



**Tender No. DFC/ADI/ENGG/ADI-PNU/ROB/LC.NO.214 & 220/R1**

**For**

Construction of 02 Nos. of Road over bridge including approaches complete in lieu of L.C. No. 214 at IR Kms. 735/1-2 between Ambliyan and Dangarwa stations and L.C. No. 220, IR Kms. 743/3-4 between Dangarwa and Jhulasan stations of Palanpur-Ahmedabad section of Ahmedabad Division of Western Railway.

**FINANCIAL BID  
(PACKET-B)**

**TENDER DOCUMENT  
June 2016**

**Employer:  
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED  
CPM-AHMEDABAD UNIT  
(A GOVERNMENT OF INDIA ENTERPRISE)  
Under  
MINISTRY OF RAILWAYS**

Signature of tenderer (s)

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For CPM/DFCCIL/ADI

## GENERAL INFORMATION / DATA SHEET

TENDER NOTICE NO.	<b>DFC/ADI/ENGG/ADI-PNU/ROB/LC.NO.214 &amp; 220/R1</b> <b>Date : 10.06.2016</b>
Name of the work	Construction of 02 Nos. of Road over Bridge including approaches complete in lieu of L.C. No. 214 at IR Kms. 735/1-2 between Ambliyan and Dangarwa stations and L.C. No. 220, IR Kms. 743/3-4 between Dangarwa and Jhulasan stations of Palanpur-Ahmedabad section of Ahmedabad Division of Western Railway.
(a) Tender Value	<b>Rs. 64,30,77,000/-</b>
(b) Completion Period	<b>20 months</b>
(c) Earnest Money	<b>Rs. 64,30,800/-</b>
(d) Date and Time of Issue of Tender	<b>From 14.06.2016 to 18.07.2016 on all working days from 10:30 hrs. to 17:00 hrs. against the prescribed fee of Rs. 25,000 which is not refundable.</b>
(e) Pre Bid conference	<b>On 30.06.2016 at 12.0 Hrs. at CPM-DFCCIL office, Ahmedabad.</b>
(f) Last date and Time of submission of Tender	<b>18.07.2016 upto 15:00 hrs</b>
(g) Date and Time of Opening of Tender (Technical Bids -Packet A)	<b>On 18.07.2016 at 15:30 hrs</b>
(h) Validity of offer	90 days
(i) Retention Money / Security Deposit	5 % of Contract Value
(j) 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

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**SUMMARY OF PRICES**

**Name of work:-** Construction of 02 Nos. of Road over bridge including approaches complete in lieu of L.C. No. 214 at IR Kms. 735/1-2 between Ambliyan and Dangarwa stations and L.C. No. 220, IR Kms. 743/3-4 between Dangarwa and Jhulasan stations of Palanpur-Ahmedabad section of Ahmedabad Division of Western Railway.

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" <b>(Items as per SOR 2015-16 of State Govt. Gujarat R&amp;B Mehsana division.)</b>	<b>Rs. 58878487</b>	.....%age Above/ Below/ At par on the schedule (in figures & in words)
2.	Execution of all works as per Schedule "B" <b>(NS Items as per State Govt.)</b>	<b>Rs.293057812</b>	.....%age Above/ Below/ At par on the schedule (in figures & in words)
3.	Execution of all works as per Schedule "C" <b>(TMT/Liner NS Items as per State Govt.)</b>	<b>Rs. 146475465</b>	.....%age Above/ Below/ At par on the schedule (in figures & in words)
4	Execution of all works as per Schedule "D" <b>(USSOR Items as per Western Railway )</b>	<b>Rs. 3000000</b>	.....%age Above/ Below/ At par on the schedule (in figures & in words)
5	Execution of all works as per Schedule "E" <b>(NS Items as per Western Railway )</b>	<b>Rs. 137923234</b>	.....%age Above/ Below/ At par on the schedule (in figures & in words)
6	Execution of all works as per Schedule "F" <b>(NS Items as per Western Railway etc.)</b>	<b>Rs. 3742064</b>	.....%age Above/ Below/ At par on the schedule (in figures & in words)
	<b>Grand Total</b>	<b>Rs.64, 30,77,062</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 02 Nos. of Road over bridge including approaches complete in lieu of L.C. No. 214 at IR Kms. 735/1-2 between Ambliyan and Dangarwa stations and L.C. No. 220, IR Kms. 743/3-4 between Dangarwa and Jhulasan stations of Palanpur-Ahmedabad section of Ahmedabad Division of Western Railway.

**Schedule- A**

**Schedule of Approximate quantities**

Sr. No.	Item No.	Total Qty.	Item of work	Rate	UNIT	Amount in Rs.
1	27007A	37411	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 3.0 M and lead upto 100m for 10 Cum.	309.27	Cu.m.	11570100
2	27039	7309	Empty boring through all. sorts of strata for providing 1.20 M dia. R.C.C. bored piles to required depth including providing necessary casting pipe with all plants and equipment's as required complete.	3360.73	RMT	24563576
3	27044	6	Load testing of foundation piles including loading with necessary kentledge or any other suitable method as directed.	39654.65	Nos.	237928
4	27072	3596076	Providing and fixing in position fully moulded restrained elastomeric Bearings as per detailed drawings.	1.07	Cu. Cm.	3847801

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<b>5</b>	<b>14018A</b>	<b>720</b>	Providing and laying chequered precast cement concrete tiles 22mm thick with aggregate of sizes upto 6mm in floors, treads of steps and landings on 20mm thick bed of C.M. 1:6 (1-cement : 6-sand) or L.M. 1:1.5(1-Lime putty : 1.5 coarse sand) joint with neat cement slurry with pigments to match the shade of the tiles. (up to 10 ton).	366.08	Sqm	263578
<b>6</b>	<b>27100A</b>	<b>328</b>	Providing PVC. 100 mm. diameter water spouts including necessary iron gratings as per drawings.	187.86	Each	61618
<b>7</b>	<b>14.21 of NH</b>	<b>360</b>	Providing and laying of a strip seal expansion joint catering to maximum horizontal movement up to 70 mm complete as per drawing and standard specifications to be installed by the manufacturer /suppliers or their authorised representative ensuring compliance to the manufacture's instruction for installation.	11696.81	RMT	4210852
<b>8</b>	<b>26089GA</b>	<b>14</b>	Supplying and fixing reinforced concrete heavy duty non-pressure pipes with collars 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 or slopes) of class NP3 internal diameters (vi) 1200mm dia.	4083.44	R.M	57168
<b>9</b>	<b>27004A</b>	<b>14536</b>	Providing and laying Fitter Media 600mm thick at the back of RE walls as per detailed specifications.	749.16	Sq.m.	10889790
<b>10</b>	<b>23067</b>	<b>1415</b>	Providing, laying and jointing in true line and level 110 diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with	1172.04	RMT	1658437

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**DFC/ADI/ENGG/ADI-PNU/ROB/ LC.NO.214 & 220/R1**

			rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diameter x 149 mm length x 145 mm 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.			
<b>11</b>	<b>26161</b>	1887.22	Providing and laying Road marking with hot applied thermo plast compound reflecting glass bends on bituminous surface. Providing and laying Hot applied thermoplastic compound 2.5 cm thick including reflectorizing glass bends 250 gms/sqmt area, thickness of surface applied glass bends as per IRC 35 the finished surface to be level uniform and free from streaks & holes.	299.36	Sq.m.	564958
<b>12</b>	<b>26101B</b>	8	Providing & Fixing Village name boards made out of 2mm. Aluminium sheet size 90 x 60 cms rectangle per the design of IRC - 67 - 1977 Pre treated with phosphating process & acid etching : coated with one coat of epoxy primer and two coats of best quality epoxy paint reflectorised with retro reflective sheeting as per latest M.O.S.T Specification :Letters and numerals sound be as per IRC-30-1968, 3.1 M long ( 2 no's) Stand post and frame fabricated from suitable size iron angle of 50 x 50 x 5mm : painted with best	5247.15	NOS	41977

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			quality epoxy coating in black and white bends the details of symbol or inscription / numerals for each board shall be as per the instruction for 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 leg. including excavation curing etc. comp. under the supervision of engineer in charge.(B) High intensity Grade.			
<b>13</b>	<b>26103B</b>	16	Providing & Fixing sign boards made out of 2mm. Aluminium sheet size 1 Meter x 1 Meter cms as per the design given by engineer in charge, Pre treated with phosphating process & acid etching : coated with one coat of epoxy primer and two coats of best quality epoxy paint reflectorised with retro reflective sheeting as per latest M.O.S.T Specification, Letters and numerals should be as per IRC - 30-1968, 3.1 M long ( 2 nos) Stand post and frame fabricated from suitable size iron angle of 35 x 35 3mm & 50 x 50 x 5mm 75 x 75 x 6mm : 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 for 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 leg. including excavation curing etc. comp. under the supervision of engineer in charge.(B) High intensity Grade.	6618.61	Nos	105898

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**DFC/ADI/ENGG/ADI-PNU/ROB/ LC.NO.214 & 220/R1**

14	26098A	4	<p>Providing and fixing Junction Board made out of 2mm aluminium sheet, size 244 x 122 cms rectangle, as per the design of IRC-67-1977. 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.</p>	12274.16	Each	49097
15	26092B	12	<p>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-67-1977. 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</p>	3272.73	No	39273

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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 x 60 cms for each leg, including excavation curing etc. complete under the supervision of Engineer-In-Charge (A) Engineer grade.			
<b>16</b>	<b>26048</b>	<b>24</b>	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.)	841.73	Each	20202
<b>17</b>	<b>27101A</b>	<b>4</b>	Providing and fixing marble slab including engraving and painting complete. (A) size 75 cm x 60 cm x 4 cm.	955.46	NO	3822
<b>18</b>	<b>26163</b>	<b>1620</b>	Supplying and fixing cat eye (Stimsonite) made out from Acrylo butyle styrene high compression injection moulding with reflector made of MMC (prismatic type of size 12cm x 6cm x 2.5cm) provided with bituminous adhesive 100g. with each unit for fixing. (High Intensity grade).	375.72	Each	608666
<b>19</b>	<b>26089EA</b>	<b>40</b>	Supplying and fixing reinforced concrete heavy duty non-Pressure pipes with collars for culverts carrying heavy traffic as per IS 458-in C.M. 1:2 watering and laying ( to level or slopes) of class NP3 of following internal diameters (vii) 900mm dia.	2093.71	RM	83748
			<b>TOTAL AMOUNT OF SHEDULE-A</b>			<b>58878487</b>

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**Schedule- B****Schedule of Approximate quantities**

Sr. No.	Item No.	Total Qty.	Item of work	Rate	UNIT	Amount in Rs.
1	State NS/1	2.00	Clearing the site before commencement and after completion of the work.	20200	LS	40400
2	State NS/2	2.00	Marking out the centre line of the bridge and various other components structures and complete lining out and levelling with theodolite, level including construction necessary masonry pillars for lines and levels and establishing necessary benchmark etc. complete as directed.	15150	LS	30300
3	State NS/3	12836.34	Earthwork 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 the depression which occur during the process using Vibratory roller 8T to 10T.(D) From Borrow area within 5.0KM. lead	240.38	Cu.m.	3085599
4	State NS/4	292.50	Providing & filling in foundation with ordinary cement concrete M 15 mix and providing necessary vertical pin headers including formwork vibrating ramming & curing complete.	2591.24	Cu.m.	757938
5	State NS/5	8021.50	Providing and laying controlled cement concrete M 35 for R.C.C. bored piles of 1.20M dia. including ramming, vibrating and finishing excluding cost of T.M.T reinforcement etc. complete.	3915.59	Cu.m.	31408905

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<b>6</b>	<b>State NS/6</b>	<b>3792.40</b>	Providing and casting in situ controlled cement concrete M-35 for R.C.C. pile cap including necessary formwork, vibrating, curing and finishing complete.	3912.24	Cu.m.	14836779
<b>7</b>	<b>State NS/7</b>		Providing and casting in situ controlled cement M-35 for R.C.C. work For Piers/Abutment as per drawing including centring shuttering scaffolding where necessary laying vibrating curing and finishing complete. exposed concrete finish and form mark as directed by Engineer-in-charge, etc. complete as per specification.			
<b>A</b>		<b>1136.30</b>	0.0M TO 5.0M	3966.17	Cu.m.	4506759
<b>B</b>		<b>709.50</b>	5.0M TO 10.0M	4186.45	Cu.m.	2970286
<b>C</b>		<b>125.00</b>	10.0M TO 15.0M	4735.52	Cu.m.	591940
<b>8</b>	<b>State NS/8</b>	<b>1478.00</b>	Providing and casting in situ controlled cement concrete M 35 Mix for R.C.C. works in pier cap including controlled cement concrete M 40 bed block or pedestals of required drawings, centring- shuttering, scaffolding wherever necessary laying vibrating curing and finishing complete.	4053.34	Cu.m.	5990837
<b>9</b>	<b>State NS/9</b>	<b>4132.00</b>	Providing and casting in situ controlled cement M 35 for R.C.C. work in superstructure including centring shuttering scaffolding, ramming, vibrating curing and finishing complete..	4392.56	Cu.m	18150058
<b>10</b>	<b>State NS/10</b>	<b>465.00</b>	RCC M-25 grade concrete. Providing and casting in situ controlled cement concrete M25 for Footpath/Inspection platform/railing etc. including formwork curring and finishing complete.	4152.38	Cu.m.	1930857

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<b>11</b>	<b>State NS/11</b>	<b>512.00</b>	Providing and casting in situ controlled cement concrete M 40 for average 75 mm. thick wearing coat laid as directed including tamping vibrating finishing curing and filling in joints with bitumen complete.	4319.98	Cu.m.	2211830
<b>12</b>	<b>State NS/12</b>	<b>2012.00</b>	Provision of an Reinforced cement concrete crash barrier at the edges of the road, approaches to bridge structures and medians, constructed with M-40 grade concrete with TMT reinforcement conforming to IRC:21 and dowel bars 25 mm dia, 450 mm long at expansion joints filled with pre-moulded asphalt filler board, keyed to the structure on which it is built and installed as per design given in the enclosure to MOST circular No. RW/NH - 33022/1/94-DO III dated 24 June 1994 as per dimensions in the approved drawing and at locations directed by the Engineer, all as specified.	2898.70	RMT	5832184
<b>13</b>	<b>State NS/13</b>	<b>589.00</b>	Providing and casting in situ controlled cement M-35 for R.C.C. work For Box culvert as per drawing including centring shuttering scaffolding where necessary laying vibrating curing and finishing complete.	4735.52	Cu.m.	2789221

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<b>14</b>	<b>State NS/14</b>	<b>19908.00</b>	Providing and Laying only with Knitted and PVC coated Polyester Uniaxial Geogrid-Techgrid indigenously manufactured from selected high tenacity polyester yarn with high molecular weight (> 25000 g/mol), and low carboxyl end group (<30mmol/kg) for Reinforced soil wall with granular fill of PHI-30 degree (design is to be carried out in accordance with BS-8006 / FHWA) with concrete Panel (M35) as facia, casting & erection of panels with Techgrid, providing & laying of levelling pad of M15, providing and laying coping beam (M25), providing and laying 600mm thick filter media etc. completed as per the necessary drawing and instruction of Engineer In Charge. Excluding providing, laying and compacting selected backfill and retained fill behind the wall, excavation and ground improvement, if any.		Sq.m.	0
		<b>7158.75</b>	1 TO 4	4328.86	Sq.m.	30989235
		<b>3188.74</b>	4 TO 6	4385.42	Sq.m.	13983964
		<b>4208.46</b>	6 TO 8	4628.83	Sq.m.	19480246
		<b>3887.90</b>	8 TO 10	4914.66	Sq.m.	19107707
<b>15</b>	<b>State NS/15</b>	<b>62018.00</b>	Providing Sand & filling in approach portion of 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 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.	362.59	Cu.m.	22487107

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<b>16</b>	<b>State NS/16</b>	<b>2692.00</b>	Provision of an Reinforced cement concrete crash barrier at the edges of the road, approaches to bridge structures and medians, constructed with M-40 grade concrete with Fe-500D reinforcement conforming to IRC:21 and dowel bars 25 mm dia, 450 mm long at expansion joints filed pre-moulded asphalt filler board, keyed to the structure on which it is built and installed as per design given in the enclosure to most circular No. RW/NH-33022/1/94-DO III dated 24 June 1994 as per dimension in the approved drawing and at locations directed by the Engineer, all as specified) & Provide 150 mm dia PVC pipe for utility services etc complete.	10016.17	RMT	26963530
<b>17</b>	<b>State NS/17</b>	<b>12035.36</b>	Construction of 300 mm thick compacted coarsed granular sub base (Grade-I crushed B.T materials of 53 mm to 26.5 mm @ 35 %, 26.5 mm to 4.75 mm @ 45%, Below 2.36 mm @ 20 %) by providing close graded material, mixing in a mechanical mix plant at OMC, carriage of a mix material to work site, spreading uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve desire density, complete clause as per 401.	2134.13	Cu.m.	25685023
<b>18</b>	<b>State NS/18</b>	<b>9232.77</b>	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 the 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.	1953.34	Cu.m.	18034739

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<b>19</b>	<b>State NS/19</b>	<b>5042.00</b>	Providing and laying 70 mm DBM using crushed stone aggregate BT chips as per required gradation and using emulsion asphalt as a tack coat @ 2.5 kg / 10 sqmt and the 60/70 grade asphalt at 40 kg/MT)by total weight of mix hot laid process using drum mix plant including heating and mixing asphalt & materials by drum mix process transporting the 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 machineries etc. complete	2326.03	M.T.	11727843
<b>20</b>	<b>State NS/20</b>	<b>2882.00</b>	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 / 10 sqmt and the 60/70 grade asphalt at 55 kg/MT)by total weight of mix hot laid process using drum mix plant including heating and mixing asphalt & materials by drum mix process transporting the 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 machineries etc. complete .	2671.45	M.T	7699119
<b>21</b>	<b>State NS/21</b>	<b>11525.15</b>	Providing and applying priming coat using medium setting emulsion bitumen as the rate of 7.5 kg/10sq.m. on WMM surface including cleaning the surface etc. Complete.	24.34	Sq.m	280522

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22	<b>State NS/22</b>	<b>10653.50</b>	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 60/70 for tack coat at the rate of 2.50 kg/10 sqmt. of road surface area and using 0.50 cum of stone Aggregate per 10 sq.m 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 MORT&H specification clause No 506 including cost of all materials. Fuel labours, tools etc. completed.	139.38	Sq.m	1484885
			<b>TOTAL AMOUNT OF SHEDULE-B</b>			<b>293057812</b>

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

Sr. No.	Item No.	Total Qty.	Item of work	Rate	UNIT	Amount in Rs.
1	State NS/1	268.82	Providing Steel Liner 6 mm thick for pile including Fabricating and Setting out as per Detailed Drawing.	44690.34	MT	12013657
2	State NS/2	921.70	Providing and fixing in position steel bar reinforcement of steel grade Fe-500D (T.M.T) for R.C.C. bored piles as per detailed drawing, including cutting, hooking, tying, welding and including forming the cage and lowering it in position complete.	45791.38	MT	42205915
3	State NS/3	662.50	Providing and fixing in position steel bar reinforcement of steel grade Fe-500D (T.M.T) for R.C.C. Pile Cap including cutting, hooking, tying, welding etc. complete as per detailed drawing and specification.	45791.38	MT	30336789
4	State NS/4	572.60	Providing and fixing in position steel bar for pier/abutment, pier cap & seismic arrester reinforcement of steel grade FE-500D (TMT) including cutting, bending, hooking, tying, welding etc., complete as per detailed drawing and specification.	45791.38	MT	26220144
5	State NS/5	741.00	Providing and fixing in position steel bar reinforcement For Super Structure of steel grade FE-500D (TMT) including cutting, bending, hooking, tying, welding etc., complete as per detailed drawing and specification.	45791.38	M.T.	33931413

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For CPM/DFCCIL/ADI

**DFC/ADI/ENGG/ADI-PNU/ROB/ LC.NO.214 & 220/R1**

<b>6</b>	<b>State NS/6</b>	<b>38.60</b>	Providing and fixing in position steel bar for RCC box of steel grade FE-500D (TMT) including cutting , bending, hooking, tying, welding etc., complete as per detailed drawing and specification.	45791.38	MT	1767547
			<b>TOTAL AMOUNT OF SHEDULE-C</b>			<b>146475465</b>

<b><u>Schedule- D</u></b>						
<b>Schedule of Approximate quantities</b>						
<b>Sr. No.</b>	<b>Item No.</b>	<b>Item of work</b>	<b>UNIT</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount in Rs.</b>
<b>1</b>	<b>USSOR</b>	USSOR of W.Rly. items requiring for successful completion of the work as advised by in-charge of the work.		LS		3000000
		<b>TOTAL AMOUNT OF SHEDULE-D</b>				<b>3000000</b>

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## Schedule of Approximate quantities

Sr. No.	Item No.	Description	UNIT	Quantity	Rate	Amount in Rs.
1	NS/1	<p>Supply &amp; 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. Work has to be done as per drawings and specifications approved by Railway.</p> <p>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.</p> <p>Note:1. The fabrication of girders must be got done from RDSO approved firms only. 2. The rate is inclusive of assembly</p>	MT	1242	87544.39	108730132

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		<p>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.</p> <p>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/2	<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 &amp; 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.</p>	Per Sq.m.	18000.00	564.57	10162260
3	NS/3	<p>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</p>				

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		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, Studs etc.) as per drawing will only be considered for payment.				
	(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.	MT	521.00	15442.54	8045563

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	(b)	Launching of Steel girder spans 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.	MT	721.00	2815.14	2029716
4	NS/4	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.	MT	36.00	59844.23	2154392
5	NS/5	Providing and fixing in position true to line and level POT cum PTFE bearings including cost of all materials, fixtures, preparing surface for receiving bearing, grouting of sleeves with non shrink high strength groute, loads testing of bearing, transporting and fixing in position including all lead and lifts etc. complete as per approved design & drawing and as directed by Engineer-in-charge under				

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		prestressed concrete girders as per approved drawings and special condition. Specification of contract. The contractor will supply design & drawing for this item.				
		Fixed bearing	MT	2760	280.60	774456
		Sliding bearing	MT	14754	408.48	6026714
		Note: The rate is for finished item complete and paid only after fixing in position below the girder.				
		<b>Total of Schedule - E</b>				<b>137923234</b>

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## Schedule- F

## Schedule of Approximate quantities

Sr. No.	Item No.	Description	UNIT	Quantity	Rate	Amount in Rs.
1	NS/1	Epoxy painting. Supplying and applying epoxy paint of approved quality on surfaces of abutment, abutment caps, returns, piers, pier caps, PSC girders/slabs, deck slab, parapet walls, crash barriers etc. confirming to the specifications laid down in the special conditions of contract. The rate inclusive of contractor's own paint, material, equipments, machineries, labour, taxes, with all lead, lift, scaffolding staging, etc. complete. (Rates are for finished item and will be paid after application as per specification.	sqm	7817	300.42	2348383
2	NS/2	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.	sqm	523	845.90	442406
3	NS/3	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.	Metre	240	938.67	225281
4	NS/4	Making and supplying of check rails of 52 kg/ 60 kg rails of various lengths for level crossing as per approval drawings.	Each LC	2	2997.00	5994

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5	NS/5	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 is 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.	Per month	40	18000.00	720000
		<b>Total of Schedule - F</b>				<b>3742064</b>
		<b>Total of Schedule A, B, C, D, E &amp; F</b>		<b>Rs. 64, 30, 77, 062</b>		

**END OF TENDER DOCUMENTS**

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