

**SER-CONST-HQ-ENGG/SOUTH EASTERN RLY
TENDER DOCUMENT**

Tender No: 4354-GRC-CE-C-HQ-68-2022

Closing Date/Time: 09/12/2022 12:00

CE/CON acting for and on behalf of The President of India invites E-Tenders against Tender No 4354-GRC-CE-C-HQ-68-2022 Closing Date/Time 09/12/2022 12:00 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	Consultancy Services for Detailed Project Report and Detailed Design Consultancy in connection with Execution of Final Location Survey, Soil Investigation, Preparation Yard Plans, Slope stability analysis and Submission of various detailed Design & Drawings between (i) Nimpura Reception Yard-Kharagpur 3rd Line (4.40 Km), (ii) Hijli-Nimpura 3rd Line (5 Km), (iii) Nimpura Reception Yard-Kharagpur 4th Line (4.00 Km), (iv) Kharagpur-Tatanagar 4th Line (134.1 Km) & (v) Kalaikunda-Nimpura West Outer-Gokulpur Connectivity Avoiding Nimpura Reception Yard (5 Km) under the jurisdiction of Dy CE/Con/Kharagpur of S. E. Railway. Estimate Nos. 14/FLS-SUR/2022, 15/FLS-SUR/2022, 16/FLS-SUR/2022, 24/FLS-SUR/2022 and 25/FLS-SUR/2022.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	09/12/2022 12:00	Date Time Of Uploading Tender	16/11/2022 15:00
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	32314228.08	Tendering Section	CE/CON/HQ
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	311600.00	Validity of Offer (Days)	60
Tender Doc. Cost (Rs.)	0.00	Period of Completion	6 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	25/11/2022	Are Joint Venture (JV) firms allowed to bid	No
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 A-Execution of all works as detailed in schedule							5796178.00	Above/ Below/Par
1	Please see Item Breakup for details.				5796178.00	AT Par	5796178.00	
Description:- Picking Up of the Final Alignment, Yard Plan & Land Boundary under Non SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B-Execution of all works as detailed in schedule							18609132.08	Above/ Below/Par
2	Please see Item Breakup for details.				45948474.28	(-) 59.50	18609132.08	
Description:- Soil Investigation under SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule C-Execution of all works as detailed in schedule							5053918.00	Above/ Below/Par
3	Please see Item Breakup for details.				5053918.00	AT Par	5053918.00	
Description:- Design & Drawing for Bridges under Non SERUSSOR-2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule D-Execution of all works as detailed in schedule							2300000.00	Above/ Below/Par
4	Lump Sum				2300000.00	AT Par	2300000.00	
Description :- Lump Sum Work under SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule E-Execution of all works as detailed in schedule							555000.00	Above/ Below/Par

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Closing Date/Time: 09/12/2022 12:00

5	Please see Item Breakup for details.	555000.00	AT Par	555000.00
	Description:- Preparation of Schedule for Invitation of EPC Tender under Non SERUSSOR - 2010			

3. ITEM BREAKUP

Schedule Schedule A-Execution of all works as detailed in schedule						
Item- 1 Picking Up of the Final Alignment, Yard Plan & Land Boundary under Non SERUSSOR - 2010						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Aerial survey using DGPS integrated PPK/RTK Drone within an accuracy of 20-25 cm RMSE on the proposal alignment for feasibility study. Survey will be done for a width of around 300m and approach's using stereo photogrammetry technology including Collection of High-Resolution Aerial Imagery of minimum 10 cm GSD (Ground Sample distance) by Drone, performing Aerial triangulation, Digital Terrain Modelling, 3D topographical mapping of 1:1500 & High Resolution Orthophoto mosaic generation. for collection of the details of all existing assets including Picking up of natural and manmade features covering the entire corridor.	Kilometre	152.50	21806.00	3325415.00
2	2	Preparation of detailed Engineering Scale Plan (ESP) drawing, Preparation of Yard Plan diagram in A/4 or A/3 size including index plan & section with the help of contractor's good Theodolite/ Total station mentioning all the details like existing building, bridges, platform, infringement, proposed /new structure etc, as per standard Railway format in scale 1 :1000 or as directed by Engineer in charge. Modification as suggested by Railway Officials shall be incorporated by the contractor and revised ESP shall be submitted. The rates includes all taxes etc. complete. Note for payment: i) Submission of Engineering Scale Plan (ESP) of station yards including signature of construction officers: 80%. ii) Final Approval of ESPs by Railway: 20%.	Each	31.00	13993.00	433783.00
3	3	Preparation and Submission of Detailed Project Report (in soft copy and 6 sets hard copy) including Final location survey, detailed estimate with preparation of detailed schedule of quantity and all other documents required for preparation of DPR except traffic survey.	Each	5.00	73670.00	368350.00
4	4	Manufacturing, supplying and fixing of 1:2:4 precast cement concrete pillar of size 450 mm x 150 mm x150mm and fixing the same with 1:2:4 cement concrete bed of size 450 mm x 250 mm x 250 mm after excavation of pit of size 450 mm x 450 x 450 mm and refilling the pit including painting with contractor's paint along the Railway alignment in railway land for the length of approx 44.1 Km new Line as per Railway's drawing with contractor's all material, all labour, all lead, lift., decent, loading, unloading, GST, carriage, handling, cleaning site etc .complete as directed by the Engineer-in charge.	Numbers	1090.00	270.00	294300.00

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TENDER DOCUMENT**

Tender No: 4354-GRC-CE-C-HQ-68-2022

Closing Date/Time: 09/12/2022 12:00

5	5	Preparation of land schedule in mouza map in tracing cloth in triplicate marking with Railway alignment, boundaries, chainages, curves including table of land schedule mouza wise and area of land mouza wise in acres etc complete in all respect. The work of indentificaion of individual plots in field as shown in mouza maps, taking measurement of structures, trees, ponds, crops, etc identification of departmental land and collection of vesting report, collection of record of rights (ROR) and verification of all plots upto date collection of sale data and rate (Class wise), preparation of rate report, estimates and execution of all other connected activities as per stipulation made in various Govt. orders and land acquisition manual of respective Govt. the works includes preparation of proposal complete in all respect and submission of same to Railway. It also includes incorporation of correction/ alteration/modification , if any , as sugested by State Govt. Officials till such time proposal are admitted by them finally.	Kilometre	152.50	9012.00	1374330.00
					Total	5796178.00
Schedule	Schedule B-Execution of all works as detailed in schedule					
Item- 2	Soil Investigation under SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Exploratory drilling of Boreholes down to required depth, drilling of 150mm diameter boreholes in all type of soils except hard rock and large boulders (boulder core more than 30 cm), including refilling and reinstating surface, and disposing off surplus material including use of mechanical rigs with power operated winches as well as percussion / chieselling tool for advancing through occasional seams of hard strata to be employed, where necessary in Dry area				
1	191011	0m to 10m	Metre	8660.00	1161.50	10058590.00
2	191012	10m to 20m	Metre	8480.00	1277.65	10834472.00
3	191013	20m to 30m	Metre	190.00	1393.80	264822.00
4	191014	30m to 40m	Metre	190.00	1451.88	275857.20
5	191015	40m to 50m	Metre	190.00	1533.18	291304.20
6	191030	Extra for 150mm dia bore in hard Rock/ large Boulder at all levels	Metre	335.00	5226.75	1750961.25
7	191100	Taking out 100mm dia & 450mm long undisturbed samples of soil from bore holes, including provision of air tight containers for packing and, labelling incl. transporting the samples to laboratory. Piston sampler shall be used for extracting undisturbed samples where necessary. Samples shall be collected as per IS 2720	Each	857.00	116.15	99540.55
8	191110	Taking out 100mm dia & 450mm long disturbed samples of soil from bore holes, including provision of air tight containers for packing, labelling and transporting the samples to laboratory. Samples shall be collected as per IS 2720	Each	918.00	116.15	106625.70
9	191120	Conducting standard penetration test as per IS 2131 at approximate 1.5 m intervals in bore holes, as directed by the Engineer in charge	Each	11411.00	174.23	1988138.53
10	191130	Collection of water samples at required intervals	Each	340.00	174.23	59238.20
		Conducting laboratory Tests on collected soil samples as per relevant IS code				
11	191141	Moisture contents/ Dry density	Each	1709.00	290.38	496259.42
12	191142	Atterberg Limit	Each	1709.00	696.90	1191002.10
13	191143	Specific Gravity	Each	1709.00	309.73	529328.57
14	191144	Grain size analysis including Hydrometer analysis	Each	1709.00	569.14	972660.26

**SER-CONST-HQ-ENGG/SOUTH EASTERN RLY
TENDER DOCUMENT**

Tender No: 4354-GRC-CE-C-HQ-68-2022

Closing Date/Time: 09/12/2022 12:00

15	191145	Direct Shear Test	Each	885.00	2293.96	2030154.60
16	191148	Unconfined compression test	Each	885.00	2323.00	2055855.00
17	191149	Tri-axial test	Each	860.00	2323.00	1997780.00
		Conducting Laboratory tests on collected ROCK SAMPLES as per relevant IS code				
18	191151	Density test	Each	320.00	387.17	123894.40
19	191160	Conducting chemical analysis of ground water samples to determine suitability for concreting and aggressiveness in relation to attack on concrete / reinforcement including determination of pH value	Each	885.00	2903.75	2569818.75
20	191170	Conducting chemical analysis of soil samples to determine aggressiveness in relation to attack on concrete / reinforcement including determination of pH value	Each	885.00	3891.03	3443561.55
21	191180	Preparation and submission of Final report giving complete and comprehensive record of investigations, laboratory test reports and calculations in approved format	Each	72.00	66786.25	4808610.00
					Total	45948474.28
Schedule	Schedule C-Execution of all works as detailed in schedule					
Item- 3	Design & Drawing for Bridges under Non SERUSSOR-2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Design of Sub-structure and foundation and making detailed drawings (All structural components excluding Super structure) including GAD for major bridges/Road Over Bridge/Road Under Bridge/Rly Fly over etc. This rate is inclusive of supplying of soft copy of each drawing in CD ROM, one copy in tracing paper & 05 nos. ferro prints. (a) For single spans Bridges of steel/PSC/Composite girder . Mode of payment: 1. Submission of design caluclations and tentative paper print drawing (two copies) and after approval of Railway (Dy. CE/Con/D&D) prima-facia- 30%. 2. After submission of proofed checked copy of design in book form and drawing in tracing film, soft copy and after approval of Railway (CE/CON) -40%. 3. After signature of all concerned and submission of three design booklet, three tracing film and three ferro pring of drawing by the agency - 30%.	Each	3.00	297556.00	892668.00
2	2	Design of Sub-structure and foundation and making detailed drawings (All structural components excluding Super structure) including GAD for major bridges/Road Over Bridge/Road Under Bridge/Rly Fly over etc. This rate is inclusive of supplying of soft copy of each drawing in CD ROM, one copy in tracing paper & 05 nos. ferro prints. (a) For Multi spans Bridges of steel/PSC/Composite girder . Mode of payment: 1. Submission of design caluclations and tentative paper print drawing (two copies) and after approval of Railway (Dy. CE/Con/D&D) prima-facia- 30%. 2. After submission of proofed checked copy of design in book form and drawing in tracing film, soft copy and after approval of Railway (CE/CON) -40%. 3. After signature of all concerned and submission of three design booklet, three tracing film and three ferro pring of drawing by the agency - 30%.	Each	16.00	217572.00	3481152.00

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TENDER DOCUMENT**

Tender No: 4354-GRC-CE-C-HQ-68-2022

Closing Date/Time: 09/12/2022 12:00

3	3	Hydrological survey of Major Bridges including taking long section and 3 cross sections, one at centre line of the proposed bridge and two at suitable selected site at about 100m apart draw to the scale of 5m to a cm and plan the river to the scale to 60m to a cm showing HFL ordinary flood and low water level etc. submission the same for approval of drawing.	Each	19.00	7546.00	143374.00
4	4	Preparation & supply of drawings of different sizes of RCC Box culverts or other types of minor bridges as per the railway standard & modifying the same, if required, as per the instructions of Engineer-in-charge. Mode of payment: 1. Submission of design calculations and tentative paper print drawing (two copies) and after approval of Railway (Dy. CE/Con/D&D) prima-facia- 30%. 2. After submission of proofed checked copy of design in book form and drawing in tracing film, soft copy and after approval of Railway (CE/CON) -40%. 3. After signature of all concerned and submission of three design booklet, three tracing film and three ferro print of drawing by the agency - 30%.	Each	204.00	2631.00	536724.00
					Total	5053918.00
Schedule	Schedule E-Execution of all works as detailed in schedule					
Item- 5	Preparation of Schedule for Invitation of EPC Tender under Non SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Preparation of Schedule for Invitation of EPC Tender as per model EPC document of IR.	Each	5.00	111000.00	555000.00
					Total	555000.00

4. ELIGIBILITY CONDITIONS

Standard Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Submit the scanned copy (In PDF Form) of the documents as per the requirement of financial eligibility criteria of the tender [Refer para 2.3 of tender document {Para 2.3 for tenderer(s) participating as JV firm}]. TENDERS NOT ACCOMPANIED BY THESE DOCUMENTS WILL BE SUMMARILY REJECTED.	No	No	Allowed (Mandatory)

Submission of Document Verification Certificate

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please submit a certificate in the prescribed format (please download the format from the link given below) for verification / confirmation of the documents submitted for compliance of eligibility / qualifying criteria. Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summary rejection of your offer. (Click here to download the Format of Self Certificatio)	No	No	Allowed (Mandatory)

Standard Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Submit the scanned copy (In PDF Form) of the work(s) completion certificate(s) as per the requirement of Technical eligibility criteria of the tender [Refer para 2.3 of tender document {Para 2.3 for tenderer(s) participating as JV firm}]. TENDERS NOT ACCOMPANIED BY THESE DOCUMENTS WILL BE SUMMARILY REJECTED.	No	No	Allowed (Mandatory)
1.1	Defination of Similar Work :- Any Civil Engineering survey work.	No	No	Not Allowed

5. COMPLIANCE

Commercial-Compliance

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TENDER DOCUMENT**

Tender No: 4354-GRC-CE-C-HQ-68-2022

Closing Date/Time: 09/12/2022 12:00

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1	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	Option of Payment through Letter of Credit (L.C.): Tenderer(s) may submit option for taking payment through Letter of Credit (L.C.). [Refer para 7.1 of tender document].	No	No	Not Allowed
2	Credentials if submitted in foreign currency shall be converted into Indian currency i.e., Indian Rupee as under: The conversion rate of US Dollars into Rupees shall be the daily representative exchange rates published by the Reserve Bank of India for the relevant date. Where, relevant date shall be as on the last day of month previous to the one in which tender is invited. In case of any other currency, the same shall first be converted to US Dollars as on the last day of month previous to the one in which tender is invited, and the amount so derived in US Dollars shall be converted into Rupees at the aforesaid rate. The conversion rate of such currencies shall be the daily representative exchange rates published by the International Monetary Fund for the relevant date.	No	No	Not Allowed
3	Electronic Reverse Auction (eRA) is applicable in works tender valued more than Rs 50 crore in each case. [Refer para 7.2 of tender document].	No	No	Not Allowed
4	Contract under EBR (IF): It is agreed by and between the parties that Railway shall continue to be held responsible for all obligations, risk and liabilities, whatsoever, arising out of or in connection with the Principal agreement and this novation agreement, whether during the progress of the work or after its completion. It is further agreed and understood by and between the parties that IRFC shall be the owner of assets, if any, arising out of execution of works as defined in the Principal Agreement, except the land whose ownership shall continue with Railway. Accordingly, the invoices shall be issued by capturing GSTIN of contractor (as the supplier) and GSTIN of IRFC (as bill to party). Also, the contractor shall submit the invoice, issued in the name of IRFC, to railway for processing payment by Railway to contractor subject to applicable TDS under the Income Tax, GST or any other applicable laws. It is further agreed by and between the Parties that IRFC shall be responsible to comply with Income Tax and GST laws in relation to filing of returns.	No	No	Not Allowed
5	There are several changes in the tender document after the new GCC April 2022 is issued. Tenderer(s) are requested to go through the tender document & GCC carefully before the submission of the offer.	No	No	Not Allowed
6	Clarification of Bids: To assist in the examination, evaluation & comparison and pre-qualification of the Tender, the Railway may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder that is not in response to a request by the Railway shall not be entertained or considered. The Railway request for clarification and the response of the bidder in this regard shall be in writing. However, if a Bidder does not provide clarification of its bid by the date and time communicated in the Railway request for clarification, the bid shall be evaluated as per the documents submitted along with the bid.	No	No	Not Allowed
7	All General Instructions are available in the uploaded tender document.	No	No	Not Allowed
8	In case, submission of Bid Security in the form of Bank Guarantee, the original Bank Guarantee should be delivered in person to the Railway Official within 5 working days of deadline of submission of bids. Nominated officials are AXEN/Con/Works & Arbitration/GRC, S. E. Railway, Kolkata-700043 and Dy CE/Con/Kharagpur, Office of the Dy CE/Con/Kharagpur, S. E. Railway.	No	No	Not Allowed

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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Closing Date/Time: 09/12/2022 12:00

1	SCANNED COPY (IN PDF FORM) OF ALL THE DOCUMENTS OF THE JOINT VENTURE (JV) FIRM AS MENTIONED IN THE PARA 2.3 OF THE TENDER DOCUMENT. IF THE TENDERER IS A JOINT VENTURE FIRM, ALL THE REQUIRED DOCUMENTS SHOULD BE UPLOADED HERE. For all other type of firms (Other than JV firms) the tenderer has to upload the scanned copy (In PDF Form) of all the documents as mentioned in clause 2.3 of the tender document.	No	No	Allowed (Mandatory)
2	Scanned copy (In PDF Form) of the Vendor Mandate Form as per specific format provided in the para 4 of tender document. The Tenderer is required to declare Bank details and A/C No. etc. in Vendor Mandate Form.	No	No	Allowed (Mandatory)
3	Scanned copy (In PDF Form) of the complete address of the firm as per para 1 of tender document, to which the all correspondences shall be made by the railway.	No	No	Allowed (Mandatory)
4	Scanned copy (In PDF Form) of valid Provident fund (PF) Code Number of the establishment/tenderer.	No	No	Allowed (Mandatory)
5	Scanned copy (In PDF Form) of Goods and Services Tax (GST) Registration Certificate containing GST Registration Number.	No	No	Allowed (Mandatory)
6	Scanned copy (In PDF Form) of certificate by tenderer for site visit & familiarization (Refer para 11 of tender document).	No	No	Allowed (Mandatory)
7	Scanned copy (In PDF Form) of declaration by tenderer as per para 6 of tender document.	No	No	Allowed (Mandatory)
8	Scanned copy (In PDF Form) of the list of the persons of the tenderer on hand & proposed to be hired for this tender.	No	No	Allowed (Mandatory)
9	Scanned copy (In PDF Form) of list of the plants & machinery of the tenderer available on hand and proposed to be inducted & hired for this tender.	No	No	Allowed (Mandatory)
10	Scanned copy (In PDF Form) of list of the arbitration/court cases of the tenderer during last three years.	No	No	Allowed (Mandatory)
11	Scanned copy (In PDF Form) of the sub contractor's work experience certificate (Please refer Clause 13.37 of tender document).	No	No	Allowed (Mandatory)
12	Bid Security is required to be submitted/uploaded as per para 12.3 of tender document.	No	No	Allowed (Mandatory)
13	Scanned copy (in PDF Form) of Power of Attorney as para 2.3.10 of tender document.	No	No	Allowed (Mandatory)

Undertakings

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	I/ We have visited the works site and I / We am / are aware of the site conditions.	No	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
1	GCCApril-2022.pdf	GCC 2022
2	GCCCorrigendumNo1.pdf	GCC Corrigendum No 1
3	TD68-2022.pdf	Tender Document

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.

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Signed By: ASHOKE KUMAR SAHA

Designation : AXEN/C/W-A/GRC