONDITIONS (CONTD)

- 8.2 The contractor's price shall be deemed to cater for all the above contingencies and nothing extra shall be admissible on this account.
9. **DAMAGE TO EXISTING STRUCTURE BUILDING**
- 9.1 Any damage done to the existing structure during the execution of work shall be made good by the contractor at his own 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.
10. **CONTRACTOR LABOUR**
- 10.1 The contractor 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 contractor can undertake or execute his work without a licence issued by a licencing officer.
11. **MINIMUM WAGES PAYABLE**
- 11.1 Refer Condition 58 of IAFW-2249. The schedule of minimum Fair Wages is not enclosed to these tender documents. The contractor shall not pay wages lower than minimum wages for labour as fixed by the Govt. of India/State Govt./Union Territory under minimum wages Act or Contract labour (Abolition and Regulation Act), whichever is higher.
- 11.2 The fair wage referred to in condition 58 of IAFW-2249 shall be deemed to be the same as the minimum wages payable as referred to above.
- 11.3 The contractor shall have no claim whatsoever, if on account of local factors 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.
12. **CONTRACTOR'S AGENT, REPRESENTATIVES AND WORKMEN**
- 12.1 The contractor shall employ only Indian Nationals as his representatives, servants, workmen and verify 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 works and if for reasons of technical collaboration or other consideration, the employment of any foreign national is unavoidable the contractor shall furnish full particulars to this effect to the Accepting Officer at the time of submission of tender. The GE shall have full powers and without giving any reasons to order the contractor to immediately cease the employ in connection with this contract any Representative, Agent, Servant and Workmen or employee whose continued employment, in this union is undesirable. The contractor shall not be allowed any compensation in this account.
13. **ELECTRICITY SUPPLY**
- 13.1 Electricity will not be supplied by MES.
14. **RECORD OF CONSUMPTION OF CEMENT**
- 14.1 For the purpose of keeping a record of cement, consumed in work, the contractor shall maintain a pucca/bound register in the form approved by the Engineer-in-Charge, quantity used in works and balance in hand.
- 14.2 This Register shall be signed daily by the Contractor/Contractor's representatives and the Engineer-in-Charge in token or their verification of its correctness.

- 14.3 The register shall be kept as site in the safe custody of the contractor during progress of the work and shall on demand produce the same for verification of Inspecting Officer. On completion of the work the register shall be handed over to the Engineer-in-Charge for record with MES.
15. **GUARANTEE BOND/FIXED DEPOSIT RECEIPT FOR ADDITIONAL SECURITY DEPOSIT/RETENTION MONEY**
- 15.1 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. Nationalized Banks or Scheduled Banks for Additional Security Deposit/Retention Money. The Bank Guarantee shall be on the form prescribed which is available in the office of the Garrison Engineer, Golconda for tenderers perusal. The period of Bond shall be the period of completion/extended date of completion or till all the liabilities under the bond are discharged. The period of FDR shall be not less than time of completion plus six months.
16. **RELEASE OF ADDITIONAL SECURITY DEPOSIT (REFER CONDITION 22 AND 68 OF IAFW -2249)**
- 16.1 The contractor in case he has to deposit Additional Security for the contract is advised to deposit the additional security in two equal parts so as to facilities its release in accordance with condition 68 of IAFW-2249.
- 16.2 The additional Security Deposit by the contractor will be released in two stages i.e. 50% on payment of final bill and 50% on expiration of Defects liability period as mentioned in paras 6.3 and 16.4 here-in-under.
- 16.3 The release of 50% of additional security deposit in the first stage will be allowed only if there are no claims outstanding against the contractor in respect of the contract and the final bill is not 'MINUS'. In case any claims are outstanding against the contractor, and/or the final bill is 'MINUS' the amount of Security Deposit to be released will be adjusted against the outstanding amount due to the Government and the balance if any, will be released to the contractor.
- 16.4 The balance of 50% of additional security deposit will be released to the contractor after expiration of the defects liability period (vide condition 46) in accordance with condition 68 of IAFW-2249 (General Condition of Contracts) after compliance with the requirement stipulated in that condition and/or elsewhere in the contract.
17. **SIGNING OF TENDER**
- 17.1 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 the Arbitration clause.
18. **PERIOD OF KEEPING THE TENDER OPEN**
- 18.1 The tender shall remain open for acceptance for a period of 60 (Sixty) days from the date on which the tender is due to be submitted.
19. **SITE CLEARANCE (REFER CONDITION 49 OF IAFW-2249, GENERAL CONDITIONS OF CONTRACT)**
- 19.1 The contractor shall remove from the site all unused stores and huts and the like belonging to the contractor provided for the executive of work and under this contract and the site of works shall be cleared off all rubbish and waste materials by the contractor and the site or works delivered in clean and tidy man to the satisfaction of the Engineer-in-Charge on or before the date of completion. Nothing extra whatsoever shall be paid to the contractor for such clearance of site.

SPECIAL CONDITIONS (CONTD)

19.2 The contractor shall clean all floors, remove cement/lime/paint drops etc, clean the joinery, glass panes etc tough up all painting work in connection herewith and leave the whole premises clean and tidy to the entire satisfaction of the Engineer-in-Charge before handing over the buildings.

20. STANDARD OF WORKMANSHIP AND FINISHES

20.1 In order to identify the acceptable standards of materials and workmanship under the terms and conditions of the contract, a sample quarter or sample room(s) depicting all items of fittings, fixtures and finishes will be built in a specified period of time in advance of the completion time stipulated in the contract. The dates for completion of different stages of work will be laid down by the GE so that completion of samples of materials and workmanship are achieved well in advance. The various stages of the sample quarter will be passed by the GE on the stage passing register. The standards of work in the remaining part of the accepted contract will not in anyway be inferior to the standards approved in the sample quarter by the GE. The quarter which will serve as sample quarter and separate period of completion, if any shall be as stipulated in note to Schedule 'A'.

21. WORKING HOURS/DAY

21.1 The contractor or his workmen shall not be permitted to work on Sundays, Holidays or after normal working hours without prior written permission of the GE.

22. WATER REFER CONDITION 31 OF IAFW-2249

22.1 Refer Condition 31 of General Conditions of contracts IAFW-2249 and clause 1.13 of MES Schedule.

(a) MES will supply water (unmetered) to contractor at the points shown on site plan or at locations as shown by Engineer-in-Charge. As the water supply of MES is likely to be intermittent the contractor shall make his own arrangements for conveyance and storage the water required for the works, labour and workmen etc, at his own expense.

(b) MES will not be liable for any damage on account of failure of supply of water or curtailment thereof, if the failure or curtailment as the case may be arises may be arises from accident or becomes necessary as a result of drought or any other unavoidable causes.

23. CONDITIONS OF WORKING :-

23.1 **CONDITIONS OF WORKING IN UNRESTRICTED AREA:** - The entire work under this contract lies in "UNRESTRICTED AREA". However, the contractor, his agents, employees, work people and vehicles may pass through the unit lines in which case the Engineer-in-Charge shall, at his own discretion has the right to issue passes, control their admission to the site of work or any part thereof. The contractor shall on demand by the Engineer-in-Charge submit a list of personnel etc., concerned and shall satisfy the Engineer-in-Charge as to the bonafides of such people. Passes shall be returned at any time on demand by the Engineer-in-Charge and in any case on completion of work.

The contractor his agents, employees and work people shall observe all the rules promulgated by the authority controlling the area in which the work is to be carried out e.g. prohibition of smoking, lighting and fire precautions, search of persons at entry and exit, keeping to specified routes, restricted hours of working etc. Any person found violating the security rules laid down by the authority, shall be immediately expelled from the area without assigning any reasons whatsoever and contractor shall have no claim on this account. Nothing shall be admissible for any man hours lost on this account.

24. **OUT OF POCKET EXPENSES**

24.1 Out of pocket expenses incurred by the tenderer in submitting his tender shall not be reimbursed whether tender is accepted or not.

25. **AVAILABILITY OF LAND FOR STORAGE OF MATERIALS/ACCOMMODATION FOR LABOUR**

25.1 Delete the following in para 1 of condition 24 of IAFW-2249 General Conditions of contracts. "In the ever of areas of land ----- allotted to him.

25.2 The contractor shall be permitted to store his materials including erecting temporary sheds therefore and also erect his temporary workshops for storage materials and for fabrication at the area of land marked for the purpose on the site plan free of rent. It it is on class 'A-1' land. For other types of land he shall be charged a licence fees of Rs.1/- per year or part of year for each and every separate area of land allotted to him. No defence land is available for accommodation of Labour for which the contractor shall make his own arrangement at his own expenses.

26. **FIRE PRECAUTIONS**

26.1 The Contractor, his agents, representatives, workmen etc., shall strictly observe the orders pertaining to fire precautions prevailing within the restricted area.

26.2 Motor transport vehicles if allowed by the authorities to enter the restricted area must be fitted with serviceable fire extinguishers.

27. **ISSUE OF FORM 'D' FOR INTER STATE SALES TAX**

27.1 Form 'D' shall be issued by the department to the contractor only (and not to any nominated suppliers) in respect of items required for the works, the procurement of which shall involve payment of inter state sales tax by the contractor.

28. **RE-IMBURSEMENT/REFUND ON VARIATION IN 'TAXES DIRECTLY RELATED TO CONTRACT VALUE'.**

(a) The rates quoted by the contractor shall be deemed to be inclusive of all taxes including Service tax Sales Tax/VAT on materials, Sales Tax /VAT or Works Contracts, Turnover Tax, Service Tax, Labour Welfare Cess/tax etc, duties, Royalties, Octroi & other levies payable under the respective Statutes. No reimbursement/refund for variation on rates of taxes, duties, Royalties, Octroi & other levies, and / or imposition/abolition of any new/existing taxes, duties, Royalties, Octroi & other levies, shall be made except as provided in Sub Para (b) here-in-below.

(i) The taxes which are levied by Govt at certain percentage rates of contract Sum/Amount shall be termed as 'Taxes directly related to Contract value' such as Sales Tax / VAT/GST on Work Contract, Turnover Tax, Labour Welfare Cess/tax and like but excluding Income Tax. The tendered rates shall be deemed to be inclusive of all taxes directly related to Contract value, with existing percentage rates as prevailing on last due date for receipt of tenders. Any increase in percentage rates of 'taxes directly related to Contract value' with reference to prevailing rates on last due date for receipt of tenders shall be reimbursed to the Contractor and any decrease in percentage rates of 'taxes directly related to Contract value' with reference to prevailing rates on last due date for receipt of tenders shall be refunded by the Contractor to the Govt/deducted by the Govt from any payments due to the Contractor. Similarly imposition of any new 'taxes directly related to Contract value' after the last due date for receipt of tenders shall be reimbursed to the Contractor and abolition of any 'taxes directly related to Contract value' prevailing on last due date for receipt of tenders shall be refunded by the Contractor to the Govt/deducted by the Govt from the payments due to the contractor.

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

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

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

29

PERFORMANCE SECURITY: The tenderers shall note that the successful tenderer is required to lodge **Performance Security** for an amount equal to 5% of the Contract Sum within 28 Days of receipt of Letter of Acceptance in the form of Bank Guarantee in the prescribed format or Government Securities or FDR or any other Government Instruments stipulated by the Accepting Officer in terms of Condition – 19 of IAFW – 2249, General Conditions of Contracts. The Performance Security shall be valid till expiry of Defects Liability Period as stipulated hereinafter. In case the tenderer fails to deposit the Performance Security within the stipulated period, the award of work shall be cancelled and Earnest Money deposited by him shall be forfeited. In case of MES enlisted Contractors, the amount equal to the Earnest Money stipulated in the Notice of Tender, shall be notified to the tenderer for depositing the amount through MRO. Bids of such Contractors shall not be opened till the aforesaid amount equal to the Earnest Money is deposited by him in Government Treasury. The contractor shall not be entitled for any compensation whatsoever on this account.

29.1 **DEFECTS LIABILITY PERIOD:** Refer Condition – 46 of IAFW – 2249, General Conditions of Contracts. The Defects Liability Period for this work shall be **Twenty Four [24] Calendar Months** from the certified date of final completion of the work.

30.

TESTING OF MATERIALS

30.1

Refer condition 10 of IAFW-2249.

30.2

All tests shall be got carried out by the contractor from laboratories/testing agencies as mentioned in Annexure-A to Special Conditions.

30.3

Any test not mentioned in Annexure-I but indicated anywhere else in tender documents are also to be carried out by the contractor.

30.4

The cost of materials, labour to be consumed in testing, transportation charges, testing charges and like shall be borne by the contractor.

30.5

The contractor may however get the materials tested from Zonal laboratory (where available) for which the testing charges shall be borne by the contractor. In case of non-availability of facilities for such tests in the Zonal laboratory, the test may be carried out in National Test House/SEMT Wing/Engineering Colleges or the contractor may set site laboratory at his own option or get the tests to be carried out.

Contd....

MATERIALS AND TESTS.

Sl No	Materials	Tests	Method of testing	Frequency of tests			Remarks
1	2	3	4	5			6
1.	Bricks	(i) Compressive strength.	IS 3495 (Part-II)	As per (IS-5454) as given under			Checks for visual and dimensional characteristics shall also be carried out as per IS-5454.
				Lot size	Sample size	Permissible nos of defective bricks	
				1001 to 10000,	5	0	
		(ii) Water Absorption	-do-	10001 to 35000	10	0	
		(iii) Efflorescence.	-do- (Part-I)	35001 to 50000	15	0	
2.	Coarse Aggregate	(i) Sieve Analysis.	IS : 2386 (Part-I)	One test for every 15 cu m of aggregate or part thereof brought to side.			
		(ii) Flakiness Index.	-do-	-do-			
		(iii) Estimation of deleterious materials.	IS : 2386 (Part-I)	One test for every 100 cum of aggregate or part thereof.			
		(iv) Organic impurities.	-do	One test per source of supply			
		(v) Moisture content	-do- Part-II	Regularly as required.			
		(vi) Specific Gravity.	IS : 2386 (Part-II)	One test for each source of supply.			
3.	Fine Aggregate	(i) Sieve analysis	IS : 2386 (Part-I)	One test for every 15 cum of FA or part when brought to site			
		(ii) Test for clay, silt and impurities.	-do- (Part-II)	-do-			
		(iii) Specific gravity.	-do- (Part-II)	One for each source of supply.			
		(iv) Moisture content.	-do- (Part-II)	Regularly as required subject to 2 tests/day when being used.			
		(v) Test for organic impurities	-do- (Part-II)	One test for each source of supply.			
4.	Cement	(i) Setting time	IS : 4031-63 affirmed 1980	Once for each consignment or as and when required.			
		(ii) Soundness	-do-	-do-			
		(iii) Compressive strength	-do-	-do-			
		(iv) Fineness	-do-	-do-			

1	2	3	4	5	6
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5.	Structural concrete (M-15 grade and above)	(i) Slump test (OR) compacting factor test (OR) Vee-Bee time.	IS : 1199	The minimum frequency of sampling of concrete of each grade shall be as under		(i) Random sampling shall be carried out to cover all mix units.
				Qty of concrete in the work (cum)	No of samples	
		(ii) Compressive strength	IS : 516	1-5 6-15 16-30 31-50 51 & above	1 2 3 4 4 +1 for each addl 50 cum in or part thereof	(ii) Refer IS 456 2000 clause 14 for frequency of sampling.
6.	(a) PCC Block for waling (Hollow Block)	(i) Compressive strength	IS : 2156-1984 (Appx -B)	8 Block out of 14		Sample : 14 blocks from consignment of every 5000 blocks or part thereof.
		(ii) Water absorption.	-do- (Appx 'E')	3 Block out of 14		
		(iii) Density	-do- (Appx 'A')	3 Block out of 14		
	(b) PCC solid Block for walling	(i) Compressive strength	IS : 2185	12 Blocks out of 18		Sample : 18 blocks from consignment of every 1000 blocks or part thereof.
		(ii) Water absorption.	-do-	3 blocks out of 18		These blocks to be checked for dimension and weight.
		(iii) Density	-do-	3 blocks out of 18		
7.	Cement flooring tiles / Terrazzo tiles	(i) Water absorption.	IS-1237 (Appx 'D')	6 tiles out of 18		Samples of 18 tiles from each source of supply selected at random.
		(ii) Wet transverse strength	-do- (Appx E)	-do-		
		(iii) Resistance to wear	-do- (Appx F)	-do-		
8.	Burnt clay roofing tiles (handmade) as per IS 2690 (Part-II) Length 150mm to 250mm Width 100mm to 200mm Thickness 35mm to 50mm	(i) Water absorption	IS : 3495 (Part-II)	6 tiles out of 12		Sample : 12 tiles from each source of supply selected at random.
		(ii) Compressive strength	-do- (Part-I)	-do-		

1	2	3	4	5	6																
9.	Mangalore pattern roofing tiles	(i) Water absorption (ii) Breaking load	IS : 654 (Appx A) -do- (Appx C)	6 tiles out of 32 -do-	Sample : 32 tiles from each consignment of 3000 tiles or part thereof. These tiles shall be checked for dimension.																
10.	Timber	(i) Specific gravity and weight (ii) Moisture content	IS : 1708 -do-	Minimum 3 samples from a lot of 4 cum or 250 pieces of seasoned timber. -do-																	
11.	Water for construction purpose	(i) Test for acidity (ii) Test for alkalinity (iii) Test for solid content	IS : 456 & 3015 -do- -do-	Once at the stage of approval of source of water. -do- -do-	Also refer clause 4.3 of IS : 456 and its subsequent sub clauses regarding suitability of water																
12.	Welding of steel work	Visual inspection test	IS : 822 clause 7.1	100% by visual inspection	Specialised tests, their method and frequency to be decided on consideration of their importance by the accepting officer.																
13.	Timber panelized and glazed Door/Window shutters (including factory made shutters)	(a) Dimensions, sizes workmanship and finish (b) Strength test (i) Slamming (ii) Impact indentation (iii) Shock Resistance (iv) Edge Loading	IS : 1003 (Part-I) IS : 1303 -do- -do- -do-	Frequency of sampling from each lot shall be as under :- <table border="1"> <thead> <tr> <th>Lot size</th> <th>Sample size</th> </tr> </thead> <tbody> <tr> <td>26 to 50</td> <td>5</td> </tr> <tr> <td>51 to 100</td> <td>8</td> </tr> <tr> <td>101 to 150</td> <td>13</td> </tr> <tr> <td>151 to 300</td> <td>20</td> </tr> <tr> <td>301 to 500</td> <td>32</td> </tr> <tr> <td>501 to 1000</td> <td>50</td> </tr> <tr> <td>1001 and above</td> <td>80</td> </tr> </tbody> </table> From each lot 5% of the factory made shutters shall be manufacturer tested for strength tests.	Lot size	Sample size	26 to 50	5	51 to 100	8	101 to 150	13	151 to 300	20	301 to 500	32	501 to 1000	50	1001 and above	80	
Lot size	Sample size																				
26 to 50	5																				
51 to 100	8																				
101 to 150	13																				
151 to 300	20																				
301 to 500	32																				
501 to 1000	50																				
1001 and above	80																				
14.	Ply Wood (IS : 303)	Moisture content	IS : 1734 (Part-I)	Six test pieces cut from each of the boards selected as per table shall be subjected to tests.	Sampling shall be as per IS: 7835 tables.																

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1	2	3	4	5	6
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15.	Wood particle board (Medium density IS 3097)	(a) Density	IS:2360 (Part-III)	Three test specimen from each sample (Size 150mm x 75 mm)	Sampling shall be as per IS: 3487 with moisture meter.
		(b) Moisture content	-do-	-do-	
		(c) Water absorption	-do- (Part-16)	-do- (Size 300mm x 300mm)	
		(d) Swelling due to surface absorption	-do- (Part-17)	-do- (Size 125mm x 100mm)	
		(e) Swelling in water	-do-	-do- (Size 200mm x 100 mm)	
		(f) Modulus of rupture	-do- (Part-4)	Three test specimen as per IS 2380	
		(g) Screw withdrawal strength	-do- (Part-4)	-do- as per IS : 2385	

31. CONCILIATION

31.1 Scope of Conciliation: 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.
- (a) Disputes relating to interpretation of the provision of the contract with reference to their application to parties.
- (b) Disputes relating to non return of Schedule 'B' stores over issued to contractors
- (c) Any other dispute having fair chances of being resolved by conciliation and considered fit to be referred to conciliation by the parties.

Note: For Item (b), (c), (d) and (e) each as stated above the financial limit shall be Rupees Two lakhs or one percent of the contract amount whichever less is.

31.2 Commencement of Conciliation Proceedings:

- (a) The party initiating conciliation shall send to the other party a written invitation to conciliate, briefly identifying the subject of the dispute.
- (b) Conciliation proceedings shall commence when the other party accepts in writing the invitation to conciliate.
- (c) 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 to the other party accordingly.

31.3 Number of Conciliators: There shall be a Sole conciliator.

31.3.1 Appointment of Conciliator:- All disputes brought out in Para 31.1 (a) to (e) above shall be referred to the sole Conciliator viz Serving Officer not below the rank of Superintending Engineer/ Superintending Engineer (QS&C) having degree in Engineering or equivalent or having passed final/ direct final examination of Sub division-II of Institution of Surveyors (India) to be appointed by the Engineer-in-Chief, Army Head quarters, New Delhi or in his absence, the officer officiating as Engineer-in-chief or Director General of Works specifically delegated by the Engineer-in-Chief in writing.

31.3.2 Status of Effect of Settlement Agreement: - 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 ADVANCES ON ACCOUNT:

32.1 Refer Condition 64 of IAFW-2249

32.2 However, at times due to non availability / inadequate availability of allotments of funds, the contractor may have to wait for the payment of RAR/ Final bill till adequate funds are allotted even though the RAR/Final bill stands technically checked and audited. No Compensation to contractor for delay in payment on this account shall be entertained.

33. APPLICABILITY OF GST:

33.1 GST promulgated vide GOI, Ministry of finance (department of Revenue) notification No.6/2015 dated 01 Mar 2015 as amended subsequently shall be leviable for this work. The liability of paying GST is on bidder and his rates quoted shall be deemed to include GST inclusive of applicable cess.

34. APPLICABILITY OF EMPLOYEES PROVIDENT FUND

34.1 Employees Provident Funds and miscellaneous Provision Act-1952 is applicable to contractor for this contract. The contractor and their sub contractors shall be in possession of Provident Fund code number. All the workers deployed in the work by the contractor and sub contractor shall be enrolled as members of Provident fund and shall be given the Universal Account Number (UAN).

34.2 The Contractor shall submit a certificate stating that all workers employed by him or his sub contractor in the work are registered for EPF and their due contributions have been credited into their account. This certificate duly signed by the contractor shall form Part of Running Account Receipt's and Final Bill. For Information Please epfoindia.gov.in

SIGNATURE OF CONTRACTOR

Dated

EE

ACCEPTING OFFICER

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PARTICULAR SPECIFICATIONS

1. GENERAL

- 1.1 The work under this contract shall be carried out in accordance with the Schedule 'A' special conditions, particular specifications, General specifications, drawings where applicable and other provisions contained in the MES Schedule read in conjunction with each other.
- 1.2 The term 'General Specifications' referred to in clause 1.1 hereinbefore in IAFW -2249 shall mean the specifications contained in the MES Schedule **2009(Part I) and 2010 (Part II)** including errata and amendments thereto as applicable.
- 1.3 General rules, specifications, special conditions and all other provisions In the MES Schedule shall deemed to apply to the works under this contract, unless otherwise mentioned in these tender documents.
- 1.4 Particular specification given hereinafter shall be applicable to all the works covered in sch 'A' and they are brief and are only particularise, amend and emphasise the specifications given in MES Schedule which are not repeated here.
- 1.5 Where specifications/provisions given in these particular specifications are at variance with that given in MES Schedule, specifications/provisions given in these particular specifications shall be followed.
- 1.6 In the absence of any reference in particular specifications with regard to the items indicated in Sch 'A', the work shall be executed to the specifications given in the MES Schedule.
- 1.7 Where specifications for any item of work is not given in MES Schedule or in these particular specifications, specifications given in relevant Indian Standard specifications or code of the practice shall be followed.

2 SCOPE OF CONTRACT

- 2.1 The contract comprises full, final and entire completion of all works described in Schedule 'A' as specified in the particular specifications of the contract.

3. ACCEPTANCE OF MATERIALS

- 3.1 The order of precedence for acceptance of materials shall be as under :-

- (a) Materials with ISI markings.
- (b) In case of non manufacture of ISI marked materials, materials confirming to relevant IS.
- (c) In case of non availability of materials at (a) and (b) above the best available materials in the market as defined in clause 1.3 (b) of SSR 1991 Part I and as approved by GE.

4. DEMOLITION / DISMANTLING / TAKING DOWN:

- 4.1 Demolition / Dismantling / Taking down shall be down all as directed by GE .All necessary precaution shall be taken while carrying out the demolition/ dismantling / taking down to avoid any damage or losses. If any damage / loss occur the same shall be rectified by the contractor on his own cost and arrangements. The retrieved material shall be material shall be offered to the contractor through schedule of credit and those material offered schedule of credit shall be removed by the contractors from the site after accounting of the same in payment/ advances. The contractor shall not have any claim whatsoever for the removal of those materials offered to him through schedule of credit.

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6. GENERAL REQUIREMENT.

- 6.1 The requirement pertaining to materials, conformity with Indian Electricity Act and rules, workmanship, testing, record of installations, safety procedures and practices and fire safety, shall be all as specified in MES Schedule clause 19.2.
- 6.2 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.
- 7. MATERIALS AND SAMPLE BOARDS**
- 7.1 All materials shall bear ISI certification marking. In case ISI certification marked materials is not available the material conforming to the relevant IS specification may be incorporated.
- 7.2 Approval of GE referred to in clause 19.2.1 of MES Schedule Part-I shall be in writing.
- 7.3 The contractor and Engineer-in-Charge shall ensure that all the materials incorporated in the work are identical in all respects. Samples approved and samples destroyed in testing shall be returned to the contractor after completion of contract. No payment shall be made for samples destroyed in testing.
- 7.4 All manufactured articles required for incorporation in works shall be brought to site in the manufacturer's original packing with the seal intact. Incorporation shall be done only when approved by Engineer-in-Charge.
- 7.5 Type of wiring shall be with PVC insulated and PVC unsheathed multi stranded aluminium conductors drawn through and including non metallic PVC conduits as indicated in Sch 'A'.

8 TYPE OF WIRING. The type of wiring (conduit) shall be as given in relevant section of schedule "A", particular specification and as directed by Engineer-in-Charge. Point wiring for light/power point(s) includes all works comprising of :-

- (a) Supplying and fixing/drawing of cables for carrying out wiring.
- (b) Supplying and fixing of suitable size sunk CI/pressed steel terminal box covered with white phylum sheet to accommodate requisite switches, fan regulator(s), sockets or switch socket combination.

9 **LOCATION OF VARIOUS FITTINGS:** 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 regards shall be given to doors, windows, opening, etc in fixing the run of cables, position of fittings, control switches etc. The location of fittings etc. shall be marked in advance on walls etc. and approved by GE.

10 **EARTHING AND TESTING:** Earthing shall be carried out as described in IS 3043 and as per Schedule 'A ' and as shown in drawing. It shall be conforming to the clause 19.137 of MES Schedule.

11 **SITING OF ELECTRICAL EQUIPMENT:** The siting of cable conduit, controls, distribution boards, fittings and accessories etc. shall be as laid down in IS 4648 "Guide for electrical layout in building" or as directed by EIC/GE.

- 12 **SYSTEM OF WIRING:** Wiring surface type shall be carried out with PVC insulated cable drain through non metallic conduit and shall run as far as possible near walls ceilings so as to be easily accessible and capable of being inspected. Power wiring shall be kept apart at minimum distance of 2mm unless they are enclosed in earthen metal conduit suitably marked to indicate the risk of dangerous shock due to the voltage in the conductor.
- 13 **CONTROL AT POINT OF ENTRANCE OF SUPPLY:** There shall be a linked main switch gear with MCB on each live conductors of supply main at the point of entrance. No fuse shall be inserted in the neutral.
- 14 **TYPE OF SWITCH BOARD :** Hinged type metal boards for mounting main switch/MCCB/MCB and electric meter shall be of 16 gauge MS Sheet with provision of locking arrangement and all as specified and shown in drawing.
- 15 **CABLES.**
- 15.1 All cables (except flexible cables and armoured cable) to be used in the works shall be indigenous make conforming to IS-1977 for copper conductors, and shall be suitable for 1100 voltage of supply. PVC unsheathed cable used in the work shall have ISI marking.
- 15.2 Flexible cord 23/0.0076 shall conform to IS-694 and shall be copper conductor PVC insulated twin twisted PVC sheathed.
16. **CONDUITS.**
- 16.1 Non metallic rigid PVC conduit and fittings shall conform to IS-2509 and 3419 respectively. The minimum dia of conduit shall be as specified in MES schedule part-I. The conduit wiring shall be all as described in clause 19.125 of SSR Part-I.
17. **EARTHING.**
- 17.1 Provide earthing all as per schedule 'A' and as specified in MES schedule part-I. The excavation shall be in any type of soil and surplus soil shall be obtained of at a distance not proceeding 50mtr. The mix of concrete for chamber shall be PCC 1:3:6 type CI (20mm graded stone aggregate) and the internal surface of chamber shall be plastered in cement mortar 1:4:10mm thick finished even and smooth. The unit rate quoted against relevant item of Sch 'A' shall be deemed to include the cost of chamber, specified in Sch 'A' as shown in electrical plate No.5 all as specified in MES Schedule and also as specified above.
- 18 **LIGHT FITTINGS.**
- 18.1 Light fitting shall be of approved make as per sketch indicated in Sch 'A'. Unit rate for various fittings shall be defined to include for fixing the fittings and connecting up complete with necessary connected cables etc., all as directed by Engineer-in-Charge.
19. **SWITCH SOCKET OUTLETS CABLES.**
- 19.1 Piano type switches shall be clearly marked letter for light,fans, bell and plug as the case may be.
- 19.2 Flush type socket outlets 5Amps and 15Amps shall be of make specified 15 Amps sockets will be of dual purpose for 5Amps also.
- 19.3 Standard aluminum conductor cables for point wiring and sub main wiring be as per IS-694 shall be procured from any of the manufacturers as specified here-in-before.

- 20.0 **FLUORESCENT TUBE LIGHT FITTINGS.** Shall be of standard approved makes as listed in List of Manufacturers. The fitting shall be fixed on wooden/PVC round blocks. The fitting shall be complete with all accessories as described in the respective schedule 'A' items.
- 21 **SCREWS/NAILS AND LINK CLIPS.**
- 21.1 All screws and nails used in the work shall be of GI screws which are visible such as over switch box covers should be brass chromium plated. Link clips shall be of aluminum conforming to IS-2412.
- 22.0 **ELECTRICAL TEST.**
- 23.1 On completion of wiring the whole installation will be tested in accordance with IS-732 Part-I or 732 Part-III clause 5.1.5(a),(b),(c) & (d) for each building of the above IS rendered jointly, signed by the contractor and the Engineer-in-Charge. The complete installation shall be tested in presence of Engineer- in-Charge.
- 24.0. **METAL CLAD SWITCH FUSE.**
- 24.1 Metal clad switch fuse shall be as described in respective items of Sch 'A' and of best indigenous make. This shall be quick make and break design. The switch shall be designed for full load operation in accordance with the relevant IS. The switch fuse shall be of ample mechanical strength and rigidity. HRC fuses certification markings.
25. **MINIATURE CIRCUIT BREAKER.**
- 25.1 The miniature circuit breaker shall have tungsten contacts and shall have quick break trip free mechanism. The break shall be provided with both thermal over load and magnetic short circuit trips devices. The trip free mechanism shall ensure that contacts cannot be held closed against a fault and the thermal lament shall prevent continuous rapid re-closing of a circuit when a fault of overload persists. The body of the breaker shall be made of heat resisting moulding. The breaker shall conform to IS-8828. The breaker shall be flush mounted.
- 25.2 The technical details for the breaker shall be as given below :-
(a) Rate voltage : 230/415 Volts AC.
(b) Nominal rating current - As specified in Sch 'A'.
(c) Breaking capacity not less than 9KA at 0.75 power factor.
- 25.3 The MCBs and mini break isolators shall be fitted in the metal clad enclosed and universal DIN channel supplied by the manufacturers of MCB as mentioned. Additional ways left unutilised in the metal clad enclosures shall be enclosed with suitable blanking pieces supplied by the manufacturers.
- 26 **PRECAUTIONS PRIOR AND DURING DISMANTLING/DEMOLITION**
- 26.1 All water, electricity, gas and other service lines shall be disconnected from the buildings/ structures to be dismantled / demolished as directed by Engineer-in-Charge. Any temporary service connections required for the demolition work shall be separately to be taken.
- 26.2 Necessary safety appliances shall be issued for the workers prior to starting of work.
- 26.3 Suitable safety precautions for fire shall be taken and prominent danger signs shall be posted around the building/structures.
- 26.4 All the materials, which are likely to be damaged by dropping from a height during demolition of masonry walls, roofs etc shall be carefully dismantled first.

- 26.5 Any damaged caused to the structures being dismantled/demolished in part and/or adjacent structures due to carelessness and negligence contractor shall be made good by him at his own cost to match with the specifications of existing buildings.
- 26.6 The installation shall strictly comply with the provision contained in the latest edition of the Indian Electricity Rules and IS-732 ‘Code of practice for electrical wiring and fittings in buildings ‘ as applicable to these works except where such regulations and rules are modified by these specifications.
- 26.7 All electrical works shall be executed properly by skilled licensed electricians under the supervision of suitable qualified electrical supervisors. The contractor on demand by Engineer-in-Charge shall produce such evidence of qualifications of his workmen and supervisor(s) either at the time of commencement of the work or any time there after during contract period.
- 26.8 The position of electrical fittings and fixtures shown on the drawings may be changed by Engineer-in- Charge at the time of execution, if found necessary, such change does not entail any price adjustment.
- 26.9 The runs of the wires shall be marked on the walls and soffits of roof/ floor slabs for wiring. Approval of Engineer-in-charge shall be obtained in writing before fixing plugs, boards, cables and fittings etc.
- 26.10 Looping back system of wiring shall invariably be used throughout the installation.
- 26.11 All electrical fittings and wiring shall be clear off doors and windows and other openings.
- 26.12 Danger boards shall be provided as per IS /IE Rules on all three phase switches and DBs.
- 26.13 No twisting jointing in earth wire is allowed. All continuous earth wires shall be connected to main earth/ switch boxes/ DBs, socket plugs, fittings etc; by use of crimping tools only.
- 26.14 5A and 15A switch socket out lets shall be multi socket conforming to IS-4615-1968.

27. **PAID VOUCHERS:**

27.1 Refer Engineer-in-Chief’s Branch, Integrated HQ of MoD (Army) Policy letter No 66546/P-8/160/E8 dated 16 May 2013. Contractors will be required to submit purchase vouchers in respect of items for which payment is claimed in RAR as “Material lying at site”. However, vouchers in respect of cement, steel, major E/M equipments like transformers, DG Sets, pumps, motors, AC and lift equipments will be submitted invariably.

28.2 **Original voucher are mandatory in respect of Cement, Light fitting and TMT steel shall be produced by the Contractor and their test certificates at the time of payment.**

28.3 The Engineer-in-Charge shall also verify the original paid vouchers and make necessary endorsement on the paid vouchers. One Xerox copy of the verified paid vouchers shall be kept on record and entered in the measurement book duly signed by the contractor and Engineer-in-Charge.

28.4 Along with paid voucher contractor shall produce the catalogue/pamphlet of the company/manufacturer.

29. **VISIT:**

29.1 Contractor shall visit to the site / building to ascertain the condition of building & existing provision and quote the rates accordingly.

**30. LIST OF APPROVED MANUFACTURERS
(List of Materials and their Approved Manufacturers)**

SL N O	NAME OF THE MATERIAL	NAME OF THE MANUFACTURER
1	CABLE LUGS	M/s DOWELLS / JAISON/MAHENDRA
2	PVC SINGLE CORE CABLE (ALUMINIUM OR COPPER) (INTERNAL WIRING)	HAVELLS / FINOLEX / PLAZA/ POWERFLEX/PARAGON/ GLOSTER/GM/POLYCAB/FINECAB
3	WIRING ACCESSORIES AND FITTINGS	GM / SSK/ L&T/ KAY/ HAVELLS/CONA
4	PVC CONDUIT	GM / MERCURY / FINOLEX/BAJAJ/PLAZA/MODI
5	TUBE LIGHT/ STREET LIGHT FITTINGS	WIPRO / PHILIPS/BAJAJ / CG / HAVELLS
6	MCB`S / MCCB / ACB / DB`S/ AC BOX / FUSE SWITCHES / ISOLATORS/ RCCB	HAVELLS / LEGRAND / SCHENIDER/ HAIGER / L& T / SIEMENS / C & S ELECTRIC
7	DIGITAL ENERGY METER	L&T / MECO / CONZERV/SECURE
8	GEYSER	BAJAJ / USHA (LEXUS) / RACOLD
9	MS PIPES (SQUARE CIRCULAR AND RECTANGULAR)	ITC/GST / JINDAL / TATA / ZENITH
10	GATE / GLOBE VALVE	LEADER/GEM/ZOLOTO/NETA
11	THERMOSTAT	BAJAJ/POWERPAC / RACOLD OR EQUIVALENT
12	HEATING ELEMENT	BAJAJ/POWERPAC / RACOLD OR EQUIVALENT
13	MAIN SWITCHES	HAVELLS / CONTROL & SWITCHES GEAR/ HAIGER/SCHENIDER
14	WEATHER PROOF SERVICE CABLE	HAVELLS / PLAZA/FINOLEX/FINECAB
15	METAL CLAD PLUG & SOCKET/ METAL CLAD PLUG SOCKET WITH ENCLOSURE	CG /SSK / HAVELLS/ GM
16	ELECTRONIC CHOKES/ COPPER BALLAST	HAVELLS/ CG/ WIPRO/PHILIPS/BAJAJ
17	CFL LAMPS	CG/WIPRO/PHILIPS//HAVELLS/OSRAM/ BAJAJ
18	SV/ MH CHOKES AND LAMP	CG/WIPRO/PHILIPS/HAVELLS
19	IGNITOR	CG/ PHILIPS / BAJAJ
20	CAPACITOR	CG / USHA/ PHILIPS/ CAPCO/ TIBCON/SIMENS

LIST OF MANUFACTURERS (CONTD..)

SL NO	NAME OF THE MATERIAL	NAME OF THE MANUFACTURER
21	RIGID STEEL CONDUIT	GUPTA (GB) / BHARAT
22	CEILING FAN REGULATORS	CROMPTON GREAVES/ USHA/ ORTEM/ ORIENT/CONA
23	POWER CONTACTER	L&T /BCH/SIMENS//HAVELLS
24	BEARING	SKF / NBC / TATA
25	HT / LT POWER CABLES/WIRE	POLYCAB/FINOLEX/FINECAB/UNIVERSAL/PLAZA/HAVELLS
26	CEILING FAN/ EXHAUST FAN	BAJAJ/USHA/CROMPTON/ORIENT/ KHAITAN
27	SYNTHETIC / ALUMINIUM PAINT / BLACK PAINT	ASIAN (APCOLITE) / SHALIMAR (SUPERLAC) / BERGER (LUXOL)
28	MODULAR WIRING ACCESSORIES AND FITTINGS	ROMA/ GM/ HAVELLS/ CRABTREE/ LEGRAND AND EQUIVALENT
29	SUB MAIN WIRING	ANCHOR/HAVELLS/FINOLEX
30	FTL STARTER	BAJAJ/PHILLIPS/HAVELLS
31	CI SLUICE VALVE / NON RETURN VALVES / FOOT VALVES	UPADHYAYA / VENUS / DURGA (ISI MARKED) / KIRLOSKAR / KARTAR
32	GI PIPE & FITTINGS	JINDAL / TATA / ZENITH

NOTE: The make's of products given in above list are expected to confirm IS specifications/ bear ISI mark. In case, they do not confirm to IS, they automatically deemed to be deleted from this list. The Tenderers therefore, shall make market enquiry about the same and no claim whatsoever on this account shall be entertained. In such cases, the make shall be as approved by the Garrison Engineer. The makes if given in Schedule 'A' shall take precedence over this list of makes.

If make of any item not indicated/ specified in Sch 'A' as well as in the above 'List of Makes and their approved Manufacturers' list shall be ISI approved or IS marked Confirming to relevant IS Code and as approved by Engr-in-charge.

SIGNATURE OF THE CONTRACTOR

**AGE (CONTRACTS)
FOR ACCEPTING OFFICER**

REPAIR REPLACEMENT OF CEILING FANS GEYSERS EXHAUST FANS AND WALL MOUNTED FANS AT ARTY CENTRE ASIF NAGAR AND MH MD AREA UNDER GE GOLCONDA