

**WDFC FIELD UNIT-MUMBAI-SOUTH-CIVIL/WDFC
TENDER DOCUMENT**

Tender No: MUM_EN_S_Works_659_2024

Closing Date/Time: 30/07/2024 15:00

CGM/MUMBAI-SOUTH acting for and on behalf of The President of India invites E-Tenders against Tender No MUM_EN_S_Works_659_2024 Closing Date/Time 30/07/2024 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 RCC Pipe bridges(17nos) of 1600mm inner Diameter at Scattered locations by Micro tunneling Method below IR and DFC Embankment besides existing Minor Bridges parallel along with Diva-Vasai Section of Central Railway for JNPT-Vaitarana Section of DFCCIL		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	30/07/2024 15:00	Date Time Of Uploading Tender	26/06/2024 15:05
Pre-Bid Conference Required	Yes	Pre-Bid Conference Date Time	04/07/2024 11:00
Advertised Value	452352389.55	Tendering Section	WORKS
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	2411800.00	Validity of Offer (Days)	90
Tender Doc. Cost (Rs.)	11800.00	Period of Completion	18 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	16/07/2024	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-USSOR Items							36748084.55	Above/ Below/Par
1	Please see Item Breakup for details.				36748084.55	AT Par	36748084.55	
	Description:- USSOR Items							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B-NS Items							415604305.00	Above/ Below/Par
1	Please see Item Breakup for details.				415604305.00	AT Par	415604305.00	
	Description:- NS Items							

3. ITEM BREAKUP

Schedule	Schedule A-USSOR Items					
Item- 1	USSOR Items					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	11011	Earthwork in cutting (classified) in formation, trolley refuges, side drains, level crossing approaches, platforms, catch water drains, diversion of nallah & finishing to required dimension and slopes to obtain a neat appearance to standard profile inclusive of all labour, machine & materials and removing & leading all cut spoils either to make spoil dumps beyond 10m from cutting edge or for filling in embankment with leads within 2 km on either side of cutting edge, lifts, ascent, descent, loading, unloading, all taxes / royalty, clearance of site and all incidental charges, bailing & pumping out water, if required, etc. complete as per directions of the Engineer-in-Charge. The work is to be executed as per latest / updated edition of "Guidelines for Earthwork in Railway Projects" issued by RDSO, Lucknow. Cut trees shall be property of Railways and to be deposited in the railway godown unless specified otherwise in the Special Conditions of Contract. {Note - (i) All usable earth arising from cut spoils shall be led into bank formation and Unusable spoils shall be dumped / stacked (ii) All hard rock /and boulders not fit for filling will be stacked by the contractor and will be property of the Railways.} In all conditions and classifications of soil except rock	cum	5450.00	149.60	815320.00
2	22034	Providing and laying in position Plain cement concrete of specified Nominal Mix for miscellaneous works like side drains, foundation for OHE masts and other miscellaneous structures excluding the cost of Cement, centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	cum	450.00	2873.21	1292944.50
3	24020	Providing and laying in position machine batched, machine mixed and machine vibrated Design Mix Cement Concrete of specified grade (cast in- situ) using 20mm graded crushed stone aggregate and coarse sand of approved quality in Drop and curtain wall and alike structures below bed level, including centering, shuttering and finishing complete as per drawings and technical specifications as directed by Engineer. Payment for cement, reinforcement and shuttering shall be made extra.	cum	2245.00	2684.95	6027712.75
4	25031	centering and shuttering including strutting, propping etc. and removal of form for : All types of bridge sub-structures, e.g. pier, abutment, wing wall, retaining wall, RCC box type foundations, Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall etc. upto 5m above ground level	Sqm	6320.00	676.23	4273773.60
5	25032	centering and shuttering including strutting, propping etc. and removal of form for : __All types of bridge super- structures, e.g. slabs, I-girders, T-girders, Box girders etc. upto 5m above ground level	Sqm	100.00	881.82	88182.00
6	25062	Supply and using Cement at Worksite: Ordinary Portland Cement 53 grade	MT	890.00	6689.69	5953824.10
7	25072	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete Thermo-Mechanically Treated bars of grade Fe- 500D or more.	Kg	224500.00	73.03	16395235.00

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8	52010	Providing and laying flooring with rubble stone, laid over 15cm thick CC 1:2:4 and the voids filled with CC 1:2:4 complete with the joints pointed with 1:2 Cement Sand mortar as per drawing and Technical specifications. Payment for cement to be done separately. Voids in the rubble stone to be taken as 35% of the gross volume of the stone layer. (Base concrete to be paid extra)	cum	306.00	2650.84	811157.04
9	52150	Providing weep holes by making suitable opening or drilling in existing Brick Masonry / Plain / Reinforced Concrete abutment, wing wall/return wall with 110 mm dia UPVC pipe (working pressure 4kg/sqcm) extending through the full width of the structure complete and repairing the same with cement mortar 1:2 (1 cement : 2 coarse sand). Rate is excluding the cost of cement which shall be paid extra.	Metre	100.00	525.28	52528.00
10	52220	Painting the HFL mark and Danger level mark, year of HFL on bridge abutments and piers with ready mixed paint as per standard in two coats over one coat of primer with all materials, labour, tools, scaffolding, all lead and lift etc. including writing complete	Each	34.00	293.68	9985.12
11	52230	Providing cast in situ bridge number plaques as per Railway drawing in cement concrete 1:2:4 mix using 20mm hard stone aggregate embedded in 30mm notch in Bridge parapet coping duly engraving the letter and figures and an arrow indicating the direction of flow and finishing the top exposed surface with cement mortar 1:3, painting letters and figures with two coats of black enamel paint on two coats of white background with all labour, tools, cement, paint etc. with all leads and lifts.	Each	68.00	803.83	54660.44
12	52253	Providing & laying non pressure NP-4 Class RCC pipe with collars, jointing with 1:2 cement and ordinary sand mortar including testing of joints, but excluding earthwork with all labour and material as a complete job. Cement for mortar will be paid separately. (Pipes of 600mm dia and above will be laid using crane/hydra). 600mm Dia	Metre	100.00	2493.92	249392.00
13	52280	Dewatering of natural or accumulated water from any location. Payment to be done for Horse power of pump multiplied by pumping hours.	HP Hour	2000.00	40.58	81160.00
14	211220	Hiring of JCB/Hitachi for levelling and dressing ground/dismantling structures ,Removal of jungle, clearing of earth, lowering high cess etc., along side the track between up and down lines obstructing drainages of rain water, clearing of bushes obstructing visibility at curves and Level Crossings with all lead and lift etc. complete and as directed by the Engineer- in-charge .All labour, tools and plants consumables stores including supply of JCB/Hitachi with crew to be provided by the contractor at his own cost. The contractor shall arrange road permit for vehicle for all the States of operation, as per instructions of engineer in-charge and vehicle shall not be more than three years old. Payment shall be made for actual working hours at site.	Hour	500.00	1284.42	642210.00
					Total	36748084.55
Schedule	Schedule B-NS Items					
Item- 1	NS Items					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	1	1/NS: Excavation in tunnel by micro tunnel boring machine for installing 1600 mm dia. sleeve or carrier for sewer line/storm water drain to correct grade and alignment using slurry or mixed shields across and under the Railway tracks including excavation, jacking, driving pit and receiving pit as per requirement and necessity for this method and the equipment considering the ground strata upto any depth upto 12 m below ground level (up to the invert of the pipe to be installed) in any type of strata including marshy land/soft clay/moorum/rock/boulder of any strength and hardness, shoring of any type including sheet piles or concrete piles, dewatering, disposal of muck/excavated material to any place as directed by the Engineer. The work includes the lowering of pipe, placing in position, ensuring proper alignment and survey as per requirement with equipment such as total station, jacking, sealing the pipe joints. a) 1600 mm dia Pipe	RM	1800.00	163619.00	294514200.00
2	2	2/NS: Approved 1600 mm dia. RCC sleeve pipe conforming to jacking pipe standards like JSWAS A-6, ASTM C-76, SS 183 or AS 1342 but not less than NP-4 class under IS 458 supplied, jointed & installed to correct level, gradient and alignment by pipe jacking as specified in micro tunneling method. The grade of pipe will be NP-4 or greater including design/ drawing and getting approval of competent authority. The rate includes all materials i.e. cement, steel, all labours, plants equipments, tools etc. Design / Drawing to be submitted by the contractor to the Railway design deptt. for prior approval. a) 1600 mm dia Pipe	RM	1800.00	57235.00	103023000.00
3	3	Allow for cement grouting the annular space between sleeves and carrier pipes. a) 1600 mm dia Pipe	RM	1800.00	8394.00	15109200.00
4	4	Providing retro reflective boards of various sizes suitable for Mumbai suburban as per attached design confirming to RDSO specification circulated vide railway board No.94CE/II/TK/6 dated 16.08.99 for caution indicators, termination indicators board etc. with all labour tools and plants, leads, lifts, taxes etc. complete. a) Caution indicator.	Each	136.00	1776.00	241536.00
5	5	Providing retro reflective boards of various sizes suitable for Mumbai suburban as per attached design confirming to RDSO specification circulated vide railway board No.94CE/II/TK/6 dated 16.08.99 for caution indicators, termination indicators board etc. with all labour tools and plants, leads, lifts, taxes etc. complete. b) Speed indicator.	Each	34.00	2439.00	82926.00
6	6	Providing retro reflective boards of various sizes suitable for Mumbai suburban as per attached design confirming to RDSO specification circulated vide railway board No.94CE/II/TK/6 dated 16.08.99 for caution indicators, termination indicators board etc. with all labour tools and plants, leads, lifts, taxes etc. complete. c) Termination indicator.	Each	34.00	2305.00	78370.00
7	7	7/NS: Providing fully furnished porta cabin on hire of size 6.1 m x 2.40 m with necessary furniture as directed by Engineer. Rates includes contractor's materials, electric supply, tools and plants, transport, loading/unloading all lead and lift and taxes etc. complete.	Each/month	120.00	11414.00	1369680.00
8	8	8/NS: Investigate and locate position of all buried services at site all as specified and plot their location on drawing. (Actual unit is Pkgs. Each = Pkgs.)	Each	17.00	9246.00	157182.00

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9	9	9/NS: Check and verify invert levels and location of existing sewers and man holes, water mains on site, prepare and submit working drawing with correct levels and the contractors prepared sewer route and location of manholes to the engineer for approval. (Actual unit is Pkgs.Each=Pkgs.)	Each	34.00	9246.00	314364.00
10	10	10/NS: Provide and maintain sign boards warning lights beacons barricades lighting, fencing etc. at site. (Actual unit is Pkgs. Each=Pkgs.)	Each	17.00	18491.00	314347.00
11	11	11/NS: Un-coursed hand-packed DRY RUBBLE FILLING (in work like rubble/stone filling behind abutments etc.) without any special dressing of stones. Rate includes loading, unloading, T&P, Transportation, taxes etc. complete.	cum	306.00	440.00	134640.00
12	12	12/NS: Breaking of masonry or concrete with pre-matic pavement breakers with compressor of required capacity. A set of machinery shall consist of two pavement breakers and one compressor with required accessories for excavation of work. One operator and two helpers shall be deputed with each set. The rate is inclusive of all contractors labour, tools and plants, leads, lifts, approaches to site, transportation, fuel, lubricant spaces, all taxes etc. complete for the successful completion of work for the purpose of payment, one compressor and two pavement breakers from one set.	Hour	170.00	1558.00	264860.00
					Total	415604305.00

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	As per Tender Document	No	No	Allowed (Mandatory)

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document	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.

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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)

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General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document	No	No	Not Allowed

Special Conditions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document	No	No	Not Allowed

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document	No	Yes	Allowed (Mandatory)

Undertakings

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document	No	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
1	TenderDocument_1.pdf	Tender Document
2	DRAWINGS-Part-1of7_2.pdf	Tender Drawings Part 1 of 7
3	DRAWINGS-Part-2of7_2.pdf	Tender Drawings Part 2 of 7
4	DRAWINGS-Part-3of7_2.pdf	Tender Drawings Part 3 of 7
5	DRAWINGS-Part-4of7_2.pdf	Tender Drawings Part 4 of 7
6	DRAWINGS-Part-5of7_2.pdf	Tender Drawings Part 5 of 7
7	DRAWINGS-Part-6of7_2.pdf	Tender Drawings Part 6 of 7
8	DRAWINGS-Part-7of7_2.pdf	Tender Drawings Part 7 of 7

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Induswww 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: VIJAY NARAYAN VAJPAYEE

Designation : DYCPMCivil