



e-Tender No. BRC/EN/ROB/LC-153 Date 15.04.2017

**For**

Construction of Road Over Bridge in lieu of existing LC No.153 At Rly km 281/28-30 (DFCC Ch : 28413.151 of Section-4 of DFCC) between station Sayan and KIM of BCT-ADI W.Rly Route & (JNPT(Mumbai) – Dadri (Delhi)- WDFC route.

**FINANCIAL BID  
(PACKET-B)**

**TENDER DOCUMENT  
April, 2017**

**Employer:  
CHIEF PROJECT MANAGER/VADODARA  
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED  
(A GOVERNMENT OF INDIA ENTERPRISE)  
Under  
MINISTRY OF RAILWAYS**

Signature of Tenderer(s)  
Date:

For CPM/VADODARA/DFCCIL



**DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD**  
 A Govt. of India (Ministry of railways) Enterprises  
 4<sup>th</sup> Floor, Narmada Naher Bhavan, Near Chhani Jakat Naka, Vadodara-390002  
**NOTICE FOR INVITING BIDS (Online i.e. E-Tender)**

Tender No	<b>Vadodara/EN/ROB/LC – 153, date 15.03.2017</b>
Name of work	<b>Construction of Road Over Bridge in lieu of existing LC No.153 At Rly km 281/28-30 (DFCC Ch: 28413.151 of Section-4 of DFCC) between station Sayan and KIM of BCT-ADI W. Rly Route &amp; (JNPT(Mumbai) – Dadri (Delhi)- WDFC route.</b>
(a) Type of Tender	Open Tender (Single stage two Packet )
(b) Type of Contract	Works Contract.
(c) Tender Value	<b>Rs. 29,42,64,662/-</b>
(d) Completion Period	<b>18 months</b>
(e) Earnest Money	<b>Rs. 44,13,970/- ( Paid through Demand Draft/ banker's Cheque, FDR payable in favour of “ Dedicated freight Corridor corporation of India Limited, Vadodara”)</b>
(f) Cost of Tender document	<b>Rs 10,500/- (Rs 10,000 +5% GVAT) To be paid by D.D./Banker's Cheque in favour of DFCCIL payable at Vadodara</b>
(g) Tender Processing Fee	<b>Rs7,500/- plus taxes and duties as applicable (non refundable) through e-payment while uploading of tender</b>
(h) Performance Bank Guarantee	Performance Guarantee (PG) have to be submitted within 30(thirty) days from the date of issue of Letter Of Acceptance (LOA), amounting to 5% of the contract value in the form as give in clause 16.4 of GCC
(i) Retention Money / Security Deposit	5% of Contract Value
(j) Officer:	<b>Chief Project Manager/ Vadodara, Dedicated Freight Corridor Corporation of India Limited 4<sup>th</sup> floor, Block-A, Narmada Naher Bhavan (Sardar Sarovar Narmada Nigam Ltd. Office), Chhani Jakat Naka, Vadodara, Pin . 390002, Gujarat.</b>
(k) E-Tendering Web Site	<b>E-tendering site- <a href="http://www.tenderwizard.com/DFCCIL">www.tenderwizard.com/DFCCIL</a></b> Help: Please contact Tender wizard helpdesk at 011-49424365

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**VADODARA/EN/ROB/LC-153, Date 15.04.2017**

(L)Pre bidding Conference	<b>On 09.05.2017 at 11.00 AM at office of Chief Project Manager/ Vadodara, Dedicated Freight Corridor Corporation of India Limited 4<sup>th</sup> floor, Block-A, Narmada Naher Bhavan (Sardar Sarovar Narmada Nigam Ltd. Office), Chhani Jakat Naka, Vadodara, Pin . 390002, Gujarat.</b>
<b>DATE &amp; TIME SCHEDULE</b>	
Date of Uploading of NIT & Other Documents (Online Publishing date)	<b>15.04.2017 at 11.00 Hrs.</b>
Documents download/Sell date (Online)	<b>From 17.04.2017 at 11.00 Hrs. To 29.05.2017 at 13.00 Hrs.</b>
Bid submission Last date (Online)	<b>29.05.2017 up to 15.00 Hrs.</b>
Last date of submission of originals of statutory documents i.e. EMD & Tender Document Charge	<b>05.06.2017 up to 13.00 Hrs.</b>
Bid Opening date & Time (online)	<b>07.06.2017 at 15.00 Hrs.</b>

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## SUMMARY OF PRICES

**Construction of Road Over Bridge in lieu of existing LC No.153 At Rly km 281/28-30 (DFCC Ch: 28413.151 of Section-4 of DFCC) between station Sayan and KIM of BCT-ADI W. Rly Route & (JNPT(Mumbai) – Dadri (Delhi)- WDFC route.**

Sl. No.	Description of Works	Cost as per schedules	Rates to be quoted in figures & words (Clearly mention above / below / at par on Schedules/Items updated DFCCIL Rate / cost given in column 3)
1	2	3	4
1	Execution of all works as per Schedule "A" (Items as per SOR 2015- 16 of State Govt. Gujarat R&B Surat division.)	<b>2,41,04,541.75</b>	Rates above / below / at par as per schedules shall be filled separately in Microsoft Excel File.
2	Execution of all works as per Schedule "B" (NS Items as per State Govt of Gujarat)	<b>11,44,97,304.41</b>	Rates above / below / at par as per schedules shall be filled separately in Microsoft Excel File.
3	Execution of all works as per Schedule "C" (Items as per SOR 2015- 16 of State Govt. Gujarat R&B Surat division.)	<b>10,68,61,963.91</b>	Rates above / below / at par as per schedules shall be filled separately in Microsoft Excel File.
4	Execution of all works as per Schedule "D"(NS Items as per Western Railway)	<b>4,16,98,520.00</b>	Rates above / below / at par as per schedules shall be filled separately in Microsoft Excel File.
5	Execution of all works as per Schedule "E"(NS Items as per Western Railway )	<b>48,15,133.00</b>	Rates above / below / at par as per schedules shall be filled separately in Microsoft Excel File.
6	Execution of all works as per Schedule "F"(NS Items as per Western Railway )	<b>22,87,198.93</b>	Rates above / below / at par as per schedules shall be filled separately in Microsoft Excel File.
	<b>Grand Total</b>	<b>29,42,64,662.00</b>	

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**Notes:**

- (i) The above prices are inclusive of all taxes, duties including Excise duty, Sales Tax, Octroi, Local levies, Works Contract Tax etc.
- (ii) The tenderer should quote single percentage above / par / below for each schedule.
- (iii) If the uniform percentage quoted by the Tenderer does not clearly indicate whether the rates are above/at par/below the estimated rates then through sign convention it will be considered to be on plus side and evaluated accordingly.
- (iv) Rate of item payable to contractor shall be as per above/below/at par on rates of schedule.

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**SCHEDULE -1****SCHEDULE OF PRICES & TOTAL PRICES**

**NAME OF WORK:** Construction of Road Over Bridge in lieu of existing LC No.153 At Rly km 281/28-30 (DFCC Ch: 28413.151 of Section-4 of DFCC) between station Sayan and KIM of BCT-ADI W. Rly Route & (JNPT(Mumbai) – Dadri (Delhi)- WDFC route.

**Schedule- A****Schedule of Approximate quantities**

S.N.	Item NO.	Total Quantity	Item of Work	Rate	Unit	Amount in Rs.
1	27007A	8425	Excavation for foundation in sand, gravel, clay soft soils and murrum etc. Including shoring, strutting dewatering as necessary and disposing of the excavated stuff as directed.	318.15	Cum	2680413.75
2	DSR 2014 Item 2.33		Felling trees of the girth (measured at a height of 1 m above ground (level), Including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material. Beyond			
2 (i)		2	30cm girth upto & including 60cm girth	198.67	Each	397.334
2 (ii)		2	60cm girth upto & including 120cm girth	879.81	Each	1759.622
2 (iii)		2	120cm girth upto & including 240cm girth	4069.34	Each	8138.681
3	27039	3638	Empty boring through all sorts of strata for providing 1.20m dia RCC bored piles to required depth including flushing necessary casting pipe with all plants and equipments as required as per detailed specifications for Abutment and Piers (Excluding Concrete & Reinforcement).	3361.28	Rmt	12228336.64
4	14023	3020	Providing and fixing pre-cast concrete kerb stone of gray cement based concrete block 30cm length,30cm height and 15cm thick of M250 grade concrete as per approved design and including excavation for fixing in proper line and level, filling the joint with C:M 1:3	239.37	Rmt	722897.4

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			(1cement:3 fine sand) etc. complete.			
5	27001A	173.3	Chipping and dressing of the RCC piles up to cut off level (min 1 D) including cleaning of reinforcement and removal of dismantled materials etc for providing pile caps as directed by Engineer and as per specification for 1000 mm & 1200 mm.	577.72	Cu m	100118.876
6	26161	987.66	Road marking with hot applied thermoplastic compound with reflectorising glass beads on road surface providing and laying hot applied thermoplastic compound 2.5 CM thick including reflectorising glass bends @ 250 gms /sq mt area thickness of surface applied glassbend as per IRC -35 the finished surface to be level uniform and free from streaks and holes.	298.96	Sqm	295270.8336
7	26163	2902	Supplying and fixing cat eye (stimsonite) made out from Acrlic strene- acrylonitrile of high impact polysterene fitted with moulded of methacrylate reflector cube corner reflector design filled with tightly adhering potting compound as per ASTM D-788 size 11.5 x 7 x 1.60 cm.	375.72	Eac h	1090339.44
8	27050A	0	Providing and laying weep hole in abutments, and returns by using AC pipe of 100 mm dia. Including laying in proper grade and jointing the completed as per detailed specification.	53.93	Eac h	0
9	27072	270950 3	Providing and Fixing in position fully moulded restrained elastomeric bearings as per detailed drawings.	1.11	Cu m	3010257.833
10	27101A	2	Providing and fixing marble slab including engraving and painting complete.(A) size 75 cm x 60 cm x 4 cm	955.46	No.	1910.92
11	27098A	41	Providing, fabricating and fixing in position GI Drainage Spout arrangements having 100 mm dia. Pipe B class with necessary bend, fixing to GI chamber, GI grating, providing and applying one coat of primer & two coat of anticorrosive paint, etc. complete as per drawing and as per specifications.	506.01	No.	20746.41
12	M664	200	providing and fixing 100 dia runner and downtake GI pipe to drain water from drainage spout with necessary fixtures including cost of all materials, labours,	808.00	RMT	161600

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			bends, fixtures, specials ec. Complete as per drawing and Sp. And as per direction of engineer.			
13	26008	4942	Box cutting the road surface to proper slope and camber for making a base for road work including removing the excavated stuff and depositing on the road side slope as directed upto 50 mt lead.	66.16	cu m	326938.01
14	26B004E	6038.0 3	Earth work for embankment including breaking clods dressing with all lead and lift and including watering, rolling and consolidation of subgrade in layers at O.M.C. to required dry density including filling depressing which occur during process using vibratory roller 8 T to 10T ( from borrow area within 5km lead)	243.4	Cu m	1469716.882
15	26048	4	providing & fixing ordinary Kilometre stone of precast C.C. 1:2:4 including necessary reinforcement as per I.R.C. type design in C.C. 1:4:8 including letter & paints etc. complete (For N.H., S.H. & M.D.R.)	842.34	Eac h	3369.36
16	26089EA	20	Supplying and fixing reinforced concrete heavy duty non pressure pipes with collors for culverts carrying heavy traffic as per IS 458-1991 specifications including setting the pipes in C.M. 1:2 watering and laying (to level slopes ) of class NP3 of internal diameters (v) 900mm dia (more then 10 ton)	2097.77	Rmt	41955.4
17	26101B	4	Providing and fixing village name boards made from 2mm aluminium sheet; size 90x 60cms. rectangle as per the design of IRC-67-2015 pretreated with phosphating process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint; reflectorized with retro reflective sheeting as per latest MOST Specifications; 3.1m long (2 Nos) stand post and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; painted with best quality epoxy coatings in black and white bends. the details of symbol for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60cms. for each	4163.22	No.	16652.88

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			leg. including excavation curing etc. complete under the supervision of engineer (B) High intensity Grade			
18	26092A	2	Providing and fixing Cautionary Sign Board made out of 2mm aluminium sheet, size 90 x 90 x 90 cms equilateral triangle, as per the design of IRC-67-2015. Pre treated with phosphating process and acid etching coated with one coat of epoxy primer and two coats of best quality epoxy paint, reflectorized with retro reflective sheeting as per the latest M.O.S.T. specification, 3.1 Mt. long stand post and frame fabricated from suitable size iron angle of 35 x 35 x 3 mm, 75 x 75 x 6 mm; painted with best quality epoxy coating in black and white bends. The details of symbol for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60 cms for each leg, including excavation curing etc. complete under the supervision of Engineer-In-Charge (A) Engineer grade.	3182.51	No.	6365.02
19	26092B	4	Providing and fixing Cautionary Sign Board made out of 2mm aluminium sheet, size 90 x 90 x 90 cms equilateral triangle, as per the design of IRC-67-2015. Pre treated with phosphating process and acid etching coated with one coat of epoxy primer and two coats of best quality epoxy paint, reflectorized with retro reflective sheeting as per the latest M.O.S.T. specification, 3.1 Mt. long stand post and frame fabricated from suitable size iron angle of 35 x 35 x 3 mm, 75 x 75 x 6 mm; painted with best quality epoxy coating in black and white bends. The details of symbol for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60 cms for each leg, including excavation curing etc. complete under the supervision of Engineer-In-Charge (B) High Intesity grade.	3272.40	No.	13089.6
20	26103B	8	Providing and fixing sign boards made from 2mm aluminium sheet; size 100x 100cms. as per the design given by engineer in charge pretreated with	6618.53	No.	52948.24

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			phosphating process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint; reflectorized with retro reflective sheeting as per latest MOST Specifications; 3.1m long (2 Nos) stand post and frame fabricated from suitable size iron angle of 35 x 35 x 3mm & 50 x 50 x 5mm 75 x 75 x 6mm ; painted with best quality epoxy coatings in black and white bends. the details of symbol for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x60cms. for each leg. including excavation curing etc. complete under the supervision of engineer (B) High intensity Grade			
21	26098A	2	Providing and fixing Junction Board made out of 2mm aluminium sheet, size 244 x 122 cms rectangle, as per the design of IRC-67-2015. Pre treated with phosphating process and acid etching coated with one coat of epoxy primer and two coats of best quality epoxy paint, reflectorized with retro reflective sheeting as per the latest M.O.S.T. specification, Letters and numerals should be as per IRC-30-1968. 3.1 Mt. long (2 nos.) stand post and frame fabricated from suitable size iron angle of 50 x 50 x 5 mm, 75 x 75 x 6 mm; painted with best quality epoxy coating in black and white bends. The details of symbol or inscription/ numerals for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60 cms for each leg, including excavation curing etc. complete under the supervision of Engineer-In-Charge (A) Engineer grade.	12274.5 3	No.	24549.06
22	14006A	127	Providing and laying chequered terrazo tiles 22mm thick for R.C.C Staircase with marble chips of size upto 6mm in floors on 25mm thick bed of lime mortar 1:1.5 (1 - lime putty : 1.5 coarse sand) or C.M. 1:6 jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing & polishing complete.	475.71	Sqm	60415.17

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			(A) Light shades using white cement.			
23	M942	88	Providing and fixing 50 mm Dia UPVC pipe for entry cable pipe.	133.32	Rmt	11732.16
24	27100A	168	Providing PVC 100 mm diameter water spouts including necessary iron grating as per drawing.	187.86	Eac h	31560.48
25	26117C	1.8	Clearing and grubbing site/road/land including uprooting all vegetation, grass, bush shrubs, saplings and trees with girth, removal of stumps of trees of girth of all sizes including removing stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable materials as directed by Engineer with all leads and lifts etc. complete as per specification. before commencement and after completion of the work.	32056.3 9	LS	57701.502
26	27087	3	Providing Vertical Joints-pre moulded asphalt filler joints as per drawings (A) 12 mm	733.26	sq. m	2199.78
27	11012	372	Providing and fixing MS round holding down or Anchor bolts ( J type) with nuts and washer plates complete.	40.00	kg	14878.512
28	11001A	2.91	Structural Steel :- Base plate of 220 x 220 x 12 mm thick with adjustment of hole. MS plate 6mm thick 20mm wide 150mm long including welding to the base plate all complete.	6027.68	Qui	17540.5488
29	23067	2132	Providing, laying and jointing in true line and level 110 diameter UPVC (Type B) conforming to IS 13592:1992 with one end plain and other end socketed with rubber ring & fitting conforming to IS 14735:1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with lubricant, pipe shall be fixed on wall using of PVC clamp of size 110 mm diameter x 149mm length x145mm height at every 2000 mm centre to centre or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all maerials	531.26	Rmt	1132646.32
30	27097A	131	Providing and fixing post and pipe railing as per detailed drawing including 3 coats of painting to steel works complete.( more	1073.63	Rmt	140645.53

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			than 10 ton)			
31	NH SOR 8.8	2488.3 4	Painting two coats after filling the surface with synthetic enamel paint in all shades on crash barrier concrete surfaces	63.63	Sqm	158333.0742
32	20003B	585	Demolition of brick work and stone masonry including stacking of serviceable materials and disposals of unserviceable materials with all lead and lift(ii) in cement mortar.	340.37	Cu m	199116.45
			<b>Total Amount of Schedule – A</b>			<b>2,41,04,541.72</b>

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## Schedule B

## Schedule of Approximate quantities

S.N.	Item NO.	Total Quantity	Item of Work	Rate	Unit	Amount in Rs.
1	NS/01	2	Marking out the center line of the Bridge and various other component structures and complete lining out and leveling with theodolite, levels, including constructing necessary masonry pillars for lines and levels and establishing necessary bench marks etc. complete as directed.	12625.00	LS	25250
2	NS/02	817.2	<b>providing &amp; filling in foundation</b> with ordinary cement concrete <b>M 15 mix</b> and providing necessary vertical pin headers including formwork vibrating ramming & curing complete.	2622.97	Cu m	2143491.084
3	NS/03	3809	Providing and casting in situ controlled cement concrete <b>M-35 for RCC bored pile from 1.20 m. dia. using Tremie Pipe</b> including necessary flushing, dewatering, formwork, mixing in mechanised batch mix plant, transporting, compacting and finishing including all leads & lifts complete as per detailed specifications. (Excluding Reinforcement).	3947.08	Cu m	15034427.72
4	NS/04	2017.2	Providing and casting in-situ controlled <b>cement concrete of M35 grade for RCC work for Pile cap ,pier, abutment,RCC Stair Case &amp; retaining walls foundations</b> 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, deshuttering carefully, making good the damages, fixing embedment, inserts, pockets, wherever necessary as per specification and drawing.	3943.04	Cu m	7953900.288
5	NS/05	581	Providing and casting in situ controlled <b>cement M35 for RCC work in piers and abutment return wall</b> as per drawing including centering shuttering scaffolding where necessary laying vibrating curing and finishing complete.	4004.25	Cu m	2326466.926

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			A) height from <b>0.0 to 5.0 m</b>			
6	NS/06	169.5	Providing and casting in situ controlled cement <b>M35 for RCC work in piers and abutment return</b> wall as per drawing including centering shuttering scaffolding where necessary laying vibrating curing and finishing complete. A) height from <b>5m to 10.0 m</b>	4226.45	Cu m	716382.597
7	NS/07	1070.1	providing and casting in situ controlled cement <b>concrete M35 for RCC works on pier cap abutment cap and dirt wall</b> including controlled cement concrete or pedestals of required drawings, centering shuttering, scaffolding wherever necessary laying vibrating curing and finishing complete.	4056.77	Cu m	4341145.297
8	NS/08	28	providing and casting in situ controlled cement <b>concrete M35 for RCC works on pier cap abutment cap and dirt wall</b> including controlled cement concrete or pedestals of required drawings, centering shuttering, scaffolding wherever necessary laying vibrating curing and finishing complete.	4537.12	cum	127039.416
9	NS/09	3045	Providing and casting in situ controlled cement <b>concrete M-35 for R.C.C. work in superstructure including centering, shuttering scaffolding,</b> ramming, vibrating curing and finishing complete. <b>(A) T-Beam and Deck slab type of superstructure. (II) Main and cross Girder</b>	4430.67	Cu m	13491384.06
10	NS/10	254	Providing and casting in-situ controlled cement <b>concrete of M-35 grade</b> with minimum cement content 420kg/cum without admixture as per IS-456-2000, reinforcement cement concrete with 20mm downgraded crushed stone aggregates of required size in super structure <b>for approach slab</b> including required formwork, shuttering and supporting arrangement (excluding cost of reinforcement) and transporting concrete from batching plant by transit mixture placing it in position, compacting with needle vibrator including curing with all labour, material,	3991.22	Cu m	1013769.118

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			machinery all lead, lift etc. complete as per drawing and technical specification of MORTH & as directed by Engineer Incharge.			
11	NS/11	95	Providing and casting in -situ controlled cement <b>concrete of M 40 grade for RCC crash Barrier</b> with 20 mm down coarse aggregate of the required size including formwork, shuttering, placing in position, consolidation with mechanical vibrators curing finishing, deshuttering carefully, marking good the damages, fixing embedment, inserts, pockets, wherever necessary as directed and as per drawing with F3 type exposed concrete finish and formwork as directed by Engineer - in -charge, etc. complete as per specification.	4111.31	Cu m	390574.07
12	NS/12	1608	PRIMER & PROTECTIVE COATING-providing and laying the external decoative waterproff & Protective coating system for concrete and masonry shall be MASTERSEAL 200H , a single component elastomeric crack bridging acrylic coating applied at an average thickness of 50 micro DFT in two coat the product shall be applied on ssuitability primed substate using MASTERSEAL 399 as primer . The product must be crack bridging elongation type with elongation at break , exceeding 200% & tensile strength exceeding 2 MPa The system shall exhibit exellant bond strength with the substrate at least exceeding 1.0 MPa , when tested as per ASTM D 4541.	4050.10	Sqm	6512560.8
13	NS/13	16682	Providing and fixing in position <b>Strip Seal Type Expansion Joint</b> (for movement upto 60mm) as per detailed drawing MORTH specification. The rate is inclusive of supplying, fixing with contractor's own materials, equipments, machineries, labour, transport, testing, bolts, socket tubes, neoprene sheet/cap etc. complete. The rate is finished item complete and will be paid after fixing in all respect.	182.81	Rmt	3049636.42

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14	NS/14	217.2	Providing Pylon consist of cast-in-situ concrete of M30 grade exposed finish as per drawing and as directed by engineer in charge. Rate includes providing required shuttering and form work but excluding stone slab & carving. (Reinforcement shall be paid in respective item.)	9065.76	Cu m	1969083.072
15	NS/15	0.12	Reinforced Earth Retaining Wall (Reinforced Earth retaining wall is having following main component 1. Excavation for foundation, foundation concrete (CC grade M15) with cement concrete grooved seating in foundation for fascia panel. 2. fascia material and its placement 3. Assembling & joining with fascia elements and laying reinforcing element 4. earthfill with granular material which is to be retained on wall , fascia elements of RCC	3884.16	Sqm	466.09884
16	NS/16	3688	Construction of 250 mm thick compacted coarsed granular subbase ( Grade I crushed B.T. materials of 53 mm to 26.5 mm@ 35%, 26.5mm to 4.75mm @45% , below 2.36mm @20 %) by providing close graded material mixing in mechanical mix plant at OMC, carriage of mix material to work site, spreading uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve desired density complete clause as per 401	5836.25	cum	21524107.33
17	NS/17	6982.26	Providing and laying wet mix base course macadam 250 mm in Two layer using machine crushed chips as per required gradation mixing with required optimum quantity of water conveying mix to site and spreading to grade and camber with mechanical paver consolidation by vibratory roller including material, labour, plant and machinery and equipment etc complete	878.70	Cu m	6135311.862
18	NS/18	5342.19	Providing and applying priming coat using medium setting emulsion bitumen as the rate of 7.5 kg/10 sq.m on WMM	953.44	Sqm	5093457.634

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			surface including cleaning the surface etc comp			
19	NS/19	24130.95	Providing and laying 100 mm thick DBM in two layers using crushed stone aggregate BT chips as per required gradation and using emulsion asphalt as a tack coat @ 2.5 kg/10sqmt and VG 30 grade asphalt at 45 kg/MT) by total weight of mix hot laid process using drum mix process transporting mix and laying by paver finisher including consolidation with vibratory roller including cost of material, labour, machinery equipment and fuel, oil, lubricant for plant and machinery using contractor's own plant and machines etc complete.	20.81	M.T.	502068.5457
20	NS/20	3566	Providing and laying 40 mm bitumen concrete using crushed stone aggregate BT chips as per required gradation and using emulsion asphalt as a tack coat @ 2.5 kg/10sqmt and VG 30 grade asphalt at 55 kg/MT) by total weight of mix hot laid process using drum mix process transporting mix and laying by paver finisher including consolidation with vibratory roller including cost of material, labour, machinery equipment and fuel, oil, lubricant for plant and machinery using contractor's own plant and machines etc complete.	1996.77	M.T.	7120481.82
21	NS/21	2017	providing and casting in situ controlled cement concrete M 30 mix for RCC works in retaining wall of required detailed drawing, centering shuttering, scaffolding wherever necessary laying vibrating curing and finishing complete.	2209.88	Cu m	4457327.96
22	NS/22	0	Providing and laying 25 mm thick mastic asphalt wearing course with paving grade bitumen meeting the requirements given in table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including providing antiskid surface with bitumen precoated finegrained hard stone chipping of 13.2	3991.22	Sqm	0

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			mm nominal size at the rate of 0.005cum per 10 sqm and at an approximate spacing of 10 cm center to center in both directions, pressed into surface when the temperature of surfaces is not less than 1000C, protruding 1 mm to 4 mm over mastic surface, all complete as per clause 515.			
23	NS/23	3833	providing sand & filling in approach portion RE wall( as per MORTH section 3100) including laying of earth as per specification for compaction in 250 mm thick loose layers and dressing (MORTH specification Cl. By machanical means using motor grader including 305.3.5) watering the earth to bring the earth upto required OMC including rolling with the use of vibratory roller when earth is at suitable moisture content with desired field density not less than 97% of maximum dry density ( modified proctor test). The material for filling shall conform to IRC Highway Research Board's special report No 16	379.76	Cu m	1455620.08
24	NS/24	13703	Providing & laying 37.5 mm thick compacted built up spreay grout base course in single layers for bringing the road surface in to camber and gradient over existig road surface with bitumen grade VG-30 for tack coat at the rate of 2.50 kg/10 sq.m of road surface area and using 0.50 cum stone aggregate per 10 sqm with asphalt for grouting @ 15 kg per 10 sqm of road surface and using 0.13 cmt of key aggregate per 10 sqm of road surface including heating and consolidation in both layers by vibratory roller as per MORTH specification clause no 506 including cost of all materials, fuel, labours, tools etc completed.	615.09	Sqm	8428578.27
			<b>Total Amount of Schedule – B</b>			<b>11,44,97,304.4</b>

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**Schedule C****Schedule of Approximate quantities**

S.N.	Item NO.	Total Quantity	Item of Work	Rate	Unit	Amount in Rs.
1	27020A	147.72	Providing and installing 6 mm MS liner for bored-cast-in-situ concrete piles including applying protective coating as per drawing and specification and as directed by Engineer.	51959.88	MT	7675514.109
2	27043C	667.1	Providing and fixing in position Fe 500 TMT for R.C.C bored pile as per detailed drawing including cutting, bending, hooking and tying and welding complete and including forming the cage and lowering it in position.(up to 10 ton)	44549.08	MT	29718691.27
3	27047A	290.6	Providing and fixing in position Fe steel bar reinforcement of steel bar reinforcement of steel grade Fe-500 TMT for R.C.C pile cap including cutting, bending, hooking and tying and welding etc., complete as per detailed drawing and specifications.	38660.78	MT	11234822.67
4	27109	84.01	Providing and fixing in position Fe steel bar reinforcement of steel bar reinforcement of steel grade Fe-500 TMT including cutting, bending, hooking and tying and welding etc., complete as per detailed drawing and specifications.(A) Abutment cap and Dirt wall (B) Abutment Pier & Retaining wall.	45575.24	MT	3828775.912
5	27111	304.8	Providing and fixing in position Fe steel bar reinforcement of steel bar reinforcement of steel grade Fe-500 TMT including cutting, bending, hooking and tying and welding etc., complete as per detailed drawing and specifications.(A) Pier cap (B) Pedstals & Seismic arrester	45576.25	MT	13891641
6	27115	890.82	Providing and fixing in position	44990.45	MT	40078392.67

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			Fe steel bar reinforcement of steel bar reinforcement of steel grade Fe-500 TMT including cutting, bending, hooking and tying and welding etc., complete as per detailed drawing and specifications.(B) T. Beam and slab type of (i) Deck slab superstructure. (ii) Main and cross girder.			
7	27123	9.8	Providing and fixing in position steel bar reinforcement For Approach slab of steel grade FE-500 D (TMT) including cutting ,bending, hooking, tying, welding etc. complete as per detailed drawing and specification.	44298.60	MT	434126.28
			<b>Total Amount of Schedule – C</b>			<b>10,68,61,963.9</b>

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**Schedule D****Schedule of Approximate quantities**

S.N.	Item NO.	Total Quantity	Item of Work	Rate	Unit	Amount in Rs.
1	NS/01	322	Supply & Fabrication of steel girder spans including its components (Stiffeners, Bracings, Splices, Studs etc.) as per the approved drawings for composite construction of superstructure of the Road Over Bridge with contractor's own Steel confirming to IS: 2062 Grade 250(B) with all welds, HSFG Bolts, nuts bolts, rivets etc. with contractor's own materials, fabrication, machinery, templates, fixtures, equipments tools and plants transportation, skilled/unskilled labour, excise duty., Octroi, sales tax and other taxes, all leads lifts, descent, loading, unloading, crossing one or more Railway track if required etc. complete and as per technical specifications. The rate is inclusive of transportation of fabricated girder parts to site by contractor's own means at his cost. The rate shall also be inclusive of cold straightening of deformed and bent girder parts before their assembly.(The Structural Steel to be used Should be manufactured by SAIL/RINL/TISCO/ESSAR/JINDAL Only.)Work has to be done as per drawings and specifications approved by DFCCIL/ Railway. High quality superior brand of paint should only be used. For Painting prior approval for superior brand / make of the paint should be taken from engineer in charge. Note:1. The fabrication of girders must be got done from RDSO approved firms only. 2. The rate is inclusive of assembly of girder with service bolts as per approved drawing in shop for checking by Engineer's representative and dismantling the same after checking for transportation to the site. 3. Weight of HSFG bolts, Rivets, Welds shall not be	94629.73	MT	30470773.00

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			considered for payment. Nominal weight of the girder spans including its components (Stiffeners, Bracings, Splices, Studs etc.) as per drawing will only be considered for payment.			
2	NS/02	5700	Metalizing girder / girder components such as cross girders, top chord channels, bracing etc. of Steel Girder as directed by Engineer with aluminium spray not less than two layers after preparing surface by sand/grit blasting as per provision laid in Appendix VI of IRS B 1179 code (latest alteration) including one coat wash primer (IS-5666) one coat zinc chrome primer (IS-104) and two coats of aluminium paint (IS-2339) with approved paint conforming to IS specification for fabrication & erection of steel girder bridge (RS B 1-79) as corrected up to date with contractor's own materials, tools, plants labour, loading/unloading, transportation, handling, re-handling if any including all lead, lifts descents, crossing of track/obstruction etc. complete in all respect and as per direction of the Engineer.	607.09	Sqm	3460413.00
3	NS/03		Assembling, Welding, Erecting, Bolting by HSFG bolts, Riveting if any as per approved drawings and Launching of girder spans including its components on running line / Non- Running line /Running electrified line / under block period with the help of road crane of required capacity as per Railway's approved drawings & Scheme with other ancillary steel structures fixed to the girder, where necessary, in proper level and alignment and as per technical specifications. The rate shall be inclusive of supply, erection and dismantling of staging and scaffolding and other temporary arrangements required for the purpose of assembly, erection and launching of girders. The rate shall also be inclusive of cold straightening of deformed and bent girder parts before/after their assembly. Work has to be done as per drawings and			

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			specifications approved by Railway.			
			Note: Weight of HSFG bolts, Rivets, Welds shall not be considered for payment. Nominal weight of the girder spans including its components (Stiffeners, Bracings, Splices, Studs etc.) as per drawing will only be considered for payment.			
	NS/3A	221	Launching of Steel girder spans including its components on running line /Running electrified line / under block period with the help of road crane of required capacity as per Railway's approved drawings with other ancillary steel structures fixed to the girder where necessary in proper level and alignment and as per technical specifications.	16825.91	MT	3718526.00
	NS/3B	102	launthing of steel girder span including its components on non-running line with the help of road crane of required capacity as per Railway's approved drawings with other ancillary steel structures fixed to the girder where necessary in proper level and alignment and as per technical specifications.	3181.19	MT	324481.00
4	NS/04	20	Fabricating, supplying and erecting in position standard structural steel sections manufactured from IS approved manufacturers only ,conforming to IS :2062 - 1992 (including latest amendments) including welding with approved quality welding rods, supply and fixing of correct size turn bolts including one primer coat of red lead paint conforming to IS:102 or Zinc chromate paint conforming to IS:104 followed by tow coats of Aluminium paint as per IS : 2339 with all contractor's materials, labour, tools and plants etc in bolted/welded construction as directed by Engineer in charge. Work shall be carried out as per IS:800-1984 (with latest amendments), IRS specification No. B3-61 part 2 and IS 816 for welding.	71620.22	MT	1432404.00
5	NS/05		Providing and fixing POT -PTFE bearing as per IRC 83 in position true to line and level including cost of all			

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			materials fixtures surface for receiving bearing, grouting of sleeves with non shrink high strength grout, load testing of bearing, transporing and fixing in position including all lead and lift etc. complete as per approved designs and drawing and as directed by Engineer.			
		15	NS/5a) Fixed bearing (Capacity upto 250 MT)	53550.00	No.	803250.00
		15	NS/5b) Sliding bearing (Capacity upto 250 MT)	53550.00	No.	803250.00
			Note: The rate is for finished item complete and paid only after fixing in position below the girder.			
6	NS/06	2	Load testing of one composite steel /Span Designing and Load testing of one composite girder/ Span as selected by the Engineer confirming to Rly. Standard's with loads to be applied and removed incrementally etc. complete as per special condodition and specification of contract, as per relevent IS/IRC codes with all contactors labour supervisor, T & P's all taxes, equipment, leading materials instruction of load test jacks etc., dial gauges, including all lead and lift.	256339.20	Each	512678.00
7	NS/07	144	Conducting Pile low strain integrity test as per ASTM D 5882- 96 code of American Society for Testing on cast - in situ RCC pile of 1200 mm diameter inclusive of analysis with all contractor's equipment, manpower, site preparation, lead and lifts etc. complete as per standard procedure, and as directed by the Engineer in charge. Note:- Rate is inclusive All equipment, All labour and consumable required & Mobilization of equipment	1199.62	Each	172745.00
			<b>Total Amount of Schedule – D</b>			<b>4,16,98,520.00</b>

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**Schedule E****Schedule of Approximate quantities**

S.N.	Item NO.	Total Quantity	Item of Work	Rate	Unit	Amount in Rs.
1	NS/1	100000	Autocad Drawings : Preparation / Alternation and submission of drawings such as general arrangement drawings , phase drawings, scheme plan, structural drawings etd. On Auto Cad as per details and directions given by the Engineer in charge including plotting and submitting in standard inklet film of 50 micron and CD, submitting check prints on A3/A2/A0 size papers and final rint complete and as per insturctions of Engineer in charge.	0.4	Per Sqcm	40000.00
2	NS/2	1	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 almira, 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.	500000	LM	500000.00
3	NS/3	188	Providing & fixing Safety Screen as per RDSO Drg. No. EL / C / 0068 MOD " E " , on the Parapet with necessary fixtures etc. as per detailed drawing including contractor's own materials, labours, tools and plants, etc. complete.	1179.8	Sqm	221802.00

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4	NS/4	4	Making and supplying of check rails of 52 kg/ 60 kg rails of various lengths for level crossing as per approval drawings.	2997	Each LC	11988.00
5	NS/5	124.72	Providing, fixing and maintaining MS fabricated traffic barricading of 2.50m height on either side of the carriage way / portion of the carriage way closed to the traffic including provision of all sign boards/ bollards and warning lights etc. as per the Engineer in charge.	331.49	Meter	41343.00
6	NS/6	1	Miscellaneous cost of Any Other USSOR item to Complete the Work	4000000	LS	4000000.00
			<b>Total Amount of Schedule – E</b>			<b>48,15,133.00</b>

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<b>Schedule F</b>						
<b>Schedule of Approximate quantities</b>						
<b>S.N.</b>	<b>Item NO.</b>	<b>Total Quantity</b>	<b>Item of Work</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount in Rs.</b>
1	192100		Conducting load testing of a single pile Up to following capacity in accordance with IS 2911(Part IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc with all labour, material, tool & plants, equipment, machinery, etc complete as per drawing and specification, as directed by the Engineer.			
1 (i)	192103	2	Initial load test above 100 ton capacity Up to 250 ton capacity pile. <b>USSOR 2011 Western Railway Item no. 192103</b>	199722.83	Each	399446
1 (ii)	192104	30	Extra for every increase of 50 T in pile capacity or part thereof over 250 T. <b>USSOR 2011 Western Railway Item no. 192104</b>	44255.77	Each	1327673
1 (iii)	192107	2	Routine Load Test above 100 ton capacity Up to 250 ton capacity pile. <b>USSOR 2011 Western Railway Item no. 192107</b>	280040.14	Each	560080
			<b>Total Amount of Schedule – F</b>			<b>22,87,199.00</b>
<b>Total of Schedule A, B, C, D, E, F</b>				<b>Rs. 29,42,64,662.00</b>		

**END OF TENDER DOCUMENTS**

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