

CGM/N/MUMBAI acting for and on behalf of The President of India invites E-Tenders against Tender No **MUM_NE_N_RUB_LC-127** Closing Date/Time 18/07/2022 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	Construction of Twin Box RUB (2x5.5x4.70m by Box Pushing Method) in lieu of LC no. 127 at KM 237/23-25 in Navsari Railway Station Yard between Valsad-Surat Railway station of Virar - Surat Section of Mumbai Division of Western Railway.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	18/07/2022 15:00	Date Time Of Uploading Tender	
Pre-Bid Conference Required	Yes	Pre-Bid Conference Date Time	30/06/2022 11:00
Advertised Value	54689226.72	Tendering Section	TENDER
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	1093800.00	Validity of Offer (Days)	120
Tender Doc. Cost (Rs.)	11800.00	Period of Completion	11 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	04/07/2022	Are Joint Venture (JV) firms allowed to bid	Yes
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule A-Execution of all works a per Schedule A (items as per IR USSOR 2019)							8200287.48	Above/Below/Par
1	22011	7448.00	cum	264.71	1971560.08	AT Par	1971560.08	
	Description:- Earthwork in excavation for foundations and floors of the bridges, retaining walls etc. including setting out, dressing of sides, ramming of bottom, getting out the excavated material, back filling in layers with approved material and consolidation of the layers by ramming and watering etc. including all lift, disposal of surplus soil upto a lead of 300m, all types of shoring and strutting with all labour and material complete as per drawing and technical specification as directed by Engineer in charge. All Kinds of soil.							
2	12020	2000.00	cum	191.02	382040.00	AT Par	382040.00	
	Description:- Earthwork in filling in embankment, guide bunds, around buried typeabutments, bridge gaps, trolley refuges, rain bunds, if provided, platforms etc. with earth excavated from outside railway boundary entirely arranged by the contractor at his own cost as per RDSO's latest guidelines and specifications and special condition of contract including all leads, royalty, lifts, ascents, descents, crossing of nallahs or any other obstructions. The rates shall include all dressing of bank to final profile, demarcation and setting out of profile, site clearance, removing of shrubs, roots of vegetations growth, heavy grass, benching of existing slope of old bank, all handling/re-handling, taxes, octroi and royalty etc. as a complete job. Cut trees shall be property of railways and to be deposited in the railway godown unless specified otherwise in the Special Conditions of Contract. Types of good quality soil, as acceptable to Engineer-in-Charge.							

3	12030	2000.00	cum	47.04	94080.00	AT Par	94080.00	
	Description:- Extra for mechanical compaction of earth/blanketing material filled in embankment with contractor's rollers of suitable capacity, type and size to achieve specified density as per specification, testing as per IS codes including cost of water, T&P, consumable and all labour as a complete job. The work is to be executed as per Latest edition of "Guidelines for Earthwork in Railway Projects" issued by RDSO, Lucknow.							
4	52263	120.00	Metre	2212.52	265502.40	AT Par	265502.40	
	Description:- 600 mm dia. R.C.C. pipe.							
5	52264	1200.00	Metre	2992.67	3591204.00	AT Par	3591204.00	
	Description:- Providing and laying non-pressure NP3 class (medium duty) R.C.C. pipes including bends etc with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1cement: 2fine sand) including testing of joints etc. complete above 800mm dia. 900 mm dia. R.C.C. pipe.							
6	25020	980.00	Sqm	142.05	139209.00	AT Par	139209.00	
	Description:- Providing and applying two coats of coal tar or bitumen conforming to IS 3117 - 1965 on the top and sides of RCC box/slabs @ 1.70 Kgs / Sqm after cleaning the surface with all labour and materials complete job as directed by the Engineer							
7	52030	200.00	cum	1604.15	320830.00	AT Par	320830.00	
	Description:- Supply and laying of quarry dust including consolidation, supply of all materials, labour, lead, lift, tools, plants, crossing of tracks as per drawing and technical specification as directed by the Engineer incharge in case loose slush is encountered at site of foundation before casting the foundation or before laying the filtering media.							
8	52071	3000.00	Kg	257.48	772440.00	AT Par	772440.00	
	Description:- Sealing of cracks/porous concrete by injection process through nipples/Grouting complete as per Technical Specification. Neat Cement Grout with 20 % anti shrinkage compound w.r.t. cement							
9	52290	2500.00	HP Hour	35.23	88075.00	AT Par	88075.00	
	Description:- Dewtaring of natural or accumulated water from any location. Payment to be done for Horse power of pump multiplied by pumping hours.							
10	52350	1300.00	Sqm	382.19	496847.00	AT Par	496847.00	
	Description:- Surface protection of Underside of Bridge Decks, Girders, Inside of Box Girders, Railings etc. of Bridges and Piers and Substructures which are not in River Bed by cleaning and drying the surface; repairing local defects, e.g. honeycombs with a paste of cement admixed with 5% by weight of cement of Polymer bonding agent, applying (@ 0.30 litre/sqm) a coat (DFT of 100-150 micron) of a translucent brown coloured modified phenolic resin based single component high performance polymeric waterproofing compound (sp. gr. 0.87, rosin content nil and a solid content of minimum 0.47%), applying (@ 0.25 litre/sqm) a top coat of a modified phenolic resin based single component waterproofing compound of grey or other shades (sp. gr. 0.85) before the base coat becomes tack-free; permitting the coatings to cure and dry naturally; the 2-coat system shall be impermeable under a water head of 20m, complete as per specification.							
11	13111	400.00	Metre	196.25	78500.00	AT Par	78500.00	
	Description:- providing and removing barricading with the help of portable fencing along running track where work is to be done in close vicinity of track. Fencing shall consist of self supporting steel angles of size 50mm x 50mm x 6mm, 1.5m long provided with hooks etc. and embedded in CC 1:2:4 block of size 0.23m x 0.23m x 0.23m placed at c/c distance of 2m along track. 12mm dia rods in three horizontal layers shall be tack welded with angle posts.{Note : Released material will be property of the contractor after completion of work. Cost of cement to be paid separately. With provision of one 50mm wide retro-reflective tape in horizontal direction, duly secured/tight with vertical posts.							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B-Execution of all works as per Schedule B (NS items for concrete related works)							19679897.25	Above/Below/Par
1	NS1	391.00	cum	6691.05	2616200.55	AT Par	2616200.55	
	Description:- Providing & filling in foundation with ordinary cement concrete M 15 mix and providing necessary vertical pin headers including formwork vibrating ramming & curing complete							
2	NS2	735.00	cum	9218.78	6775803.30	AT Par	6775803.30	
	Description:- Providing and casting in-situ controlled cement concrete of M30 grade for RCC work for Thurst Bed Retaining wall with 20/40mm down coarse aggregate of the required size for any depth including dewatering, scaffolding centring, shuttering, mixing, placing in position, consolidating with mechanical vibrators, curing, de-shuttering carefully, making good the damages, fixing embedment, inserts, pockets, wherever necessary as per specification and drawing.							
3	NS3	588.00	cum	9218.78	5420642.64	AT Par	5420642.64	
	Description:- providing and casting in sit controlled cement M35 for RCC work in RCC Box as per drawing including centering shuttering scaffolding where necessary currying vibrating curing and finishing complete.A)height from 0.0 to 5.0 m							
4	NS4	512.00	cum	8475.33	4339368.96	AT Par	4339368.96	
	Description:- providing and casting in situ controlled cement M30 for RCC work in Road and Wearing coat as per drawing including centering shuttering scaffolding where necessary laying vibrating curing and finishing complete.							
5	NS5	610.00	cum	865.38	527881.80	AT Par	527881.80	
	Description:- Providing & construction of selected granular layer, below box, retaining wall, wing/return wall and approach road as per technical specifications, drawings or as directed by engineer in charge.							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule C-Execution of all works as per Schedule C (items as per IR USSOR 2019 for steel and structural steel works)							21063315.00	Above/Below/Par
1	25072	248800.00	Kg	70.53	17547864.00	AT Par	17547864.00	
	Description:- Supplying Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.Thermo-Mechanically Treated bars.							
2	52140	30.00	MT	117181.70	3515451.00	AT Par	3515451.00	
	Description:- Providing, cutting, fabricating, treating, fixing structural steel as per IS:2062 in access ladders (top of girder/slab to pier cap), inserts, platforms, railing, trolley refuges, drain pipes etc. by drilling holes and grouting with C.C. as per specifications including painting with two coats of approved paint over two coats of primer. (cement for grouting shall be paid separately).							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule D-Execution of all works as per Schedule D (NS items as per WR for Box Pushing works)							4245726.99	Above/Below/Par
	NS1	23.00	Running Metre	68594.75	1577679.25	(-) 27.00	1151705.85	

1	<p>Description:- Pushing RCC Box (size 2 x 6.00m x 4.70m) making all necessary arrangements of sufficient number of jacks and its consumables like hydraulic oil etc., arrangements for electricity, Generator minimum 30 KVA, arrangements for smooth pushing work, if any, together with all labour and material, The rate includes the cost of operating the jacks, protection of track for any variations in the track geometry, stabilizing the earth using bentonite or other protections. Necessary arrangements like gunny bags filled with sand shall be made to deal with any unexpected requirements. The contractor has to utilize the thrust bed prepared for the purpose of pushing as per the directions of Engineer in charge. No additional payment shall be made for skilled or unskilled labour used in the item. The rate includes the cost of designing the thrust bed. The payment for construction of thrust bed and RCC box shall be made under relevant USSOR items. The design of the thrust bed shall be finalized only after the approval of Engineer in charge.</p>							
2	NS2	1400.00	Sqm	1977.10	2767940.00	(-) 19.00	2242031.40	
	<p>Description:- Providing, Fabricating & laying of 15 colour coated Galvalume (Proflex system roofing) material for self supported roofing system (Technology similar to Proflex system provided by M&B engineering Pvt.Ltd., Ahmedabad), Material shall be of following specification, BMT 0.90mm to 1.00mm, APT 0.95mm Tolerance +/- 0.02mm thick, width 605 mm or as decided by Railway (Tolerance +/- 2mm), including supplying, loading, transporting, unloading and staking at site, fabricating and laying with all contractors tools, plants, machineries materials and fixtures labours including all lead and lift and laps/ wastage if any etc. complete. The colour of sheet will be decided by Railway. The rate is also inclusive of designing of roofing system, proof checking and providing execution drawing. Fabrication and installation of self supported roofing technology similar to Proflex System provided by M&B engineering Pvt.Ltd., Ahmedabad or decided by engineer. Note: The roofing system should be self supported roofing system (i.e. without trusses, purlings or any ancillary supports_ shall be designed by the Contractor through the consultant and got duly proof checked from VITI / Indian Institute of Technology, Mumbai, any other Govt. agencies. Design and drawing will be approved by Railways. For design of roofing system relevant load parameters of IS code of practice to be adopted. The cost of designing and proof checking of design and drawings will not be paid separately and these charges are deemed to be included in rates of this item. The rates shall also inclusive of preparation of necessary auto cad drawing required for execution of roofing system should be 100% leak proof, resistant to corrosion and maintenance free.</p>							
3	NS3	250.00	cum	225.89	56472.50	(-) 34.00	37271.85	
	<p>Description:- Spreading of ballast- Leading lifting and spreading of stone ballast with contractor's own labour, supervisor, tools and plants, consumables etc. complete including all lead lift descent crossing lines, making required profile etc complete as per specification and special conditions and detailed scope of work furnished in the tender and as directed by the Railway engineer in charge.</p>							
4	NS4	300.00	Per Day	288.40	86520.00	39.00	120262.80	
	<p>Description:- Protection of track and other misc work as and when required by the Engineer in Charge arranging of labours for various works such as protection of track etc. with contractor's tools and plants, equipment hand signal flags, spanners, hammers etc. complete as per specification and special conditions and detailed scope of work as furnished in the tender and as directed by Engineer in charge of the work. Note- For paying the quantities , a total of 12 hours duty of a man will be counted a man day.</p>							
5	NS5	600.00	Sqm	512.96	307776.00	(-) 3.00	298542.72	
	<p>Description:- Shoring for the protection against slope failure as per site condition with sufficiently rigid frame of structural sheet i.e. with MS angles, channels, pipes, sheets/battens etc. with suitable anchoring arrangements/ fixing as and when required as per instructions of Engineer in Charge.</p>							
6	NS6	414.00	cum	823.95	341115.30	(-) 51.00	167146.50	

	Description:- Uncoursed hand-packed DRY RUBBLE FILLING (in work like rubble filling behind abutments etc) without any special dressing of stones. Rate includes loading, unloading, T&P, Transportation, taxes etc. complete.							
	NS7	30.00	Sqm	3708.76	111262.80	(-) 19.00	90122.87	
7	Description:- Providing SIGNAGE BOARDS of 2mm thick aluminum sheets backing and pasted with retro reflective sheeting of EG (Engineering Grade) on the background with colour, pattern & Designs as per approved drawings And with Signages cut out of retro reflectivesheeting of EG (Engineering grade) of approved pattern, design, text as per approved drawings and super imposed on the first layer. The sizes and shapes of aluminum backing will be as directed by the Railway Engineer and payment will be made for the area of aluminum backing after cutting to required shapes and no extra payment will be made for wastages as well as reflective sheeting separately. The rate shall however exclude the cost of back support mild steel frames for aluminum sheets and vertical posts which will be paid for separately (under relevant items). The cost of excavation. foundation concrete and filling back earth in foundations for the vertical posts will be paid separately.(under relevant items). Note- The rates are includes supplying & fixing of signage board with contractor's materials, tools & plants , loading & unloading , transport, labour ,taxes,duties , octrai, all lead and lift , crossing of track if required etc. complete.							
	NS8	80.00	Per Track Metre	33.03	2642.40	AT Par	2642.40	
8	Description:- Two round of through packing of track to make the track fit for 45 kmph.(a)After first round of 30 kmph.							
	NS9	80.00	Per Track Metre	27.02	2161.60	AT Par	2161.60	
9	Description:- Two round of through packing of track to make the track fit for 45 kmph.(b)After second round of 45 kmph.							
	NS10	7500.00	Each Bag	23.08	173100.00	(-) 31.00	119439.00	
10	Description:- Filling and placing sand bags to protect slope failure as per the site condition only in case of emergency as and when required as per the instruction of Engineer Incharge.							
	NS11	15000.00	Kg	0.96	14400.00	AT Par	14400.00	
11	Description:- Dismantling steel work and trusses upto 10m span and upto 5m height (height of lowest member from ground) in built up sections and stacking within 50m lead							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule E-Execution of all works as per Schedule E (NS items as per Western Railway)							500000.00	Above/Below/Par
	1	1.00	Lumpsum	500000.00	500000.00	AT Par	500000.00	
1	Description:- Site Office Providing, arranging, managing and maintaining 500 sq.ft. well-furnished AC office and well equipped Laboratory with 3 tables, 10 chairs, 2 steel almirah, one computer with printer & operator, sufficient number of display etc. to the satisfaction of the Project Manager including Electrical, Water expenses etc. For execution of this item the date of start shall be considered only when the Contractor has actually rented/constructed the required premises established the office & Laboratory as per requirement. This item shall remain valid only for original contact period; no additional payment shall be made for whatsoever reason even if time extension if provided or date of completion is extended. This office and laboratory including furniture and all other equipment shall be property of contractor after completion of Project.							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
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Schedule F -Execution of all works as per Schedule F (items as per IR USSOR 2019)							1000000.00	Above/Below/Par
1	1	1.00	Lumpsum	1000000.00	1000000.00	AT Par	1000000.00	
Description:- USSOR of Western Railway's items requiring for successful completion of the work as advised by in-charge of the work								

3. ITEM BREAKUP

No item break up added

4. ELIGIBILITY CONDITIONS

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per tender document	No	No	Allowed (Mandatory)

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per tender document	No	No	Allowed (Mandatory)

5. COMPLIANCE

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S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per tender document	No	No	Not Allowed

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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)

6. Documents attached with tender

S.No.	Document Name	Document Description
1	NIT_RUB_127.pdf	Notice Inviting Tender
2	GAD_RUB_at_LC_127_1.pdf	GAD for RUB at LC no 127
3	Tender_Document_F_RUB_127.pdf	Tender Document

Signed By: UDAY KUMAR SINGH

Designation : PM/CIVIL