



Tender No. DFC/ADI/ENGG/ADI-PNU/ROB/LC.NO.170 &174/19

For

Construction of 02 Nos. of Road over Bridges including approaches complete in lieu of LC No.170 at Railway km. 655/1-2 (DFC CH. 110.105) between Umardashi and Palanpur stations and LC No.174 at Railway km 661/4-5 (DFC CH. 104.183) between Umardashi and Chhapi stations of Ahmedabad-Palanpur section of Ahmedabad Division of Western Railway .

(PARTICIPATION THROUGH E-TENDER ONLY)

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**FINANCIAL BID
(PACKET-B)**

**TENDER DOCUMENT
August, 2019**

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

GENERAL INFORMATION / DATA SHEET

TENDER NOTICE NO.	DFC/ADI/ENGG/ADI-PNU/ROB/LC.No.170 & 174/19
Name of the work	Construction of 02 Nos. of Road over Bridges including approaches complete in lieu of LC No.170 at Railway km. 655/1-2 (DFC CH. 110.105) between Umardashi and Palanpur stations and LC No.174 at Railway km 661/4-5 (DFC CH. 104.183) between Umardashi and Chhapi stations of Ahmedabad-Palanpur section of Ahmedabad Division of Western Railway
Tender Value	Rs. 104,33,63,000/-
Completion Period	20 months
Earnest Money	Rs. 1,04,33,630/-
Cost of Tender Document	Rs.29,500/- (25,000 + 18% GST) to be Paid through Demand Draft / Banker's cheque payable in favour of "Dedicated Freight Corridor Corporation of India Limited, Ahmedabad"
Tender Processing Fee	Rs. 7500/- plus taxes and duties as applicable (non-refundable) through e-payment while uploading of tender.
Date and Time of Sale of Tender (Online)	From date 14.08.2019.
Pre Bid conference	On 29.08.2019 at 12.30 Hrs. at CGM-DFCCIL office, Ahmedabad.
Last date and Time of submission of Tender (Online)	14.09.2019 upto 18:00 hrs
Last date and Time of submitting documents in physical form.	19.09.2019 upto 18:00 hrs
Date and Time of Opening of Tender (Technical Bids - Packet A)	On 20.09.2019 at 15:00 hrs
Date and Time of Opening of Financial Bid -Packet B	Will be notified to bidder qualified in Technical bid and also posted on www.tenderwizard.com/DFCCIL
E-Tendering Web site Address:	www.tenderwizard.com/DFCCIL For any help in connection with e-tendering please contact at tenderwizard.com helpdesk No. 011-49424365 or Mobile No. +91-9599653865/9714881992/080-40482000.
Validity of offer	90 days
Retention Money / Security Deposit	5 % of Contract Value
Performance Bank Guarantee	Performance Guarantee (PG) have to be submitted within 21(Twenty One) 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.
Office Address	Chief General Manager, Dedicated Freight Corridor Corporation of India Limited, B/3rd Floor, 4-D Square Mall, Opp. Vishwkarma Engg. College, Visat-Gandhinagar Highway, Ahmedabad-380005

Signature of tenderer (s)

Date:



SUMMARY OF PRICES

Name of work :- Construction of 02 Nos. of Road over Bridges including approaches complete in lieu of LC No.170 at Railway km. 655/1-2 (DFC CH. 110.105) between Umardashi and Palanpur stations and LC No.174 at Railway km 661/4-5 (DFC CH. 104.183) between Umardashi and Chhapi stations of Ahmedabad-Palanpur section of Ahmedabad Division of Western Railway .

Note:- Financial bid (Microsoft Excel file) to be filled, saved and uploaded with digital signature. Only the downloaded financial bid filed should be uploaded after filing and saving. Do not upload scanned copy such as pdf or jpg etc of 'Financial Bid' in document library.

Sl. No.	Description of works	Cost as per Schedules	Rates to be quoted online mode in figures & words (Clearly mentioning above / below / at par on Schedules)
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 Palanpur division.)	Rs. 79670860	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.)	Rs. 400297766	
3.	Execution of all works as per Schedule "C" (TMT/Liner NS Items)	Rs. 426859938	
4	Execution of all works as per Schedule "D" (USSOR Items as per Western Railway)	Rs. 3193200	
5	Execution of all works as per Schedule "E" (NS Items as per Western Railway)	Rs. 128075473	
6	Execution of all works as per Schedule "F" (NS Items as per Western Railway etc.)	Rs. 6182161	
	Grand Total	Rs. 104,42,79,398	

I / We offer and agree to execute above work at rate uploaded online at www.tenderwizard.com/DFCCIL through digital signature.

Signature of tenderer (s)

Date:

Notes:

- (i) The above rates/prices are inclusive of all taxes, inclusive of GST, duties, levies, Royalties etc.
- (ii) The Contractor shall be responsible for deposition of applicable GST to the concerned authority and DFCCIL shall Pay the applicable GST after receipt of GST invoice with on account bill from the contractor.
- (iii) 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.
- (iv) The tenderer should quote single percentage above / par / below for each schedule.
- (v) 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.
- (vi) Rate of item payable to contractor shall be as per above/below/at par on rates of schedule.

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

Name of work :- " Construction of 02 Nos. of Road over Bridges including approaches complete in lieu of LC No.170 at Railway km. 655/1-2 (DFC CH. 110.105) between Umardashi and Palanpur stations and LC No.174 at Railway km 661/4-5 (DFC CH. 104.183) between Umardashi and Chhapi stations of Ahmedabad-Palanpur 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	26117C	4.30	Clearing and grubbing road land including uprooting rank vegetation grass bushes, shrubs, sapling and trees girth up to 300 mm removal of stumps of trees cut earlier and disposal of unserviceable materials (C) By mechanical means in area of light jungle	32019.02	Ha	137682
2	27007A	45659	Excavation for foundation in sand gravel, clay, soft, soils and murrum etc. including soring strutting and dewatering as necessary and dis posing off the excavated stuff as directed (A) up to 3.00 mt depth and lead upto 100m for 10Cum	309.06	Cu.m.	14111371
3	27007B	2988	Excavation for foundation in sand gravel, clay, soft, soils and murrum etc. including soring strutting and dewatering as necessary and dis posing off the excavated stuff as directed. (B)3.00 mt to 6.0mt depth. and lead upto 100m for 10Cum.	362.59	Cu.m.	1083419
4	26008	12970	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 50Mt. lead.	65.95	Cu.m.	855372
5	27039	10559	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.	2006.87	RMT	21190540

Signature of tenderer (s)

Date:



6	USSOR 192100		Conducting load testing of a single pile Up to following capacity in accordance with IS 2911-IV including installation of loading platform & preparation of pile head or construction of test cap & dismantling of test cap after test etc. with all labour, material, tool & plants, equipment, machinery, etc. complete as per drawing & specification as directed by the Engineer.			
	192103	10	Initial load test Above 100 tonne capacity Upto 250 tonne capacity pile	197745.38	Each	1977454
	192104	300	Extra for every increase of 50 t in a pile capacity or part thereof over 250 t.	43817.59	Each	13145277
	192107	10	Routine load test Above 100 tonne capacity Upto 250 tonne capacity pile	277267.47	Each	2772675
7	27072	6193160	Providing and fixing in position fully moulded restrained elastomeric Bearings as per detailed drawings.	1.11	Cu.cm	6874408
8	14018A	525	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.	357.54	Sqm	187709
9	27100A	440	Providing PVC. 100 mm. diameter water spouts including necessary iron gratings as per drawings.	150.49	Each	66216
10	NH SOR 14.22	427	Providing and laying of a strip seal expansion joint catering to maximum horizontal movement upto 70 mm complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation.	1724.07	RMT	736178

Signature of tenderer (s)

Date:

11	USSOR 201050		Providing and fixing in position of standard performed sealed and slab type or Strip Seal elastomeric Type Expansion Joints for railway bridge or Road over Bridge as per approved drawing and latest MOST/IRC 69 specification. The rate are inclusive of supplying, fixing with contractor's own materials e.g. inserts, bolts, socket tubes, neoprene sheet/cap etc. equipments, machineries, labour, all taxes, royalty, all lead and lift, transport, testing, surface preparations, complete.			
	201051	96	For 80 mm expansion	10959.03	RMT	1052067
12	26089EA	20	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 of following internal diameters.(vii) 900mm dia.	2093.73	RMT	41875
13	23067	6566	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 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 center to center 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.	1171.60	RMT	7692726

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Date:



14	19033	1642	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.	422.18	Sqm.	693220
15	26101B	8	Providing & Fixing Village name boards made out of 2mm. Aluminium sheet / 4 mm ACP (aluminium composite panel), size 90 x 60 cms rectangle per the design of IRC - 67 - 2012 Pre treated with phosphating process & acid etching : coated with one coat of epoxy primer and two coats of best quality epoxy paint reflectorised with high intensity prismatic grade retro reflective sheeting of type-4 as per ASTM D-4956 and latest M.O.S.T Specification, 3.3 M long (2 no's) Stand post and frame fabricated from suitable size iron angle of 75 x 75 x 6mm/ 65 NB circular MS pipe as required and frame fabricated from suitable size iron angle of 35x35x3mm; 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. A warranty for 7 years for the retro reflective sheeting from original manufacturer and certified copy of three years outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor.(B) Class-B type-4 retro reflective sheeting.	5401.48	Nos.	43212
16	26103B	16	Providing & Fixing sign boards made out of 2mm. Aluminium sheet / 4 mm ACP (aluminium composite panel) size	10464.61	Nos.	167434

Signature of tenderer (s)

Date:



			<p>1 Meter x 1 Meter 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 high intensity prismatic grade retro reflective sheeting of type-4 as per ASTM D-4956 and as per latest M.O.S.T Specification, , 4.0 M long (2 nos) Stand post and frame fabricated from suitable size iron angle of 75 x 75 x 6mm / 65 NB circular MS pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm ; 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. A warranty for 7 years for the retro reflective sheeting from original manufacturer and certified copy of three years outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor.(B) Class-B type-4 retro reflective sheeting.</p>			
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17	26098B	4	<p>Providing and fixing Junction Board made out of 2mm aluminium sheet / 4 mm ACP (aluminium composite panel), size 244 x 122 cms rectangle, as per the design of IRC-67-2012. 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 high intensity prismatic grade retro reflective sheeting of type-4 as per ASTM D-4956 and as per the latest M.O.S.T. specification. 4.0 Mt. long (2 nos.) stand post and frame fabricated from suitable size iron angle of 75 x 75 x 6mm / 65 NB circular MS pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; 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 (B) High intensity Grade. A warranty for 7 years for the retro reflective sheeting from original manufacturer and certified copy of three years outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor.(B) Class-B type-4 retro reflective sheeting.</p>	22715.91	Each	90864
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18	26092B	12	Providing and fixing Cautionary Sign Board made out of 2mm aluminium sheet/ 4 mm ACP (aluminium composite panel), size 90 x 90 x 90 cms equilateral triangle, as per the design of IRC-67-2012. 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 high intensity prismatic grade retro reflective sheeting of type-4 as per ASTM D-4956 and as per the latest M.O.S.T. specification, 3.6 Mt. long stand post and frame fabricated from suitable size iron angle of 75 x 75 x 6mm / 65 NB circular MS pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; 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. A warranty for 7 years for the retro reflective sheeting from original manufacturer and certified copy of three years outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor.(B) Class-B type-4 retro reflective sheeting.	4326.84	Nos.	51922
19	26048	2	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.).	1000.91	Each	2002
20	27101A	4	Providing and fixing marble slab including engraving and painting complete. (A) size 75 cm x 60 cm x 4 cm	842.34	Nos.	3369
21	26163	1445	Supplying and fixing cat eye (Stimsonite) made out from Acrylo butyle styrene high compression injection moulding with	375.72	Each	542915

Signature of tenderer (s)

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			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)			
22	14023	2957	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.	243.41	RMT	719763
23	USSOR 191050		Conducting in situ full size Plate Load Test (PLT) at selected location as per IS :1888 including making loading arrangements & casting of RCC/cast in situ concrete footing as per codal provisions including excavation and refilling of trial pit.			
	191051	8	b. Plate size 45cm x 45cm	10453.50	Each	83628
24	USSOR 192110		Lateral Load Testing of single pile in accordance with " IS Code of practice IS: 2911 (Part IV) for determining safe allowable lateral load of pile" with all labour, material, tool & plants, equipment, machinery, etc. complete as per drawing and specification as directed by the engineer.			
	192111	12	Piles with lateral load capacity of up to 10 ton	174625.72	Each	2095509
	192112	12	Piles with lateral load capacity of above 10 ton & up to 20 ton	58702.21	Each	704427
25	19032	27536	Applying two coats of Birla (white cement based) or Asian (acrylic lapy- putty) or equivalent & two coats of primer of approved brand and manufacture on new concrete surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth.	47.87	Sqm	1318148

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26	19031	27536	Finishing concrete surface with weather proof exterior emulsion paint on concrete surface (two coats) to give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials. etc complete.	44.65	Sqm	1229482
			TOTAL AMOUNT OF SCHEDULE - A			79670860

Signature of tenderer (s)

Date:

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	Marking out the centre line of the bridge and various other components structures and complete lining out and levelling with Total Station, theodolite, level including construction necessary masonry pillars for lines and levels and establishing necessary benchmark etc. complete as directed.	30300	LS	60600
2	State NS/2	19079	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.MC. to required dry density including filling the depressing which occur during the process using vibratory roller 8.T. to 10 T	240.38	Cu.m.	4586210
3	State NS/3	3254	Providing & filling in foundation with ordinary cement concrete M 15 mix and providing necessary vertical pin headers including formwork vibrating ramming & curing complete.	3155.24	Cu.m.	10267151
4	State NS/4	10995	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.	4856.08	Cu.m.	53392600
5	State NS/5	336	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.	1453.39	Nos.	488339

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DFC/ADI/ENGG/ADI-PNU/ROB/LC.No.170 & 174/19

6	State NS/6	4796	Providing and casting in situ controlled cement concrete M-35 for R.C.C. pile cap including necessary formwork, vibrating, curing and finishing complete.	4921.73	Cu.m.	23604617
7	State NS/7		Providing and casting in situ controlled cement M-35 for R.C.C. work For Piers/Abutments 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.			
	A	6575	0.0M TO 5.0M	4989.40	Cu.m.	32805305
	B	1338	Above 5.0M	5265.13	Cu.m.	7044744
8	State NS/8	2230	Providing and casting in situ controlled cement concrete M-35 for R.C.C. work in pier cap, abutment cap, Seismic arrester and dirt wall including controlled cement concrete M-40 bed blocks or pedestals of required size below bearings as per detailed drawings, centring, shuttering, scaffolding, wherever necessary, laying vibrating, curing and finishing complete.	5019.70	Cu.m.	11193931
9	State NS/9		Providing and casting in situ controlled cement M 40 for R.C.C. work in superstructure including centring shuttering scaffolding, ramming, vibrating curing and finishing complete.			
		250	Running line (Fixed shuttering shall be provided as per approved design of fixed shuttering) Note: Cost of fixed shuttering will be paid separately under relevant item.	4524.80	Cu.m	1131200
		419	Non running line	5566.11	Cu.m	2332200
10	State NS/10	6721	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..	5264.00	Cu.m	35379344

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11	State NS/11	811	Providing and casting in situ controlled cement concrete M 40 Wearing coat having 75mm avg. thickness as per drawing and laid as directed including tamping vibrating finishing curing and filling in joints with bitumen complete.	4692.46	Cu.m.	3805585
12	State NS/12	2789	Provision of Reinforced cement concrete crash barrier at the edges of the road, approaches to bridge structures and medians, constructed with M-40 grade concrete with, 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 as per drawing attached excluding steel FE 500 D.	1674.88	RMT	4671240
13	State NS/13		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 drainage composite TDC-55130 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.			
	A	1179	1 TO 4 m.	4062.22	Sq.m.	4789357
	B	3393	4 TO 6 m.	4118.78	Sq.m.	13975021

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	C	5185	6 TO 8 m.	4362.19	Sq.m.	22617955
	D	4809	8 TO 10 m.	4647.01	Sq.m.	22347471
	E	800	10 TO 12 m.	4996.47	Sq.m.	3997176
14	State NS/14	80800	Providing Earth fill / Sand & filling in approach portion of RE/Retaining Wall as per MORTH section 3100 and IRC:SP:102 latest Revision including laying as per specification ,compaction in 250 mm thick loose layers and dressing (MORTH specification Cl. by mechanical means using motor grader including 305.3.5), watering upto required OMC including rolling with the use of vibratory roller when fill is at suitable moisture content with desired field density all as per the approved design ,drawing, specification and directed by the Engineer.	578.73	Cu.m.	46761384
15	State NS/15	2325	Provision of an Reinforced cement concrete crash barrier with friction slab at the edges of the road, approaches to bridge structures and medians, constructed with M-40 grade concrete, 450mm 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 with friction slab as per drawing attached excluding cost of steel FE 500 D.	5688.32	RMT	13225344
16	State NS/16	9541	Construction of 200 mm thick compacted coarsed granular subbase (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	1259.47	Cu.m.	12016603

Signature of tenderer (s)

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			density , complete clause as per 401.			
17	State NS/17	11926	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.	1338.25	Cu.m.	15959970
18	State NS/18	3266	Providing and laying wet mix base course macadam 150 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.	1338.25	Cu.m.	4370725
19	State NS/19	14140	Providing and laying 90 mm DBM in single layer 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 VG-30 grade asphalt at 40 kg/MT)by total weight of mix hot laid process using hot mix plant including heating and mixing asphalt & materials by hot 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.	2326.93	MT	32902790

DFC/ADI/ENGG/ADI-PNU/ROB/LC.No.170 & 174/19

20	State NS/20	4837	Providing and laying 30 mm Bitumen concrete using crushed stone aggregate BT chips as per required gradation and the VG-30 grade asphalt at 54 kg/MT)by total weight of mix hot laid process using hot mix plant including heating and mixing asphalt & materials by hot 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.	2744.17	MT	13273550
21	State NS/21	69465	Providing and applying priming coat with emulsion SS1 grade at the rate of 7.50 kg/ 10 Sq.mt. including cost of asphalt and preparing the surface heating, and applying etc. complete.	41.01	Sq.m	2848760
22	State NS/22	36	Providing and casting in situ controlled cement concrete M-35 for approach slab including formwork curing and finishing complete.	4229.88	Cu.m.	152276
23	State NS/23	338	Providing parapet of controlled cement concrete M-40 as per detailed drawings with necessary reinforcement including, shuttering, laying vibrating and finishing to line and level complete.(ii) Cast in situ.	876.68	RMT	296318
			TOTAL AMOUNT OF SCHEDULE-B			400297766

Signature of tenderer (s)

Date:

Schedule- C**Schedule of Approximate quantities**

Sr. No.	Item No.	Total Qty.	Item of work	Rate	UNIT	Amount in Rs.
1	NS/1	362	Providing Steel Liner 6 mm thick for pile including Fabricating and Setting out as per Detailed Drawing.	65280	MT	23631360
2	NS/2	5834	Providing and fixing in position steel Fe 500 D bar reinforcement For R.C.C. bored piles, Pile Cap, pier, Abutment, Abutment cap, pier cap, Pedestal & seismic arrester, Super Structure, Approach slab, crash barrier, friction slab, wearing coat etc. any structure of steel grade FE-500 D (TMT) including cutting, bending, hooking, tying, welding etc., complete as per detailed drawing and specification.	69117	MT	403228578
			TOTAL AMOUNT OF SCHEDULE -C			426859938

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Date:

<u>Schedule- D</u>						
Schedule of Approximate quantities						
Sr. No.	Item No.	Item of work	UNIT	Quantity	Rate	Amount in Rs.
1	1	Misc. State SOR /USSOR of W.Rly. items requiring for successful completion of the work as advised by in-charge of the work.	LS	2	1500000	3000000
2	USSOR 33062	OPC 53 Grade USSOR of W.Rly. items for supply of cement as and when required as per instruction given by in-charge.	Tonne	40	4830	193200
TOTAL AMOUNT OF SCHEDULE-D					3193200	

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Date:

Schedule- E

Schedule of Approximate quantities

Sr. No.	Item No.	Description	UNIT	Total Quantity	Rate	Amount in Rs.
1	NS/1	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 conforming to IS: 2062-2011 Grade E- 250 (B0) 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.	MT	858	105390	90424620
		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.				

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Date:



		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				
2	NS/2	Metalising 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.	Per Sq.m.	18000	664	11952000
3	NS/3	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.				

Signature of tenderer (s)

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		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	478	19305	9227790
	(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	380	5687	2161060
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	90	72809	6552810

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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 grout, 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 girders as per approved drawings and special condition specification of contract. The contractor will supply design & drawing for this item.				
	NS/5 a	Fixed bearing	MT	2752	362.00	996224
	NS/5b	Sliding bearing	MT	11755	527.00	6194885
		Note: The rate is for finished item complete and paid only after fixing in position below the girder.				
6	NS/6	Load testing of one composite steel/span designing and load testing of one composite girder/span as selected by the engineer conforming 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 contractors labour supervisor, T&P's all taxes, equipment, leading materials instruction of load test jacks etc., dial gauges, including all lead & lift.	Each	2	283041.95	566084
		TOTAL AMOUNT OF SCHEDULE- E				128075473

Signature of tenderer (s)

Date:

Schedule- F

Schedule of Approximate quantities

Sr. No.	Item No.	Description	UNIT	Total 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	3934	265	1042510
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	508	1122	569976
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	4225	315	1330875
4	NS/4	Designing and preparation of detailed drawing of foundation, substructure, super structure staircase, retaining wall, bearings, temporary arrangements, launching scheme etc. as per relevant IR,BIS,IRC and other codes, preparation of fabrication drawings, Proof checking of designs and drawings from IIT, Approval of design and drawing from respective authority, approval, to carry out any addition/ alteration/ modification /change in drawing during design approval and	Job work	2	1290000	2580000

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Date:



		construction phase at work, providing guidance during construction and site visit if any.				
		The Rate inclusive of following items:				
		<p>i) Preparation of preliminary and detailed design of foundation, substructure, superstructure, including staircase, approach slab (wherever applicable) and all other drawing as required for construction of DFC + Railway portion of the ROB and both approaches.</p> <p>ii) Submission of proof checked detailed design for Foundation, Sub-structure, Super-Structure (if in non-RDSO span is adopted), Reinforced Earth Wall and Retaining wall.</p> <p>iii) The detail design of superstructure will be further governed as per para (iv) h of deliverables in part-I Chapter-III.</p> <p>iv) Out-station visits (Sites, District HQs, WR HQ, Delhi/NCR and other locations in ADI-PNU section, with stakeholders will be attended by consultant team on specific advise of DFCCIL and nothing extra will be paid for visits for such meetings during currency of contract.</p> <p>v) Proof Checking of design of ROB structures of Railway portion from IIT, and there after approval of same by WRly and/ or DFCCIL.</p> <p>vi) Proof Checking of design of ROB structures of approaches from IIT and Approval of GADs, detailed design and drawing of viaducts as well as RE wall and retaining walls of approaches of said ROB from respective state Govt authorities.</p>				
5	NS/5	Making and fixing of check rails of 52 kg/ 60 kg rails of various lengths for level crossing as per approval drawings.	Each LC	8	2850	22800
6	NS/6	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	Per month	40	15900	636000

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		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.				
		TOTAL AMOUNT OF SCHEDULE-F				6182161
Total of Schedule A, B, C, D, E & F			Rs. 104,42,79,398			

END OF TENDER DOCUMENTS

Signature of tenderer (s)

Date: