MILITARY ENGINEER SERVICES

NAME OF WORK: REPAIR AND MAINTENANCE OF DG SETS OF CAPACITY 1010 KVA AT MRSS VAJRAKOSH, 625 KVA AT DSS 16 AT SITE 'E' AND 750 KVA AT NCN UNDER GE(SB) KARWAR.

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(Signature of contractor) Dated :

DCWE(Contracts) for Accepting Officer

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e-Tendering

Military Engineering Services

Vasco-da-Gama, Goa-403 802

Commander Works Engineers (Navy)

Tele: 0832-2530736 (CWE)

0832-2530718 (DCWE (C))

Fax: 0832-2531991

email- nvas3-mes@nic.in

85849/ 03 /E8 15 Oct 2024

M/s		

NAME OF WORK: REPAIR AND MAINTENANCE OF DG SETS OF CAPACITY 1010 KVA AT MRSS VAJRAKOSH, 625 KVA AT DSS 16 AT SITE 'E' AND 750 KVA AT NCN UNDER GE(SB) KARWAR.

Dear Sir (s),

- Tender documents in respect of above work are uploaded on the site <u>www.defproc.gov.in</u>.
 The tender is on single stage two cover e-tendering system. The contents of Cover-1 & Cover-2 are specified in NOTICE OF TENDER.
- 2. Bids will be received online by ACCEPTING OFFICER upto the date and time mentioned in the NOTICE INVITING TENDER (NIT). No tender/bid will be received in physical form and any tender/bid received in such manner will be treated as non bonafide tender/bid.
- 3. Bid will be opened on due date and time fixed for opening in the presence of tenderers/bidders or their 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 22 Oct 2024 upto 1800 hrs. You are requested not to write piece meal points and forward your points duly consolidated before due date viz representative for discussion on tender/drawings and to clarify doubts, if any, on or before 22 Oct 2024 upto 1800 hrs.
- 5. Unenlisted contractors are required to submit the scanned copies (in pdf file) of documents required as per eligibility criteria mentioned in instructions for filing the tender documents and Appx 'A' to NIT alongwith EARNEST MONEY DEPOSIT (EMD) and tender fee on e-procurement portal and submit the physical documents in the office CWE (NAVY) VASCO, GOA 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 CWE (NAVY) VASCO, GOA before date and 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) Successful Bidder/Contractor would be required to deposit immediately after the acceptance of tender, a Performance Security in any of the prescribed form for an amount equivalent to 5% of the contract sum.
 - (c) Please note that Work order No.1 shall be placed by GE only after submission of Performance Security of adequate value by the contractor.

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7. Enlisted contractors of MES shall submit the scanned copies (pdf file) of enlistment letter along with latest reclassification documents, if any, 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 CWE (NAVY) VASCO, GOA before date & time fixed for this purpose.

- 8. The contractor must ensure that the tender/bid on the proper form is uploaded in time as the Accepting Officer will take no cognizance of any quotations/offer received in any other electronic or physical form like email/fax/by hand/ through post from tenderer/bidder even if they are received in time.
- 9. In view of delays due to system failure or other commutation related failures, it is suggested that the tender/bid be uploaded, if necessary, sufficiently in advance of the last due date and time fixed.
- 10. General Conditions of Contracts (IAFW-2249) (1989 Print) and errata and amendments thereto Schedule of minimum fair wages and MES SSR (Part-I and Part-II) are not enclosed with these documents. These are available for perusal in any MES formation and CWE (Navy) Vasco, Goa.
- 11. Any tenderer, which propose alternations to any of the condition, specifications laid down in the tender documents or any new conditions, whatsoever, is liable to be rejected.
- 12. Consequent of implementation of GST(wef 01 July 2017), the contractors quoted rate shall be deemed to include GST as applicable and applicable percentage will be deducted at source from contractor's payments. The liability to pay GST lies with the contractor. Contractor is advised to consider this aspect before quoting the tender. Nothing extra whatsoever shall be admissible on this account.
- 13. 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.
- 14. In case the BOQ is revised by the Department and the bidder has failed to quote in revised BOQ (i.e. he has quoted in previous BOQ), such bid shall be treated as willful negligence by the bidder and his quotation shall be considered non-bonafide. In such cases the lowest tender shall be determined by the lowest amount amongst the valid / bonafide bids only. Accepting Officer may decide whether to retender or otherwise. The remark of 'non-bonafide finance bid' against such bidder and copy of CST shall be uploaded alongwith Finance Bid Opening Summary.

Yours faithfully,

(Priyank Gupta)
EE (QS&C)
DCWE (Contracts)
for Accepting Officer

Encls: As above

Signature of Contractor

CA NO: CWE/NAVY/VASCO/

Dated:

MILITARY ENGINEER SERVICES NOTICE OF TENDER

- 1. A tender is invited for the work as mentioned in Appendix 'A' to this NOTICE INVITING TENDER (NIT).
- 2. The work is estimated to cost as indicated in aforesaid Appendix 'A'. This estimate however, is not a guarantee and is merely given as a rough guide and if the work costs more or less, a tenderer/bidder will have no claim on that account. The tender shall be based on as mentioned in aforesaid Appendix 'A'.
- 3. The work is to be completed within the period as indicated in aforesaid Appendix 'A' in accordance with phasing, if any, indicated in the tender from the date of handing over the site which will be on or about two weeks after the date of Acceptance of tender.
- 4. Normally contractors whose names are borne on the MES approved list for the area in which the work lies, and within whose financial category, the estimated amount would fall, may tender/bid but in case of term contracts, contractors of categories 'SS' to 'E' may tender/bid.Not more than one tender shall be submitted by one contractor or one firm of contractor. Under no circumstances will a father and his son (s) or other close relations who have business dealing with one another be allowed to tender for the same contract as separate competitors. A breach of this condition will render the tenders/bids of both parties liable to rejection.
- 5. CWE (Navy) Vasco, Goa, 403 802, will be the Accepting Officer herein after referred to as such f or purpose of the contract.
- 6. The Technical Bid and Financial Bid (Cover-1 and Cover-2) shall be uploaded by the tenderer/bidder on or before the date & time mentioned in NIT. A scanned copy of DD with enlistment details/documents shall be uploaded as packet 1/cover-1('T' bid) of the tender/bid on e-tendering portal. DD is refundable in case T bid is not accepted resulting in non opening of 'Q' bid. The applicant contractor shall bear the cost of bank charges for procuring and encashing the DD and shall not have any claim from Government whatsoever on this account.
- 6.1. Tender form and conditions of contract and other necessary documents shall be available on www.defproc.gov.in site for download and shall form part of contract agreement in case the tender/bid is accepted.
- In case of contractor who has not executed the Standing Security bond, the cover-1 shall be shall be accompanied with the by Earnest money of amount as mentioned in Appendix 'A' in the form of deposit at Call Receipt in favour of **GE(SB) KARWAR** (See Appendix 'A') by a Scheduled Bank/Nationalized Bank or receipted treasury Challan the amount being credited in the revenue deposit of the **GE(SB) KARWAR**.
- 6.3 GE will return the earnest money wherever applicable to all unsuccessful tenderers/bidders by endorsing authority on the deposit-at-call receipt for its refund, on production by the tenderer, bidder a certificate of the Accepting Officer that a bonafide tender/bid was received and all documents were returned.
- 6.4 The GE will either return the earnest money to the successful tenderer/bidder, by endorsing an authority on the deposit-at-call receipt for its refund, on receipt of an appropriate amount of Security Deposit or will retain the same in part or full on account of security deposit, if such transaction is feasible.
- 6.5 Copies of the drawings and other documents pertaining to the work signed for the purpose of identification by the Accepting Officer or his accredited representative, samples of materials and stores to be supplied by the contractor will be open for inspection by the tenderers/bidders at the office of Accepting Officer during working hours.

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NOTICE OF TENDER(CONTD...)

- 7. The tenderers/bidders are advised to visit site of work by making prior appointment with the GE who is also the Executing Agency of the work (See Appendix 'A'). The tenderer/bidders are deemed to have full knowledge of all relevant documents, samples, site etc. whether he has inspected them or not.
- 8. Any tender/bid which proposed any alterations to any of the conditions laid down or proposes any other conditions of any description whatsoever is liable to be rejected.
- 9. The uploading of a bid implies that bidder has read this notice and the conditions of contract and has made himself aware of the scope and specifications of work to be done and of the conditions and rates at which stores, tools and plant etc.. will be issued to him and local conditions and other factors bearing on the execution of the work.
- 10. Tenderers/bidders must be in possession of copy of MES Schedule of Rates (See appendix 'A') including errata/amendments thereto.
- 11. Invitation for e-tender does not constitute any guarantee for validation of 'T' bid and subsequent opening of finance bid of any applicant/bidder, even of enlisted contractors of appropriate class, merely by virtue of enclosing DD. Accepting Officer reserves the right to reject the 'T' bid and not open the finance bid of any applicant/bidder. 'T' bid validation shall be decided by the Accepting Officer based on, inter lia, capability of the firm as per criteria given in Appx 'A' to this NIT. The Applicant contractor/bidder will be informed regarding non validation of his 'T' bid assigning reasons thereof through the defproc website. The applicant contractor/bidder if he so desires may appeal to the next higher Engineer Authority HQ CE (Navy) Mumbai on email id sswceznm2-mes@nic.in or with copy to the Accepting Officer on email before the scheduled date of opening of Finance Bid. The decision of the Next Higher Engineer Authority (NHEA) shall be final and binding. The contractor/bidder shall not be entitled for any compensation whatsoever for rejection of his bid.
- 12. The Accepting Officer reserves the right to accept a tender submitted by a Public Undertaking, giving a price preference over other Tender(s)/bids which may be lower, as are admissible under the Government Policy. No claim for any compensation or otherwise shall be admissible from such tenderer/bidder whose tender/bid is rejected.
- 13. The Accepting Officer does not bind himself to accept the lowest or any tender/bid or to give any reasons for not doing so.
- 14. This Notice Inviting Tender (NIT) including Appendix 'A' shall form part of the contract.

Signature of Contractor Dated:

DCWE (Contracts) for Accepting Officer

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APPENDIX 'A' TO NOTICE INVITING TENDER (NIT)

1. Name of work : REPAIR AND MAINTENANCE OF DG SETS OF CAPACITY 1010

KVA AT MRSS VAJRAKOSH, 625 KVA AT DSS 16 AT SITE 'E'

AND 750 KVA AT NCN UNDER GE(SB) KARWAR.

2. Estimated cost : **Rs. 30.00 lakhs** (Rupees Thirty lakhs only) (At Par Market)

3. Period of : 270 days

completion

4. Cost of tender: Rs. 500/- in the shape of DD/Bankers cheque from any schedule

documents Bank in favour of **GE (SB) Karwar** and payable at **Karwar**.

5. Website/portal : www.eprocuremes.gov and www.mes.gov.in

address

6. Type of contract : Tender shall be based on IAFW-1779-A & IAFW-2249 with Schedule

'A' (Items of Works) to be priced by the tenderer, in the BOQ format

attached.

7. Information & Details : CRITICAL DATES

(a) Publishing date and time of :

tender

(b) Starting date & time of Bid

Submission

(c) Closing date and time of bid : Refer critical dates on the Website

(d) Date and time of bid opening

submission (Cover No. 1 & 2)

(Cover No. 1)

(e) Date and time of bid opening : Will be intimated online after completion of evaluation of

(Cover No. 2) tech bids/applications (cover No. 1)

8. Eligibility criteria

(A) For MES enlisted: All contractors enlisted with MES in Class 'D' and above and contractors category "b(ii)" subject to satisfactory remarks/ un-availability of

remarks wrt performance in respect of works in hand as reflected in Work Load return (WLR) or any other report circulated by competent

engineer authority.

(B) For other: (a) The firms not enlisted with MES shall meet the enlistment criteria

contractors of Class 'D' and above and category "b(ii)" i.e, with regard to

having satisfactorily completion of requisite value works with Central/State Government/Central/State PSUs/ AWHO / AFNHB / CGEWHO / DGMAP, Annual turnover, Bank Solvency, working

capital and other

Cond/-....

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requirements given in Para1.4 & 1.5 of Section 1 of Part I of MES Manual on Contracts -2020 as available in all MES formations as well as MES Website (www.mes.gov.in).

- (b) These firms shall also submit copy of Police verification from police authority of the area where the registered office of the firm is located/notarized copy of valid passport of proprietor/each partner/each Director.
- (c) They should not carry any adverse remarks in WLR/or any other similar report circulated by any competent authority if already working in MES
- (d) Not suspended/debarred/backlisted (either permanently or temporarily) from participating in any bid or for business dealings by any Central/State Government Department or any Central/State Government PSU or any Autonomous Body under Central/State Government or any Local Body as on bid submission end date.

(C) Technical PQC Criteria : Not Applicable

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9. Tender issuing and : COMMANDER WORKS ENGINEERS (NAVY) VASCO-DA-

Accepting Officer GAMA, GOA -403 802.

10. Executing agency : **GE (SB) Karwar**

11. Earnest Money : **Rs.60,000.00/-** to be paid in the form of Deposit at call receipt,

(FDR) from any Scheduled/Nationalized bank in favour of GE

(SB) Karwar and payable at Karwar.

NOTES:-

In case after opening of Cover 1, the number of MES enlisted contractors of eligible class as well as eligible un-enlisted contractors, if any, fulfilling the other eligibility criteria given in NIT is less than 7(Seven), applications in respect of MES contractors of one class or two classes (in case of remote and difficult areas to be decided as per list circulated by CE command/ADG) below the eligible class shall also be considered subject to fulfilment of other eligibility criteria given in the NIT. Therefore MES contractors one class below (two classes below in case of remote and difficult areas) may also bid for this tender. Such contractors (contractors of one/two classes below the eligible class) shall not be considered in case their present residual work in hand is more than FIVE TIMES their present tendering limit. However incase such contractors fulfill the criteria of updgradation to the stipulated eligible class based past experience of completed works (individual work experience and / or average annual turnover, as applicable) and financial soundness (solvency/financial soundness and working capital) the ceiling of present residual work will not apply and they will be considered for issue of tender. Such bidders shall upload in their Cover-1 bid details related to residual work in hand like details of works in hand showing names of work, names of Accepting Officers, Contract amounts, dates of commencement and completion (stipulated) and progress as on bid submission date. Such contractors, if claim to fulfil the criteria of upgradation shall also upload the requisite information/documents in support of upgradation. These details shall be verified by the Tender Issuing Authority from concerned formations in case bids of such contractors are considered for evaluation.

2. In case after opening of Cover 1, the number of MES enlisted contractors of eligible class as well as un-enlisted contractors, if any, fulfilling the other eligibility criteria given in NIT, are 7 (Seven) or more, applications of only those one class below the eligible class bidders shall be considered, who have previously completed similar works satisfactorily and are meeting the criteria of upgradation in respect of past experience of completed works (individual work experience and/or average annual turnover as applicable) and financial soundness (solvency/financial soundness and working capital) as per details given in Manual on Contracts. Therefore such contractors shall upload the requisite information/documents in the Cover-1.

- 3. Unenlisted contractor shall be considered provided he meets the criteria. Foreign firms shall not be eligible for this tender. However Indian Firms having foreign national / Indian nationals staying abroad / Indian national having taken foreign citizenship, as director(s) shall be considered subject to security clearance from the concerned authorities.
- 4. Contractors enlisted with MES will upload following documents in Cover 1 for checking eligibility:-
 - (a) Application for tender on Firm's letterhead.

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- (b) Enlistment letter issued by the Registering Authority duly renewed for the cycle period in vogue.
- (c) Scanned copy of DD /Bankers Cheque toward cost of tender and EMD instrument in case SSD bond is not signed at the time of registration.
- (d) Any other document required as described in this Appendix.
- 5. Contractors not enlisted with MES will be required to upload following documents in Cover 1 for checking eligibility.
 - (a) Application for tender on Firm's letterhead.
 - (b) Scanned copy of DD/ Bankers cheque toward cost of tender and Earnest Money Deposit (EMD) instrument.
 - (c) Copy of Police Verification Report/Police Clearance Certificate/ Character Certificate from the Police Authority of the area where the registered office of the firm is located/notarized copy of valid passport of Proprietor/each Partner/each Director.
 - (d) All documents required for enlistment in MES for the class mentioned in Para 8(b) above as per Para 1.5 of Section 1 of MES Manual on Contracts 2020.
 - (e) Details of works being executed in MES, if any.
 - (f) Any other document required as described in this Appendix.
- 6. Tenders not accompanied by scanned copies of requisite DD/Bankers Cheque towards cost of tender and earnest money (as applicable) in Cover 1 shall not be considered for validation of 'T' bid and their Financial Bids will not be opened.

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7. . Contractors should ensure that their original physical DDs and Earnest Money Deposit (EMD) instruments (as applicable) reach the office of Accepting Officer within 7 days of bid submission end date failing which following action shall be taken.

- (a) In case of tenders from an enlisted contractor of MES, where scanned copies of requisite DD/ Bankers Cheque towards cost of tender have been uploaded in Cover 1 but physical copies are not received within the stipulated period, their financial bids (Cover 2) will be opened. However non-submission of physical copies of cost of tender shall be considered as willful negligence of the tenderer with ulterior motives and such tenderer shall be banned from bidding for a period of six months commencing from the date of opening of Financial Bid (Cover 2).
- (b) In case of tenders from unenlisted contractor, where scanned copies of requisite DD/Bankers Cheque towards cost of tender have been uploaded in Cover 1 but physical copies are not received within the stipulated period, their financial bids (Cover 2) will not be opened. Name of such contractors along with complete address shall be circulated for not opening of their bids for a period of six months commencing from the date of opening of Financial bid (Cover 2).
- (c) In case of tenders from enlisted and unenlisted contractors, where scanned copies of instruments for Earnest Money Deposit (as applicable) have been uploaded in Cover 1 but the same are not received in physical form within stipulated period, such tenders shall not qualify for opening of financial bid (Cover 2).
- 8. Contractor will not be allowed to execute the work by subletting or through power of attorney to a third party/another firm on his behalf. However a contractor can execute the work through power of attorney to sons/daughters/ spouse of Proprietor/Partner/Director and firm's own employees, director, project manager provided they are not having a separate enlisted firm in MES in their name as Proprietor/Partner/Director.
- 9. After opening of Cover 1 and during its technical evaluation, in case any deficiency is noticed in the documents required to be uploaded by the tenderers as per NIT, a communication in the form of e-mail/SMS/Speed Post etc shall be sent to the contractor to rectify the deficiency within a period of seven days from date of communication failing which their financial bid (Cover 2) shall not be opened and contractor shall not have any claim on the same.
- 10. Invitation for e-tender does not constitute any guarantee for validation of Technical bid and subsequent opening of financial bid of any applicant/bidder merely by virtue of enclosing DD. Accepting Officer reserves the right to reject the Technical bid and not to open the financial bid of any applicant/bidder. Technical bid validation shall be decided by the Accepting Officer based on eligibility of the firm as per criteria given in this Appendix. Tenderer/bidder will be informed regarding non-validation of his Technical bid assigning reasons therefore through tender evaluation report which shall be uploaded on the website. Such tenderer, if desires, may appeal to the next higher Engineer Authority (NHEA) viz HQ CE(N) Mumbai on email id sswceznm2-mes@nic.in with copy to the Accepting Officer on email before the scheduled date of opening of Cover 2. NHEA shall decide the matter within a period of seven working days from the date of receipt of appeal. The decision of the NHEA shall be final and binding. The tenderer/bidder shall not be entitled for any compensation whatsoever for rejection of his bid.
- 11. In case an unenlisted contractor is already executing works in MES, he shall not be considered eligible for the subject tender if the total value of such works is more than twice the

CA NO : CWE/NAVY/VASCO/ OF 2024-25 Serial Page No.10 tendering limit of the MES Class of contractor for which it is eligible. For this purpose, details of the works being executed by such a contractor shall be uploaded in the Cover -1 of the bid and shall be checked/verified by the Accepting Officer.

- 12. In case the BOQ is revised through the corrigendum and the bidder has failed to quote on revised BOQ (ie he has quoted on pre revised BOQ), such bid shall be treated as willful negligence by the bidder and his quotation shall be considered non-bonafide. 101 In such cases the lowest tender shall be determined from amongst the valid/bonafide bids only. Accepting Officer may decide whether to re-tender or consider the lowest bonafide tender for acceptance.
- 13. Revoking the offer or revising the rates upward or offering voluntary reduction by the lowest tenderer after opening of Cover 2 shall be considered as a wilful default. For this default a penalty of an amount equal to Earnest Money shall be levied. In case of an unenlisted tenderer, Earnest Money deposited by him shall be forfeited. In case of MES enlisted tenderer having deposited the Standing Security Bond, an amount equal to the earnest money stipulated in the NIT, shall be notified to the tenderer for depositing through MRO and consideration of such tenderer in tender evaluation for future works shall remain suspended till the aforementioned amount is deposited in the Government Treasury. No other disciplinary/administrative action shall be taken against such tenderers. In such a situation, the next lowest offer shall not be considered for acceptance. Instead, retendering shall be resorted to in a transparent and fair manner and the defaulting tenderer and his related firm if any, shall not be eligible for this tender in second call or subsequent calls.
- 14. Tender to related firms shall not be issued simultaneously. Firms shall be termed as related if Proprietor/one or more Partners/Directors are common. Decision of Accepting Officer on issue/deny the tender to any one of the related firms shall be final and binding.

(Signature of Contractor)

(Priyank Gupta)
EE (QS&C)
DCWE (Contracts)
for CWE (Navy) Vasco

85849/02/E8 dated 15 Oct 2024

Military Engineering Services Commander Works Engineers (Navy) Vasco-da-Gama, Goa-403 802

Tele: 0832-2530736 (CWE)

0832-2530718 (Offg DCWE (C)

Fax: 0832-2531991

email- nvas3-mes@nic.in

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INSTRUCTIONS FOR COMPLETION OF TENDER DOCUMENTS TO BE COMPLIED WITH BY THE CONTRACTORS

1. EARNEST MONEY DEPOSIT (EMD)

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

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

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

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

2. PERFORMANCE SECURITY (Refer Condition 19 of IAFW 2249 General Condition of Contract)

- 2.1 Immediately after the receipt of the letter of Acceptance, the successful contractor shall deliver to the Accepting Officer a Performance Security in any of the forms given below for an amount equivalent to 5% of the contract sum.
 - (i) A Bank Guarantee in the prescribed form.
 - (ii) Government Securities, FDR or any other Government instruments stipulated by the Accepting Officer.
- 2.2 Please note that Work order No.1 shall be placed by GE only after submission of Performance Security of adequate value by the contractor.
- 2.3 If the performance security is provided by the successful Contractor in the form of a Bank Guarantee, it shall be issued by Nationalized/Scheduled Indian Bank but its confirmation shall be done only from the Head Office of the Bank.
- 2.4 Failure of the successful contractor to comply with the requirements of sub-clause 2.1 shall constitute sufficient grounds for cancellation of the award of work and forfeiture of the Earnest Money. In case of MES enlisted contractor, amount equal to the Earnest Money stipulated in the Notice Inviting Tender, shall be notified to the tenderer for depositing the amount through MRO. Issue of tender to such tenderers shall remain suspended till the aforesaid amount equal to the Earnest Money is deposited in Government Treasury.
- 2.5 All compensation or other sums of money payable by the contractor to the Government under terms of this contract or under any other contract with Government may be deducted from or paid by the sale of a sufficient part of the Performance Security or from the interest arising there from or from any sums which may be due or become due to the contractor by the Government on any account whatsoever and in the event of his Performance Security being reduced by reason of any such deduction, or sale as aforesaid, the contractor shall within ten days thereafter make good in cash or securities, endorsed as aforesaid, any sum or sums which may have been deducted from or realized by the sale of his Performance Security or any part thereof.

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INSTRUCTIONS FOR COMPLETION OF TENDER DOCUMENTS TO BE COMPLIED WITH BY THE CONTRACTORS

- 2.6 Government shall not be responsible for any loss of securities or any depreciation in the value of securities while in their charge nor for loss of interest thereon.
- 2.7 In the event of contract being cancelled, under Condition 52, 53 & 54 of General Conditions of Contract, the Performance Security shall be forfeited in full and shall be credited into Consolidated Fund of India.
- 3. REFUND OF PERFORMANCE SECURITY (Refer Condition 68 of IAFW 2249 General Condition of Contract) The Performance security Deposit mentioned hereinbefore may be refunded to the contractor after expiration of the defects liability period (ref Sch A notes) by the GE provided always that the contractor shall first have been paid the final bill and rendered a No-Demand Certificate (IAFW-451). Any recovery if outstanding against the contractor shall be effected from the performance security as stipulated under condition 67 of IAFW-2249 (as amended).

4. GENERAL INSTRUCTIONS FOR COMPLIANCE

CA NO: CWE/NAVY/VASCO/

- 4.1 The bids received only in the electronic form will be considered. All bids shall be submitted on 'defproc.gov.in' portal. Documents should be scanned and forwarded in 'pdf' form and 'xls' form as indicated.
- 4.2 Bids shall be uploaded on 'defproc.gov.in' portal on or before the bid closing date mentioned in the tender. No tender/bid in any other electronic or physical form like email/fax/by hand/through post will be considered.
- 4.3 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.
- 4.4 Drawings, if issued in physical form, must be returned duly initialed by the tenderer/bidder in separate envelope indicating his name and address.
- 4.5 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.
- In the technical bid, a scanned copy of Power of Attorney in favour of the person uploading 4.6 the bid using his/her DSC shall be uploaded. In case the digital signatory himself is the sole proprietor, scanned copy of an affidavit on stamp paper of appropriate value to this effect stating that he has authority to bind the firm in all matters pertaining to contract including the Arbitration Clause, shall be attached in 'pdf' form. In case of partnership concern or a limited company, digital signatory of the bid/tender shall ensure that he is competent to bind the contractor (through partnership deed, general power of attorney or Memorandum and Articles of Association of the Company) in all the matters pertaining to the contracts with Union of India including arbitration clause. A scanned copy of the documents confirming of such authority shall be attached with the tender/bid in 'pdf' form, if not submitted earlier. The person uploading the bid on behalf of another partner(s) or on behalf of a firm or company (in 'pdf form) of Power of using his DSC shall upload with the tender/bid a scanned copy 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.
- 4.7 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 favor stating specifically that the said person has authority to bind such partners of the Firm, or the Company as the case may be, including the condition relating to Arbitration Clause, should be uploaded in 'pdf' form with the

INSTRUCTIONS FOR COMPLETION OF TENDER DOCUMENTS TO BE COMPLIED WITH BY THE CONTRACTORS (Contd..)

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.

- 4.8 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.
- 4.9 Bid (Cover 1 & 2) shall be uploaded online well in time.
- 4.10 The contractor shall employ Indian Nationals after verifying their antecedents and loyalty, Attention is also drawn to special condition 3 referred hereinafter also conditions 24&25 of IAFW 2249 (General conditions of contract).
- 4.11 Tenders/bidders who uploaded their priced tenders/bids and are desirous of being present at the time of opening of the tenders/bids, may do so at the appointed time.
- 4.12 The tenderer/bidder shall quote this rate on the BOQ file only. No alteration to the format will be accepted; else the bid will be disqualified and summarily rejected.
- 4.13 In case the tender/bidder has to revise / modify the rates quoted in the BOQ (excel sheet) he can do so only in the BOQ, through www.defproc.gov.in site only before the bid closing time and date.

5. <u>REVOKATION/REVISION OF OFFER UPWARD/ OFFERING VOLUNTARY REDUCTION,</u> 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.

6. **C P M (Critical Path Method)**

- 6.1 The project planning for work covered in the scope of tender is based on CPM.
- 6.2 The tenderer/bidder is expected to be fully conversant with the CPM technique and employ technical staff who can user 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.
- 6.3 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.

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

(TO BE USED IN CONJUNCTION WITH GENERAL CONDITIONS OF CONTRACTS IAFW-2249)

MILITARY ENGINEER SERVICES

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Tele: 0832-2530736 (CWE) 0832-2530718 (DCWE (C))

Fax: 0832-2531991

email- nvas3-mes@nic.in

Military Engineer Services Commander Works Engineers (Navy) Vasco-da-Gama, Goa-403 802

85849/ 03 /E8 15 Oct 2024

ITEM RATE TENDER AND CONTRACT FOR WORK	S REQUIRED IN THE EXECUTION OF
REPAIR AND MAINTENANCE OF DG SETS O	OF CAPACITY 1010 KVA AT MRSS
VAJRAKOSH, 625 KVA AT DSS 16 AT SITE 'E' A	ND 750 KVA AT NCN UNDER GE(SB)
KARWAR.	
1. M/s	is hereby authorised to
tender for the above work. The technical and price bid (0	
www.defproc.gov.in on or before due date as per the	critical dates of bid.
2. Any correspondence concerning to this tender sho	uld be addressed as indicated at the top of
this sheet quoting the reference as given.	
"THE PRESIDENT OF INDIA DOCC NOT BU	ND HIMSELF TO ACCEPT THE
"THE PRESIDENT OF INDIA DOES NOT BII	
LOWEST OR ANY TE	NDERS."
	Appointment:.DCWE(Contracts)
	Signature of the Officer issuing
	the tender documents:
	Dated :

(Signature of Contractor)
Dated:

CA NO: CWE/NAVY/VASCO/

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

NAME OF WORK: REPAIR AND MAINTENANCE OF DG SETS OF CAPACITY 1010 KVA AT MRSS VAJRAKOSH, 625 KVA AT DSS 16 AT SITE 'E' AND 750 KVA AT NCN UNDER GE(SB) KARWAR.

SCHEDULE `A' NOTES

- The entire work included under this contract shall be completed within 270 days from the date of handing over of site. The work included under the scope lies at GE(SB) KARWAR.
 If the tenderers desired to visit to sites and to know the approximate quantities of each item required for each area, they may approach GE(SB) KARWAR.
- 2. For Schedule of items refer BOQ sheet in excel format.
- 3. The quantities shown in Schedule (BOQ sheet) column 3 are approximate and inserted as a guide only. They do not constitute any guarantee of the ultimate quantities which will be ordered on the contractor. They shall not however be varied beyond the limits laid down in condition 7 of IAFW-2249, General conditions of contract.
- The Bidder shall enter the unit rate in column 5 of BOQ in MES Portal www.defproc.gov.in. The unit rates in figure shall only be entered by bidder and rate in words will be generated by the system.
- 5. 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 works.
- 6. Unit rate quoted by the tenderers in Sch 'A'/BOQ will be deemed to allow for all minor extras and constructional details which are not specifically given in Sch 'A'/BOQ or in particular specifications but are essential to the execution of work in a workman like manner and keeping with standard Engineering practice. In case of difference of opinion as to whether or not a certain items of work constitute "Minor extras and constructional details" included in the contractor's price between the contractor and the GE, decision of the Accepting Officer shall be final, conclusive and binding on all.
- 7. Tenderers shall be deemed to have inspected the site and ascertained for themselves the works to be carried out for the full and entire completion of the work all as specified.
- 8. The description of Schedule 'A' items in BOQ sheet (Excel format) shall be read in conjunction with particular specifications.
- 9. All the items unless otherwise described as "supply only", "Fixing only" shall be deemed to be inclusive of "Materials and labour" complete (Supply and fix, material and labour etc).
- 10. The unit rates quoted by the contractor in Col 5 shall be NET inclusive of cost of supply, laying, fixing, commissioning and testing, insurance, freight, GST,EPF and other levies payable on works contract, custom duty, labour welfare cess@ 1% of contract sum, overhead and profit ,etc as may be required. No claims for extras what so ever shall be entertained on any account as the unit rate quoted by the contractor shall be deemed to be all inclusive.

CA NO: CWE/NAVY/VASCO/

SCHEDULE - `A' NOTES (CONTD.....)

11. The following abbreviations have been used in schedule A/BOQ and tender documents:-

OF 2024-25

(a) RM - Running Metre

(b) Kg - Kilogram (c) Sqm - Square Metre (d) Cum - Cubic Metre

(e) Qtl - Quintal

(f) JE - Junior Engineer

(g) AGE - Assistant Garrison Engineer

(h) GE Garrison Engineer

(j) CWE - Commander Works Engineers

(k) CE - Chief Engineer
 (l) Lab - Laboratory
 (m) Govt - Government
 (n) Sch - Schedule
 (o) Dept - Department

(p) MD - Ministry of Defence(q) EIC - Engineer-in-Charge

(r) DRG/drg - Drawing

(s) SSR - Standard Schedule of Rates

(t) M&L - Material and labour (u) S&F - Supply and fix

- 12. All royalty and cess charges for Bricks, stone aggregate, sand, other boulders including all earthwork done at site of work and other allied items for which royalty and cess charges are levied by State Government as per statutory rules/law shall be deemed to be included in unit rates quoted by contractor for the items of Sch `A'(BOQ sheet in excel) and no claim whatsoever on this account is admissible. The contractor shall be solely responsible to pay necessary royalty and cess charges and the same shall be recovered from any payment due to the contractor and remitted to the State revenue authorities in case of default/ dispute of any or on receipt of demand notice from them.
- 13. Since the work lies in Military area, carrying camera enabled mobile phone by contractors or their agents are strictly prohibited. Also all vehicles brought by contractors in connection with execution of work shall possess valid papers and license and shall produce for security check. The contractor, his agents, work people etc shall adhere to the security instructions as laid down in the contract conditions strictly. No claim whatsoever for observance of restrictions imposed at site shall be admissible at any stage of work.
- 14. Contractors quoted rate shall be deemed to include for cost of testing of materials as per relevant IS codes.
- 15. Net Contract sum shall be derived by deducting amount of Schedule of credit.
- 16. <u>DEFECT LIABILITY PERIOD</u>: In term of Condition 46 of IAFW 2249 General Condition of Contract(as amended vide amendment No 49) of the defect liability period for the subject work shall be **12 calendar Months** after the works have been handed over to Government.

Contd...

CA NO : CWE/NAVY/VASCO/

SCHEDULE - `A' NOTES (CONTD......)

17. PERFORMANCE SECURITY (Refer Condition 19 of IAFW 2249 General Condition of Contract)

- 17.1 Immediately after the receipt of the letter of Acceptance, the successful contractor shall deliver to the Accepting Officer a Performance Security in any of the forms given below for an amount equivalent to 5% of the contract sum.
 - (i) A Bank Guarantee in the prescribed form.
 - (ii) Government Securities, FDR or any other Government instruments stipulated by the Accepting Officer.
- 17.2 Please note that Work order No.1 shall be placed by GE only after submission of Performance Security of adequate value by the contractor.
- 17.3 The Period of validity of the Bank Guarantee Bond against Performance Security shall be initially valid up to the stipulated date of expiry of Defects Liability Period plus minimum 60 days beyond that. In case final bill is not paid during this period, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time required for payment of final bill.

18. PRECAUTIONS ON ACCOUNT OF COVID-19 OUTBREAK

18.1 In view of COVID-19 alerts various restrictive instructions issued concerned authorities from time to time. Hence additional precautions essential for the work shall be taken by the contractor by way of provisioning of masks, hand sanitizers, gloves etc to workmen and all local instructions issued by the concerned authorities and station authorities shall be complied with all relevant safety precautions covered under Model Rules for the protection of health and sanitary arrangement for workmen (Annexure 'C') of IAFW-2249) shall be strictly followed. Nothing extra is admissible on this account

19. REQUIREMENT OF ENGINEER'S AND T&P, MACHINERY & TRANSPORT

19.1 The Contractor will be required to strictly ensure engagement of engineers and deployment of 'T&P' Machinery & Transport' as stipulated in the contracts or as specified in General Conditions of Contract IAFW 2249 .Inadequate engagement of engineers / deployment 'T&P', Machinery & Transport' as per contract conditions shall be considered as serious lapse attracting ban / removal / downgrading/ debarment of the Firm / Company.

20. e-MB for Payment of RAR/ Final Bill

- 20.1 Existing procedure of physical recording of measurements In MB and payment of RAR's / firal-bills to the contractor is to be replaced by e-MB.(e-measurements Book). The contractor should refer the url https://mes.bisag-n.gov.in for registration, submission, approval of RAR / Final bills payments.
- 20.2 The payment of RAR/final-bills will be done solely based on e-MB process & physical recording of measurements will not be allowed. Any expenses too login taking out Prints of e-MB measurement, photos in support of e-measurement will be deemed to be included in the quoted rate of contractor. However the above eMB procedure will be followed as per latest policy/instruction being received as Bid opening date of Tender.
- 20.3 The the role of JE, AGE, GE, AO & Contractor for adopting e-MB process in details given in Electronic Measurement Book Manual Version 1.0 published by E-In-Cs Br New Delhi available on e-governance site and shall be referred for any clarification

DCWE (Contracts) For Accepting Officer CA NO: CWE/NAVY/VASCO/

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

SCHEDULE OF CREDIT

NOTES:-

- 1. All serviceable/ unserviceable materials likely to be retrieved from dismantling/ demolition shall become the property of the contractor.
- 2. Material obtained from dismantling of any item but not included in Schedule of Credit shall be property of Government and shall be returned to the MES store yard and all unserviceable materials to be disposed off from the site without any extra cost to the Department.
- 3. The quantities indicated in Schedule of Credit under col 4 are provisional. The final amount of the recovery shall be worked out based on the actual quantity obtained from dismantling. The tenderer will have no claim on this amount if there is any variation in actual quantities and those mentioned in 'Sch of Credit' under col 4 and the cost indicated and there in the actual cost.
- 4. The final amount of the recovery shall be worked out based on the actual quantity obtained from dismantling. The tenderer will have no claim on this amount if there is any variation in actual quantities and those mentioned in 'Sch of Credit' under col 4 and the cost indicated and there in the actual cost.
- 5. The amount of credit shall be accounted for while making Running Account Payments irrespective of the fact whether the contractor has removed the materials from site or not.
- 6. Materials shall be removed from the site only after the amount of work done due to the contractor is equal to the amount of credit material with the prior permission of the Engineer-in-Charge
- 7. Tenderer is advised to visit the site of work to ascertain the quality of materials likely to be retrieved from demolition/ dismantling as mentioned in the BOQ/Schedule `A'. No claim whatsoever will be entertained at a later stage regarding quality of materials likely to retrieved from dismantling/ demolition & becoming contractor's property.
- 8. The rate fixed by Department is final and the contractor shall have no claim whatsoever against the Department if actual rate turns out to be different from the rates inserted by the Department.

SI.No.	Brief Description of Item	Unit	Qty	Rate	Amount
1	2	3	4	5	6
1	Old unsv Oil filter element	Each	26.00	5.00	130.00
2	Old UNSV Air cleaner assy	Each	15.00	10.00	150.00
3	Old unsv Fuel filter elements	Each	11.00	10.00	110.00
4	Old unsv V-belts	Each	11.00	10.00	110.00

SI.No.	Brief Description of Item	Unit	Qty	Rate	Amount			
1	2	3	4	5	6			
5	Old UNSV Fuel pipe line	Each	2.00	10.00	20.00			
6	Old unsv AVR 24 Volts	Each	2.00	100.00	200.00			
7	Old unsv oil seal assembly	Each	4.00	2.00	8.00			
8	Old UNSV Battery unit	Each	5.00	1000.00	5000.00			
9	Old UNSV Battery terminal	set of two	4.00	3.00	12.00			
10	Old UNSV Battery connection cables	set of two	4.00	10.00	40.00			
11	Old burntout engine oil	Ltrs	1300.00	12.00	15600.00			
12	old unsv Solenoid coil assembly	Each	4.00	50.00	200.00			
13	Old unsv PCB assembly	Each	1.00	300.00	300.00			
Grand Total ²¹								

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

GENERAL SUMMARY

1.	Total Amount of Sch 'A'/BOQ brought forward	
	from Serial Page No 31	Rs
2.	Total Amount of Schedule of Credit brought forward from Serial Page No 32	Rs. 21,880.00 (Minus)
3.	CONTRACT SUM	Rs
(Rupe	ees	
	(Signature of contractor) Dated	DCWE (Contracts) For Accepting Officer

SCHEDULE 'B'

ISSUE OF MATERIALS TO THE CONTRACTOR

(SEE CONDITION 10 OF IAFW 2249)

SI No	Particulars	materia	als etc will ued to the	Place of issue by name	Remarks				
		Unit	Rate						
1	2	3	4	5	6				
	NIL								

SCHEDULE 'C'

LIST 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.	Qty.	Particulars of T&P	Details of MES crew supplied	Hire charges per unit working	Standby charges per unit per off	Place of issue by name	Remarks			
				day	day					
	NIL									

SCHEDULE 'D'

TRANSPORT TO BE HIRED TO THE CONTRACTOR

(See Condition 16 and 35 of IAFW-2249)

SL No.	Qty.	Particulars	Rate per unit per working day	Place issue name	of by	Remarks				
	NIL									

Signature of	Contractor
Dated	

TENDER

To.

The President of India

Having examined and perused the following documents: -

- 1. Specifications signed by EE (QS&C), DCWE(Contracts)
- 2. Blank.
- 3. Schedule 'A', 'B', 'C' and 'D' attached hereto.
- 4. MES Standard Schedule of Rates 2009 part-I specifications including amendments No.1 to 3 and Standard Schedule of Rates (SSR) 2020 part-II rates including amendments No.1 to 122 (hereinafter and in IAFW-2249 referred to MES Schedule).
- 5. General Conditions of Contracts IAFW-2249 (1989 Print) together with errata 1 to 20 and amendments 1 to 49.
- WATER CONDITION 31 OF IAFW-2249 GENERAL CONDITIONS OF CONTRACTS
 Water will not be supplied by MES.
- 7. Should this tender be accepted, I/we Agree,

*(a) That the sum of Rs	
(Rupees.	only) forwarded as earnest
money shall either be returned as part of the security	deposit or be refunded by the
Government on receipt of the appropriate amount of Secu	urity 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 or referred to therein at the item rates contained in the aforesaid Schedule 'A'/BOQ from or such other rates as may be fixed under the provision of condition 62 and to carryout such deviation as may be ordered vide condition 7 of IAFW-2249 (1989 print) upto a maximum of (+/-) 10 % (Ten percent) and further agree to refer all disputes as required by condition 70 of IAFW-2249 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 Surveyor (India) recognised by the Govt of India, to be appointed by Chief Engineer Navy Mumbai or in the absence the officer officiating as Chief Engineer Navy Mumbai ,whose decision shall be final conclusive and binding

^{*} To be deleted where 'NOT 'applicable.

CA NO : CWE/NAVY/VASCO/

OF 2024-25

Serial Page No.36 In lieu of IAFW-1779A (Revised 1955)

Signature-	(With Name in BLOCK CAPITAL LETTER)
	in the capacity ofduly
authorised	to sign the tender for and on behalf of
(IN BLOCK	(LETTERS).
Date:	
	Postal Address :
	Telephone No
	<u>ACCEPTANCE</u>
	alteration(s) have been made in these documents and as evidence that these
alteration(s) were made before the execution of the Contract Agreement they have been initialed
by the con	tractor and Shri DCWE(Contracts). The said Officer /
Officers is/	are hereby authorised to sign and initial on my behalf on the documents forming part of
this contrac	ct. The above tender was accepted by me on behalf of the President of India at the rates
contained i	n the Schedule `A'/BOQ for Rs(Rupees(Rupees
	only) onday of 2024
Signature -	day of2024

COMMANDER WORKS ENGINEERS (NAVY) VASCO-DA-GAMA, GOA - 403 802 ACCEPTING OFFICER (For AND ON BEHALF OF THE PRESIDENT OF INDIA)

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

ITEM RATE MEASURABLE IAFW-1779A

1.	A copy of th	e GENERAL	CONDITIONS	OF CONTRAC	CTS (IAFW - :	2249 1989	Print) with
errata	1 to 20 and	I amendments	s 1 to 49 has	been supplied	I to me / us*	and is in	my / our*
posses	ssion. I / We	* have read a	and understood	the provisions	contained in	the tender	r aforesaid
GENE	RAL CONDIT	TIONS OF CO	NTRACTS bef	ore submission	of this tender	and I/we*	shall abide
by the	terms and co	nditions there	of, as modified	, if any elsewhe	ere in these te	nder docum	nents.

2. l	It is hereby further	er agreed and d	leclared by	me / us* th	at the GEN	NERAL CON	IDITIONS	3 OF
CONTR	RACTS (IAFW-22	249-1989 Print)	including of	ondition 70) thereof p	ertaining to	settleme	nt of
dispute	es by arbitration,	containing 33	pages (SI	page Nos	37 to 69)	with errata	1 to 20	and
amend	ments No.1 to 4	9 containing 26	pages (SI	page Nos.	. 70 to 95)	shall form	part of t	hese
tender	documents.	_			·			

*Delete whichever is not applicable.

CA NO: CWE/NAVY/VASCO/

DCWE(Contracts)
For Accepting Officer

(Signature of Contractor)
Date:-

CA NO : CWE/NAVY/VASCO/ OF 2024-25 Serial Page No. 96 to 105

SCHEDULE OF MINIMUM FAIR WAGES PAYABLE BY THE CONTRACTORS UNDER FAIR WAGES ACT (See condition 58 of IAFW-2249)

It is hereby agreed that the 'Schedule of Minimum Fair Wages' as published vide Government of India / State Govt./ Union Territory latest Notification forms part of these tender documents. My/ Our signature hereunder amounts to my / our having read and understood the provisions contained therein and I/We agree that I/We shall abide by the same and that aforesaid documents form part of this tender.

DCWE(Contracts)
For Accepting Officer

(Signature of Contractor)
Date:-

CA NO: CWE/NAVY/VASCO/ OF 2024-25 Serial Page No.106

NAME OF WORK: REPAIR AND MAINTENANCE OF DG SETS OF CAPACITY 1010 KVA AT MRSS VAJRAKOSH, 625 KVA AT DSS 16 AT SITE 'E' AND 750 KVA AT NCN UNDER GE(SB) KARWAR.

SPECIAL CONDITIONS

1.0 **GENERAL**

- 1.1.1 The following conditions shall be read in conjunction with General Conditions of Contracts IAFW-2249 (1989 Print) and IAFW-1779A (Revised 1955) including errata and amendments thereto.
- 1.1.2 If any provision in these special conditions is at variance with the provisions of the above mentioned documents, provisions in these special conditions shall be deemed to take precedence there over.

1.2 VISIT TO SITE

The tenderer is advised to inspect the site, by prior appointment with Garrison Engineer, to ascertain the nature of site, access thereto, local facilities for procurement of materials, working hours and labour rates prevalent in the area and all other matters affecting his price in the tender for execution and the completion of the work. The tenderer shall be deemed to have full knowledge of the site (s) whether or not he actually visits the site. For the purpose of collection of materials and execution of the works, the site will be considered as lying in area as mentioned in clauses hereinafter.

1.3 <u>SECURITY AND PASSES</u>

- 1.3.1 Tenderers attention is invited to condition 25 of IAFW-2249. He shall employ only Indian Nationals after verifying their antecedents and loyalty. He shall ensure that no person of doubtful antecedents and nationality is, in any way, associated with work. If for reasons of technical collaboration or other consideration, the employment of any foreign national is unavoidable, the Contractor shall furnish full particulars to this effect to the Accepting Officer at the time of submission of his tender. The Contractor shall on demand by the Engineer-in-Charge, submit a list of his agents, employees and work people concerned and shall satisfy the Engineer-in-Charge as to the bonafide of such people.
- 1.3.2 The Engineer-in-Charge shall, at his discretion has the right to issue passes, as per rules and regulations of the installation/area in force, to control the admission of the Contractor, his agents, and employees and work people to the site of the work or any part thereof. Passes shall be returned on any time on demand by the Engineer-in-Charge or the authorities concerned and in any case on completion of work.
- 1.3.3 The Contractor and his agents, employees and work people shall observe all the rules promulgated by the authority controlling the installation/area in which the work is to be carried out e.g. prohibition of smoking and lighting, fire precautions, search of persons at entry and exit, keeping to specific routes, observing specified timings etc. Nothing extra shall be admissible for any man hours etc lost on this account.

1.4 MATERIALS AND SAMPLES

- 1.4.1 Refer condition 10 of IAFW-2249 and clause 1.6 & 1.7 of MES Schedule.
- 1.4.2 Materials provided by the Contractor for incorporation in the works shall, unless otherwise specified in the particular specifications be ISI marked. IS means Indian Standards as

issued by the Bureau of Indian Standards. Wherever in the specifications `IS' is referred to, it means the edition with all amendments, current on the due date of receipt of the tender documents.

- 1.4.3 The tenderer is advised to inspect other materials, which are displayed in the office of the GE, before submitting his tender. The tenderer shall be deemed to have inspected the samples and satisfied himself as to the nature and quality of materials, he is required to incorporate in the work irrespective of whether he has actually inspected them or not. The materials to be incorporated in the work by the Contractor shall be ISI marked or shall be equal or superior in quality to sample displayed and shall comply with the specifications given hereinafter.
- 1.4.4 The Contractor shall produce samples of all materials, articles, fittings, accessories etc. that he proposes to use and get these approved in writing by the Garrison Engineer within reasonable time from the date of commencement of work as per work order. The materials, articles, etc. as approved, shall be labelled as such and shall be signed by the GE and the Contractor's representative. These samples shall be kept in the custody of the Garrison Engineer/Engineer-in-Charge.
- 1.4.5 The Contractor shall not procure materials unless the samples are first got approved by the Garrison Engineer. All items/materials for which approval is obtained from the GE shall be recorded in MBs as 'Not to be abstracted'
- 1.4.6 The brand of all materials, articles, fittings, etc. approved together with the names of the manufacturers and firms from which supplies have been arranged shall be recorded.
- 1.4.7 (a) A list of items/articles, which are having ISI certification mark and are readily available, is given in Appendix-`B'-"List of Makes". It is mandatory that ISI certified marked items/articles as listed in Appendix-`B' shall be incorporated in the work.
 - (b) The Govt. reserves the right to get the items/articles listed in Appendix-'B' tested in approved laboratories. The cost of sample for testing shall be borne by the Contractor and the remaining expenses such as cost of transportation of sample to laboratory and testing fee shall be borne by the Govt., if the test result is found to be satisfactory. However, in the event of the test result being found unsatisfactory, the entire cost of testing including cost of sample shall be borne by the Contractor. Government may get more than one sample of the same materials tested and the cost of such testing shall be borne by the Government.

1.5 PROPRIETORY/ BRANDED MATERIAL

- 1.5.1 Proprietary/branded materials such as cement, steel, paints, chemicals for anti-termite treatment, bitumen, waterproofing compound etc, quantity of which cannot be checked after incorporation in the work, shall when collected at site, be recorded in measurement book and signed both by the Engineer-in-Charge and the Contractor as a check to ensure that the required quantity has been brought at site for incorporation in the work.
- 1.5.1 Materials brought to site shall be stored as directed by the Engineer-in-Charge and those already recorded in measurement book shall be suitably marked for identification.
- 1.5.2 The Contractor shall obtain proprietary/ branded materials from manufacturers or from manufacturer's authorised stockists where such authorised stockist has been appointed. The Contractor shall, on demand, produce original receipted vouchers/ invoices of suppliers to the Garrison Engineer, to ensure that the Contractor has actually brought the required quantity of the materials from the authorised dealers/manufacturers and also to be find out the rates thereof. The original vouchers/ invoices shall be defaced and stamped by the Engineer-in-Charge, indicating contract number, name of work, under his dated signature.

The Contractor shall ensure that the materials are brought to site, in original sealed containers/ packing bearing manufacturer's marking except in the case of the requirement of material(s) being less than the smallest packing.

- 1.5.3 PRODUCTION OF VOUCHERS Contractor shall produce purchase vouchers from the manufacturers and/or their authorised agents for the full quantity of following materials to the Garrison Engineer, as applicable as a prerequisite before submitting claims for payment for advances on account of the work done and/or materials collected in accordance with condition 64 of General Conditions of contracts (IAFW-2249). The Garrison Engineer will check the same before making RAR payment against these items. Production of purchase vouchers for these items is mandatory. The Garrison Engineer will not make payment against the items listed below in RARs unless the purchase vouchers for the same have been produced to him and verified by him:
 - (a) DG SPARES.
 - (b) Cable 1.1Kv
 - (c) Multi Sensor Detector.
 - (d) Cables
 - (e) Batteries
 - (f) V-belt
 - (g) Engine Oil.
 - (h) Oil Filter Element.
 - (i) Air Cleaner Element.
- 1.5.5 The vouchers shall be endorsed, dated and initialled by the Engineer-in-Charge giving the contract number and name of work. A certified copy of each of such vouchers signed both by the Engineer-in-Charge and the Contractor shall be kept on record.
- 1.5.6 When the cost of each category of material is less than Rs.1,000/- production of voucher may not be insisted upon, if the Garrison Engineer is otherwise satisfied with the quality & quantity of material brought by the Contractor.
- 1.6 <u>TIME AND PROGRESS (CPM CHART)</u>
- 1.6.1 The CPM Chart to be prepared as per Condition 11 of IAFW-2249 (General Conditions of Contracts) shall consist of detailed net work analysis and a time Schedule. The critical path net work will be drawn jointly by the Garrison Engineer and the Contractor soon after acceptance of the tender. The Contractor so as to finish the work within the stipulated time will do the time scheduling of the activities. On completion of the time schedule, firm calendar date Schedule will be prepared and submitted by the Contractor to the Garrison Engineer who will approve it after due scrutiny. The Schedule will be submitted in four copies within two weeks from the date of handing over the site.
- 1.6.2 During the currency of the contract, the Contractor is expected to adhere to the time schedule and this adherence will be a part of the Contractor's performance under this contract. During the execution of work, the Contractor is expected to participate in the reviews and updating of the net work undertaken by the GE. These reviews may be undertaken at the discretion of the Garrison Engineer either as a periodic appraisal measure or when the quantum of work ordered on the Contractor is substantially changed through deviation orders or amendments. Any revision of the time schedule as a result of the review will be submitted by the Contractor to the Garrison Engineer within a week for his approval after due scrutiny.

The Contractor will adhere to the revised schedule thereafter. In case of the Contractor disagreeing with the revised schedule the same will be referred to the Accepting Officer, whose decision will be final, conclusive and binding. Garrison Engineer's approval to the revised schedule resulting in a completion date beyond the stipulated date of completion shall not automatically amount to a grant of extension of time.

- 1.6.3 Extension of time shall be considered and decided by the appropriate authority mentioned in condition 11 of IAFW-2249 and separately regulated.
- 1.6.4 The Contractor shall mobilise and employ sufficient resources to achieve the detailed schedule within the broad frame work of the accepted methods of working and safety.
- 1.6.5 No additional payment will be made to the Contractor for any multiple shift work or other intensive methods contemplated by him in his work schedule, even though the department approves the time schedule.

1.7 <u>SECURITY OF CLASSIFIED DOCUMENTS</u>

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

1.8 FAIR WAGES

The Contractor shall have no claims, whatsoever if on account of any rules and regulation or otherwise he is required to pay wages in excess of the fair wages shown in the schedule of wages under condition 58 of General Conditions of Contracts IAFW-2249.

1.9 PERIOD FOR KEEPING TENDER OPEN

The tender shall remain open for acceptance for a period of 60 (Sixty) days from bid submission end date.

1.10 RECORD OF CONSUMPTION OF CEMENT

- 1.10.1 For purpose of keeping record of cement brought by the Contractor and consumed in works, the Contractor shall maintain a pucca bound register, with serially numbered pages with all pages initialled by the Engineer-in-Charge against numbering, in the form approved by the Engineer-in-Charge showing daily receipts of cement brought by the Contractor, quantity used in works and balance in hand. The register shall be signed daily by representative of MES and the Contractor in token of their verification of its correctness and will be checked by the Engineer-in-Charge, at least once a week and on the days cement is brought by the Contractor.
- 1.10.2 The aforesaid provision will not however, absolve the Contractor of his responsibility to justify the consumption of cement at the time of finalisation of his accounts.
- 1.10.3 The register shall be kept at site in the safe custody of the Contractor during progress of the work and he shall on demand produce the same for verification by inspecting officers. On completion of the works cement register shall be handed over to the Engineer-in-Charge for record with MES.
- 1.11 <u>ROYALTIES</u> Delete the existing condition 14 of IAFW-2249 and insert the word "BLANK" in lieu.

1.12 LAND AND LABOUR ACCOMMODATION, AND STORES AND WORKSHOP ETC.

1.12.1 Delete lines 5 to 9 of Para 1 of Condition 24 of General Conditions of Contracts IAFW-2249 i.e. from "In the event of area of land" to "land allotted to him" and insert as under:

"The Contractor shall be allotted, the area as marked on the layout plan for the purpose of erection of temporary workshop, stores for which he shall pay the nominal rent of Rs.1/- per year or part of a year. No MD land is available for accommodation of labour and canteen in restricted area for which the Contractor shall make his own arrangement at his own expense."

1.12.2 The Contractor will not be allowed to quarry/ win earth from MD land.

1.13 CO-OPERATION WITH OTHER AGENCIES

- 1.13.1 The Contractor shall permit free access and generally afford reasonable facilities to other agencies or departmental workmen engaged by Government to carry out their part of the work, if any, under separate arrangements.
- 1.13.2 The Contractor's prices shall be deemed to cater for all the above contingencies and nothing extra shall be admissible on this account.

1.14 LABOUR (REGULATION & ABOLITION) ACT

- 1.14.1 Contract labour (Regulation & Abolition) Act 1970 is applicable to MES Contractors. Rates quoted by the tenderer shall be deemed to take into account the cost, etc., required to comply with the provisions contained in the said act and the rules framed under the said act.
- 1.14.2 Refer Condition 58 of IAFW-2249. The "Schedule of Minimum Wages" as published vide Govt. Of India Notifications, as available on date of receipt of tender forms part of these tender documents. However, 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.
- 1.14.3 The fair wages referred to in condition 58 of IAFW-2249 will be deemed to be the same as the minimum wages payable as referred to above.
- 1.14.4 The Contractor shall have no claim whatsoever, if on account of local factors and/or regulations, he is required to pay the wages in excess of minimum wages as described above during the execution of work.

1.15 WATER SUPPLY

- 1.15.1 Refer condition 31 of General Conditions of Contracts (IAFW-2249) and clause 1.13 of MES Schedule
- 1.15.2 Water will NOT be supplied by the MES & the Contractor shall make his own arrangements for water for the entire work. However, the Contractor if he so desires, will be permitted to drill bore well(s) in the area at his own cost. The well(s) dug/drilled by the Contractor shall become the property of the Govt. without any extra cost. The Contractor shall at his own cost, get the water tested from recognised Govt. Laboratory about the portability of water and produce the certificate to the GE.

1.15.3 Water used for mixing and curing shall be generally potable water, clean and free from impurities viz. oils, acids, alkaline salts, sugar, organic materials or other substance that may be deleterious to concrete or steel and also conform to IS-456.

1.16 ELECTRIC SUPPLY

- 1.16.1 In the case the Contractor desires to buy electricity from the MES and if the same is available for supply with the department he shall be charged for the electric energy consumed at the following rates:
 - (a) At Rs. 10.70 per unit for lighting and power
- 1.16.2 Electric supply required for works shall be made available by the MES at the points marked on site plan. The main switch and KWH meter to register the electric energy supplied shall be provided and installed by the MES. The Contractor shall provide all necessary connections, cables, fittings etc. from main switch in order to ensure a proper and suitable supply of electricity for the execution of work.
- 1.16.3 MES do not guarantee availability/continuity or supply of full quantity of electricity as required/demanded by the Contractor. The electricity shall be supplied to the extent available with the department. No compensation whatsoever shall be allowed for supply becoming intermittent or for break down in the system.
- 1.16.4 The GE or his representative shall be free to inspect all the power consuming devices or any electric lines provided by the Contractor. Any devices or electric lines provided by the Contractor, which are not to the satisfaction of the GE shall be disconnected from the supply, if so directed by the GE.

1.17 BLANK

1.18 MINOR CONSTRUCTIONAL DETAILS

Lump sum quoted by the Contractor shall be deemed to allow for all minor constructional details which are not specifically shown on drawings or given in the Particular Specifications but are essential for the execution of work and services in workman like manner and sound construction. In case of difference of opinion between the Contractor and the Garrison Engineer as to whether or not certain item of work constitutes `Minor Constructional Details' which is deemed to have been included in the Contractor's quoted lump sum, the decision of the Accepting Officer shall be final, conclusive and binding.

1.19 STACK MEASUREMENTS

- 1.19.1 Refer Special Conditions 20A.1.2 of MES Schedule Part II.
- 1.19.2 Soling, Stone chipping for premixed carpet, etc. shall be stacked at suitable level places and their measurements recorded in measurement book and signed and dated by the MES representative and the Contractor as a check to ensure that the required quantities have been brought at site for incorporation in the work. No deductions shall be made in the stack measurement for unevenness of ground.
- 1.19.3 This provision, however, shall not absolve the Contractor from providing more materials required to complete the work to the required specification and to repair potholes, cracks, etc. that may occur during rolling.

1.20 <u>SALES TAX CONSEQUENT UPON THE CONSTITUTION (FORTYSIXTH AMENDMENT ACT 82)</u>

- (a) Tendered rates shall be inclusive of all taxes and levies payable under the respective statute including GST,Sales Tax/ VAT imposed on transfer of the right to use any goods for any purpose, Act of the State Government promulgated consequent to the 46th amendment to the constitution.
- (b) Tenderer shall note that no separate amount is to be indicated for the above mentioned Sales Tax /VAT payable to the Government, in his tender. The element of this Sales Tax shall be included by the tenderer in his lump sum/unit price quoted.
- (c) Any tender which proposes any alteration to the above condition and/or which proposes the element of Sales Tax / VAT separately over and above the quoted lump sum/unit price will be treated as conditional tender and is liable for rejection.

1.21 <u>RE-IMBURSEMENT / REFUND ON VARIATION IN "TAXES DIRECTLY RELATED TO CONTRACT VALUE</u>".

- (a) The rates quoted by the Contractor shall be deemed to be inclusive of all taxes/cesses viz, GST, duties, Royalties, Octroi & other levies payable under the respective statutes. No reimbursement/refund for variation in rates of taxes, duties, Royalties, Octroi & other levies, and/or imposition/abolition of any new/existing taxes/cesses, duties, Royalties, Octroi & other levies shall be made except as provided in sub Para here-in-below.
- (b) The taxes /cesses which are levied by Govt at certain percentage rates of Contract Sum/Amount shall be termed as "taxes directly related to Contract value" such as GST, 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 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.
- (c) The contractor shall, within a reasonable time of his becoming aware of variation in percentage rates and / or imposition of any further "taxes directly related to Contract value", give written notice thereof to the GE stating that the same is given pursuant to this special Condition, together with all information relating thereto which he may be in a position to supply. The Contractors shall submit the other documentary proof / information as the GE may require.
- (d) The contractor shall, for the purpose of this condition keep such books of account and other documents as are necessary and shall allow inspection of the same by a duly authorized representative of Govt, and shall further, at the request of the GE furnish, verified in such a manner as the GE may require, any documents so kept and such other information as the GE may require.

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(e) 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".

1.22 <u>ADVANCES ON ACCOUNT OF NON-PERISHABLE MATERIALS</u>

The Contractor may be paid advance on account to the full value of the under mentioned materials(as applicable) only, brought on the site, on his furnishing guarantee bond(s) from a scheduled bank for the amount of the retention money, should otherwise be recoverable from him under the contract:

- (i) Factory made panelled shutters
- (ii) Factory made Aluminium windows/ ventilators
- (iii) Sanitary fittings
- (iv) Builders hardware fittings (iron mongery)
- (v) Electrical cables/ wires/ fittings/ fixtures
- (vi) Water supply pipes, fittings/ fixtures
- (vii) All other non-perishable materials as decided by the GE

The Bank Guarantee Bonds shall be executed for a period and on a form as directed by the Accepting Officer. The Contractor shall further arrange to extend the period of Guarantee Bond if and when necessary, as directed by the Accepting Officer or shall furnish fresh guarantee bond of similar value. It will be noted that advance on account to the full value to materials brought on the site is permissible only in respect of fittings and fixtures and other manufactured items which do not lose their identity. Materials like bricks, aggregate, precast concrete and similar items shall not be taken in the list.

1.23 <u>CLEANING DOWN</u> (Refer Condition 49 of IAFW-2249)

The Contractor shall clean all floors, walls, remove cement, lime, paint marks/drops etc clean the joinery, glass panes etc, touch up all painters work and carry out all other necessary items of work in connection therewith and leave the whole premises clean and tidy before handing over the building. No extra payment shall be claimed by the Contractor for this operation.

1.24 LABEL OF ARTICLES

The Contractor shall provide aluminium LABEL of not less than 75mmx25mm and of adequate gauge with brass screws on articles like transformer, panel board, generating set etc indicating there on the names of the firm, the contract No. and year as directed by the GE. The cost of such aluminium labels shall be deemed to be included in the quoted rates against respective item of Schedule-`A'/BOQ.

1.25 <u>D</u>AMAGE TO STRUCTURE

Any damage done to the structure built or being built by other agency during execution of work shall be made good by the Contractor at his own cost and the site

of work left clean and tidy on completion. Rectification, reinstatement, making good etc shall conform to the standard of materials originally used in the work and finished

work shall match with existing work in all respect to the entire satisfaction of the GE. In case of any dispute on this account the matter shall be referred to the CWE whose decision in writing shall be final, conclusive and binding.

1.26 <u>CONDITIONS OF WORKING</u>:

1.26.1 CONDITIONS OF WORKING IN RESTRICTED AREA

The entire work under this contract lies in "RESTRICTED AREA". The conditions of working in restricted area are stipulated as under:

- (a) <u>Definition</u>: Restricted area(s) for the purpose of this contract means the area(s) declared as such by the units as shown in site plan/described in Special Condition.
- (b) <u>Verification of antecedents</u>: Verification of antecedents of Contractor's representatives / labours deployed at site in connection with execution of work under the contract, as per security requirement of User Unit/installation shall be the responsibility of the Contractor and all expenses in connection with verification of antecedent by Police Authority / Security Agency shall be borne by the Contractor.
- (c) <u>Visit to site within the Restricted Area</u>: Permission to enter the restricted area(s) at time of submission of tenders can be obtained, through the Garrison Engineer. Tenderers are advised to send prior intimation to the Garrison Engineer about the particulars of the agents, representative etc., if any, the date and the time of their proposed visits so that necessary arrangement may be made by the GE, to secure admission. Whether tenderers visit the site or not they shall be deemed to have full knowledge of the restrictions on entering in, exit from and working within the restricted area.
- (d) Entry and Exit: The Contractor/ his agent(s)/ representative(s)/ workmen etc., and his materials carts, trucks or other means of transport, etc., will be allowed to enter through and leave from only such gate or gates and at such times as the GE or Authorities in charge of the restricted area may at their sole discretion permit to be used. The Contractor's authorised representative is required to be present at the places of entry and exit for the purpose of identifying his carts, trucks, etc, to the personnel-in-charge of the security of the restricted area.

(e) Identity Cards or Passes:

- (i) The Contractor, his agents and representatives are required individually to be in possession of an identity card or pass duly verified by the GE. The identity card or pass will be examined by the security staff at the time of entry into or exit from the restricted area, and also any time or number of times inside restricted area.
- (ii) <u>Identity of Workmen</u> Every workman shall be in possession of an Identity Card. The identity cards shall be issued after a thorough investigation of the antecedents of the labourers, by the Contractor and attested by the officer-in-charge of the units concerned in accordance with the standing rules and regulations of the unit.
- (iii) The Contractor shall be responsible for conduct of his workmen, agents or Representatives.
- (f) <u>Search</u> Thorough search of all persons and transport shall be carried out at each gate and for as many times as gate is used for entry or exit and may also be carried out any time or any number of times at the work site within the restricted area.
- (g) <u>Female Searcher</u> If the Contractor desires to employ female labour on works to be carried-out inside the area of factory, depot, park, unit, etc and a female searcher is not borne on the authorised strength of the factory, depot, park, unit, etc, at the time of submission of tender, he shall be deemed to have allowed in his tender for pay and allowances etc. for a Female Searcher

(Class IV servant/ GP`D' servant) calculated for the period, female labours are employed by him inside the area. If more than one Contractor employs female labour during any month and female searcher(s) has/have to be employed in addition to the authorised strength of the factory, depot, park, unit, etc, the salary and allowances paid to the additional female searcher(s) shall be distributed on equitable basis between the Contractors employing female labour taking into consideration the values and periods of completion of their contracts. The GE's decision in regard to the amount recoverable on this account from any Contractor shall be final and binding.

- (h) Working Hours The units controlling restricted area, usually work during six days in a week and remain closed on the 7th day. The working hours available to the Contractor's labour/staff are however accordingly get reduced because of the time taken in security checks observed at the time of entry and exit and during working hours. The exact working hours, working days and non working days observed for these restricted area(s), where works are to be carried out shall be deemed have been ascertained by the Contractor before submitting his tender. The tenderers' attention is invited to the fact that total number of working hours for a unit, are prescribed in regulations and that they cannot be increased by the Garrison Engineer. The definition of "Working Day" as given under condition 1(t) of IAFW-2249 does not apply in case where the works are carried out in restricted area.
- (j) Work on Holidays The Contractor shall not carry out any work on gazetted holidays, weekly holidays and other non-working days except when he is expressly authorised in writing to do so by the Garrison Engineer. The GE may at his sole discretion declare any day as holiday or non-working day without assigning any reason for such declaration.
- (k) Access to restricted area after completion After the works are completed and surplus stores etc. removed, the Contractor, his agents, representatives or workmen etc., will not be allowed any access to the restricted area except for attending to any rectification of defects pointed out to him by the GE.

(I) Fire precautions

- (i) The Contractor, his agents, representatives, workmen etc., shall strictly observe the orders pertaining to fire precautions prevailing within the restricted area.
- (ii) Motor transport vehicle, if allowed by the authorities to enter the restricted area must be fitted with serviceable fire extinguishers.

1.27 METHOD STATEMENT

- 1.27.1 The Contractor shall plan for execution and completion of work with foresight to ensure timely execution with the quality of work desired.
- 1.27.2 Period of completion shall be divided into months/ fortnights/ weeks and plan for each months/fortnights/weeks by preparing schedule for every months/ fortnights/weeks with following details, even before commencement of work.
 - (a) Items of work to be executed with quantity
 - (b) Labour to be deployed trade wise,
 - (c) T & P to be deployed
 - (d) Material to be brought to site for works to be executed next week
 - (e) Type and number of engineers to be employed.
- 1.27.3 Any special item of work to be executed alongwith description of method as to how the Contractor intends to execute. It must be submitted in advance.
- 1.27.4 The Contractor shall also plan in advance and make available all the requisite safety equipment for the labour. A list of the same shall be given.

- 1.27.5 The Contractor shall produce test certificate of T&P being deployed at site. The test certificates shall indicate the present capacity of the T&P and shall not be more than 6months old.
- 1.27.6 The above details shall be furnished by Contractor within 10days of commencement of work. Work will be not allowed to be executed without these details. However, date of commencement of work will be within one month of acceptance as per contract.
- 1.27.7 Delay on account of non-submission of these details /test certificate will be attributable to Contractor and no extension of time will be granted on this account.

**MONTH/FORTNIGHT/WEEK NO		
From	To	_

EXECUTION

SI No	Item of work	Quantity
1		
2		
3		

SI No			
	Trade	Nos	
1	Mazdoor		
2	Manson		
3	Electrician		
4			
5			
6			

SI No	No of Engineers to be	e employed
		Nos
1	Civil	
	(a) Graduates	
	(b) Diploma	
	Holders	
2	Electrical	
	(a)	
	(b)	
3	Mechanical	
	(a)	
	(b)	

SI No	T&P to be deployed	ed
	Туре	Nos
1		
2		
3		
4		

MATERIALS TO BE BROUGHT AT SITE FOR EXECUTION MONTH/ FORT NIGHT/ WEEK WISE DETAILS

SI no	Description of material	Quantity	Source
1.			
2.			
3.			
4.			

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SPECIAL CONDITIONS(CONTD...)

1.28 OFFICIAL SECRETS ACT

The Contractor shall be bound by the Official Secrets Act, 1923.

1.29 CONCILIATION

- 1.29.1 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.
 - (c) Disputes relating to interpretation of the provisions of the contract with reference to their application to parties.
 - (d) Disputes relating to non return of Schedule` stores over issued to the Contractor.
 - (e) Any other dispute having fair chances of being resolved by conciliation and considered fit to be referred to conciliation by the parties.
- 1.29.3 For items (b), (c), (d) and (e) each as stated above the financial limit shall be Rs. 2,00,000/- (Rupees two lakh) or one percent of the Contract amount whichever is less.

1.29.4 Commencement of Conciliation Proceedings

- 1.29.3.1 The party initiating conciliation shall send to the other party a written invitation to Conciliate, briefly identifying the subject of the dispute.
- 1.29.3.2 Conciliation proceedings shall commence when the other party accepts in writing the invitation to conciliate.
- 1.29.3.3 If the other party rejects the invitation, there will be no conciliation proceedings. If the party initiating conciliation does not receive a reply within 30 days from the date on which he sends or within such other periods of time as specified in the invitation, he may elect to treat this as a rejection of the invitation to conciliate and if he so elects, he shall inform in writing the other party accordingly.
- 1.29.4 Number of Conciliators There shall be a sole Conciliator
- 1.29.5 <u>Appointment of Conciliator</u> All disputes brought out in para 1.29.1 (a) to (e) above shall be referred to the Sole Conciliator viz serving officer having degree in Engineering or equivalent or having passed final/direct final examination of sub division II of Institution of Surveyor (India) recognised by the Govt of India, to be appointed by Chief Engineer Navy Mumbai or in the absence the officer officiating as Chief Engineer Navy Mumbai ,whose decision shall be final conclusive and binding.
- 1.29.6 <u>Status of Effect of Settlement Agreement</u> 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.

1.30 PERFORMANCE SECURITY

1.30.1 Immediately after receipt of the letter of acceptance, the successful contractor shall deliver to the Accepting Officer a performance security in any of the forms given below for an amount equivalent to 5% of the contract sum.

SPECIAL CONDITIONS(CONTD...)

- (a) A bank guarantee in the prescribed form.
- (b) Government Securities, FDR or any other government instruments stipulated by the Accepting Officer.
- 1.30.2 Please note that Work order No.1 shall be placed by GE only after submission of performance security of adequate value by the contractor
- 1.30.3 If the performance security is provided by the successful contractor in the form of a Bank Guarantee, it shall be issued by Nationalized/Scheduled Indian Bank, but it's confirmation shall be done only from the Head Office of the bank.
- 1.30.4 Failure of the successful Contractor to comply with the requirements of clause 1.30.1 shall constitute sufficient grounds for cancellation of the award of work and forfeiture of the Earnest Money. In case of MES enlisted Contractor, amount equal to the Earnest Money stipulated in the Notice Inviting Tender, shall be notified to the tenderer for depositing the amount through MRO. Issue of tender to such tenderers shall remain suspended till the aforesaid amount equal to the Earnest Money is deposited in Government Treasury.
- 1.30.5 All compensation or other sums of money payable by the Contractor to the government under the terms of this contract or under any other contract with government may be deducted from, or paid by the sale of a sufficient part of the performance security or from the interest arising there from or from any sums which may be due or become due to the contractor by the government on any account whatsoever and in the event of his performance security being reduced by reason of any such deduction, or sale as aforesaid, the contractor shall within ten days thereafter make good in cash or securities, endorsed as aforesaid any sum or sums which may have been deducted from or realized by the sale of his performance security or any part thereof. Government shall not be responsible for any loss of securities or any depreciation in the value of securities while in their charge nor for loss of interest thereon.
- 1.30.6 In the event of contract being cancelled, under condition 52, 53 & 54 of General Conditions of Contract, the performance security shall be forfeited in full and shall be credited into consolidated fund of India.

(Signature of contractor)
Date:-

DCWE(Contracts) for Accepting Officer

NAME OF WORK: REPAIR AND MAINTENANCE OF DG SETS OF CAPACITY 1010 KVA AT MRSS VAJRAKOSH, 625 KVA AT DSS 16 AT SITE 'E' AND 750 KVA AT NCN UNDER GE(SB) KARWAR.

PARTICULAR SPECIFICATIONS

1.0 GENERAL

- 1.1 Works under this Contract shall be carried out as detailed in different parts of Schedule`A'/BOQ and in accordance with Particular Specifications, Special Conditions, provisions given in General Summary and General rules and Specifications / Provisions given in MES SSR Part-I-2009 as well as General rules, Special conditions and preambles to various rates given in MES SSR Part-II 2020 (MES SSR Part-I and II hereinafter called as MES Schedule).
- 1.2 The term `General Specifications' referred to in these documents as well as referred to in IAFW-2249 (General Conditions of Contracts) shall mean the specifications contained in the MES Schedule Part-I.
- 1.3 General Rules, Specifications, Special conditions, method of measurements and all preambles in the MES Schedule shall be deemed to be applicable to the work under this contract, unless specifically stated otherwise in these documents. In case of variance between provisions in these documents and those given in MES Schedule, the provisions in these documents shall take precedence over the aforesaid provisions in the MES Schedule.
- 1.4 The term 'as specified' wherever appears in tender documents, relates to relevant particular specifications and in its absence General specifications.
- 1.5 Particular specifications in this section given hereinafter shall be generally applicable to all works covered under Schedule-'A'/BOQ. The particular specifications are in brief and are only to particularise, amend and emphasize the specifications given in MES Schedule, which are not repeated.
- 1.6 Where specifications for any item of work are not given in these particular specifications or in MES Schedule, specifications as given in relevant Indian Standard or Code of Practice shall be followed.
- 1.7 Reference to any drawings which is mentioned on the drawings forming part of the tender or mentioned in these particular specifications but not specifically mentioned in the list of drawings shall be deemed to be forming part of the tender. The tenderer shall refer such drawings/ details in the office of the Accepting Officer/concerned GE/AGE[I] before quoting his tender.

2.0 SCOPE OF WORK

- 2.1 The scope of work consists of REPAIR AND MAINTENANCE OF DG SETS OF CAPACITY 1010 KVA AT MRSS VAJRAKOSH, 625 KVA AT DSS 16 AT SITE 'E' AND 750 KVA AT NCN UNDER GE(SB) KARWAR all as specified in Schedule-'A'/BOQ and all as described and specified in Particular Specifications.
- 2.2 Work order No.1 shall be placed by GE/AGE[I] only after submission of Performance Security of adequate value by the contractor and site will be handed over to the contractor accordingly.
- 2.3 The contractor should give 15 days advance notice to users prior to physical commencement of work.

3.0 MATERIALS

3.1 Materials to be supplied and fixed by the contractor for incorporation in the work shall confirm to relevant specifications. In case specification of any materials needed for incorporation in the work is not contained in any place of the contract document, the

specification of such materials proposed to be incorporated in the work shall be got approved by GE/AGE[I] in writing before their incorporation in the work.

- 3.2 As far as practicable all manufactured materials / articles other than those manufactured in Contractor's workshop at site shall bear IS certification mark. In case any articles not bearing the IS certification mark but confirming to relevant specifications is proposed to be incorporated in the work, samples of the same shall be got approved in writing from the GE/AGE[I] before incorporation in the work. The contractor shall submit sufficient evidence to the GE/AGE[I] to show that such articles confirm to relevant specifications.
- 3.3 Manufactured materials / articles shall be brought at site in original seal containers / packing bearing manufacturers marking unless the quantity required is in a fraction of smallest packing.
- 3.4 The materials of proprietary nature such as paints, primer, adhesives, lime etc quantity of which cannot be checked after incorporation in the work shall be measured and recorded in measurement book as evidence that the same are brought at site, these measurements shall be signed by the Engr-in-Charge and the authorised representative of the contractor. The contractor is required to obtain these materials direct from the manufacturer or their authorised dealer and to submit it to the Engr-in-Charge original stamped receipt bill along with relevant invoice from the manufacturers or their authorised dealer in support of having full quantity required for incorporation in the work.
- 3.5 The Contractor shall carry out such instructions as are given to him in writing by the Engr-in-Charge to ensure that full quantity of such materials goes into work.
- 3.6 Material such as sand and aggregate etc shall generally confirm to the samples kept in GE/AGE[I]'s office further in addition to their conformity with relevant specification given in the tender documents. The source of materials to be got approved by GE/AGE[I] in writing before these materials are brought at site in bulk.

4. TESTING OF MATERIALS

4.1 All the materials to be incorporated in the work shall be subject to quality control tests as per the testing procedure and frequency as laid down in relevant IS and or as specified in the tender

5. EXCAVATION AND EARTH WORK

5.1 EXCAVATION - GENERAL

- (a) Excavation shall be done to the depth as required at site and as directed by the Engineer-in-Charge.
- (b) Decision of the Garrison Engineer shall be final, conclusive and binding as regards classification of soils and rocks met during excavation.
- (a) Stone obtained from excavation in hard rock (if met with during excavation) (other than by chiseling) shall become property of the Contractor. The Contractor shall pay 352.50/cum of measured quantity of stone obtained in excavation and shall remove it off the site with prior permission of the GE/ the Engineer-in-Charge. No lead shall be payable for the removal of stone from site. The Contractor may use the stone obtained from excavation in filling under floors or road work if permitted by the GE. In cases the excavation in hard rock is carried out by chiseling then the excavated material shall be used in filling as specified hereinafter in floors or road work. The recovery of Rs.411.25/cum of stack measurement (without any deduction for voids) of hard rock shall be effected from the Contractor to the extent of material used in filling. Surplus excavated material shall be disposed off outside MD land as directed without any extra cost to Government.

(b) Blasting of rock is prohibited. Excavation in hard rock (if met with during excavation) shall be by chiseling or any other agreed method.

5.3. In case timbering to excavation is required and specifically ordered by the GE in writing, it shall be paid as deviation.

5.4 TRENCHES FOR FOUNDATION AND PIPES

- (a) The excavation shall be restricted to dimensions as specified in MES Schedule. Excavation made, if any, in excess of required depth/width shall be made good by the Contractor with cement concrete 1:7:12 type F2 without extra cost to the Government
- (b) The beds of the trenches shall be watered and well rammed and any depressions thus formed shall be filled with approved earth as required to the level and slopes as directed by Engineer-in-Charge.

5.5 FILLING IN TRENCHES

- (a) The approved soil/soft rock obtained from excavation (except earth/ spoil obtained from surface excavation) shall be used for returning, filling in trenches, under floors or any other situation after removing big stones, grass, roots and vegetables and other organic matter. Earth mixed with small stones/pebbles (if approved by the GE) is permitted for use in filling around pipes after the pipes are laid and tested. Any additional earth required for the purpose of filling shall be arranged by the Contractor at no extra cost to the Department from outside the Defence Land.
- (b) Filling under floors / sides of trenches shall be in layers not exceeding 250mm and each layer shall be watered, compacted and rammed as approved by the Engineer-in-Charge.
- (c) Surplus soil/ spoil shall be removed outside MD land. For the purpose of omit part of deviation order, it shall be considered as 5km.
- (d) The Contractor shall provide leveling instrument 'Auto level' with operator for taking the existing and final levels by Board of Officers without any extra cost to Government.

6. DEMOLITION/ DISMANTLING

- 6.1 Demolition / dismantling shall be carried out in accordance with and all as specified in section 21 of SSR Part-I 2009 and preambles contained in SSR Part-II 2010 for respective items. Schedule-'A'/BOQ items shall be inclusive of the same.
- 6.2 The Contractor shall take every precaution to prevent damages to any part of the structure and also the adjacent structures, which are to be left intact. Any damage caused to the structures due to carelessness and negligence of the Contractor, the same shall be made good conforming to the existing specifications and to the entire satisfaction of the Garrison Engineer/AGE[I] without any extra cost to the Government.
- 6.3 The rates quoted in respective items of demolition / dismantling in Schedule-'A'/BOQ shall include for:
 - (a) All the precautionary measures to be taken including custody of serviceable materials / temporary shoring for the safety of portion not required for demolition / dismantling of adjacent portion where considered necessary by the Engineer-in-charge
- 6.4 The Contractor shall erect steel scaffolding in accordance with the provisions contained in IS-2750-1964 and relevant provisions of IS 3696 (Part-I)-1987 and shall be independent from the structure / building. The entire scaffolding shall be covered with polythene sheet / jute cloth as per Municipal norms in vogue, during the period when work is being done on external portions of buildings / structures to prevent any debris falling off on running traffic under and to check any untoward incidents. The entire work site shall be effectively separated from other areas being used by public. Cost of this provision shall be deemed to

be included in the rate quoted against various items of Schedule-'A' by the Contractor and nothing extra shall be payable to the Contractor on this account.

7.0 BLANK

8.0 PAINTING

8.1 **GENERAL**

- (a) All synthetic enamel paint and emulsion paint shall be of 1st quality manufactured by the standard firms of make as per Appendix-`B' attached.
- (b) The Contractor shall inform the GE/AGE[I], within three weeks of the acceptance of the tender, the brand/names of the manufacturers of paint proposed to be used in the works and submit samples thereof and obtain prior written approval of the GE/AGE[I] before their use in works.
- (c) The Contractor shall when so required by the GE/AGE[I], produce certificate from the manufacturer or their representative to establish that the brands of paints purchased by the Contractor from them, satisfy the requirements of the relevant Indian Standards.
- (d) Paints for priming coat, under coat and finishing coat shall be of the same manufacturer.
- (e) Tint of paint shall be as approved by the GE/AGE[I].

8.2 WORKMANSHIP

- (a) All wood work required to be painted shall be smoothened, sized and knotted and then applied with priming coat. Stopping and filling (filler coat) shall be done after priming coat and surface rubbed down to a level of smooth surface and thereafter under coat and finishing coat applied, all as specified in clause 17.6 of MES Schedule. Steel and iron work shall be painted in the manner as specified in clause 17.8 of MES Schedule Part-I.
- (b) No treatment shall be given to reinforcement.
- (c) Steel surfaces exposed to view shall be given two coats of synthetic enamel paint over a coat of primer of tint as directed by the GE/AGE[I].
- (d) Bottom of door shutters shall be given one coat of primer only.
- (e) Finishing coat and under coat for exposed steel and wooden surfaces shall be with synthetic enamel paint.

8.3 PAINTING TO WOOD WORK

- (a) Where painting to wood work is required prepare surface and apply one priming coat of pink primer, the under coat and one finished coat of synthetic enamel paint all as specified in SSR Part I.
- (b) All surface of timber exposed to view and for which no type of finish is specifically catered for in these particular specifications shall be treated with two coats of paint as specified hereinbefore. However for old timber surfaces only one coat of synthetic enamel paint is sufficient.

8.4 PAINTING TO STEEL WORK

(a) Where painting to steel and iron work is indicated, Prepare surfaces and apply one priming coat of Red oxide one under coat and finishing coat of synthetic enamel paint all as specified in the SSR Part I.

(b) The steel surface which are required to be given three coats of paint, primer coat being given after fabrication but before assembling and erection

9.0 ELECTRIFICATION WORKS

9.1 GENERAL REQUIREMENTS

- (a) This installation shall strictly comply with the provisions contained in the latest edition of the Indian Electricity Rules and amended IS-732-1963 Code of practice for Electrical wiring and fittings in buildings, as applicable to these works, except, where such regulation and rule are modified by these specifications.
- (b) The position of various electrical fittings and fixtures may be changed by the Engineer-in-Charge at the time of execution if found necessary.
- (c) All electrical work shall be executed properly by skilled licensed electricians and ITI certificate holder under the supervision of suitably qualified electrical supervisors with minimum qualification shall be degree in electrical engineering. The Contractor on demand by the Engineer-in-Charge shall produce such evidence of qualification of his workmen, supervisors(s) either at the time of commencement of the work or at any time thereafter during the contract period.
- (d) The run of PVC/Steel conduits shall be marked on the walls and soffit of roof / floors slabs for the wiring. Approval of the Engineer-in-Charge shall be obtained in writing before starting the works.
- (e) Looping back system of wiring shall invariably be used throughout the installation.
- (f) All electrical fittings and wirings shall be clear of door, windows and other openings.
- (g) The main switches and controls should have the voltage of supply clearly painted on them.
- (h) The phase indication (RYB) should be provided at the main incoming switches and controls.
- (j) The name of functions of each distribution board shall be clearly and neatly painted on the distribution boards.

9.2 PRECAUTIONS

- 9.2.1 All safety precautions shall be taken by the Contractor to prevent danger to persons working on overhead lines.
- 9.2.2 The Contractor/his workmen shall not start work on the overhead electric line or on electric equipment unless he obtained proper shut down and unless he/they are reasonably satisfied that there is no danger to the life of workmen.
- 9.2.3 The Contractor shall be responsible for providing all necessary safety equipment to his workmen to avoid accidents. In case of accidents the department will not be held responsible.
- 9.2.4 The layout for external electrification works shall be as indicated in Schedule-'A' and as directed by the Engineer-in-charge.
- 9.2.5 The works be carried out through a licensed electrician/wireman. The Contractor shall produce such license when required by the GE/AGE[I].
- 9.3 <u>WORKMANSHIP</u> The entire work shall be carried out as specified in Indian Electricity Rules and regulations, ISS and MES Schedule.

PARTICULAR SPECIFICATIONS (Contd...)

9.4 APPROVAL OF SAMPLES

Sample of all materials to be incorporated should be approved by the GE/AGE[I] before incorporation and shall conform to IS wherever applicable.

9.5 MATERIALS AND SAMPLE BOARD

- (a) All materials unless otherwise specified shall possess ISI mark or conform to relevant IS specifications or to BSS if ISS is not available. Approval of the GE/AGE[I] referred to in clause 19.2.1 and 19.2.2 of MES Schedule shall be in writing. Approved samples shall be labeled as such and signed both by the Contractor and the Engineer-in-Charge. They shall remain in the custody of the Engineer-in-Charge, till final completion of work.
- (b) 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 surfaces.

9.6 BLANK

9.7 <u>EXPULSION FUSES</u>: Expulsion fuses shall comply with the IS 9385 (Part-II) 1980 and shall be provided all as described in Sch `A

9.8 SAND CUSHIONING / FILLING

- 9.8.1 Sand for filling in trenches where specified shall be free from foreign matters and shall be natural river sand from the sources approved by the GE.
- 9.8.2 Sand shall be stacked at site before incorporation and the entire quantity of sand shall be recorded in measurement books marked suitably as 'Not to be abstracted' before incorporation and shall be signed by the Engineer-in-charge and the Contractor. Consolidated thickness of sand as specified shall be recorded for payment purpose.
- 9.8.3 Sand filing shall be done as specified in Clause 3.21.2 of SSR Part-I 2009.

9.9 GI TUBING

- 9.9.1 All GI tubing shall be galvanised light/medium grade conforming to IS: 1239 and fittings shall comply with the requirement of relevant IS. Laying of GI pipes shall be in accordance with Clause 18.51 of MES Schedule.
- 9.9.2 Where GI pipes crosses the wall, GI sleeve piece of suitable dia / length shall be provided to accommodate the pipe and cost of same shall be deemed to be included in the quoted rate. The Contractor shall use proper bends, elbows, tees, etc. at turning corners. The Contractor shall provide screwed plugs to all open ends of pipe on completion of a day's work.
- 9.9.3 <u>XLPE CABLE</u>:-XLPE Cable incorporated in the work shall manufactured by using either Sioplass technology or Dry curing with nitrogen gas technology conform to the requirements laid down in IS 7098 (Part-II). The make shall be as specified here in after.
- 9.10 <u>LAYING OF CABLE</u>: Laying of underground cable shall conform to Clause 19.72 to 19.86 of SSR Part-I 2009.

PARTICULAR SPECIFICATIONS (Contd...)

9.10.1 TESTING OF CABLES

- (a) The new cables shall be tested before jointing as well as after completion of jointing. Cables shall be tested for:
 - (i) Continuity
 - (ii) Insulation resistance to earth
 - (iii) Insulation resistance between conductors
- (b) On completion of laying/fixing and jointing the following tests shall be carried out:
 - (i) Insulation resistance test overall
 - (ii) Continuity test of overall conductor and earthing
 - (iii) Earth test
- (c) The results shall be recorded and submitted to the GE duly signed by the Contractor and Engineer-in-Charge.
- 9.11 <u>LT PANEL BOARD:</u> This shall be provided all as described in relevant item of Schedule 'A'. The LT Panel board shall be manufactured by CPRI approved factory. All protection element/powder coated protection shall be class IP and shall conforming to IS norms. The contractor shall prepare and submit two copies of LT panel drawing well in advance and shall be got approved by Garrison Engineer before going for ordering or manufacturing.

9.12 PANEL BOARD

The panel board shall be of suitable size as per manufacturer instructions including provision of the necessary materials and arrangements provide these accessories in the indoor panel board. Panel shall be provided with front and back hinged door with handle and locking arrangement. Panel shall be with 2 coats of synthetic enamel paint over one coat of red oxide primer after degreasing de-rusting. Acid Alkali cleaning and ample space between MCCBs/MCBs/other equipment's shall be given as per standard engineering practice.

All connections from the bus bar to various outgoing controls inside the panel shall be given with adequate size of copper insulated cables with necessary crimping lugs. All live parts shall be shrouded with insulating materials. Each phase and neutral will be insulated with colour code tapes. The panel shall be mounted in wall/floor as directed with necessary foundation, etc. in panel / mounted on floor. Necessary provision for 2Nos. earthing shall be given on the panel. Adequate locking arrangement shall also be provided. The make of ACBs and MCBs with its enclosures shall be as mentioned in Schedule-'A'. These shall be fitted flush with panel with front open (Compartment) type covers hinged type for each control for facilitating easy maintenance. Adequate space shall be provided in between the controls. Necessary drawing/layout of panels controls shall be given by the contractor and shall be got approved from GE before ordering the same. The panel shall be tested as per IE Rules. Necessary name plate identifying the controls shall be engraved on brass sheet and fitted in front of each panel.

9.13 CABLE TERMINATION BOX AND JOINT KITS

These shall be provided all as described in relevant Sch 'A' items and shall be all as specified in relevant clause no of 19.22 & 19.86 of SSR – 1991 (part-I) The make shall be as specified here in after.

9.14 INSULATORS AND INSULATOR FITTINGS

Shackle pin, type insulators and fittings shall comply with IS-1445-1977 specification for porcelain insulator. The porcelain shall be sound free from defects thoroughly verified and smoothly grated. Pin insulators shall be in one piece and shall have a top groove and shall

be threaded to take galvanised mild steel pin. The shackle insulator shall be in one piece and shall have a groove on the side and a hole for cotter pin and two galvanized bolts and nuts with pairs of straps. . The makes of the insulator shall be BHEL / Mysore Porcelain/Jayshree/Jaipuria.

9.15 MAKES / MANUFACTURER

The Samples of each item shall be got approved by GE before placing of bulk order and test certificate (wherever required) shall also be produced along with purchase voucher. All materials shall be in accordance with latest Edition of the relevant IS/BSS specifications and shall be of the best indigenous make and shall be procured from any of the manufacturer's as indicated in Sch 'A' or Apx 'B' or in specification duly approved by GE.

9.16 <u>EARTH WIRE:</u> Earth wire shall be all as specified in clause No 19.11.2 of SSR Part-I.

9.17 EARTHING

- (a)Refer clause 19.137 to 19.145 of MES Schedule (Part-I) and electrical plate No. 5 MES Schedule (Part-I).
- (b)The Contractor shall execute installation of earth plate in the presence of the Engineer-in-Charge. Charcoal dust and salt and return filling shall be done in layers not exceeding 20cm depth, properly watered and rammed. Surplus spoil shall be carted away to a distance not exceeding 50m and the site left clean and tidy.
- (c)No earth pit shall be made within 2m of a wall or foundation. Efforts shall be made to locate them in grass or near flower beds or water taps. The distance between two earthing pits shall be a least 2m.

(d)TESTING

(e) <u>TESTING OF EARTH CONTINUITY</u> The earth continuity conductor metal conduits shall be tested for electric continuity and the electrical resistance of the same along with the earthing lead but excluding any added resistance or earth leakage circuit breaker measured from the connection with the earth electrode to any point in the earth continuity conductor in the completed installation shall not exceed 1.0 Ohm. The record sheets shall be signed by the Contractor and the Engineer-in-Charge.

11.0 **DG SET**

DG set shall be installed as per manufacturer instruction and as per schedule 'A'/ BOQ and specifications.

11.1 **TEST ON DG SET**

The contractor shall carry out the following tests at site in the presence of Engineer-in-Charge and results will be recorded in triplicate, signed by both parties.

- (a) Tests on cables for IR, earth resistance, continuity and cross-phasing.
- (b) Earth test for the earthing and the entire installation as per IS-732 and
- (c) The contractor shall arrange the testing equipment and the labour required for test without any cost to the Govt. If the tests are not satisfactory, the contractor shall rectify the defect and reset the installation to the entire satisfaction of the Engineer-in-Charge.
- 11.1.1 (a) The type of POL (diesel, engine oil, grease) etc. used for running the set as per manufacturer's instructions shall be indicated with consumption per unit time.

(b) The POL (diesel, engine oil, grease) test etc. required for the commissioning, testing shall be supplied by the contractor at his own cost. The unit rate quoted in Sch-'A'/BOQ shall be deemed to include this aspect.

(c) The contractor shall ensure that the complete equipment is within the least noise level. For this purpose the contractor shall provide all necessary sound insulation arrangements, vibration proofing and such other arrangements required to reduce the noise level.

11.1.2 PERFORMANCE TEST

- (a) The DG set shall be guaranteed for one year from the date of taking over the DG set. The DG set shall be taken over after the systems have been commissioned and the Accepting Officer or his authorised representative is satisfied with the tests specified herein after.
- (b) The tests shall be carried out by the contractor in the presence of an IEM or an Officer nominated by the Accepting Officer. The authorized representative of the users shall also be associated during this test. The contractor shall afford all facilities and make all necessary arrangements for this test. All arrangement required for test shall be arranged by contractor at his own cost.
- (c) The tests shall comprise of the following:-
 - (i) Trial test.
 - (ii) Generating test shall run for no load, full load and overload (10%) test.
 - (iii) Regulation test shall be carried out in accordance with BS-649-1958.
 - (iv) The generating set shall run for total 12 hours for conducting above test and the performance of the plant as a whole shall be recorded in test sheet.
 - (v) Efficiency test
 - (vi) IR and earth test of cable, generator.
- (d) If the performance or the test result of the tests as detailed above are not found satisfactory, the contractor shall at his own cost shall rectify/replace the defective installations or part thereof as directed by the Accepting Officer or his rep before the installations are taken over. The decision of the Accepting Officer shall be final, binding and conclusive in this regard. The test results shall be recorded in triplicate and signed by both the parties.
- (e) The contractor shall submit the following after completion of work :-
 - (i) Complete literature in English/catalogue giving technical information of generating sets.
 - (ii) 6 sets of complete literature on maintenance and operation and operation and installation of generating sets.
 - (iii) Catalogue for spare parts.
 - (iv) Maintenance chart of the installation duly framed with glass 01 set.
 - (v) Shock treatment chart (in English and vernacular) framed with glass 01 set.
- (f) Artificial water load shall be arranged a decibel meter to measure sound level during test.

PARTICULAR SPECIFICATIONS (Contd...)

12.00 PAID VOUCHERS/TEST CERTIFICATE

12.1 The contractor shall produce original with the photo state copies of paid vouchers from the original manufacturers or from their authorised agents for all the materials/as soon as these are purchased and brought at site.

- 12.2 The contractor shall produce manufacturer's test certificate for the equipments as soon as the same is brought at site.
- 12.3 The contractor shall produce necessary test certificates from manufacturer for the parts/spares provided. Contractor shall also produce necessary paid vouchers for the spares/parts procured and fixed duly defaced by the Engineer-in-Charge.
- 12.4 Contractor shall furnish guarantee for all the components provided by him or repaired by him against any manufacturing defects for minimum period of one year from the date of completion of respective item of work.

13.0 **SAFETY PROCEDURE AND PRACTICES FIRE SAFETY**

Safety procedure and practices, fire safety shall be all as specified as described in clause No.19.2.7 and 19.2.8 of MES schedule SSR Part I of 1991.

14.0 CONFORMITY WITH INDIAN ELECTRICITY ACT, RULES ETC:

All electrical work shall be carried out in conformity with requirement the Indian Electricity Act 1910 and Indian electricity Rules 1956 framed there under and fire insurance act as applicable and also the relevant regulations of Electric supply authorities concerned as amended from time to time. Extracts from the Indian Electricity Rules 1956 are given in Appx `A' of SSR Part –I in page No 19.41 to 19.46.

15.0 **ELECTRIC SHUT DOWN:-**

Electric shut down shall be provided by Department for only five hours per day any time between 0930 hrs to 1630 hrs as directed by Engineer-in-Charge. The contractor shall have to give intimation for providing shut down ten days in advance in writing to the Engineer-in-Charge.

16.0 **LIST OF DRAWINGS**: NIL

Signature of Contractor Date:

DCWE (Contracts) for Accepting Officer

APPX 'B' MAKES / NAMES OF FIRMS FOR PRODUCTS TO BE INCORPORATED IN WORK

SI No	Items / Materials	Name of Manufacturers / firms
1.	ENGINE(DG SETS) and spares	CUMMINS, GREAVES COTTON LTD, MAHINDRA, KIRLOSKAR OIL ENGINES, ASHOK LEYLAND,
2.	ALTERNATOR and spares	STAMFORD, ABB ,SIEMENS, KIRLOSKAR ETECTRIC, CROMPTON GREAVES.
3.	LT Cables, 1100 Volts, XLPE	RPG, UNIVERSAL CABLES, KEI, FINOLEX CABLES, POLY CAB, HAVELLS INDIA LTD, HAVELLS INDIA LTD, RR KEBLES, RPG CABLES (KEC), UNIFLEX,
4.	LT/HT Cable joints heat shrinkable/cold shrinkable/push on type	RAYCHEM, M-SEAL, DENSON, BIRLA 3M, MAHINDERA & MAHINDERA, SIEMENS,ICC, RAYOHEM, LT JOINT
5.	Indicating Lamps Neon / LED type	L&T, Siemens, AE, Bhartia Industries Ltd, NewDelhi
6.	PCC cable cover	National/Mehtab/Topaz
7.	CT & PT, 11 KV/33 KV	PRAGATI, AE, KAPPA, SCHNEIDER, L&T (AS PER HT PANEL MANUFACTURERS DESIGN), SIEMENS, ABB, Crompton
8.	Bus Bar Trunking	L&T,SIEMENS,SCHNEIDER,ABB,GE,LEGRAND,C&S
9	HT 11KV, 3 PH AUTOMATIC SWITCH FUSE UNIT	
10	BATTERY	EXIDE,AMCO,AMRON,TATA GREEN
11	Automatic Voltage Regulator(AVR)	Cummins, Kirloskar, Sudhir
12	Contactors / HRC fuses	L&T, Siemens
13	Coolant	Castrol, Veedol, valoline
14	HT Switch gear 33 KV, VCB (Out Door)	BHEL, ABB, SIEMENS, CROMPTON GREAVES, SCHNEIDER, ALSTOM, KIRLOSKAR
15	HT Switch gear 11 KV, VCB (Indoor/Outdoor)	BHEL, ABB, SIEMENS, CROMPTON GREAVES, SCHNEIDER, ALSTOM.
16	HT Switch gear protection relay electronics	ABB, SCHNEIDER, C&S, SIEMENS, L&T
17	HT Trivector Meter	SECURE, L&T, ABB (ELSTER), SCHLUMBERGER, SIEMENS
18	HT Ring main unit, SF6, 11 KV	ABB, SIEMENS, CROMPTON GREAVES, SCHNEIDER
19	Tulip contact	Siemens or equivalent as approved by GE

APPX 'B'(Contd...)

MAKES / NAMES OF FIRMS FOR PRODUCTS TO BE INCORPORATED IN WORK

	T	7
SI No	Items / Materials	Name of Manufacturers / firms
20	HT PANEL	L&T,SIEMENS,SCHNEIDER,ABB,GE,EPLEC LEGRAND,C&S
21	LT Panels	SIEMENS, CROMPTON GREAVES, L&T, ABB, HPL INDIA LTD, DOLAR, EPLEC LEGRAND
22	LT AIR CIRCUIT BREAKER	L&T, ABB, GE, SIEMENS, BCH, LEGRAND, SCHNEIDER, HPL,C&S
23	Voltmeter/Ammeter/Frequency meter/Meters/ PF Meter (Analog Type)	AE, IMP, L&T (RISHAB), HAVELLS, BENTEC, TTL
24	Voltmeter/Ammeter/Frequency meter/PF Meter (Digital Type)	ENERCON, DIRIS, DUCATI, L&T (RISHAB), TRINITY, RAAS, CONCORD, AE, SECURE, TTL TECHNOLOGY, ENERCON, LEGRAND
25	Selector Switch	SIEMENS, KAYCEE, C&S. L&T, LEGRAND
26	APFC Panels	L&T, SCHNEIDER, CROMPTON GREAVES, HPL,
27	Electronic Energy Meters	SECURE, L&T, ALSTOM(AREVA),HPL, LEGRAND, BENTEC
28	PVC INSULATED COPPER WIRES - 650/1100 VOLTS	FINOLEX, L&T, HAVELLS, POLYCAB, PLAZA, ANCHOR,HPL,
29	Indicating Lamps Neon / LED type	L&T, Siemens, AE, Bhartia Industries Ltd, NewDelhi
30	HT 11KV, 3 Ph Automatic switch Fuse Unit	ABB ltd, Bangalore, AREVA T&D India Ltd, Noida, Crompton Greaves, Mumbai, Schneider, New Delhi
31	HRC fuse links	L&T/Siemen / Schnieder /ABB/Legrand
32	Multifunction Protection Relay	Siemen / Schnieder /ABB
33	Automatic Voltage Regulator	Cummins, Kirloskar, Sudhir

NOTES:

- 1. Items shall be considered which ever is applicable only
- 2. Sources indicated are only for guidance and approval of the Garrison Engineer shall be taken in proper time before procurement of materials and its incorporation.
- 3. The above list is not exhaustive but indicative of all items required for work under the contract.
- 4. Sources of materials shall be as above or in the vicinity thereof. The tenderer shall ascertain the actual position/exact location of source before submitting his tender and no additional payment shall be made on account of misunderstanding of its distance from site of works. Contractor may bring material conforming to contract specifications from other sources without any price adjustment after obtaining written approval of the Garrison Engineer.
- 5. The tender shall amongst other things also ascertain all information such as royalties, taxes duties and other charges etc. on the materials and no additional payment shall be made on account of the foregoing.
- 6. If Make of any item/material is not specified, ISI Marked Material may be incorporated after approval of GE.

Signature of Contractor
Date: 2024

DCWE (Contracts) for Accepting Officer

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