



e-Tender No. BRC/EN/TENDER-ROB/LC-142,153,163/213, Date 01.09.2018

For

Construction of 2- Lane Road Over Bridge in lieu of existing LC No's

- i. **142** At Rly km Km-255/27-29 (DFCC Ch- 4/118.408) between **SACHIN** and **BESTAN** stations of JNPT (Mumbai) - Dadri (Delhi) WDFC Route.
- ii. **153** At Rly km **281/28-30** (DFCC Ch: 32413.160) between **Sayan** and **Kudsad** stations of JNPT (Mumbai) – Dadri (Delhi)- WDFC Route.
- iii. **163** At Rly km **301/30-32** (DFCC Ch: 52553.872) between **Kosamba** and **Hathuran** stations of JNPT (Mumbai) – Dadri (Delhi)- WDFC Route.

**FINANCIAL BID
(PACKET-B)**

**TENDER DOCUMENT
1st September, 2018**

**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
 4th Floor, Narmada Naher Bhavan, Near Chhani Jakat Naka, Vadodara-390002
NOTICE FOR INVITING BIDS (Online i.e. E-Tender)

Tender No	BRC/EN/TENDER-ROB/LC-142,153,163/213, Date 01.09.2018
Name of work	Construction of 2- Lane Road Over Bridge in lieu of existing LC No's i. 142 At Rly km Km-255/27-29 (DFCC Ch- 4/118.408) between SACHIN and BESTAN stations of JNPT (Mumbai) - Dadri (Delhi) WDFC Route. ii. 153 At Rly km 281/28-30 (DFCC Ch: 32413.160) between Sayan and Kudsad stations of JNPT (Mumbai) – Dadri (Delhi)- WDFC Route. iii. 163 At Rly km 301/30-32 (DFCC Ch: 52553.872) between Kosamba and Hathuran stations of JNPT (Mumbai) – Dadri (Delhi)- WDFC Route.
(a) Type of Tender	Open Tender (Single stage two Packet)
(b) Type of Contract	Works Contract.
(c) Tender Value	Rs. 98,14,62,495
(d) Completion Period	18 months
(e) Earnest Money	Rs. 98,14,630/- (Paid through Demand Draft/ banker's Cheque, FDR payable in favour of "Dedicated freight Corridor corporation of India Limited, Vadodara")
(f) Cost of Tender document	Rs 29,500/- (25,000+ 18% GST) To be paid by D.D./Banker's Cheque in favour of DFCCIL payable at Vadodara
(g) Tender Processing Fee	Rs7,500/- plus taxes and duties as applicable (non-refundable) through e- payment while uploading of tender
(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:	Chief Project Manager/ Vadodara , Dedicated Freight Corridor Corporation of India Limited 4 th floor, Block-A, Narmada Naher Bhavan (Sardar Sarovar Narmada Nigam Ltd. Office), Chhani Jakat Naka, Vadodara, Pin . 390002, Gujarat.
(k) E-Tendering Web Site	E-tendering site- www.tenderwizard.com/DFCCIL Help: Please contact Tender wizard helpdesk at 011-49424365

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(L)Pre bidding Conference	On 10.09.2018 at 11.00 AM at office of Chief Project Manager/ Vadodara, Dedicated Freight Corridor Corporation of India Limited 4th floor, Block-A, Narmada Naher Bhavan (Sardar Sarovar Narmada Nigam Ltd. Office), Chhani Jakat Naka, Vadodara, Pin . 390002, Gujarat.
DATE & TIME SCHEDULE	
Date of Uploading of NIT (Publishing date)	01.09.2018
Documents download/Sale date (Online)	From 01.09..2018 at 13.00 Hrs. To 22.09.2018 at 13.00 Hrs.
Bid submission Last date (Online)	22.09.2018 up to 18.00 Hrs.
Last date of submission of originals of statutory documents i.e. EMD & Tender Document Charge	28.09.2018 up to 11.00 Hrs.
Bid Opening date & Time (online)	28.09.2018 at 13.00 Hrs.

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SUMMARY OF PRICES

Construction of 2- Lane Road Over Bridge in lieu of existing LC No's

- i. **142** At Rly km Km-255/27-29 (DFCC Ch- 4/118.408) between **SACHIN and BESTAN** stations of JNPT (Mumbai) - Dadri (Delhi) WDFC Route.
- ii. **153** At Rly km **281/28-30** (DFCC Ch: 32413.160) between **Sayan and Kudsad** stations of JNPT (Mumbai) – Dadri (Delhi)- WDFC Route.
- iii. **163** At Rly km **301/30-32** (DFCC Ch: 52553.872) between **Kosamba and Hathuran** stations of 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.)	8,15,36,296	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)	37,03,04,738	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.)	38,57,91,472	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)	12,89,03,106	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)	69,72,947	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)	79,53,936	Rates above / below / at par as per schedules shall be filled separately in Microsoft Excel File.
	Grand Total	98,14,62,495	

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Notes:

- (i) The above prices are inclusive of all taxes, duties, levies, etc. except GST.
 - a. GST as applicable from time to time on taxable value of each running account bill shall be paid by DFCCIL.
 - b. The contractor should adhere to anti profiteering provisions as per section 171 of the CGST Act. Where due to change in the rates of GST / Change in law, the contractor gets any credits / benefits, the same shall be passed on to DFCCIL by way of reduction in prices.
- (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**

Schedule A						
Schedule of Approximate Quantities						
S.N	Item NO.	Total Quantity	Item of Work	Rate	Unit	Amount in Rs.
1	27007A	22917	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. A) Depth upto 3m and lead upto 100m for 10 Cum	318.15	Cum	7291043.55
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			
(a)		13	30cm girth upto & including 60cm girth	198.67	Each	2582.69
(b)		17	60cm girth upto & including 120cm girth	879.81	Each	14956.77
(c)		6	120cm girth upto & including 240cm girth	4069.34	Each	24416.04
3	27039		Empty boring through all sorts of strata for providing 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).			
(a)		13280	for 1200 mm dia	3142.87	Rmt	41737276.36
(b)		3700	for 750 mm dia	958.72	Rmt	3547264.00
4	14023	9467	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 (1cement:3 fine sand) etc. complete.	238.40	Rmt	2256965.19
5	27001A		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			

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5 (a)		342.3	for 1200 mm dia	557.94	RMT	190981.51
5 (b)		210	for 750 mm dia	369.66	RMT	77628.60
6	26161	2463.85	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	736592.59
7	26163	4296	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.	362.01	Each	1555198.00
8	27050A	132	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	Each	7119.29
9	27072	8429570	Providing and Fixing in position fully moulded restrained elastomeric bearings as per detailed drawings.	1.11	Cum	9365252.27
10	27101A	4	Providing and fixing marble slab including engraving and painting complete.(A) size 75 cm x 60 cm x 4 cm	955.46	No.	3821.84
11	27098A	598	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.	468.54	No.	280184.10
12	M664	1930	Providing and fixing 100 dia runner and downtake GI pipe to drain water from drainage spout with necessary fixtures including cost of all materials, labors, bends, fixtures, specials etc. Complete as per drawing and Sp. And as per direction of engineer.	439.69	RMT	848602.00
13	26008	15550	Box cutting the road surface to proper slope and camber for making a base for road work	66.16	cum	1028732.60

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			including removing the excavated stuff and depositing on the road side slope as directed upto 50 mt lead.			
14	26B004 B	16147.18	Earth work for embankment with soil having CBR-7 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 depression which occur during process using vibratory roller 8 T to 10T (from borrow area within 5km lead)	236.34	Cum	3816275.28
15	26048	8	Providing & fixing ordinary Kilometer 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	Each	6738.72
16	26089E A	40	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 than 10 ton)	2097.77	Rmt	83910.80
17	26101B	8	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 x60cms. For each leg. including excavation curing etc. complete under the supervision of engineer (B) High intensity Grade	4163.22	No.	33305.76
18	26092A	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	3182.51	No.	12730.04

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			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.			
19	26092B	8	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 Intensity grade.	3272.40	No.	26179.20
20	26103B	16	Providing and fixing sign boards made from 2mm aluminium sheet; size 100x 100cms. as per the design given by engineer in charge 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 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	6618.53	No.	105896.48

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			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	4	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.	49098.12
22	14006A	381	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. (A) Light shades using white cement.	502.31	Sqm	191378.84
23	M942	2532	Providing and fixing 50 mm Dia UPVC pipe for entry cable pipe.	133.32	Rmt	337566.24
24	27100A	472	Providing PVC 100 mm diameter water spouts including necessary iron grating as per drawing.	187.86	Each	88669.92
25	26117 C	4.95	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	32056.3 9	Ha	158679.13

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			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.			
26	27087	82	Providing Vertical Joints-pre moulded asphalt filler joints as per drawings (A) 12 mm	733.26	sq.m	60127.32
27	11012	852	Providing and fixing MS round holding down or Anchor bolts (J type) with nuts and washer plates complete.	40.00	kg	34076.59
28	11001A	6.67	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	40204.63
29	23067	4703	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 materials.	531.26	Rmt	2498515.78
30	27097A	438	Providing and fixing post and pipe railing as per detailed drawing including 3 coats of painting to steel works complete.(more than 10 ton)	1120.21	Rmt	490651.94
31	NH SOR 8.8	5783.993 5	Painting two coats after filling the surface with synthetic enamel paint in all shades on crash barrier concrete surfaces	63.63	Sqm	368035.50
32	20003B	848	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	Cum	288633.76
33	16	70	Providing & construction brick work using Fly Ash Bricks having crushing strength not less than 35 Kg./sq.cm. in foundation in C.M. 1:6 (1	3081.51	Cum	215705.70

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			cement :6 sand) (SMC SOR 2015-16, Item 16 page no 3)			
34	25	230.00	Providing & Applying 15mm thick cement plaster in single coat on brick/concrete walls similar surfaces for plastering & finished even & smooth with a floating coat of cement slurry mixed with admixture of lime or neeru in required proportion etc. comp. in C.M 1:3 (1 cement : 3 sand) (A) For wall and similar surfaces (SMC SOR 2015-16, Item 25 page no 3)	144.43	Cum	33218.90
35	26	230.00	Providing & Applying 20mm thick Sand faced cement plaster on walls or similar surfaces at all floor levels consisting of 12 mm. Av. Th. Backing coat of C.M. 1:3(1 cement :3 sand) & 8 mm thick finishing coat of C.M.1:1 (1 cement: 1 sand) (SMC SOR 2015-16, Item 26 page no 3)	210.08	Cum	48300.00
36	27005	480.00	Providing and filling sand behind brick wall in layers as directed.	414.1	Cum	198768.00
37	26161	220	Providing and applying 2.50 m thick hot applied thermoplastic road marking of white / yellow color on bituminous /concrete surface with fully automatic machines as per details drawings/ engineers instructions for Lane marking, edge marking/ arrow	298.96	Sqm	65771.20
38			Providing and fixing sign board made out of 2mm aluminium sheet; 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 stand post and frame fabricated from suitable size iron angle of 35 x 35 x 3mm, 75 x 75 x 6mm as required; painted with best quality epoxy coatings in black and white bends. The details of symbols 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			
(i)	26093 B	10	Informatory Sign Boards size 80 x 60 cms rectangle	4099.59	No.	40995.90

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(ii)	26092 B	10	Cautionary Sign Boards size 90 x 90 x 90 cms equilateral triangle	3520.86	No.	35208.60
(iii)	26094 B	10	Mandatory and Directional Sign Boards size 60 cm diagonal circle	3346.13	No.	33461.30
(iv)		20	Delineators (SMC Approved Rates)	1515	No.	30300.00
(v)		100	Traffic Cones etc (SMC Approved Rates)	500	No.	50000.00
(vi)		20	Blinkers (SMC Approved Rates)	5050	No.	101000.00
39	8	5440	Providing and fixing interlocking type cement concrete paver block of approved shape & design having 60 mm thickness (M-40) purchased from SMC's approved paverblock manufacturer only on fine sand bedding. Item includes leveling by using vibratory plates compacted machine. Item also includes all materials, Labour, equipments, tools, plants, watering, Cleaning etc. complete. (SMC SOR 2015-16, Item 8 page no 13)	527.22	Sqm	2868076.80
40	20001B	22.59	Demolition and Disposal of unserviceable material with all lead & lift. (i) cement concrete	386.83	Cum	8839.07
41			Dismantling the existing structure including removing and stacking the dismantled materials as and where directed - RCC work & Rubble Masonary.			
(i)	27001A	200.00	(A) RCC Work	577.72	Cum	115544.00
(ii)	27001B	125.00	(B) Rubble/Brick Masonary	254.52	Cum	31815.00
Total Amount of Schedule A						8,15,36,296

Schedule B						
Schedule of Approximate Quantities						
S N	Item No.	Total Quantity	Item of Work	Rate	Unit	Amount in Rs.
1	NS/01	6	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.	9481.21	LS	56887.24
2	NS/02	1991.3	Providing & filling in foundation with ordinary cement concrete M 15 mix and providing necessary vertical pin headers	2705.94	Cum	5388348.08

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			including formwork vibrating ramming & curing complete.			
3	NS/03	16349.493	Providing and casting in situ controlled cement concrete M-35 for RCC bored pile using Tremie Pipe including necessary flushing, dewatering, formwork, mixing in mechanized batch mix plant, transporting, compacting and finishing including all leads & lifts with all labour, material, machinery, all lead, lift etc. complete as per specification, drawing and/or as directed by the Engineer. (Reinforcement shall be paid separately)	4132.69	Cum	67567406.85
4	NS/04	7181.2	Providing and casting in-situ controlled cement concrete of M35 grade for RCC work for open foundation, Pile cap in pier/abutment and RCC Stair Case for any depth/height including dewatering, scaffolding centering, shuttering, mixing in mechanized batch mix plant, transporting, placing in position, consolidating with mechanical vibrators, finishing, curing, de-shuttering carefully, making good the damages, fixing embedment, insert, pockets wherever necessary etc. complete as per specification and drawing and or as directed by the Engineer. (Reinforcement shall be paid separately)	4078.20	Cum	29286390.85
5	NS/05	2089	Providing and casting in situ controlled cement M35 for RCC work in piers and abutment return wall as per drawing including centering, shuttering, mixing in mechanized batch mix plant, transporting, placing in position, consolidating with mechanical vibrators, finishing, curing, de-shuttering carefully, making good the damages, fixing embedment, inserts, pockets wherever necessary etc. with all labour, material, material, machinery, all lead, lift etc. complete as per specification and drawing and or as directed by the Engineer. a) height from 0.0 to 5.0 m (Reinforcement shall be paid separately)	4146.47	Cum	8661969.02
6	NS/06	615	Providing and casting in situ controlled cement M35 for RCC work in piers and abutment return wall as per drawing including centering, shuttering, mixing in	4226.45	Cum	2599264.97

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			mechanized batch mix plant, transporting, placing in position, consolidating with mechanical vibrators, finishing, curing, de-shuttering carefully, making good the damages, fixing embedment, inserts, pockets wherever necessary etc. with all labour, material, material, machinery, all lead, lift etc. complete as per specification and drawing and or as directed by the Engineer. b) height from 5m to 10.0 m (Reinforcement shall be paid separately)			
7	NS/07	1.8	Providing and casting in situ controlled cement M35 for RCC work in piers and abutment return wall as per drawing including centering, shuttering, mixing in mechanized batch mix plant, transporting, placing in position, consolidating with mechanical vibrators, finishing, curing, de-shuttering carefully, making good the damages, fixing embedment, inserts, pockets wherever necessary etc. with all labour, material, material, machinery, all lead, lift etc. complete as per specification and drawing and or as directed by the Engineer.c) height from 10 m to 15.0 m (Reinforcement shall be paid separately)	4782.35	Cum	8608.23
8	NS/08	4368	Providing and casting in situ controlled cement concrete M35 for RCC works on pier cap abutment cap and dirt wall including scaffolding centering, shuttering, mixing in mechanized batch mix plant, transporting, placing in position, consolidating with mechanical vibrators, finishing, curing, de-shuttering carefully, making good the damages, fixing embedment, insert, pockets wherever necessary etc. with all labour, material, material, machinery, all lead, lift etc. complete as per specification, drawing and or as directed by the Engineer. (Reinforcement shall be paid separately)	4232.48	Cum	18487489.56
9	NS/09	133.3	Providing and casting in situ controlled cement concrete M35 for RCC works for pedestals, seismic arresters on pier cap/ abutment cap including scaffolding centering, shuttering, mixing in mechanized	4528.55	cum	603655.14

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			batch mix plant, transporting, placing in position, consolidating with mechanical vibrators, finishing, curing, de-shuttering carefully, making good the damages, fixing embedment, insert, pockets wherever necessary etc. with all labour, material, material, machinery, all lead, lift etc. complete as per specification, drawing and or as directed by the Engineer. (Reinforcement shall be paid separately)			
10	NS/10	13223.6	Providing and casting in situ controlled cement concrete M-35 for R.C.C. work in superstructure scaffolding centering, shuttering, mixing in mechanized batch mix plant, transporting, placing in position, consolidating with mechanical vibrators, finishing, curing, de-shuttering carefully, making good the damages, fixing embedment, insert, pockets wherever necessary etc. with all labour, material, material, machinery, all lead, lift etc. complete as per specification, drawing and or as directed by the Engineer. (A) T-Beam and Deck slab type of superstructure. (II) Main and cross Girder (Reinforcement shall be paid separately)	4430.67	Cum	58589414.17
11	NS/11	1574.992	Providing and casting in-situ controlled cement concrete of M-30 grade 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 for approach slab and wearing coat including required formwork, shuttering and supporting arrangement and transporting concrete from batching plant by transit mixture placing it in position, compacting with needle vibrator including curing with all labour, material, machinery all lead, lift etc. complete as per drawing and technical specification of MORTH & as directed by Engineer Incharge. (Reinforcement shall be paid separately)	4618.62	Cum	7274296.76
12	NS/12	4165	Providing and casting insitu controlled cement concrete of M 40 grade for RCC	4121.85	Cum	17167500.49

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			crash Barrier with 20 mm down coarse aggregate of the required size including formwork, shuttering, placing in position, consolidation with mechanical vibrators curing finishing, de-shuttering 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.			
13	NS/13	45388.85	PRIMER & PROTECTIVE COATING- Providing and laying the external decorative waterproof & 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 suitability primed substrate 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 excellent bond strength with the substrate at least exceeding 1.0 MPa , when tested as per ASTM D 4541.	166.73	Sqm	7567692.25
14	NS/14	806.2	Providing and fixing in position Strip Seal Type Expansion Joint (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.	8282.82	Rmt	6677606.11
15	NS/15	2.24	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.)	9434.02	Cum	21132.2
16	NS/16	7366.6	Reinforced Earth Retaining Wall (Reinforced Earth retaining wall is having	5836.25	Sqm	42993319.25

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			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. Earth fill with granular material which is to be retained on wall , fascia elements of RCC			
17	NS/17	16721.86	Construction of 300 mm thick compacted coursed 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	909.14	cum	15202569.88
18	NS/18	14307.59	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	1011.59	Cum	14473345.41
19	NS/19	54013.103	Providing and applying priming coat using medium setting emulsion bitumen as the rate of 7.5 kg/10 sq.m on WMM surface including cleaning the surface etc complete	20.81	Sqm	1124012.67
20	NS/20	10146	Providing and laying 100 mm thick DBM in two layers using crushed stone aggregate BT chips as per required gradation and using emulsion asphalts 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	2056.34	M.T.	20863667.97

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			and machinery using contractor's own plant and machines etc complete.			
21	NS/21	4767	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.	2209.88	M.T.	10534497.96
22	NS/22	282.2092	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.	3884.16	Cum	1096145.69
23	NS/23	10916	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 pre-coated fine-grained hard stone chipping of 13.2 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.	379.76	Sqm	4145460.16
24	NS/24	29648	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 mechanical 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	615.09	Cum	18236188.32

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			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.			
25	NS/25	14784	Providing & laying 37.5 mm thick compacted built up spray grout base course in single layers for bringing the road surface in to camber and gradient over existing 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.	103.02	Sqm	1523047.68
26	NS/26	684	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	1166.97	Each	798207.69
27	NS/27	2500	Dismantling the flexible pavement including removing and stacking the dismantled materials as and where directed- Granular base	222.20	Cum	555500
28	NS/28	5590	Providing and applying coats 100% Acrylic breathable, Anti-carbonation, Waterproof, Heat insulating, decorative external coating of approved shade after applying prime coat of same material. Mix 1 Lit Acrylic paint and applying it as a primer and allow it to dry for 4-6 hours. Mix 1 lit of anti-carbonation paint with 400-600 ml of water and apply two coats using brush/roller/spray at 24 hours of interval between each coat. Acrylic paint shall be spray/brush /roller applied and shall have conform to the following properties.	210.08	Sqm	1174347.2

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			Carbon Dioxide diffusion equivalent air layer thickness (DIN EN 1062-6)>100m; Carbon dioxide diffusion resistance coefficient (DIN EN 1062-6)>105m; Elongation of cured film shall be as per ASTM D 2370/98 > 400% Chloride ion Diffusion (ASTM D 4541)> 2N/mm ² Zero Penetration; Adhesion of concrete (ASTM D 4541) > 2 N/mm ² ; Solar Reflective Index (ASTM E 1980-11, EN 673:2011, EN 410:2011)>104. The intercoat gap to be 24 hours the rate shall include complete treatment mentioned above.			
29	NS/29	2210	Providing and Applying coal tar Epoxy protective paint in two coats of DFT 210 microns for foundations/concrete surfaces in contact with soil complete as per Specifications and as directed by the Engineer including all leads and lifts etc. complete.	126.25	Sqm	279012.5
30	NS/30	10850	Providing and applying one coat Epoxy Phenolic primer of DFT 50 micron and two coats of Epoxy phenolic coating of DFT 100 microns each or any other equivalent epoxy coating system to all concrete surfaces exposed to atmosphere in substructure and superstructure including cost of material, labour, transportation, scaffolding and prepare the surfaces by cleaning, washing, brushing, sand/ grit blasting etc. complete and as directed by Engineer and as per specification. (Paint shall be got approved from Engineer and tested from approved laboratory).	133.32	Sqm	1446522
31	NS/31	2580	Providing and laying Double Walled corrugated Pipes(DWC) of Polyethylene (conforming to IS:14930-II) of 90mm O.D. with fittings and necessary connecting accessories of same material at required depth for laying cable below footpath slab etc. complete as per specification and as directed by Engineer.	217.15	Rmt	560247
32	NS/32	1790	Rolling and compaction of Subgrade with 8 T vibratory roller and filling in depressions which occur during the process as directed by Engineer Incharge.	39.80	Cum	71242

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33	NS/33	4840	Providing and laying 6 mm thick mastic asphalt, water proof coat with composition of bitumen 30/40 penetration grade conforming to MOST specification with the bitumen of 14% to 17% weight of total mix including cleaning the surface, testing of materials in approved laboratory etc. complete on the deck slab of the bridge as required and as directed by Engineer	133.32	Sqm	645268.8
34	NS/34	260	Asphaltic Plug joint (Providing and laying of asphaltic plug joint to provide for horizontal movement of 25 mm and vertical movement of 2 mm, depth of joint varying from 75 mm to 100 mm, width varying from 500 mm to 750 mm (in traffic direction), covered with a closure plate of 200mm x 6mm of weldable structural steel conforming to IS: 2062, asphaltic plug to consist of polymer modified bitumen binder, carefully selected single size aggregate of 12.5 mm nominal size and a heat resistant foam caulking/backer rod, all as per approved drawing and specifications.	1100.90	Rmt	286234
35	NS/35	1345	Providing and laying 25 mm to 50 mm thick compacted Bituminous Concrete using aggregates as per gradation and percentage of bitumen for mixing shall be as arrived from mix design provided in no case bitumen percentage shall be less than 5.2% for Grade and 5.4% for grade II by wt. of total mix as binder by batch Mix type hot mix plant and laying by sensor paver finisher including consolidation by rollers as specified including providing and operating plant sensor paver and machinery cost of aggregate and filler (if found required as per mix Design)etc. Completed (excluding cost of providing bitumen and applying tack coat emulsion) Bitumen @ 5.2%	2488.64	M.T.	3347220.8
36	NS/36	447	Supplying fly ash including collecting, carting, stacking and spreading the same as directed @ 50kg/ Sq.mt	460.00	M.T.	205620
37	NS/37	90	Supplying and carting of hydrated lime (CaO content not less than 70%) and spreading the same with excavated soil and fly ash thoroughly by Disc Harrowing or Rotavator as the case may be, including	2933.04	M.T.	263973.6

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			watering etc. complete as directed by Engineer incharge @ 10kg/ Sq.mt			
38	NS/38	8940	Supplying and applying SS-I bitumen emulsion confirming to IS 8887 for application of prime coat over Wet Mix Macadam at the rate of 0.85 kg per sq.meter area.	39.58	Sqm	353845.2
39	NS/39	18620	Supplying and applying RS-I bitumen emulsion confirming to IS 8887 for application of Tack coat before application of binder course at the rate of 0.27 kg per sq.meter area.	9.00	Sqm	167580
Total Amount of Schedule B						37,03,04,738

Schedule C						
Schedule of Approximate Quantities						
S N	Item No.	Total Quantity	Item of Work	Rate	Unit	Amount in Rs.
1	27020	530.62	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.	53070.97	MT	28160520.20
2	27043C	2613.074	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	116410042.67
3	27047A	1049.4	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. Note : For Reinforcement of Pile Cap & Stair case this item is used	39265.25	MT	41204956.11
4	27109	710.42	Providing and fixing in position Fe steel bar reinforcement of steel bar reinforcement of steel grade Fe-500 TMT including cutting,	45575.24	MT	32377562.00

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			bending, hooking and tying and welding etc., complete as per detailed drawing and specifications.(A) Pier (B) Abutment (C) Return wall.			
5	27111	729.27	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) Abutment Cap & Dirt wall (C) Pedestal	45575.24	MT	33236655.11
6	27115	2718.82	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) T. Beam and slab type of (i) Deck slab superstructure. (ii) Main and cross girder.(iii) Wearing Coat (iv) Crash Barrier Note: This item used for reinforcement of Decks slab + Wearing Coarse + Crash Barrier	44990.45	MT	122320935.27
7	27123	118.28	Providing and fixing in position steel bar reinforcement For Approach slab, Foot Path Salb & Railing etc. of steel grade FE-500 D (TMT) including cutting ,bending, hooking, tying, welding etc. complete as per detailed drawing and specification. Note: This item used for reinforcement of Foot Path + Railing	44298.53	MT	5239630.29
8	27084	80	Providing and fixing in position to exact profile High Tensile steel wires of required ultimate strength conforming to low Relaxation Prestressing steel strands including bending, cutting, tying providing necessary standards as per IS:14268 and anchorages, sheathing(HDPE), stressing, grouting, ducts as per detailed drawing including necessary plant and machinery complete. (upto 10 Ton)	85514.68	MT	6841174.40
			Total Amount of Schedule C			38,57,91,472

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Schedule D						
Schedule of Approximate Quantities						
SN	Item No.	Total Quantity	Item of Work	Rate	Unit	Amount in Rs.
1	NS/01	1020	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,	94629.73	MT	96522324.50

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			<p>GST, Octroi 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 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.</p>			
2	NS/02	17855	<p>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 &</p>	607.09	Sqm	10839591.80

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			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.			
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 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 and Studs etc.) as per drawing will only be considered for payment.				
		544	a. 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	9153295.25

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		477	b. Launching 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	1517427.25
4	NS/04	44.43797	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 two 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.	71620.20	MT	3182656.40
5	NS/05		Providing and fixing POT -PTFE bearing as per IRC 83 in position true to line and level including cost of all materials fixtures surface for receiving bearing, grouting of sleeves with non-shrink high strength grout, load testing of bearing, transporting and fixing in position including all lead and lift etc. complete as per approved designs and drawing and as directed by Engineer.			
		23	a) Fixed bearing (Capacity upto 250 MT)	53550.00	No.	1231650.00
		27	b) Sliding bearing (Capacity upto 250 MT)	53550.00	No.	1445850.00
		Note: The rate is for finished item complete and paid only after fixing in position below the girder. This item is for Railway Portion				
6	NS-06		Providing and fixing in position POT PTFE Free & Sliding Bearing as per detailed drawings.			
		2340	a) Fix Bearing	252.50	MT	590850.00
		12220	b) Free and Sliding Bearing	277.75	MT	3394105.00

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		Note: The rate is for finished item complete and paid only after fixing in position below the girder. This item is for Approach Portion of LC 142				
7	NS/07	4	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 condition and specification of contract, as per relevant 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.	256339.05	Each	1025356.2
			Total Amount of Schedule D			12,89,03,106

Schedule E**Schedule of Approximate Quantities**

SN	Item NO.	Total Quantity	Item of Work	Rate	Unit	Amount in Rs.
1	NS/01	300000	Autocad Drawings: Preparation/ Alternation and submission of drawings such as general arrangement drawings, phase drawings, scheme plan, structural drawings etc. 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 instructions of Engineer in charge.	0.40	Sqcm	120000

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2	NS/02	3	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.	500000	LM	1500000
3	NS/03	626	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, labors, tools and plants, etc. complete.	1179.80	Sqm	738554.4
4	NS/04	12	Making and supplying of check rails of 52 kg/ 60 kg rails of various lengths for level crossing as per approval drawings.	2997.00	Each LC	35964
5	NS/05	1744.94	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	578429.02
6	NS/06	1	Miscellaneous cost of Any Other USSOR item to Complete the Work	4000000	LS	4000000
Total Amount of Schedule E						69,72,947

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Schedule F

Schedule of Approximate Quantities

SN	Item No.	Total Quantity	Item of Work	Rate	Unit	Amount in Rs.
1			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.			
(i)	192103	6	Initial Pile load test on pile for 2.5 times the design load specific in drawing in non-working areas in the vicinity of the bridge	146130.42	Each	876782.54

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			site by static method. (USSOR 2011 Western Railway)			
(ii)	192104	60	Extra for every increase of 50 T in pile capacity or part thereof over 250 T. (USSOR 2011 Western Railway)	44255.77	Each	2655345.95
(iii)	192107	11	Routine Dynamic Pile load test on working Piles for 1.5 times the design load specified in drawing. (USSOR 2011 Western Railway)	126616.34	Each	1392779.78
2	LS	1	USSOR of W. Railway Items Requiring for successful completion of the work as advised by in charge of work	3000000.00	LS	3000000.00
3	27089	150	Providing and Carrying out Load Test on bridge deck with simulated loading including provision, placing and removal of loading, supplying, fixing and removing deflection measuring instruments etc. complete with platforms for fixing the instruments etc. complete as per the details supplied and specification and as directed by Engineer and including submission of required results in triplicate after satisfactory completion of load test.	193.52	MT	29028.00
		Total Amount of Schedule F				79,53,936

Total Amount of All Schedules (A, B, C, D, E, F)	98,14,62,495
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END OF TENDER DOCUMENT

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