

**CORPORATE OFFICE-CIVIL/DFC CORPORATE OFFICE
TENDER DOCUMENT**

Tender No: HQENWC0MMSDFCCPt1-16215R

Closing Date/Time: 21/02/2023 15:00

GM/TECHNICAL/DFCCIL/CO acting for and on behalf of The President of India invites E-Tenders against Tender No HQENWC0MMSDFCCPt1-16215R Closing Date/Time 21/02/2023 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

1. NIT HEADER

Name of Work	Comprehensive Study on suitability of 60 Kg, 90 UTS Rails on EDFC and 60 E1 1080 HH rails on WDFC for 25 T Axle load operation at 100 kmph on DFCCIL Routes on Consultancy Mode.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	21/02/2023 15:00	Date Time Of Uploading Tender	13/01/2023 18:10
Pre-Bid Conference Required	Yes	Pre-Bid Conference Date Time	23/01/2023 15:00
Advertised Value	57206720.00	Tendering Section	GM/TECH
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par
Earnest Money (Rs.)	436100.00	Validity of Offer (Days)	90
Tender Doc. Cost (Rs.)	11800.00	Period of Completion	9 Months
Contract Type	Service	Contract Category	Expenditure
Bidding Start Date	07/02/2023	Are Joint Venture (JV) firms allowed to bid	Yes
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Revenue

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 1 -Conducting theoretical studies required for finalizing criteria to be followed for selection of rail for operation of 25 T Axle load at 100 kmph on DFCCIL routes (Page No. 100- 103)							11076930.00	
1	i	1.00	Job	2215386.00	2215386.00	AT Par	2215386.00	
Description:- Estimation of bending stresses (as per item 1.1(a) of technical specifications)								
1	ii	1.00	Job	2215386.00	2215386.00	AT Par	2215386.00	
Description:- Estimation of total stresses (as per item 1.1(b) of technical specifications)								
1	iii	1.00	Job	2215386.00	2215386.00	AT Par	2215386.00	
Description:- Estimation of various parameters (as per item 1.1 (c) of technical specifications)								
1	iv	1.00	Job	1107693.00	1107693.00	AT Par	1107693.00	
Description:- Fatigue analysis of rail (as per item 1.2 of technical specifications)								
1	v	1.00	Job	1107693.00	1107693.00	AT Par	1107693.00	
Description:- Estimation of contact stresses of rail (as per item 1.3 of technical specifications)								
1	vi	1.00	Job	1107693.00	1107693.00	AT Par	1107693.00	
Description:- Wear and hardness requirement of rail (as per item 1.4 of technical specifications)								
1	vii	1.00	Job	1107693.00	1107693.00	AT Par	1107693.00	
Description:- Effect of small wheel diameter (as per item 1.5 of technical specifications)								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 2 -Conducting field instrumentation/ studies experiments and submission of report with all details as stipulated under Para-2 of Scope of work (Page No. 100-103 of this tender document)							46129790.00	
2	i	1.00	Job	9225958.00	9225958.00	AT Par	9225958.00	
Description:- Measurement of CDA (item 2.1(b) of technical specifications)								
2	ii	1.00	Job	9225958.00	9225958.00	AT Par	9225958.00	
Description:- Measurement of Track Modulus (item 2.1(a) of technical specifications)								
2	iii	1.00	Job	9225958.00	9225958.00	AT Par	9225958.00	
Description:- Measurement of actual stress under no train load condition (item 2.2 of technical specifications)								
2	iv	1.00	Job	9225958.00	9225958.00	AT Par	9225958.00	
Description:- Measurement of actual stress under train load condition (item 2.3 of technical specifications)								

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2	v	1.00	Job	9225958.00	9225958.00	AT Par	9225958.00
Description:- Measurement of stress-free temperature of LWR/CWR (item 2.4 of technical specifications)							

3. ITEM BREAKUP

No item break up added

4. ELIGIBILITY CONDITIONS

Important : All documents uploaded and remarks / confirmation entered by the bidders against any eligibility condition shall be opened as part of technical bid only

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	(a)Threshold Financial Capacity (as per clause No. 1.3.17.2), and Threshold Financial Capacity:- The tenderer (bidder or JV firm as a whole) must have minimum average annual contractual turnover of V/N or V whichever is less. V= Advertised value of the tender in crores of Rupees, N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous 03 financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Form No. T-8E, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet. 1.3.24.14.9 All other documents in terms of clause 1.3.17 of the above.	No	No	Allowed (Mandatory)
1.1	For JV - Financial Eligibility Criteria is as stipulated under Clause:1.3.24.14.8. The JV shall satisfy the requirement of "Financial Eligibility" mentioned at clause 1.3.17 above. The "financial capacity" of the lead member of JV shall not be less than 51% of the Threshold financial eligibility criteria mentioned at para 1.3.17 above. The arithmetic sum of individual "financial capacity" of all the members shall be taken as JV's "Threshold financial capacity" to satisfy this requirement. Note: Contractual payment received by a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying compliance of the above mentioned financial eligibility criteria in the tender under consideration.	No	No	Allowed (Optional)

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Score minimum 60% in Qualification and Past experience as per criteria laid down in clause 1.3.17.4. For JV-Technical Eligibility Criteria is as per Clause:1.3.24.14.7, and	No	No	Allowed (Mandatory)
1.1	**Definition of Technical Consultancy for this work: Studies on Theoretical/Experimental Rail Stress Analysis (of any type) and/or Dynamic Augmentation based on Field trails, and/or Estimation/Measurement of Track Modulus, and/or Estimation of Derailment forces and/or Measurement (non- destructive testing) of stress-free temperature	No	No	Not Allowed
1.2	1.3.24.14.7 Technical Eligibility Criteria: The technical eligibility for the work as per clause 1.3.17 above, shall be satisfied by either the 'JV in its own name & style' or by any member of JV having equity share of 26% or above in JV'. Note for Para 1.3.24.14.7: Value of a completed work done by a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying his/her compliance to the above mentioned technical eligibility criteria in the tender under consideration.	No	No	Allowed (Optional)
1.3	1.3.24.14.9 All other documents in terms of clause 1.3.17 of the above.	No	No	Allowed (Mandatory)

5. COMPLIANCE

Important : All documents uploaded and remarks / confirmation entered by the bidders against any compliance condition shall be opened as part of technical bid only.

Check Lst

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S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	CHECK LIST FOR DOCUMENTS TO BE SUBMITTED: S.No.Documents to be Attached Tick (Yes/No) 1.The Covering Letter as per format given in the Form No. T-1 2.Power of Attorney of the person signing the tender documents in Original if specific to this work or Attested Copy of the General Power of Attorney of the Company in favor of the person signing the tender in Form No. T-2, Form No.T-6. 3.Certified Copy of Registration of Company/Firm/Agency, Partnership Deed /Memorandum and Articles of Association of the Company/Firm/Agency. 4.Constitution of the Company/Firm/Agency and Form No. T-4in the form prescribed in Form No. T-4, Form No. T-7 (if applicable). 5.Form No. T-1, T-2, T-4, T-5, T-6, T-7, T-8A, T-8B, T-8C, T-8D T-8E (along with all documents mentioned in Forms of T-8 series), IP Form No. I 6.BG in lieu of Earnest Money (if applicable) 7.Complete Tender Document including Corrigendum/ Addendums duly Signed (all pages of bid document) by the Bidder. Important Notes: Documents No. 1 to 7, should be scanned and uploaded along with offer as attachment at website www.ireps.gov.in.	No	No	Not Allowed

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	NOTE to Schedule of Price (Form No.9, Item No.1): For above 7 items 10% payment for each item will be released after submitting the preliminary reports for respective items, 50% payment of each above items shall be done only after submitting detailed report for respective items and after approval of DFCCIL, 20% after submitting final report duly validating the detailed report of above each items on the basis of results obtained on the basis of field studies as per item No 2 of this schedule and balance 20% of all items after submitting Recommendation on following aspects: A.Minimum technical requirements for 60 kg rail section, in terms of steel grade (UTS), proof stress, maximum value of permitted residual stress etc for 25 T Axle load operation at 100 Kmph on DFCCIL routes. B.To ascertain suitability of existing 60 Kg - 90 UTS rail used in EDFC track and 60 E1 1080 HH rail used in WDFC for 25 T axle load operation at 100 Kmph on DFCCIL routes.	No	No	Not Allowed
1.1	NOTE to Schedule of Price (Form No.9, Item No.2): 1. For items above sub items [i to v] of item No.2 - Maximum 20% cost of materials/equipment/sensors etc if purchased for this work only (for which contractor have to submit original cost invoice) shall be made only after materials/equipment/sensors is installed on DFCCIL track and next maximum 50% cost of materials/equipment/sensors etc shall be made only after materials/equipment/sensors starts giving meaningful readings/observations and coherency in instrumentation data is there . The maximum payment on account of supply and installation and functionality of materials/equipment/sensors will be limited to 50% of respective value of items mentioned against item No. 2 (i) to 2 (v) above. For releasing payment on this account Consultant must submit BG of 110% of corresponding amount as per Form No. CA-3. 2. Balance payment for all 5 sub items of item no. 2 above shall be made after completion of complete Jobs.	No	No	Not Allowed
1.2	NOTE to Schedule of Price (Form No.9): 1. Single % age Above/Below/At par w.r.t to Estimated rate to be quoted on whole schedule on website www.ireps.gov.in 2. The Estimated cost of individual items are including 18% GST.	No	No	Not Allowed
1.3	Documents to be enclosed with the FINANCIAL BID (Packet B): Schedule of PriceForm No. T-9	No	No	Not Allowed
2	Price elements of the Tender Bid as per Form No. T-9, herein after called "FINANCIAL BID". The TECHNICAL BID (Packet-A) shall be opened on the date of tender opening and the detailed scrutiny of TECHNICAL BID shall be carried out for responsiveness as per clause 1.3.10.17 of this chapter. The "FINANACIAL BID" (Packet-B) shall be opened only of those tenderers who are found responsive on basis of "Technical bid". The detailed procedure for tender opening and processing is given in Para 1.3.11.	No	No	Not Allowed

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3	1.3.17.5 Methodology for score calculation of Quoted Financial bid of bidders: i)The lowest evaluated financial bid proposal (Clow) shall be given Financial Score of 100 ii)The formula for determining the financial scores (Sf) of all other Proposals is calculated as following: $Sf=100 \times Clow/C$, Where "Sf" is the financial score, "Clow" is the lowest price, and "F" is the price of the proposal under consideration.	No	No	Not Allowed
4	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Preamble and General Instructions to Tenderers/ Consultants (refer Chapter-III of Part-I of RFP Document)	No	No	Not Allowed
1.1	Scope of Work (Terms of References):"Comprehensive Study on suitability of 60 Kg, 90 UTS Rails on EDFC and 60 E1 1080 HH rails on WDFC for 25 T Axle load operation at 100 kmph on DFCCIL Routes on Consultancy Mode " as per scope defined in technical specification (Part-II) of RFP document but not limited to.	No	No	Not Allowed
2	1.1.3The tender documents shall be in two packets system containing TECHNICAL BID and FINANACIAL BID. Detailed credential for technical and financial capability as per the requirement given in clause No.1.3.17 of Part-I, Chapter-III and all tender papers except bill of quantity are to be submitted in "Technical Bid". Price Schedule (Form No. T-9) with % age above or below or at par on the Estimated cost of work of Schedule duly filled are to be submitted in "Financial Bid" online at website www.ireps.gov.in. No physical Form No. T-9 needs to be submitted.	No	No	Not Allowed
2.1	1.1.4Tender shall be submitted as per "General Instruction to Tenderers "forming as part of the complete tender documents.	No	No	Not Allowed
2.2	Tender shall be submitted through online mode only at www.ireps.gov.in. Tender submitted through any other mode will not be accepted. All the required documents (legible) as mentioned in Check list have to be uploaded along with the offer on www.ireps.gov.in failing which, the bid shall be summarily rejected and shall not be considered for further evaluation.	No	No	Not Allowed
2.3	1.1.8Any tender received without Earnest money and cost of tender documents in the form as specified in the tender documents shall not be considered and shall be summarily rejected.	No	No	Not Allowed
2.4	1.1.10Tenderers may note that they are liable to be disqualified at any time during tendering process in case any of the information furnished by them is not found to be true. EMD of such tenderers shall be forfeited. The decision of DFCCIL in this regard shall be final and binding.	No	No	Not Allowed
2.5	1.1.11Information as required as per various Forms to tender document should be submitted by the tenderers without fail strictly as per formats.	No	No	Not Allowed
2.6	1.1.12The validity of offer shall be 90 days from the date of opening of the tender.	No	No	Not Allowed
2.7	1.1.14Present IREPS tendering system having Services under Works module does not support startup for Exemption of Tender cost and Earnest Money Deposit, but as per GOI guidelines these two exemptions for startups are to be ensured. For this purpose any participating Startup firm may select MSE option under the dropdown menu of Exemption Category under Tender Document Cost template/ Earnest Money Deposit template and upload the valid Startup Certificate in place of Udyam Registration Certificate. Under Remarks field of Tender Document Cost/ Earnest Money Deposit template the participating startup Firms may indicate " Startup Certificate Uploaded"	No	No	Not Allowed

Special Conditions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Special Conditions of Contract (refer Chapter-V of Part-I of RFP Document)	No	No	Not Allowed

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Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Packet -A: Capability and responsiveness element of the Tender Bid along with other documents mentioned in para 1.3.17.5, here in after called "TECHNICAL BID".	No	No	Allowed (Mandatory)
1.1	1.3.8 (b) Form of Tender: Tenders not submitted in the proper Forms are liable to be rejected. (i)Documents to be enclosed with the TECHNICAL BID (Packet - A): SNDDescriptionDocuments (1)Offer letter complete.Form No. T-1 (2)Tenderer's capability credentials in accordance with para 1.3.17.5) of Preamble and General Instructions to Tenderers.Form No. T-8A, 8B, 8C, 8D, 8E (3)Various tender formsForm No. T-1, T-2, T4 to T-7 (4)Earnest money in accordance with Para 1.3.10.22 and Cost of Tender Document in accordance with Para 1.3.10.21 of Preamble and General Instructions to Tenderers (Part-I, Chapter-III).	No	No	Allowed (Mandatory)
1.2	Methodology for calculation of Technical score for Qualification and Past experience of the consultant (Refer- Clause-1.3.17.4)	No	No	Not Allowed
1.2.1	Key experts may be same or different for considering different attributes of technical capacity and bidder or lead partner in case of JV must have entered into Memorandum of Association (duly signed and legally valid in India) with proposed Key experts on or before tender opening date for full contract duration. The Presentation of reports and technical discussion has to be done in presence of proposed key experts and all reports must be signed by key experts before submission to DFFCIL by consultant. Any request for substitution of key expert after award of work normally not be considered until it is unavoidable and new key expert must have better credential than the key expert who is proposed to be replaced. If CVs of key experts are not signed by the key expert, the evaluation should be carried without considering these unsigned CVs.	No	No	Not Allowed
1.2.2	Note for item No 1.3.17.4: 1.Value of similar consultancy works payment received in last 7 FY and Current FY by a member in an earlier JV Firm shall be reckoned only to the extent of the concerned member's share in that JV firm for the purpose of calculating Technical capability in the tender under consideration. 2.In case the tenderer/s is a partnership firm, the similar consultancy works payment received in last 7 FY and Current FY shall be in the name of partnership firm only. 3.All similar consultancy contractual payments received in last 7 FY and current FY for consultancy/research works costing more than 5% of estimated project cost (including taxes) of this work shall only be considered for evaluating technical score of any tenderer.	No	No	Not Allowed
1.2.3	Credentials of Tenderer - The tenderer shall provide satisfactory evidence in support of their technical and financial capability, which are acceptable to DFCCIL, as follows: (a)The details of Technical Qualification of Key experts proposed to be engaged by Bidders to be submitted in Form No. T-8A along with documentary proof (Duly certified by the bidder). (b)The details of experience of Key experts (individual as well as institutional) proposed to be engaged by Bidders to be submitted in Form No. T-8B with documentary proof. (Duly certified by the bidder). (c)The details of Journals and Technical paper presentation in international seminars by Key experts proposed to be engaged by Bidders to be submitted in Form No. T-8C with documentary proof (Duly certified by the bidder). (d)The details of similar Consultancy Payment received in Last 7 FY and Current Year (in Rupees) to be submitted in Form No. T-8D with documentary proof. (Duly certified by the clients). (e) Credentials if submitted in foreign currency shall be converted into Indian currency i.e., Indian Rupee as...	No	No	Allowed (Mandatory)
1.3	Tenderers have to submit Hard copy of following documents within 7 Days (in sealed envelope on which name of work and RFP No. to be clearly mentioned) of tender opening in office of GM/Tech/DFCCIL at address given at SL No.22 of Table-1 of chapter-I of part-I, otherwise Bid shall be considered non-responsive: (a)Original copy of all Documents mentioned/listed in Form No. T-8A, 8B, 8C and 8D. (b)Original Copy of BG for Bid security (if any). (c)The Original Copy offer letter (Form No. T-1), Original copy of Affidavits of all JV members (Form No. T-2), MoU for JV bidding (Form No. T-4), Participation form of all JV members (Form No. T-5), Power of Attorney for Authorised Signatory of Bid (Form No. T-6) and PoA for Lead Member (in case of JV) (Form No. T-7). (d)Original Copy of IP Form No. I.	No	No	Not Allowed

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Custom

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	1.3.17 Selection of Consultant by on Quality cum Cost-Based Selection (QCBS) system 1.3.17.1 The selection of consultant will be done on Quality cum Cost-Based Selection (QCBS) system (QCBS system of evaluation is based on the cost committed by the bidder and the Qualification, experience of key experts and Past experience of the bidder) provided the consultant qualify ; (a) Threshold Financial Capacity (as per clause No. 1.3.17.2), and (b) Score minimum 60% score in Qualification and Past experience as per criteria laid down in clause 1.3.17.4, and (c) Bidders bid is found responsive (as per clause No. 1.3.10.17/i). QCBS system of evaluation is based on the cost committed by the bidder and the Qualification and Past experience of the bidder. The work will be awarded to bidder who scores highest combined score as per QCBS system of Bid evaluation. Combined score will be calculated on the basis of Qualification and Past experience of the bidders and Quoted Financial bid of bidders.	No	No	Not Allowed
1.1	Methodology for calculation of Combined score(S) of bidders (refer Clause 1.3.17.3):	No	No	Not Allowed
2	General Conditions of Contract (refer Chapter-IV of Part-I of RFP Document)	No	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
1	Part-1_RFP RailstudyRev_fnl_12012023_Pg1-44_1.pdf	RFP Part 1 of 4 Page 1 to 44
2	Part-2_RFP RailstudyRev_fnl_12012023_Pg45-79_1.pdf	RFP Part 2 of 4 Page 45 to 79
3	Part-3_RFP RailstudyRev_fnl_12012023_Pg80to119_1.pdf	RFP Part 3 of 4 Page 80 to 119
4	Part-4_RFP RailstudyRev_fnl_12012023_Pg120to156_1.pdf	RFP Part 4 of 4 Page 120 to 156

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

Signed By: RAJBIR SINGH

Designation : Manager Civil WC