

NAME OF WORK : SPL REPAIR TO INTERNAL ROAD AT VARIOUS LOCATIONS AT ITARANA CANTT, ALWAR UNDER GE ALWAR**CONTENTS**

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Enclosures: (Nil)

.....
(Signature of Contractor)Offg DCWE (Contracts)
For Accepting Officer

Dated :

81603/CWE/HSR/ALW-23/2023-24/10/E8

11 Sep 2023

M/S

.....

.....

**CWE/HSR/ALW-23 OF 2023-24 : SPL REPAIR TO INTERNAL ROAD AT VARIOUS LOCATIONS
AT ITARANA CANTT, ALWAR UNDER GE ALWAR**

Dear Sir (s),

1. Tender documents in respect of above work are uploaded on the site www.defproc.gov.in. The tender is on single stage two cover e-tendering system. The contents of Cover-I & Cover-II are specified in NOTICE OF TENDER.

2. Bids will be received online by ACCEPTING OFFICER upto the date and time mentioned in the **NOTICE INVITING TENDER (NIT) and as amended subsequently on e-tendering portal i.e www.defproc.gov.in** for subject work. No tender/bid will be received in physical form and any tender/bid received in such manner will be treated as non bonafide tender/bid.

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

4. Your attention is also drawn to instruction on filling and submission of tender attached herewith. You may submit your points on tender documents and/or depute your technical representative for discussion on tender/drawings and to clarify doubts, if any, on or before **14 Sep 2023**. You are also requested not to write piece meal points and submit your points duly consolidated on or before above date.

5. Un-enlisted contractors are required to submit the scanned copies (in pdf file) of documents required as per eligibility criteria mentioned in instructions for filling the tender documents and Appendix 'A' to **NIT** alongwith EARNEST MONEY DEPOSIT (EMD) and tender fee on e-procurement portal and submit the physical documents in the office of **HQ Commander Works Engineers, Hisar** 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. Contractor having not executed standing security bond and standing security deposit in any MES formation shall upload scanned copy of EARNEST MONEY DEPOSIT (EMD) mentioned in Notice of Tender and shall ensure receipt of hard copy of EMD in the office of tender issuing authority before date & time fixed for this purpose. In case of failure to abide by any of these two requirements, the finance bid will not be opened.

7. **PERFORMANCE SECURITY.**

(a) Within 28 days of 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.

(b) 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.

Contd.../-

(c) Failure of the successful contractor to comply with the requirements of sub-clause 7(a) 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.

(d) 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.

(e) 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.

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

9. 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.

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

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

12. ANY TENDERER, WHICH PROPOSES ALTERATIONS TO ANY OF THE CONDITION, SPECIFICATIONS LAID DOWN IN THE TENDER DOCUMENTS OR ANY NEW CONDITION, WHATSOEVER, IS LIABLE TO BE REJECTED.

Yours faithfully,

.....
(Signature of Contractor)
Dated:

(Chanderpal)
JE (QS & C)
Offg DCWE (Contracts)
For Accepting Officer

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

Copy to: -

GE Alwar

Internal Distribution

E-2 Section

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

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

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

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

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

2. PERFORMANCE SECURITY.

2.1 Within 28 days of 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.

- (a) A Bank Guarantee in the prescribed form.
- (b) Government Securities, FDR or any other Government instruments stipulated by the Accepting Officer.

2.2 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.

2.3 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.

2.4 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 lost of securities or any depreciation in the value of securities while in their charge nor for loss of interest thereon.

2.5 In the event of contract being cancelled, under Condition 52, 53 & 54 of General Conditions of Contract, the Performance Security shall be forfeited in full and shall be credited into consolidated Fund of India.

Contd../-

INSTRUCTIONS ON FILING AND SUBMISSION OF TENDER (Contd.....)**3. GENERAL INSTRUCTIONS FOR COMPLIANCE**

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

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

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

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

3.5 The tender shall be signed, dated and witnessed as 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, it liable to be rejected.

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

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

3.8 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.

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

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

Contd../-

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

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

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

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

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

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

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

5. CPM (CRITICAL PATH METHOD)

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

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

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

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

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

.....
 (Signature of Contractor)
 Dated :

Offg DCWE (Contracts)
 For Accepting Officer

{In lieu of IAFW 2162 (Revised 1960)}
MILITARY ENGINEER SERVICE
NOTICE INVITING TENDER (NIT)

1. A tender is invited for the work as mentioned in Appendix 'A' to this **NOTICE INVITING TENDER (NIT)**.
2. The work is estimated to cost as indicated in aforesaid Appendix 'A'. This estimate, however, is not a guarantee and is merely given as a rough guide and if the work costs more or less, a tenderer/bidder will have no claim on that account.
3. The work is to be completed within the period as indicated in aforesaid Appendix 'A' in accordance with the phasing, if any, indicated in the tender from the date of handing over the site, which may be on or about two weeks after the date of acceptance of the tender.
4. Contractors whose names are on the MES approved list and within whose financial category the estimated amount would fall, and unlisted contractors may submit tender/bid subject to other criteria mentioned in Appx 'A'. However in case of term contracts, enlisted contractors of Class SS to E may submit tender. Not more than one tender shall be submitted / uploaded by one contractor / firm. Under no circumstances will a father and his son(s) or other close relations who have business dealing with one another by allowed to tender/ bid for the same contract as separate competitors. Two firms shall be deemed to have business dealing if any of the partners/ proprietor/ director is common among both of them. A breach of this condition will render the tenders/ bids of both the parties liable for rejection.
5. The Office of HQ Commander Works Engineers Hisar will be the Accepting Officer here in after referred to as such for purpose of the contract.
6. Not more than one tender/bid shall be submitted / uploaded by one bidder firm. Under no circumstances will a father and his son(s) or other close relations who have business dealing with one another by allowed to tender/ bid for the same tender as separate competitors. A breach of this condition will render the tenders/ bids of both the parties liable for rejection.
7. The Technical Bid and Financial Bid (Cover -1 and Cover-2) shall be uploaded by the contractor on or before the date & time mentioned in **NIT**. A scanned copy of DD with enlistment details /documents shall be uploaded as cover -1 (Technical bid) of the tender on e-tendering portal. DD is refundable in case the contractor is not considered eligible in technical evaluation of cover 1 resulting in non opening of cover -1. The applicant contractor shall bear the cost of bank charges for procuring and encasing the DD including revalidation of DDs and shall not have any claim from Government whatsoever on this account
8. 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.
9. In case of MES enlisted contractor who has not executed the Standing Security Bond and unenlisted contractor , the Cover-1 shall be accompanied by Earnest Money for the amount mentioned in Appendix 'A' in the form of deposit at call receipt in favour of concerned GE (see Appendix 'A') by a scheduled Bank or in receipted treasury Challan the amount being credited to the revenue deposit of the concerned GE (see Appendix 'A'). The GE will return the earnest money, wherever applicable , to all unsuccessful tenderers / bidders by endorsing an authority on the deposit at call receipt for it's refund, on receipt of intimation from the Accepting Officer to do that.
10. In case of successful contractor i.e the lowest contractor having submitted EMD, he shall have the option of converting the EMD instrument into part of the performance security to be deposited by his within 28 days from the receipt of intimation of acceptance of the tender from Accepting officer.

Contd.../-

NOTICE INVITING TENDER (NIT) (CONTD..)

11. Sample of materials and stores to be supplied by the contractor will also be available for inspection by the bidder at the office of concerned GE during working hours. The bidder is advised to visit the site of work by making prior appointment with GE, who is the executing agency of the work (see appendix 'A'). The bidder shall be deemed to have full knowledge of all relevant documents, samples, site etc whether he has inspected them or not.
12. Any tender/bid which proposes any alternation to any conditions laid down or which proposes any other condition or prescription whatsoever, is liable to be rejected.
13. The uploading of bid implies that bidder has read this notice and the Conditions of Contract and has made himself aware of the scope and specification of work to be done and of the conditions and rates at which stores (as applicable) etc will be issued to him and local conditions and other factors having bearing on the execution of the work.
14. The bidders must be in possession of a copy of the MES Schedule (SSR) (Part-I and Part-II of latest edition) including amendments and errata thereto.
15. Accepting Officer does not bind himself to accept the lowest or any tender/bid or to give any reason for not doing so.
16. The Accepting Officer reserves the right to accept a tender submitted by a Public Undertaking/Small & Medium enterprises (SMEs), giving a price preference /purchase preference over other Tender (s)/bids which may be lower, as per admissible under the Government Policy. No claim for any compensation or otherwise shall be admissible from such tenderer/bidder whose tender/bid is rejected.
17. This **Notice Inviting Tender (NIT)** including Appendix 'A' and Annexures thereto, if any, shall form part of the contract agreement.

.....
(Signature of Contractor)

Offg DCWE (Contracts)
For Accepting Officer

Dated :

APPENDIX 'A' TO NOTICE INVITING TENDER (NIT)

1.	Name of work	:	SPL REPAIR TO INTERNAL ROAD AT VARIOUS LOCATIONS AT ITARANA CANTT, ALWAR UNDER GE ALWAR
2.	Estimated Cost	:	Rs 44.14 Lakhs
3.	Period of completion	:	180 days
4.	Cost of tender documents	:	Rs 500.00 /- (Rupees FIVE HUNDRED only) in the form of Demand Draft (DD) / Banker's cheque from any Scheduled Bank in favour of GE Alwar and payable at Alwar . (Note :- In case of retendering, the contractor who had quoted in the previous call is not required to submit the cost of tender.)
5.	Website/portal address	:	www.defproc.gov.in
6.	Type of tender	:	The tender shall be based on IAFW-2249 and IAFW-1779A with Sch "A" List of items of works to be priced by the tenderers electronically (BoQ)
7.	Information & Details :		
	(a) Bid submission start date	:	Refer critical dates on the website
	(b) Last date of bid submission	:	Refer critical dates on the website
	(c) Date of bid opening	:	Refer critical dates on the website
8.	Eligibility Criteria :		
	(A) For MES enlisted contractors	:	Contractors enlisted with MES in Class 'D' and above and category ' a(v) ' (Road)" subject to satisfactory remarks wrt performance in respect of works in hand as reflected in Work load return (WLR) or any other report circulated by competent engineer authority.
	(B) For contractors not enlisted with MES	:	(i) Contractor not enlisted with MES should meet the enlistment criteria of ' D' class & category ' a(v) ' (Road)" contractor with regard to satisfactorily completion of requisite value works with Central / State Government / Central/State PSUs/ AWHO/ AFNHB/ CGEWHO / DG MAP, Annual turnover, Bank Solvency, working capital and other requirement given in Para 1.4 and 1.5 of Section 1 of MES Manual of Contracts 2020 as available in all MES formations as well as MES website (www.mes.gov.in).. (ii) Not carrying adverse remarks in Work Load Return (WLR) or any other similar report circulated by any competent authority, if already working in MES. (iii) Not suspended / debarred / blacklisted (either permanently or temporarily) from participating in any bid or for business dealings by any central / State Government Department or any Central/State Government PSU or any Autonomous Body under Central/State Government or any Local Body as on the bid submission end date.
	(C) Technical PQC criteria	:	NA
9.	Tender issuing and Accepting Officer	:	CWE Hisar , Hisar Military Station (Tele : 01662-294874, Email ID – cwe.hisar3-mes@gov.in
10.	Executing agency	:	GE Alwar
11.	Earnest Money	:	Rs. 88,300.00 in favour of GE Alwar
11A.	Critical Dates :-		
	(i) Publish Date & Time of Tender	:	22 Aug 2023 at 1800 Hours
	(ii) Documents Download / Sale Start Date & Time	:	22 Aug 2023 at 1800 Hours
	(iii) Bid Submission Start Date & Time (Cover 1 & Cover 2)	:	05 Sep 2023 at 1800 Hours
	(iv) Clarification Start Date & Time	:	NA
	(v) Clarification End Date & Time	:	NA
	(vi) Document Download / Sale End Date & Time	:	12 Sep 2023 at 1800 Hours
	(vii) Bid Submission End Date & Time (Cover 1 & Cover 2)	:	12 Sep 2023 at 1800 Hours
	(viii) Bid Opening Date & Time (Cover 1)	:	14 Sep 2023 at 1100 Hours
	(ix) Bid Opening Date & Time (Cover 2)	:	Will be intimated online after completion of evaluation of technical bid/application (Cover 1).

APPENDIX 'A' TO NOTICE INVITING TENDER (NIT) (CONTD.....)**NOTES :-**

1. After opening of Cover 1, if 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 less than 07 (Seven), applications in respect of contractors one class or two classes (in case of remote and difficult areas to be decided as per list circulated by CE command/ADG) below the eligible class shall also be considered subject to fulfillment of other eligibility criteria given in the NIT. Therefore MES contractors one class below (two classes below in case of remote and difficult areas) may also bid for this tender. However contractors of one / two classes below the eligible class shall not be considered in case their present residual work in hand is more than twice their present tendering limit. Such bidders shall upload in their Cover-1 bid details of works in hand showing name of work, name of Accepting Officers, Contract amount, dates of commencement and completion (stipulated) and progress as on bid submission date. 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 07 (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. Un-enlisted 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 national staying abroad / Indian national taken foreign citizenship, as director(s) shall be considered subject to security clearance from the concerned authority.
4. Contractors enlisted with MES will upload following documents in Cover-1 for checking eligibility :-
 - (a) Application for tender on Firm's letter head.
 - (b) Enlistment letter issued by the Registering Authority duly renewed for the cycle period in vogue.
 - (c) Scanned copy of Demand Draft / Bankers Cheque towards cost of tender and EMD instrument in case SSD bond is not signed at the time of registration.
 - (d) Copy of GST Registration Number of firm.
 - (e) Scanned copy of Bid securing Declaration as per Annexure „A“
 - (f) Any other documents required 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 letter head.
 - (b) Scanned copy of Demand Draft / Bankers Cheque towards 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 I of MES Manual on Contracts 2020.
 - (e) Details of works being executed in MES, if any.
 - (f) Copy of GST Registration Number of firm.
 - (g) Scanned copy of Bid securing Declaration as per Annexure „A“
 - (h) Any other documents required 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.
7. Contractors should ensure that their original physical DDs and Earnest Money Deposit (EMD) instrument (as applicable) reach the office of Accepting Officer within **Seven 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 bidder 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).

APPENDIX 'A' TO NOTICE INVITING TENDER (NIT) (CONTD.....)

	(b) In case of tenders from un-enlisted contractors, 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 alongwith complete address shall be circulated for not opening of their bids for a period of six months commencing from the date of opening of Financial bid (Cover 2).
	(c) In case of tenders from enlisted and un-enlisted 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 finance 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 the 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 reserve 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 the 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) i.e. HQ CWE Hisar Cantt and also on email id 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 entitle for any compensation whatsoever for rejection of his bid.
11.	In case an un-enlisted 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 tendering limit of the MES Class of contractor for which it is eligible. For this purpose, details of the works being executed by such 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 (i.e. he has quoted on pre-revised BOQ), such bid shall be treated as willful negligence by the bidder and his quotation shall be considered non-bonafide. In such cases, the lowest tender shall be determined from amongst the valid / bonafide bids only. Accepting Officer may decide whether to re-tender or consider the lowest bonafide tender for acceptance.
13.	Revoking the offer or revising the rates upward of offering voluntary reduction by the lowest tenderer after bid submission end date shall be considered as a willful default. For the default a penalty of an amount equal to Earnest money shall be levied. In case of an un-enlisted 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 the 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 de-faulting tenderer and his related firm if any, shall not be eligible for this tender in second call or subsequent calls.
14.	Tender to related firm 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 firm shall be final and binding.

APPENDIX 'A' TO NOTICE INVITING TENDER (NIT) (CONTD)

15.	The tenderer attention is invited to ensure compliance of the “ EPF & MP Act 1952 ” as amended subsequently. Before commencement of work the contractor should produce the Provident fund code No to the GE if applicable.
16.	Court of the place from where tender has been issued shall alone have jurisdiction to decide any dispute out of or in respect of this tender. After acceptance of tender, Condition 72 – Jurisdiction of Courts of IAFW-2249 shall be applicable.
17.	<p>Performance security :- An amount equivalent of 5% of the contract sum shall be deposited by contractor (either enlisted or un-enlisted) within 28 days of receipt of the letter of acceptance in prescribed form as specified in condition 19 of IAFW-2249. On receipt of performance security, thereafter work order will be placed, failing which, the contract shall be cancelled and following action shall be initiated.</p> <p>(a) For un-enlisted contractors :- the contractor shall be debarred from the exemption of submitting bid security / earnest money deposit for a period of 6 (six) months from the date , declared disqualified from the exemption from submission of earnest money deposit/ security deposit for all tenders issued by MES during this period. The amount equal to EMD shall be recovered from outstanding dues from any other departments of Central Govt or state Govt/ PSU's / or from any other sources .</p> <p>(b) In case of enlisted contractor the amount equal to earnest money as mention under Para 11 above shall be deposited by contractor through MRO in Govt treasury. Issue of tenderer to such tendere shall remain suspended till the aforesaid amount equal to earnest money is deposited in government treasury. In case, enlisted contractor fails to deposit the month through MRO with in notified time frame, same shall be recovered from security deposit held with the deptt or any dues held with the Deptt. (For other details the tenderer be referred). The relaxation in amount of performance security deposit from 5% to 3 % can be availed by the lowest bidder in terms of GOI MOD letter No 6646/P-2E8/211/2020/DMA (Wks-II) dated 16 Feb 2021, by submitting the under taking in terms of Para 2.2 (c) & (d) of referred letter . In case of if contractor abandons the work or invokes the arbitration clause or any other recoveries are found outstanding from the contractor subsequently during the progress of the work , the difference of 2 % shall be recovered form the any other amount due from the contractor. The relaxation in amount of performance security deposit from 5% to 3% shall be applicable only form tenders with bid submission end date on or before 31 Dec 2022</p>

Signature of Contractor

Offg DCWE (Contracts)
For Accepting Officer

No. 81603/CWE/HSR/ALW-23/2023-24/02/E8

Dated : 22 Aug 2023

Headquarters
Commander Works Engineer
Hisar Military Station
Hisar-125006**Distribution:-****Internal :**E-2 Section - For info wrt TS No 01 issued vide CWE Hisar letter No 22000/02/SRW(Road)/
23-24/03/E2 dt 04 Aug 2023**Notice Board**

**IN LIEU OF IAFW-1779-A (REVISED 1955) TO BE USED IN CONJUNCTION WITH
GENERAL CONDITIONS OF CONTRACTS IAFW-2249**

MILITARY ENGINEER SERVICES

Tele : 01662-294874

REGISTERED POST

Headquarters
Commander Works Engineer
Military Engineer Services
Hisar, Military Station Hisar
Hisar (Haryana)- 125006

81603/CWE/HSR/ALW-23/2023-24/10/E8

11 Sep 2023

**E-TENDER AND ITEM RATE CONTRACT FOR WORKS REQUIRED FOR : SPL REPAIR
TO INTERNAL ROAD AT VARIOUS LOCATIONS AT ITARANA CANTT,
ALWAR UNDER GE ALWAR**

1. M/s _____ of _____ is/ are hereby authorised to tender for the above work. The e-tender duly quoted shall be uploaded on portal of MES e-tendering during the period of bid submission published on website. Bid opening date and time of Technical bid is presently scheduled on **27 Sep 2023 at/after 0900 Hrs.** The hard copies of desired documents must be delivered to office of **Commander Works Engineer, HISAR** within stipulated period mentioned in tender documents addressed to **Headquarter Commander Works Engineer, Hisar - 125006** and marked "**CA NO: CWE/HSR/ALW-23 OF 2023-24 : SPL REPAIR TO INTERNAL ROAD AT VARIOUS LOCATIONS AT ITARANA CANTT, ALWAR UNDER GE ALWAR**".

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

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

(Signature of Contractor)

Dated: _____

Signature of officer issuing the
tender documents
Appointment : Offg DCWE (Contracts)
For Accepting Officer

Dated:

SCHEDULE 'A'

Scope of Work	Job No. :- 02/SRW (ROAD) /2023-24/STN HQ ALWAR/Q 01/SRW (ROAD) /2023-24/STN HQ ALWAR/Q	SPL REPAIR TO INTERNAL ROAD AT VARIOUS LOCATIONS AT ITARANA CANTT, ALWAR UNDER GE ALWAR
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NOTES :-

1. The Bill of quantities (BOQ) annexed to Schedule 'A' shall form an integral part of Schedule 'A'.
2. The entire work under this contract shall be completed within **180 Days** from the date of handing over site, as indicated in W.O. No 1 to be issued by GE.
3. The quantities given in column 3 of BOQ are 'PROVISIONAL' and are inserted as a guide only. The quantities required at site may vary as per actual site requirement. These shall however not be varied beyond the limits laid down in condition 7 of IAFW-2249 (General Conditions of contracts). The payment will be made for the actual quantities of works carried out and measured.
- 4. Rate in column 5 of BOQ are to be entered by tenderers in figure only and uploaded after due validation. In the event of failure to quote rate for any item in BOQ, the same is liable to be rejected.**
5. Unless otherwise stated in BOQ, unit rate inserted in BOQ shall be deemed to include for supplying and fixing or material and labour complete including commissioning and testing.
6. The rate in BOQ shall be deemed to allow for all minor extras and constructional details or minor accessories which are not specifically given in Particular Specifications but are essential for the execution of work in a sound and workman like manner. In case of difference of opinion between the contractor and the GE as to whether or not certain items of work constitute minor extras and constructional details or minor accessories included in the contractor's prices, the decision of the Accepting Officer shall be final and binding.
7. Unless otherwise specified in BOQ or Particular Specifications, unit rate mentioned in BOQ shall be deemed to include for all the provisions in the preambles given in MES Schedule 2020 (Part-II) as applicable to respective items.
8. All materials retrieved from demolition/ dismantling/ taking down/ up except items covered in schedule of credit shall become property of the Government and contractor shall deposit the same in the store yard of concerned AGE.
9. The provision of statutory laws relating to Minimum Wages, EPF ESIC etc shall be strictly adhered to by the contractor and quoted rate shall deemed to include these factors.
10. AS per latest Govt notification, the GST and other taxes as applicable are levible in this work. Contractor shall pay total GST and other taxes liability under this contract and this aspect shall be deemed to be included in rate quoted by the contractor.
11. **DEFECTS LIABILITY PERIOD.** Defects liability period is twenty four calendar months after the work have been handed over to Government.

(Signature of Contractor)
Dated :

Offg DCWE (Contracts)
For Accepting Officer

BOQ

From Page No

15 to 19

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

NOTES :-

- Quantities mentioned in this schedule are "PROVISIONAL". However, rate of recovery indicated in Col 5 is firm and amount of credit shall be worked out accordingly.
- Tenderers are advised to visit the site of work before quoting their rates in Bill of quantities (BOQ) to ascertain the conditions/ quality of materials likely to be retrieved from work.
- Credit on account of old materials/ items shall be effected against quantity actually obtained from site at the rate mentioned in credit schedule. No claim on account of quality of materials/items shall be admissible. This aspect shall be deemed have been considered while quoting rates against of quantities (BOQ).
- Materials retrieved from demolition/ dismantling shall not be allowed for reuse in the work except otherwise specified to be re-used as per relevant items of of quantities (BOQ).
- Any materials other than which has been catered in Credit Schedule shall become Govt. property and contractor shall deposit the same in the store yard of AGE without any extra cost to department.

SNo	Description of items	Unit	Quantity	Rate per unit	Amount
				in Rs	
1	2	3	4	5	6
1.	Old u/s garvel obtained from Scarifying	Cum	10.00	150.00	1500.00
2.	Old u/s Cateye, solar stud	Each	70.00	10.00	700.00
3.	Old u/s solar Delineator	Ech	25.00	5.00	125.00
Total of credit Schedule					Rs. 2325.00

GENERAL SUMMARY

- Total amount of of Bill of quantities (BOQ) brought forward from Srl. Page No. 19 : Rs _____
- Deduct credit amount as per Schedule of Credit on Srl Page No. 20 : **Rs 2325.00 (Minus)**

Contract Sum : Rs _____

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

(Rupees _____
_____)

(Signature of Contractor)
Dated: _____

Offg DCWE (Contracts)
For Accepting Officer

SCHEDULE 'B'**LIST OF MATERIAL TO BE ISSUED TO THE CONTRACTOR****(SEE CONDITION 10 OF IAFW-2249)**

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

----- NIL -----

SCHEDULE 'C'**LIST OF TOOLS AND PLANTS (OTHER THAN TRANSPORT) WHICH WILL BE HIRED TO THE CONTRACTOR****(Refer conditions 15, 34 and 36 of IAFW-2249)**

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

----- NIL -----

SCHEDULE 'D'**TRANSPORT TO BE HIRED TO THE CONTRACTOR****(Refer conditions 16 and 35 of IAFW-2249)**

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

----- NIL -----

(Signature of Contractor)

Dated: _____

Offg DCWE (Contracts)
For Accepting Officer

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

Having examined and perused the following documents: -

1. Specifications signed by *Shri Chandernal, Offg DCWE* (Contracts).
2. BOQ (Schedule 'A', 'B', 'C and 'D' attached hereto.
3. MES Standard Schedule of Rates 2009 (Part-I – Specifications) and MES Standard Schedule of Rates 2020 (Part-II) (Rates) (here-in-after and in IAFW-2249 referred to as the MES Schedule) together with amendments as under: -
SSR 2009 Part-I : 1 to 3
SSR 2020 Part-II : 1 to 122
4. General Conditions of Contracts IAFW-2249 (1989 Print) together with amendment No. 1 to 49 and errata 1 to 20.
5. **Water: - Condition 31 of General Conditions of contracts IAFW-2249**
Water will be supplied by the MES and contractor shall be charged @ R 3.75 per thousand rupees worth of work done.
6. Should this tender be accepted;
I / We agree

***(a) That the sum of Rs 88,300.00 (Rupees Eighty eight thousand three hundred Only)** forwarded as earnest money shall refunded by the Government on receipt of the appropriate amount of security deposit as per Condition 22 of IAFW-2249 (1989 Print).

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

*Delete whichever is not applicable.

Contd....

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

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

Witness _____ Postal Address _____
Address _____ E-mail id _____
_____ Telephone No. _____

ACCEPTANCE

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

The above e-tender was accepted by me on behalf of THE PRESIDENT OF INDIA for the contract sum of R _____ (Rupees _____

_) on the _____ day of _____

Signature _____ dated this _____ day of _____.

Appointment: Commander Works Engineer Hisar
(For and on behalf of the President of India)

GENERAL CONDITIONS OF CONTRACTS

(IAFW- 2249 (1989 PRINT)

FOR

LUMP SUM CONTRACTS (IAFW- 2159)

AND

MEASUREMENT CONTRACTS (IAFW-1779 & 1779-A)

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

(a) General Conditions of Contracts including Condition- 70 pertaining to the settlement of disputes by Arbitration, IAFW-2249 (1989 Print) and Errata 1 to 20 containing **34 pages (Serial page No. 22 to 55)**.

(b) Amendment No. 1 to 48 to IAFW-2249 in **17+7=24 pages (Serial page No. 56 to 79)**.

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

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

Notes:-

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

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

Offg DCWE (Contracts)
For Accepting Officer

(Signature of Contractor)
Dated: _____

MINIMUM FAIR WAGES

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

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

Offg DCWE (Contracts)
For Accepting Officer

Signature of Contractor
Dated :

Notes :-

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

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

SPECIAL CONDITION**1. GENERAL**

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

- 1.1 The work under this contract shall be carried out in accordance with Schedule 'A', the particular specifications, drawings, general specifications and other provisions in MES Schedule.
- 1.2 The term General specifications referred to hereinbefore, as well as referred to in IAFW-2249 (General conditions of contracts), shall mean the specifications contained in the MES schedule.
- 1.3 General Rules, specifications, special conditions and all preambles in the MES schedule shall be deemed to apply to the works under this contract. In case of any discrepancy the provisions in these documents shall take precedence over the aforesaid provisions in the MES schedule.

2. VISIT TO SITE OF WORK BY THE CONTRACTOR

- 2.1 Reference Para 11 and 14 of notice of tender (IAFW-2162) and condition 4 of IAFW-2249. The tenderer is advised to contact the Garrison Engineer for the purpose of inspection of site (s) and relevant documents other than those sent herewith, who will give reasonable facilities for the purpose. The tenderer shall also make themselves familiar with the working conditions, accessibility of site (s), availability of materials and other cogent conditions, which may affect the entire completion of work under this contract.
- 2.2 The tenderer shall be deemed to have inspected the site (s) and made themselves familiar with the working conditions, whether they have actually inspected the site (s) or not.

3. COOPERATION WITH OTHER AGENCIES AT SITE OF WORK

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

4. EMPLOYMENT OF PERSONNEL

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

Contd....

SPECIAL CONDITION (CONTD...)

- 4.2 The GE shall have full powers and without giving any reason to order the contractor immediately to cease to employ, in connection with his contract, any agent, servant or employee whose continued employment is, in his opinion, undesirable. The contractor shall not be allowed any compensation on this account.
- 4.3 The contractor's attention is also drawn to condition 25 of IAFW-2249 in this connection.
- 4.4 Verification of antecedent of contractors representatives/labour deployed at site in connection with execution of work under the contract a per security requirement of user unit/installation shall be responsibility of the contractor and all expenses in connection with verification of antecedents by police authority/security agency shall be borne by the contractor.

5. SECURITY OF CLASSIFIED DOCUMENTS

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

6. VALIDITY OF TENDER

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

7. CRITICAL PATH METHOD (CPM) NETWORK

- 7.1 The time and progress chart to be prepared as per condition 11 of General Conditions of Contracts (IAFW-2249) shall consist of detailed network analysis and a time schedule. The critical path network will be drawn jointly by the GE and the contractor soon after acceptance of tender but before the date of commencement as per work order No 1. The time scheduling of the activities will be done by the contractor so as to finish the work within the stipulated time. On completion of the time schedule a firm calendar date schedule will be prepared and submitted by the contractor to GE, who will approve it after due scrutiny. The schedule will be submitted in four copies within two weeks from the date of handing over the site.
- 7.2 During currency of the work the contractor is expected to adhere to the time schedule and this adherence will be one of the main parameters of the contractor's performance under the contract. During the execution of work the contractor is expected to participate in the reviews and updating of the network as and when called for by the GE. These reviews may be undertaken at the discretion of the GE either as a periodic appraisal measure or when the quantum of work ordered on the contractor is substantially changed through deviation orders or amendments. Any revision of the schedule as a result of the review, will be submitted by the contractor to GE within a week who will approve it after due scrutiny. The contractor will adhere to the revised schedule thereafter. In case of contractor disagreeing with the revised schedule, the same will be referred to the Accepting Officer whose decision will be final, conclusive and binding. GE's approval to the revised schedule resulting in a completion date beyond the stipulated date of completion shall not automatically amount to a grant of extension of time. Extension of time shall be considered and decided by the appropriate authority mentioned in condition 11 of IAFW-2249 and separately regulated.

Contd....

SPECIAL CONDITION (CONTD...)

- 7.3 The Contractor shall mobilise and employ sufficient resources to achieve the detailed schedule within the broad framework of the accepted methods of working and safety.
- 7.4 No additional payment will be made to the contractor for any multiple shift work or other incentive method contemplated by him in his work schedule even though the time schedule is approved by the Department.
8. **RECORD OF MATERIALS AND PURCHASE VOUCHERS:** -
- 8.1 The quantity of materials such as cement, steel, paints, water proofing compound, chemicals for anti-termite treatment and the like, as directed by the Engineer-in - Charge (the quantity of which cannot be checked after incorporation in the works), shall be recorded in measurement books and signed by the contractor and the Engineer-in-charge as a check to ensure that the required quantity has been brought to site for incorporation in the work.
- 8.2 Materials brought to site shall be stored as directed by the Engineer-in-Charge and those already recorded in Measurement book shall be suitably marked for identification.
- 8.3 Contractor shall produce original receipted vouchers/ invoices/Bills alongwith test certificates wherever applicable in respect of following items from the manufacturers and/or their authorised agents for the full quantity of the following materials, as applicable as a pre-requisite before submitting claims for payment of advances on account of the work done and/or materials collected in accordance with condition 64 of General Conditions of contracts-IAFW-2249.
- (i) All grades of Bitumen
 - (ii) Road Furniture items
 - (iii) Road marking paint
- 8.4 Vouchers/ invoices so produced and verified shall be stamped by Engineer-in-Charge indicating contract number. The contractor shall ensure that the materials are brought to site, in original sealed containers/ packing, bearing manufacturer's marking except in the case of the requirement of materials (s) being less than smallest packing.
- 8.5 Bitumen shall be purchased directly from manufacturer's stockist or their authorised dealers only. These vouchers/ invoices shall be defaced by the GE/ Engineer-in-Charge, indicating reference to the contract number, under his dated signature, and CTC thereof shall be kept on record so as to avoid their being used again.
- 8.6 The vouchers/invoices will clearly indicate the contract number and the IS No., specific alternative to which the material conforms in case of various alternative in IS.
9. **APPROVAL OF SAMPLE OF WORKMANSHIP.**
- To determine the acceptable standard of workmanship, sample finishes shall be carried out as directed by GE under close supervision of the Engineer-in-Charge and shall be got approved from the GE.

Contd.../-

SPECIAL CONDITION (CONTD...)**10. MATERIALS AND SAMPLES**

- 10.1 Refer condition 10 of IAFW-2249. The materials and articles, which have been specified from certain makes/ manufacturers, shall be of makes/ manufactures as specified. If the manufacturers specified in tender documents make both ISI marked and conforming to ISI, the materials/articles shall be ISI marked.
- 10.2 The materials and articles, which have not been specified in tender documents by makes/ manufacturers, shall be as under:-
- (a) If ISI marked materials are being manufactured the same shall be ISI marked. For list of ISI marked manufacturers refer website BIS i.e. www.bis.org.in.
- (b) If ISI marked materials are not being manufactured, the same shall be conforming to IS specifications.
- 10.3 Materials of local origin shall be as specified and conforming to samples kept in GE's office. The tenderer is advised to inspect sample of materials which are displayed in the office of GE, before submitting his tender. The tenderer shall be deemed to have inspected the samples and satisfied himself as to the nature and quality of materials, he is required to incorporate in the work irrespective of whether he has actually inspected them or not.
- 10.4 The contractor shall not procure materials and articles unless the samples are first got approved from the GE.
- 10.5 For obtaining sample approval, contractor will download list of BIS marked manufacturers from BIS site www.bis.org.in. He will select manufacture(s) meeting contract specifications criteria and handover the report with a request letter to Engineer-in-Charge with his signature. Engineer-in-Charge will verify its correctness by visiting the BIS site and process it to GE with his recommendations AE/ JE(QS&C) of GE will recheck the same from internet, endorse his recommendation and put up for approval of GE.
- 10.6 The printout having signature of all concerned including GE will be kept on record and approval will be conveyed within 7 days of contractor's request.
- 10.7 After sample approval GE shall send an e-mail to manufacturer (not the authorised dealer) intimating him name of firm, approx quantity of material being procured by the contractor and request the manufacturer to ensure that his product only is purchased by the contractor from proper authorised source. A printout of the e-mail sent to manufacturer shall be kept on record duly signed by the GE and a copy thereof will be sent by post to the manufacturer.
- 10.8 In cases involving suspected procurement of spurious material purchase vouchers shall be verified through the manufacturer and proof of payment shall be obtained from the contractor by Engineer-in-Charge. The payment of such doubtful material shall be allowed only after GE satisfies himself about the genuineness of material.
- 10.9 Where no licensee exists for a particular item as per BIS web site, GE will permit procurement of same conforming to IS from manufacturer to be decided by GE.
- 10.10 Wherever list of make is included in tender document. These shall supersede the name, if any, given in particular specifications. However the makes, if any, given in the Sch 'A' shall take precedence over make mentioned at other places.

11. HANDING OVER OF SITE

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

Contd..../-

SPECIAL CONDITION (CONTD...)**12. DAMAGE TO THE EXISTING STRUCTURES/WORKS**

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

13. APPROACHES

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

14. ROYALTIES

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

15. RELEASE OF PERFORMANCE SECURITY. The Performance Security Deposit mentioned in Condition above may be refunded to the contractor after the expiration of the defects liability period (As mentioned in Sch 'A' NOTE) by the AGE (I) provided always that the contractor shall first have been paid the final bill and have rendered a No-Demand Certificate (IAFW-451).**16. ALLOTMENT OF LAND FOR STORAGE OF MATERIALS INCLUDING TEMPORARY SHEDS, ACCOMMODATION OF LABOUR, CANTEEN, FABRICATING WORKSHOP ETC.**

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

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

17. EQUIPMENTS AND MATERIALS

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

18. MINIMUM WAGES PAYABLE

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

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

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

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

Contd..../-

SPECIAL CONDITION (CONTD...)

- 18.5 The contractor shall have no claim whatsoever, if on account of local factor and/ or regulations, he is required to pay the wages in excess of minimum wages as described above during the execution of work.
19. **OUT OF POCKET EXPENSES**
No out of pocket expenses incurred by the tenderer in submitting the tender shall be reimbursed whether his tender is accepted or not.
20. **WATER**
Water will not be supplied by the MES and the Contractor shall make his own arrangement for water from source outside MD land. In case shallow wells exist on MD land or nallah/rivulets follow through MD land, the contractor can be permitted to draw water from such sources. The water so used shall be potable water. In all cases water used shall be subjected to prior written permission of Engineer-in-charge.
21. **SUPPLY OF ELECTRICITY**
- 21.1 In case the contractor desires to buy electricity from the MES, he shall be charged for the electric energy consumed as applicable at that time/at the rate of **Rs 9.47** (Rupees Nine and paise Forty Seven only) whichever is higher per kilowatt hour for light and power.
- 21.2 Electric supply required for works upto maximum of 10 KVA shall be made available by the MES at the incoming terminal of the main switch .The main switch and KWH meters to register the electric energy supplied shall be provided and installed by the MES. The contractor shall provide all necessary cables, fittings, etc., from the main switch in order to ensure a proper and suitable supply of electricity for the execution of work.
- 21.3 MES do not guarantee for continuity of supply and no compensation whatsoever shall be allowed for supply becoming intermittent or for breakdown in the system.
- 21.4 GE or his representative shall be free to inspect all the power consuming devices or any electric lines provided by the contractor. Any device or electric lines provided by the contractor, which is not to the satisfaction of the GE shall be disconnected from the supply if so desired by him.
22. **CONDITION OF WORKING**
- 22.1 **UNRESTRICTED AREAS**
- 22.1.1 The work lies in UNRESTRICTED AREA. However, the contractor, his agents, servants, work people and vehicles can pass through the unit lines in which case the Engineer-in-Charge shall at his discretion have the right to issue passes, control their admission to the site of work or any part thereof. The contractor shall on demand by the Engineer-in-Charge submit a list of personnel etc, concerned and shall satisfy the Engineer-in-Charge as to the bonafides of such people. Passes shall be returned at any time on demand by Engineer-in-Charge and in any case on completion of work. Routine security checks can be carried out including checks at the time of entry/exit through unit lines.

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SPECIAL CONDITION (CONTD...)

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

23 BLASTING

23.1 Blasting is prohibited

24. LOCATION OF BUILDING AND WORKS

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

25. WATCH WARD & LIGTHING

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

26. CLEANING DOWN

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

27. RETENTION MONEY/ COMPENSATION FOR DELAY

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

28. REIMBURSEMENT/REFUND ON VARIATION IN "TAXES DIRECTLY RELATED TO CONTRACT VALUE"

28.1 The rates quoted by the contractor shall be deemed to be inclusive of all taxes (including GST, Labour welfare cess/tax etc), duties, Royalties, Octroi & Other levies payable under the respective statutes. No reimbursement/refund for variation in rates of taxes, duties, Royalties, Octroi & other levies, and/or imposition/abolition of any new/existing taxes, duties, Royalties, Octroi & other levies shall be made except as provided in Condition 28.2 herein below.

Contd..../-

SPECIAL CONDITION (CONTD...)

- 28.2 The taxes which are levied by Government at certain percentage rates of contract sum/ amount shall be termed as “taxes directly related to contract value” such as GST, Labour welfare cess/ tax and like but excluding Income tax. The tendered rates shall be deemed to be inclusive of all “taxes directly related to Contract value” with existing percentage rates as prevailing on last due date for receipt of tenders. Any increase in percentage rates of “taxes directly related to Contract value” with reference to prevailing rates on last due date for receipt of tenders shall be reimbursed to the contractor and any decrease in percentage rates of “taxes directly related to contract value” with reference to prevailing rates on last due date for receipt of tenders shall be refunded by the contractor to the Govt/deducted by the Govt from any payments due to the contractor. Similarly imposition of any new “taxes directly related to contract value” after the last due date for receipt of tenders shall be reimbursed to the contractor and abolition of any “taxes directly related to contract value” prevailing on last due date for receipt of tenders shall be refunded by the contractor to the Govt/deducted by the Govt from the payments due to the contractor.
- 28.3 The contractors shall within a reasonable time of his becoming aware of variation in percentage rates and/or imposition of any further “taxes directly related to contract value” give written notice thereof to the GE stating that the same is given pursuant to this Special Condition, together with all information relating thereto which he may be in a position to supply. The contractors shall also submit the other documentary proof/information as the GE may require.
- 28.4 The Contractor shall, for the purpose of this condition keep such books of account and other documents as are necessary and shall allow inspection of the same by a duly authorised representative of Government, and shall further, at the request of the GE furnish, verified in such a manner as the GE may require, any documents so kept and such other information as the GE may require.
- 28.5 Reimbursement for increase in percentage rates/imposition of “taxes directly related to Contract value” shall be made only if contractors necessarily and properly pays additional “taxes directly related to contract value” to the Government, without getting the same adjusted against any other tax liability or without getting the same refunded from the concerned Government Authority and submits documentary proof for the same as the GE may require.
29. **OFFICIAL SECRET ACT:** Refer Condition 2-A of IAFW-2249 (General Conditions of contracts). The contractor shall be bound by the Official Secret Act and particularly section 5 thereof.
30. **SITING OF BUILDINGS/ LAYOUT OF PROVISIONAL ITEMS:** No claim shall be entertained and acceptable for any changes in siting of buildings/ change in layout of provisional items, if ordered. Adjustment on account of any variation in the quantity or quality of works will, however be made as a normal deviation but no adjustment will be made on account of lead and lift.
31. **LABOUR REGULATION AND ABOLITION ACT:** Contract Labour) Regulation and Abolition) Act-1970 is applicable to MES Contracts. Rates quoted by the contractor shall be deemed to take into account the cost etc. required to comply with the provisions contained in the said Act and the rules framed under the said Act.

SPECIAL CONDITION (CONTD...)

32. **FOREIGN LABOUR:** The Contractor shall employ only Indian Nationals after verifying their antecedents and loyalty. Foreign Nationals including Labour shall be excluded from all contracts site(s). Contractor's attention is also drawn to the provisions contained in condition 26 of IAFW-2249 and the Official Secret Act, particularly Section -5 thereof.
33. **LOSS OR DAMAGE ON ACCOUNT OF ENEMY ACTION:**
(Applicable for works in Operational / Border Areas)
- 33.1 **Contractor's Plant/ Equipment at site:-** The contractor shall furnish to the Engineer-in-Charge every morning a distribution return of his plants/equipment on the site of work stating the following particulars :-
- (a) Particulars of the plant/equipment, its make, manufacturer's number, model number if any, registered number if any, capacity, year of manufacture, year of purchase etc.
 - (b) Location indicating number (quantity) at each location on the site of works(s).
 - (c) Total number (quantity) on site of work(s).
 - (d) Purchase value on the date of purchase:- For the purpose of this condition, plant/equipment shall include vehicles i.e. trucks and lorries but neither the workman's tools nor any manually operated tools/equipment. The Engineer-in-Charge shall record the particulars supplied by the contractor in the works diary and send the return to the GE for record in his office.
- 33.2 If as a result of enemy action, the contractor suffers any loss or damages, the Govt. shall reimburse to the contractor such loss or damages to the extent and in the manner herein after provided: -
- (a) The loss suffered by him on account of any damage or destruction of his plant/equipment or materials or any part thereof. The amount of loss assessed by the Accepting Officer of the contract shall be final and binding.
 - (b) The compensation paid by him under any law for the time being in force to any workman employed by him for any injury caused to him or to the workman's life.
 - (c) Payment of compensation for loss or damage to any work or part of work carried out. (The amount of compensation shall be determined in accordance with condition 48 of General Conditions of Contract (IAFW-2249). No reimbursement shall be made nor shall any compensation be payable under the above provision unless the contractor had taken air defence precautions ordered in writing by the GE/OC concerned or in absence of such order, reasonable precautions. No reimbursement shall be payable nor any compensation be payable for any plant/equipment or materials not lying at site of work at the time of enemy action.
34. **GST, OTHER TAXES AND DUTIES**
The tendered rates shall be deemed to include GST, taxes and all duties as applicable etc as referred in Condition 10 of IAFW-2249.

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SPECIAL CONDITION (CONTD...)**35. INDEMINITY BOND FOR PAYMENT OF LABOUR, WORKMAN EMPLOYED ON WORKS OR OTHER MONEYS OF TENDER PAYMENTS**

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

36. TESTING OF MATERIALS

- 36.1 It will be mandatory for the contractors to carry out all the tests specified in Appendix 'A' in addition to other tests specified elsewhere such as cement, steel etc in the these tender documents. Cost of material and transportation to different laboratories will be borne by the contractor in addition to testing charges given in succeeding Para's.
- 36.2 The tests shall be carried in presence of Engineer-in-Charge and the same shall be signed by Engineer-in-Charge, contractor and the technical person conducting these tests. Further, the contractor shall submit the test reports to Engineer-in-Charge for record.
- 36.3 For 'A' level tests indicated in Appendix 'A' the contractor may set up site laboratory at his option. However, in case the contractor has not set up the site laboratory and tests are carried out in Zonal (CTL Jaipur) or any other laboratory approved/set up by GE, the recovery shall be made at rates applicable i.e. as given in Appendix 'A'. In case the tests are carried out in site lab, the contractor shall employ a competent technical representative having minimum qualification as Diploma in Civil engineering for carrying out these tests. This qualified person will be in addition to engineer(s) required to be employed for supervision of work in pursuant to condition 25 of IAFW-2249.
- 36.4 For 'B' & 'C' level tests indicated in Appendix 'A', the contractor shall provide all facilities for testing of materials in Zonal laboratory (CTL Jaipur)/ Govt. approved laboratories or test house/Engg Colleges at his own cost. The lump sum / items rates quoted by the contractor shall deemed to be inclusive of these tests. The contractor shall bear the actual charges to 'C' level tests (to be done in labs other than MES labs) irrespective of rates indicated in Appendix 'A'. Wherever it is convenient to get 'B' level tests done by approved tests house/ Engg College, the same can be done at the cost of the contractor and no separate recoveries will be made by the department for the same.
- 36.5 Recoveries on account of testing charges wherever applicable shall be effected from the running account payments due to the contractor payable after completion of respective tests or whenever the test is due, whichever is earlier.

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SPECIAL CONDITION (CONTD...)**37. OUTPUT OF ROAD ROLLERS**

Refer condition 15 of IAFW-2249.

- 37.1 Where road rollers are hired by the Department to the contractor, a logbook for each road roller shall be maintained by the Department recording hours of working of the road roller. In case, however, when the contractor procures road roller from, sources other than the Department, a logbook for each road roller shall be maintained by him for recording hours of work of the road roller. Entries in the log book shall be signed by the contractor or his authorised representative and by the Engineer-in-Charge.
- 37.2 To ensure proper consolidation roller must work for at least number of days assessed on the basis of out put given hereunder. If the roller has not worked for the number of days so assessed, recovery shall be effected from the contractor for the number of days falling short of the days assessed on the basis of output stipulated. The recovery shall be effected as under:-
- Where road roller is hired out only by the Department to the contractor at rates given in Schedule 'C'.
 - Where road roller is hired by the contractor only from sources other than the Department at rate of Rs 1500/- per working day of 8 hours.
 - Where road roller is hired by the contractor from the Department and also from sources other than the Department, at higher of the two rates given in Schedule 'C' of the contract and para (b) above.
- 37.3 The output of road roller required for the work for different items are as under:-

<u>ITEMS OF WORK</u>	<u>OUTPUT PER DAY OF 8 HOURS WORK</u>
(i) Consolidation of formation surface/sub grade	- 1850 Sqm
(ii) Consolidation of stone soling 23 cm thick with 8 to 10 tonnes Roller	- 518 Sqm
(iii) Consolidation of stone soling 15 cm thick - ditto	- 800 Sqm
(iv) Consolidation of water bound macadam (stone metal) including spreading and consolidation with binding material 7.5 cm (spread thickness)	- 372 Sqm
(v) Ditto but 11cm (spread thickness) ditto	- 248 Sqm
(vi) Consolidation of single coat surface dressing	- 774 Sqm
(vii) Ditto but two coat surface dressing	- 558 Sqm
(viii) Consolidation of premixed carpet including seal coat/ semi dense asphaltic concrete resurfacing:-	530 Sqm
(aa) 2 cm thick	- 744 Sqm
(ab) 2.5 cm thick	- 600 Sqm
(ac) 3.0 cm thick	- 530 Sqm
(ad) 4.0 cm thick	- 500 Sqm
(ix) Consolidation of bituminous mixture 2 parts of broken stone metal and one part of sand and bitumen, consolidated thickness 4 cm	- 372 Sqm

Note:-For the thickness other than given above, the output shall be calculated on proportional basis.

- 37.4 The above provisions shall not, however, absolve the contractor of his responsibility of properly consolidating surface as required under the provisions of contract.
- 37.5 Road roller shall not be issued by the Department under Schedule 'C' and shall be arranged by the contractor under his own arrangements. Provision of condition hereinabove shall be deemed amended accordingly.

(Signature of Contractor)
Dated _____

Offg DCWE (Contracts)
For Accepting Officer

PARTICULAR SPECIFICATIONS**1. GENERAL**

- 1.1 The works under this contract shall be carried out in accordance with Schedule 'A', Particular Specification and General Specifications and other provisions in the MES Schedule.
- 1.2 The Term "General Specifications" referred to in para 1.1 above as well as referred in IAFW-2249 (General Conditions of Contract) shall mean the specifications contained in the MES Standard Schedule of Rates – 2009 (Part-I) Specification and MES SSR Part-II (2020) rates.
- 1.3 General Rules, Specifications, Special Conditions and all Preambles in the MES Schedule shall be deemed to be applicable to all works under this contract, unless mentioned otherwise in these tender documents, in which case specifications in these tender documents shall take precedence over the aforesaid provisions in the MES Schedule.
- 1.4 Where specification for any item of work are not given in MES schedule or in these particular specifications or drawing, specifications given in the relevant Indian standard specifications or code practice shall be followed.

1.5 SAMPLES OF MATERIALS (ARTICLES AND RERUIREMENTS)

- 1.5.1 All materials, articles and equipment incorporated in the work shall be brand new and shall be procured from the manufacturer's authorised agents of the manufacturer and these shall be brought at site in original packing. If any article is manufactured in more than one quality, the same of first quality shall be provided. These materials shall be got approved from the GE in writing before placing bulk order for incorporation in the works. Two samples of each article (Except heavy equipment articles for which the decision of GE shall be final and binding) shall be produced by the contractor for the approval of GE well in time, keeping in view the activities agreed in CPM chart. The approved samples shall be signed by GE as well as contractor representative and shall be kept in safe custody till the expiry of the defects liability period.
- 1.5.2 The material, articles and equipment of local origin referred to in SOURCE OF MATERIAL shall be procured from the sources indicated against each and shall conform to the quality and the grading specified in SSR/IS.
- 1.5.3 The materials, articles and equipments except materials listed in Particular Specification Section-II here-in-after shall bear ISI certification mark. If ISI marked materials are not available, then conforming to relevant IS and if conforming to IS are also not available then these shall be of best quality available in the trade as approved by the GE. The decision of the GE in this regard shall be final, conclusive and binding.

1.6 MAKING GOOD

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

- 2 **SCOPE OF WORKS:** All work mentioned in Schedule 'A' and prescribed in particular specifications is included in the scope of this contract.

3. EXCAVATION IN POST HOLES :

Excavation in independent post holes (or similar holes) each not exceeding 0.5 cum shall be described as 'excavation as post holes' and shall include return, fill in, ram and removal of surplus spoil.

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PARTICULAR SPECIFICATIONS (CONTD.....)**4. PAVING WITH PRECAST CONCRETE INTERLOCKING PAVER BLOCKS**

5.1 **DIMENSIONS:** Pre cast blocks shall be of rectangular/ Triangular/ Hexagon/ Zigzag/ I-shaped as directed by GE. Width and height of chamfered edges measured in horizontal and vertical projection will be at least 4mm and will not exceed 6mm. Blocks shall be uniform in shape and shall have no structural faults such as gravel accumulations, hollows or cracks. Pre cast block shall be fairly straight, flat and rectangular and will have no burrs or projections.

6.1 **MANUFACTURING:** Paving blocks shall be casted in an automatic plant working on vibration and simultaneous hydraulic compression from top. Paving blocks shall be procured by the contractor from one of the manufacturers listed in **Appendix 'D' to Particular Specification.**

6.2 **TOLERANCES:** Length & width of paving blocks shall be within a tolerance of $\pm 2\text{mm}$ of the nominal dimensions. Thickness of blocks shall be within tolerance of $\pm 3\text{mm}$ of the nominal thickness.

6.3 **MIX OF CONCRETE:** Paving blocks shall be manufactured out of M-35/M-40 (Design Mix) concrete as stipulated in description of item.

6.4 **TESTING:** Before incorporation in work, paving blocks shall be tested for their compressive strength. Frequency of testing shall be as per test criteria fixed for bricks in Appendix 'A'.

6.5 LAYING

6.5.1 Surface excavation shall be carried out to the required depth and level. Care shall be taken to provide adequate slope during surface excavation to ensure proper drainage. Sub base shall be laid to the specified thickness before laying of paving blocks. Thereafter, brick edging shall be provided to hold the sand and paving blocks in position.

6.5.2 Paving blocks shall be laid after laying a layer of sand to the specified thickness evenly spread over the sub base. Blocks shall be laid in such manner that the same are properly interlocked and the joint between two adjacent blocks is minimum.

6.5.3 After laying the paving blocks, a layer of sand shall be spread over the entire area covered by paving blocks and vibrated by using plate vibrator to fill the joints in the paving blocks. The excess sand shall be removed using brooms.

7. PRECAST KERB STONE

7.1 **DIMENSIONS:** Precast kerb stone blocks shall be of dimension as mentioned in Sch A. Blocks shall be uniform in shape and shall have no structural faults such as gravel accumulations, hollows or cracks. Pre cast block shall be fairly straight, flat and will have no burrs or projections.

7.2 **MANUFACTURING:** "Kerb stone blocks shall be casted in an automatic plant working on vibration and simultaneous hydraulic compression from top. It shall be procured by the contractor from one of the manufacturer listed in **Appendix 'D' to Particular Specification.**

7.3 **TOLERANCES:** Length & width of blocks shall be within a tolerance of $\pm 2\text{mm}$ of the nominal dimensions. Thickness of blocks shall be within tolerance of $\pm 3\text{mm}$ of the nominal thickness.

7.4 **MIX OF CONCRETE:** Kerb stone blocks shall be manufactured out of PCC 1:2:4 concrete.

7.5 **TESTING:** Before incorporation in work, Precast kerb stone blocks shall be tested for their compressive strength. Frequency of testing shall be as per test criteria fixed for bricks in Appendix 'A'.

PARTICULAR SPECIFICATIONS (CONTD.....)**8. ROLLING FORMATION SURFACES**

- 8.1 The formation surfaces shall be rolled to the required gradient and camber with power roller including sprinkling the surfaces with water as required.
- 8.2 Where rolling is not feasible, prior permission of GE shall be obtained in writing for hand ramming. The laying of base course will commence only after the earth formation is approved by GE.

9. DRAINAGE OF EARTH FORMATION

- 9.1 At all time, the formation surface shall be kept drained by the contractor, the contractor shall provide such temporary open drain as may be necessary to prevent accumulation of water from any cause whatsoever.

10. ROAD METAL

- 10.1 Stone metal of soling, WBM and premix carpet shall be from the sources listed in Sources of materials and as approved by GE.
- 10.2 The grading of crushed or broken stone aggregate for WBM shall conform to grading No 2, as specified in claused 20.A.3 of MES SSR Part-I.
- 10.3 Screening of WBM shall be of grading 'B'.

11. POT HOLES

- 11.1 **REPAIR TO POT HOLES** : Pot holes shall be prepared and filled in as mentioned in clause 20A.21.12 on page 20-10 of SSR 2020 (Part-I).
- 11.2 **PATCHING OF POT HOLES** : The pot holes shall be drained off water and cut to a rectangular form with vertical sides. All loose and disintegrated materials shall be removed. The pot holes shall then be filled with premix bituminous macadam after application of tack coat as given in Sch 'A'. The complete operation shall be carried out as per srl clause No 20A.34.2 of SSR (Part-I) 2009 and as indicated in Sch 'A'.

12. BITUMINOUS MACADAM

The work of bituminous macadam shall be carried out as described in BOQ and specified in clause 20.B.3 of MES SSR Part-I.

13. ASPHALTIC CONCRETE DENSE/SEMIDENSE AND BITUMINOUS MACADAM**13.1 MATERIALS**

- 13.1.1 **BINDER** : Binder shall be paving bitumen VG-30 conforming to IS-73-1992. Bitumen shall be procured by the contractor under his own arrangement and cost. The bitumen shall be procured directly from Indian Oil Corporation Ltd/ Bharat Petroleum Corporation Ltd / Hindustan Petroleum Corporation Ltd as approved by GE.

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PARTICULAR SPECIFICATION (CONTD)**13.2 AGGREGATE**

- 13.2.1 The coarse aggregate shall be crushed/broken stone (Sand stone, flint or quartzite) and shall be non-porous, clean, strong, hard, durable, free from impurities dis-integrated pieces organic or deleterious matter and adherent coatings. The coarse aggregate shall meet the physical requirements as specified in clause 20B.2.5.2 on page 538 of MES Schedule 2009 (Part-I).
- 13.2.2 The fine aggregate (sand) shall be as per source of materials conforming to the samples and as approved by GE.
- 13.2.3 The combined grading of coarse/fine aggregate shall conform to as per clause 20.B-2.5.4 on page 538 to 540 of MES Schedule 2009 (Part-I).
- 13.2.4 The tests for aggregate shall be carried out as per the periodicity laid down in relevant IS and to satisfy the physical requirements as mentioned in clause 20.B.2.5.2 of MES Schedule 2009 (Part-I). The cost of these tests shall be borne by the contractor.

13.3 FILLER FOR ASPHALTIC CONCRETE

- 13.3.1 Refer clause 20.B.2.5 of MES Schedule 2009 (Part-I). Filler shall be cement or lime stone dust as directed. Quantity of filler shall be 2% by weight of aggregate mix.

13.4 MIX DESIGN CRITERIA FOR BITUMINOUS MACADAM/DENSE ASPHALTIC CONCRETE/ SEMI-DENSE ASPHALTIC CONCRETE

- 13.4.1 The design requirements shall be as per clause 20.B.2.11 on page 542 of MES Schedule Part-I

13.5 FIELD DENSITY : Field density shall be assumed as 95% of lab density.

- 13.5.1 Mix design shall be got done from any approved Regional laboratory/ (CTL Jaipur) Govt lab/Govt approved lab/Engineering college as directed by GE/Engineer-in – charge and the cost of mix design shall be borne by the contractor. Mix design, conforming to test requirements mentioned here-in-before shall be finally got approved from the GE. However, if there is a variation in the percentage of binder in the approved design mix from as specified in Schedule 'A', price adjustment on either side for Variation in quantity of bitumen shall be done at the rate of Rs 32,000/- per MT. However no price adjustment shall be made for variation in the quantity of aggregate on account of variation in the quantity of binder in the approved design mix. For the purpose of adjustment in the total quantity of bituminous asphaltic concrete, the field density of asphaltic pavement shall be maximum of 95% of the Lab density has been considered 2.3 MT per cubic metre (Minimum) of pavement.

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PARTICULAR SPECIFICATION (CONTD)

The quantity of binder to be adjusted shall be derived from the following formula.

$$Q = A \times T \times d \frac{(P1 - P2)}{100}$$

Where : -

Q= Quantity of bitumen to be adjusted in tonnes

A= Area of Pavement in square metre.

T= Thickness of pavement in metre

d=Field density of the pavement

P1= Percentage of binder specified ie 5.5 or 6 (As per BOQ Item)

P2= Percentage of binder in the approved mix by which work is carried in respect of asphaltic concrete.

NOTES

1. Field density for the purpose of adjustment shall be assumed as 95% of lab density, irrespective of actual density achieved at ground with a permissible limits as specified.
2. The price adjustment shall be carried out through a proper deviation order.

13.6 CONSTRUCTIONAL OPERATION

The work in respect of laying of asphaltic concrete shall commence only after written permission of the Engineer-in-Charge.

13.7 WEATHER & SEASONAL LIMITATIONS

Asphaltic concrete shall not be laid during rainy weather or when the base course is damp or wet.

13.8 PREPARATION OF SURFACES

The surfaces on which asphaltic concrete pavement to be laid shall be thoroughly swept and scrubbed clean and shall be free of dust and other foreign matters.

13.9 TACK COAT

On the prepared surface final course of bitumen macadam, a tack coat of paving bitumen as specified in BOQ shall be spread uniformly with the help of mechanical sprayer, just ahead of asphaltic concrete.

13.10 SURFACE FINISHING

The surface irregularities shall be checked with the help of straight edge along the length of road and the maximum undulation allowed in the surface shall be +/- 3 mm . Freshly laid surface shall be checked with straight edge. In case the irregularities are more than +/- 3mm, surface shall be cut filled to bring the surface within the tolerance. The unit rates quoted by contractor shall be deemed to cater for such contingencies and nothing extra shall be paid to him in case of any extra thickness laid by him. In no case thickness of bituminous asphaltic concrete shall be less than the thickness specified in Schedule 'A'.

13.11 **PREPARATION OF MIX** : Preparation of asphaltic concrete shall be done strictly in accordance with clause No 20-B.4.4 of SSR (Part-I) .

13.12 **TRANSPORTATION OF MIX**:-Transportation of mix shall be done strictly in accordance with clause No 20.B.4.5 of SSR 2009 (Part-I)

13.13 **SPREADING OF THE MIX** : Spreading of the mix shall be carried out strictly in accordance with clause No 20-B.4.6 of SSR 2009 (Part-I).

Contd.../-

PARTICULAR SPECIFICATION (CONTD)

13.14 **COMPACTION** : Compaction shall be carried out strictly in accordance with clause No 20-B.4.7 of MES Schedule 2009 (Part-I).

13.15 **QUALITY CONTROLS** : Controls shall be carried out strictly in accordance with clause No 20-B.4.9 of MES Schedule Part-I. All the tests specified as per the frequency in the controls shall be carried out by the contractor from any approved Regional laboratory/ Govt lab/Govt approved lab/Engineering college as directed by GE/Engineer-in-charge and the cost of these tests shall be borne by the contractor.

13.16 **CONTROLS ON LAID THICKNESS** : Controls on less thickness shall be carried out in accordance with clause No 20-B.4.10 of SSR (Part-I).

14. **HOT APPLIED THERMOPLASTIC ROAD MARKING**

14.1 **GENERAL** :

(i) The work under this section consists of marking traffic stripes using a thermoplastic compound meeting the requirement specified herein.

(ii) The thermoplastic compound shall be screeded /extruded on to the pavement surface in a molten state by suitable machine capable of controlled preparation and laying with surface application of glass beads at a specific rate. Upon cooling to ambient pavement temperature, it shall produce an adherent pavement marking of specified thickness and width and capable of resisting deformation by traffic.

(iii) The colour of the compound shall be white or yellow (IS colour No. 356) as specified in the drawings or as directed by the Engineer.

(iv) Where the compound is to be applied to cement concrete pavement, a sealing primer as recommended by the manufacture, shall be applied to the pavement in advance of placing of the stripes to ensure proper bonding of the compound. On new concrete surface any laitance and/or curing compound shall be removed before the markings are applied.

14.2 **THERMOPLASTIC MATERIAL**

14.3 **GENERAL** : The thermoplastic material shall be homogeneously composed of aggregate, pigment, resins and glass reflectorizing beads.

14.4 **REQUIREMENTS:**

(i) Composition : The pigment, beads, and aggregate shall be uniformly dispersed in the resin. The material shall be free from all skins, dirt and foreign objects and shall comply with requirements indicated in Table below:-

PROPORTIONS OF CONSTITUENTS OF MARKING MATERIAL

(Percentage by weight)

Component	White	Yellow
Binder	18.0 min	18.0 min
Glass Beads	30-40	30-40
Titanium Dioxide	10.0 min	-
Calcium Carbonate and inert Fillers	42.0max	See
Yellow Pigments	-	Note

NOTE : Amount of yellow pigment, calcium carbonate and inert fillers shall be at the option of the manufacture, provided all other requirements of this specification are met.

(ii) **PROPERTIES** : The properties of thermoplastic material, when tested in accordance with ASTM D36/BS-3262-(PartI) , shall be as below:

Contd.../-

PARTICULAR SPECIFICATION (CONTD)(a) **LUMINANCE :**

WHITE : Daylight luminance at 45 degrees-65 per cent min. as per AASHTOM 249

YELLOW : Daylight luminance at 45 degrees-45 per cent min. as per AASHTO M 249

(b) **DRYING TIME:** When applied at a temperature specified by the manufacture and to the required thickness, the material shall set to bear traffic in not more than 15 minutes.

(c) **SKID RESISTANCE:** not less than 45 as per BS 6044.

(d) **CRACKING RESISTANCE AT LOW TEMPERATURE:** The material shall show no cracks on application to concrete blocks.

(e) **SOFTENING POINT:** 102.5+ 9.5° C as per ASTM D 36.

(f) **FLOW RESISTANCE:** Not more than 25 per cent as per AASHTO M 249.

(g) **YELLOWNESS INDEX (FOR WHITE THERMOPLASTIC PAINT):** not more than 0.12 as per AASHTOM 249.

(iii) **STORAGE LIFE:** The material shall meet the requirements of these Specifications for a period of one year. The thermoplastic material must also melt uniformly with no evidence of skins or unmelted particles for the one year storage period. Any material not meeting the above requirements shall be replaced by the manufacturer/supplier/ contractor.

(iv) **REFLECTORISATION :** Shall be achieved by incorporation of beads, the grading and other properties of the beads shall be as specified in here in after.

(v) **MARKING :** Each container of the thermoplastic material shall be clearly and indelibly marked with the following information :

1. The name, trade mark or other means of identification of manufacturer
2. Batch number
3. Date of manufacture
4. Colour (white or yellow)
5. Maximum application temperature and maximum safe heating temperature.

(vi) **SAMPLING AND TESTING:** The thermoplastic material shall be sampled and tested in accordance with the appropriate ASTM/BS method. The Contractor shall furnish to the deptt a copy of certified test reports from the manufacturer, of the thermoplastic material showing results of all tests specified herein and shall certify that the material meets all requirement of this Specification.

14.5 **REFLECTORISING GLASS BEADS**

14.6 **GENERAL :** This Specification covers two types of glass beads to be used for the production of reflectorised pavement markings. Type 1 beads are those which are a constituent of the basic thermoplastic compound vide Table here in before and Type 2 beads are those which are to be sprayed on the surface vide Clause 16.8.

14.7 The glas beads shall be transparent, colourless and free from milkiness, dark particles and excessive air inclusions. These shall conform to the requirements spelt out in Clause 16.8.

Contd.../-

PARTICULAR SPECIFICATION (CONTD)**14.8 SPECIFIC REQUIREMENTS**

A. GRADATION: The glass beads shall meet the gradation requirements for the two types as given in Table as below.

TABLE GRADATION REQUIREMENTS FOR GLASS BEADS

Sieve size	<u>Per cent retained</u>	
	Type 1	Type2
1.18 mm	0 to 3	-
850 micron	5 to 20	0 to 5
600 –do-	-	5 to 20
425 –do-	65 to 95	-
300 –do-	-	30 to 75
180 –do-	0 to 10	10 to 30
below 180 micron	-	0 to 15

B. ROUNDNESS: The glass beads shall have a minimum of 70 per cent true spheres.

C. REFRACTIVE INDEX : The glass beads shall have a minimum re-fractive index of 1.50.

D. FREE FLOWING PROPERTIES : The glass beads shall be free of hard lumps and clusters and shall dispense readily under any conditions suitable for paint striping. They shall pas the free flow-test.

14.9 TEST METHODS: The specific requirements shall be tested with the following methods:

(i) Free-flow test : Spread 100 grams of beads evenly in a 100 mm diameters glass dish. Place the dish in a 250 mm inside diameter desiccators which is filled within 25 mm of the top of a desiccators plate with sulphuric acid water solution (specific gravity 1.10). Cover the desiccators and let it stand for 4 hours at 20 to 29 degree C. Remove sample from desiccators, transfer beads to a pan and inspect for lumps or clusters. Then pour beads into a clean, dry glass funnel having a 100 mm stem and 6 mm orifice. If necessary, initiate flow by lightly tapping the funnel. The glass spheres shall be essentially free of lumps and clusters and shall flow freely through the funnel.

(ii) The requirements of gradation, roundness and refractive index of glass beads and the amount of glass beads in the compound shall be tested as per BS 6088 and BS 3262 (Part-I).

(iii) The contractor shall furnish to the depts a copy of certified test reports from the manufacturer of glass beads obtained from a reputed laboratory showing results of all tests specified herein and shall certify that the material meets all requirements of this Specification. However, if so require, these tests may be carried out as directed by the Engineer-in-Charge.

14.10 APPLICATION PROPERTIES OF THERMOPLASTIC MATERIAL

14.11 The thermoplastic material shall readily get screeded / extruded at temperatures specified by the manufactures for respective method of application to produce a line of specified thickness which shall be continuous and uniform in shape having clear and sharp edges.

14.12 The material upon heating to application temperatures , shall not exude fumes, which are toxic, obnoxious or injurious to persons or property.

Contd.../-

PARTICULAR SPECIFICATION (CONTD)**14.13 PREPARATION :**

(i) The material shall be melted in accordance with the manufacturer's instructions in a heater fitted with a mechanical stirrer to give a smooth consistency to the thermoplastic material to avoid local overheating. The temperature of the mass shall be within the range specified by the manufacture, and shall on no account be allowed to exceed the maximum temperature stated by the manufacturer. The molten material should be used as expeditiously as possible and for thermoplastic material which has natural binders or is otherwise sensitive to prolonged heating, the material shall not be maintained in a molten condition for more than 4 hours.

(ii) After transfer to the laying equipment, the material shall be maintained within the temperature range specified by the manufacturer for achieving the desired consistency for laying.

14.14 PROPERTIES OF FINISHED ROAD MARKING:

(a) The stripe shall not be slippery when wet.

(b) The marking shall not lift from the pavement in freezing weather.

(c) After application and proper drying, the stripe shall show no appreciable deformation or discolouration under traffic and under road temperatures upto 60° C.

(d) The marking shall not deteriorate by contact with sodium chloride, calcium chloride or oil drippings from traffic.

(e) The stripe or marking shall maintain its original dimensions and position. Cold ductility of the material shall be such as to permit normal movement with the road surface without chopping or cracking.

(f) The colour of yellow marking shall conform to IS Colour No 356 as given in IS:164.

15. PAINTING**15.1 GENERAL**

15.1.1 The work "Paint and/or painting" wherever specified/indicated shown on drg shall be deemed to be first quality synthetic enamel paint.

15.1.2 The tint of the paint shall be as approved by GE.

15.1.3 The contractor shall use fresh and first quality paint. The contractor shall obtain the permission of GE in writing well in advance for the makes/brands of paint that he will use in the work. He shall also submit samples thereof. The synthetic enamel paint shall be from any of the firms/Brands as mentioned in Appx 'D' and approved by GE.

15.1.4 The contractor shall, if so required by the GE, produce certificate from the manufacturers or their representative to establish that the brands of paints used by him are of the approved make and brand. Paints shall be brought at the site in manufacturer's drums with seal intact.

15.1.5 Paints used in priming coat (Primer) under coat and finishing coat shall be of the same manufacturer. The paints shall be applied, first using vertical strokes until the surfaces are covered and then brushed cross wise for complete coverage with light strokes so as to smooth out laps and brush marks and finally laid off with vertical strokes. This constitutes single coating of paint.

15.1.6 Surfaces of items to be painted shall be passed by the Engineer-in-Charge and marked as such before each coat is applied. Each coat shall be passed by the Engineer-in-Charge before next coat is applied.

Contd.../-

PARTICULAR SPECIFICATION (CONTD)

- 15.1.7 Unless specified to be treated otherwise in specifications here-in-after, all wooden and wood based surfaces shall be given the priming coat of pink primer, one under coat and one finishing coat of synthetic enamel paint. The priming coat of paint shall be applied before fixing.
- 15.1.8 All surfaces of iron and steel shall be given one priming coat of red oxide Zinc Chrome, one under coat and one finishing coat of synthetic enamel paint. Iron and steel work in reinforcement, galvanised iron or tinned iron work shall however, not be painted.
- 15.1.9 If the under coat of the paint is not executed within six months after applying the priming coat of paint, the priming coat shall be redone again by the contractor at no extra cost to the Govt.

16. DISMANTLING / DEMOLITION / TAKING DOWN

- 16.1 The work of dismantling/ demolition/ taking down shall be done carefully and in a workman like manner. Any damage done by the contractor or his workmen to the electric fittings and appliances fitted in the buildings etc while working shall be made good by him at his own expenses. In case it becomes inevitable, the contractor shall dismantle the fittings/ fixtures carefully and refix after carrying out repair. Nothing extra shall be paid to him on this account.
- 16.2 All the materials retrieved from demolition/ dismantling/ taking down shall become the Government property except those listed in Credit Schedule. The rates inserted by the MES or quoted by the contractor (whichever is more) shall be deemed to include removal or disposal of all waste materials from site of work and site shall be left clean and tidy to the entire satisfaction of Engineer-in-Charge.

(Signature of Contractor)

Dated: _____

Offg DCWE (Contracts)

For Accepting Officer

SOURCES OF MATERIAL

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

NOTES:

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

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

(Signature of Contractor)
Dated: _____

Offg DCWE (Contracts)
For Accepting Officer

**APPENDIX 'A' TO PARTICULAR SPECIFICATIONS
MATERIALS AND THEIR TESTS**

Ser. No.	Materials	Tests	Method of Testing	Frequency of Tests	Level of Tests	Rate per Test in Rs.	Remarks
1	2	3	4	5	6	7	8
1	Bricks	(i) Compressive Strength.	IS :3495 (Part-II)	As per IS : 5454 as given under :- <u>Lot size</u> <u>Sample size</u> <u>Permissible No. of defective bricks.</u> 1001 to 5 0 10000 10001 to 10 0 35000 35001 to 15 1 50000	'A'	180/-	Checks for visual and dimensional characteristics shall also be carried out as per IS : 5454
		(ii) Water Absorption.	-do-		'A'	150/-	
		(iii) Efflorescence	IS-3495 (Part-I)		'A'	180/-	
2	Coarse aggregate	(i) Sieve analysis	IS :2386 (Part-I)	One test for every 16 Cu.m of aggregate or part thereof brought to site.	'A'	120/-	<u>LEGEND</u> A - SITE LAB B - ZONAL LAB (CTL Jaipur) C - NATIONAL TEST HOUSE/SEMT Wing Pune/ Engg College.
		(ii) Flakiness Index	-do-	-do-	'A'	90/-	
		(iii) Estimation of deleterious materials	IS-2386 (Part-I)	One test for every 100 Cu.m of aggregate or part thereof brought to site.	'A'	120/-	
		(iv) Organic impurities	-do-	One test per source of supply	'C'	120/-	
		(v) Moisture Content	-do- (Part-II)	Regularly as required.	'A'	120/-	
		(vi) Specific gravity	-do-	One test for each source of supply	'B'	120/-	
		(vii) Abrasion value and impact value	IS : 2386 (Part - IV)	One test for 16 cum of aggregate or part thereof.	'B'	180/-	

APPENDIX `A' TO PARTICULAR SPECIFICATIONS (CONTD.....)**MATERIALS AND THEIR TESTS**

1	2	3	4	5	6	7	8														
3	Fine Aggregate	(i) Sieve Analysis	IS : 2386 (Part - I)	One test for every 15 Cu.m of fine aggregate or part when brought to site	`A'	180/-															
		(ii) Test for clay, silt and impurities	-do-(Part-II)	-do-	`A'	90/-															
		(iii) Specific Gravity	-do- (Part-II)	One for each source of supply	`B'	180/-															
		(iv) Moisture Content	-do- (Part-II)	Regularly as required subject to two tests/day when being used	`A'	180/-															
		(v) Test for organic impurities	-do- (Part-II)	One test for each source of supply	`C'	180/-															
4	Cement	(i) Setting time	IS : 4031 - 63 affirmed 1980	Once for each consignment or as and when required	`B'	180/-															
		(ii) Soundness	-do-	-do-	`B'	120/-															
		(iii) Compressive strength	-do-	-do-	`B'	360/-															
		(iv) Fineness	-do-	-do-	`B'	120/-															
		(v) Consistency Test	-do-	-do-	`C'	140/															
5	Structural Concrete (M-15 Grade & above).	(i) Slump test or compacting factor test or vee-bee time	IS : 1199	The minium frequency of sampling of concrete of each grade shall be as under:-	`A'	180/-	Random sampling shall be carried out to cover all mix units.														
		(ii) Compressive Strength	IS : 516	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Qty of Concrete in the work</th> <th>No. of Samples</th> </tr> </thead> <tbody> <tr> <td>1-5 cum</td> <td>1</td> </tr> <tr> <td>6-15 cum</td> <td>2</td> </tr> <tr> <td>16-30 cum</td> <td>3</td> </tr> <tr> <td>31-50 cum</td> <td>4</td> </tr> <tr> <td>51 cum & above</td> <td>4+1 for each addnl</td> </tr> <tr> <td>50</td> <td></td> </tr> </tbody> </table>	Qty of Concrete in the work	No. of Samples	1-5 cum	1	6-15 cum	2	16-30 cum	3	31-50 cum	4	51 cum & above	4+1 for each addnl	50		`A'	120/-	As per IS:456 clause 14 for frequency of sample
Qty of Concrete in the work	No. of Samples																				
1-5 cum	1																				
6-15 cum	2																				
16-30 cum	3																				
31-50 cum	4																				
51 cum & above	4+1 for each addnl																				
50																					

APPENDIX `A' TO PARTICULAR SPECIFICATIONS (CONTD.....)
MATERIALS AND THEIR TESTS

1	2	3	4	5	6	7	8	
6	(a) PCC block for walling (Hollow block)	(i) Compressive strength	IS : 2156-1984 (Appx `B')	8 block out of 14	`A'	60/-	<u>Sample:</u> 14 blocks from consignment of every 5000 blocks or part thereof.	
		(ii) Water absorption	-do- (Appx `E')	3 block out of 14	`B'	120/-		
		(iii) Density	-do- (Appx `A')	3 blocks out of 14	`B'	90/-		
	(b) PCC solid block for walling	(i) Compressive strength	IS : 2185	12 blocks out of 18	`A'	60/-	<u>Sample:</u> 18 blocks from consignment of every 1000 blocks or part thereof. These blocks to be checked for dimension and weight.	
		(ii) Water absorption	-do-	3 block out of 18	`B'	120/-		
		(iii) Density	-do-	3 blocks out of 18	`B'	120/-		
7	Cement Flooring tiles/ Terrazzo tiles	(i) Water absorption	IS : 1237 (Appx `D')	6 tiles out of 18	`B'	180/-		Sample of 18 tiles from each source of supply selected at random.
		(ii) Wet transverse strength	IS : 1237 (Appx `E')	6 tiles out of 18	`B'	144/-		
		(iii) Resistance to wear	IS : 1237 (Appx `F')	6 tiles out of 18	`C'	540/-		

APPENDIX `A' TO PARTICULAR SPECIFICATIONS (CONTD.....)
MATERIALS AND THEIR TESTS

1	2	3	4	5	6	7	8
8	Burnt clay roofing tiles (Hand made) as per IS:2690 (Part-II) Length : 150-250 mm Width : 100-200 mm Thickness : 35-50 mm	(i) Water absorption (ii) Compressive strength	IS : 3495 (Part-II) -do- (Part-I)	6 tiles out of 12 6 tiles out of 12	`B' `A'	216/- 180/-	Sample of 12 tiles from each source of supply selected at random
9	Mangalore Pattern roofing tiles	(i) Water absorption (ii) Breaking Load	IS : 654 (Appx `A') -do- (Appx `C')	6 tiles out of 32 6 tiles out of 32	`B' `B'	180/- 120/-	Sample of 32 tiles from each consignment of 3000 tiles or part thereof. These tiles shall be checked for dimension.
10	Timber	(i) Specific gravity and weight (ii) Moisture content	IS:1708 -do-	Minimum 3 samples from a lot of 4 Cu.m or 250 pieces of seasoned timber -do-	`B' `A'	120/- 120/-	
11	Water for construction purposes	(i) Test for Acidity (ii) Test for Alkalinity (iii) Test for solid contents	IS:456 and 3015 -do- -do-	Once at the stage of approval of source of water. -do- -do-	`B' `B' `C'	240/- 240/- 300/-	Also refer clause 4.3 of IS-456 and its subsequent sub clauses regarding suitability of water

APPENDIX 'A' TO PARTICULAR SPECIFICATIONS (CONTD.....)
MATERIALS AND THEIR TESTS

1	2	3	4	5	6	7	8																
12	Welding of steel work	Visual inspection test	IS-822 clause 7.1	100% by visual inspection	Work site	360/-	Specialised tests their method & frequency to be decided on consideration of their importance by the Accepting Officer.																
13	Timber panelled and glazed door/ window shutters including factory made shutters.	(a) Dimensions, sizes, workmanship and finish.	IS: 1003- (Part-I)	Frequency of sampling form each lot shall be as under :-	'A'	180/-																	
				<table border="1"> <thead> <tr> <th>Lot Size</th> <th>Sample Size</th> </tr> </thead> <tbody> <tr> <td>26 to 50</td> <td>5</td> </tr> <tr> <td>51 to 100</td> <td>8</td> </tr> <tr> <td>101 to 150</td> <td>13</td> </tr> <tr> <td>151 to 300</td> <td>20</td> </tr> <tr> <td>301 to 500</td> <td>32</td> </tr> <tr> <td>501 to 1000</td> <td>50</td> </tr> <tr> <td>1001 and above</td> <td>80</td> </tr> </tbody> </table>	Lot Size	Sample Size	26 to 50	5	51 to 100	8	101 to 150	13	151 to 300	20	301 to 500	32	501 to 1000	50	1001 and above	80			
Lot Size	Sample Size																						
26 to 50	5																						
51 to 100	8																						
101 to 150	13																						
151 to 300	20																						
301 to 500	32																						
501 to 1000	50																						
1001 and above	80																						
		(b) <u>Strength Test</u>	IS:1303	From each lot 5% of the factory made shutters shall be tested for strength tests.	Manufacturer																		
		(i) Slamming	-do-																				
		(ii) Impact indentation	-do-																				
		(iii) Shock resistance	-do-																				
		(iv) Edge loading.	-do-																				
		(v) Moisture Content	-do-																				
		(vi) ASCU treatment.	-do-																				
		(vii) Gluing of joints	-do-																				

APPENDIX `A' TO PARTICULAR SPECIFICATIONS (CONTD.....)
MATERIALS AND THEIR TESTS

1	2	3	4	5	6	7	8
14	Plywood (IS:303)	(a) Moisture Content	IS:1734 (Part-I)	Six test pieces cut from each of the boards selected as per table I shall be subjected to tests.	`C'	240/-	Sampling shall be as per IS-7835 tables.
15	Veneered Particle Board (Medium density) IS:3097	(a) Density	IS:2360 (Part-III)	Three test specimens from each sample (size 150 mm x 75 mm).	`C'	60/-	Sampling shall be as per IS:3487 with moisture meter .
		(b) Moisture content	-do-	-do-	`A' & `B'	60/-	
		(c) Water absorption	-do-(Part-16)	-do- but sample size 300 mm x 300 mm	`A'	60/-	
		(d) Swelling due to surface absorption	-do-(Part-17)	-do- but sample size 125 mm x 100 mm	`A'	60/-	
		(e) Swelling in Water	-do-	-do- but sample size 200 mm x 100 mm	`A'	60/-	
		(f) Modulus of rupture	-do-(Part-4)	Three test specimens as per IS:2380	`B'	90/-	
		(g) Screw withdrawl strength	-do-(Part-4)	-do- as per IS:2385	`C'	120/-	

Signature of Contractor

Dated: _____

Offg DCWE (Contracts)
For Accepting Officer

Appendix 'B'

CEMENT SUPPLY/ACCEPTANCE REGISTER

-----NIL-----

Appendix 'C'

(Refer to Para 7 of E-in-C's Branch letter No
3044/Steel/1777/E2 Des-3 dt 10 Jul 2012

STEEL SUPPLY & ACCEPTANCE REGISTER

-----NIL-----

(Signature of Contractor)
DATED: _____

Offg DCWE (Contracts)
For Accepting Officer

Appendix 'D'**LIST OF MAKES/MANUFACTURERS OF EQUIPMENTS/MATERIALS**

SER NO	MATERIAL		NAME OF MANUFACTURERS/BRAND NAME
1.	<u>PRECAST CONCRETE INTERLOCKING PAVER BLOCKS</u>	(i) (ii) (iii) (iv) (v) (vi) (vii) (viii) (ix) (x) (xi)	M/s Mehtab Tiles Rani shopping centre, Bhawar Kuan, Main Road, Indore(MP) -452006 Ultra Tiles M/s NITCO Tiles Pvt Ltd, Maker Chambers-III, Mumbai-400021 Topaz Tiles M/s Navya Tiles Jodhpur M/s Chopdar S-Bees TOJ Cement Product M/s Swastic Tiles, F-660, North Extension, MIA Alwar(Raj) SAP Pavers Jodhpur Sagar Tiles Saharanpur Premier Bars Pvt Ltd Jaipur (Unit-II) (PAVCON) Sukhi Enterprises (SUKHI)
2.	<u>PRECAST CONCRETE KERB STONE</u>	(i) (ii) (iii) (iv) (v) (vi) (vii) (viii) (ix) (x) (xi)	M/s Mehtab Tiles Rani shopping centre, Bhawar Kuan, Main Road, Indore(MP) -452006 Ultra Tiles M/s NITCO Tiles Pvt Ltd, Maker Chambers-III, Mumbai-400021 Topaz Tiles M/s Navya Tiles Jodhpur M/s Chopdar S-Bees TOJ Cement Product M/s Swastic Tiles, F-660, North Extension, MIA Alwar(Raj) SAP Pavers Jodhpur Sagar Tiles Saharanpur Premier Bars Pvt Ltd Jaipur (Unit-II) (PAVCON) Sukhi Enterprises (SUKHI)
3.	<u>Synthetic Enamel Paint</u>	(i) (ii) (iii) (iv) (v) (vi) (vii)	Berger Paints Jenson & Nicholson Nerolac Paints Shalimar Paints Asian Paints ICI Paint Dulux
4.	<u>Thermoplastic road marking paint</u>	(i) (ii) (iii)	Shivalik Automark Jayanti Construction Chemical

(Signature of Contractor)

Dated: _____

Offg DCWE (Contracts)

For Accepting Office

ERATA/AMENDMENT TO APPENDIX 'A' TO NOTICE INVITING TENDER (NIT)**NAME OF WORK : SPL REPAIR TO INTERNAL ROAD AT VARIOUS LOCATIONS AT
ITARANA CANTT, ALWAR UNDER GE ALWAR**

Critical Dates :-		
(i)	Publish Date & Time of Tender	: For : 22 Aug 2023 at 1800 Hours Read : 11 Sep 2023 at 1800 Hours
(ii)	Documents Download / Sale Start Date & Time	: For : 22 Aug 2023 at 1800 Hours Read : 11 Sep 2023 at 1800 Hours
(iii)	Bid Submission Start Date & Time (Cover 1 & Cover 2)	: For : 05 Sep 2023 at 1800 Hours Read : 18 Sep 2023 at 1800 Hours
(iv)	Clarification Start Date & Time	: NA
(v)	Clarification End Date & Time	: NA
(vi)	Document Download / Sale End Date & Time	: For : 12 Sep 2023 at 1800 Hours Read : 25 Sep 2023 at 1800 Hours
(vii)	Bid Submission End Date & Time (Cover 1 & Cover 2)	: For : 12 Sep 2023 at 1800 Hours Read : 25 Sep 2023 at 1800 Hours
(viii)	Bid Opening Date & Time (Cover 1)	: For : 14 Sep 2023 at 1100 Hours Read : 27 Sep 2023 at 1100 Hours
(ix)	Bid Opening Date & Time (Cover 2)	: Will be intimated online after completion of evaluation of technical bid/application (Cover 1).

(Signature of Contractor)

Offg DCWE (Contracts)

Dated: _____

For Accepting Officer