



**Tender No. DFC/ADI/ENGG/ ADI-VG/ROB/LC.No. 16A/2021**

**For**

**Construction of Four Lane ROB including Approaches Complete in lieu of LC NO. 16A at IR Km 517/02-03 Between Stations Ambali Road & Sanand of Ahmedabad-Viramgam Section of Ahmedabad Division of Western Railway.**

**(PARTICIPATION THROUGH E-TENDER ONLY)**

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(Help Desk of IREPS : 011-23761525)

**FINANCIAL BID  
(PACKET-B)**

**TENDER DOCUMENT  
January, 2021**


**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-VG/ROB/LC.No.16A/2021
Name of the work	<b>Construction of Four Lane ROB including Approaches Complete in lieu of LC NO. 16A at IR Km 517/02-03 Between Stations Ambali Road &amp; Sanand of Ahmedabad-Viramgam Section of Ahmedabad Division of Western Railway</b>
Tender Value	<b>Rs. 64,96,05,000/-</b>
Completion Period	<b>18 months</b>
Earnest Money	<b>Rs.50,00,000/-</b>
Cost of Tender Document	<b>Rs..29,500/- (25,000 + 18% GST)</b> to be Paid through Demand Draft / Banker's cheque payable in favour of "Dedicated Freight Corridor Corporation of India Limited, Ahmedabad"
Date and Time of Sale of Tender (Online)	<b>From date 24.01.2021.</b>
Pre Bid conference	<b>On 08.02.2021 at 12.30 Hrs. at CGM-DFCCIL office, Ahmedabad.</b>
Last date and Time of submission of Tender (Online)	<b>24.02.2021 up to 15:00 hrs</b>
Last date and Time of submitting documents in physical form.	<b>01.03.2021 up to 18:00 hrs</b>
Date and Time of Opening of Tender ( <b>Technical Bids - Packet A</b> )	<b>On 02.03.2021 at 12:30 hrs</b>
Date and Time of Opening of <b>Financial Bid -Packet B</b>	Will be notified to bidder qualified in Technical bid and also posted on <a href="http://www.ireps.gov.in">www.ireps.gov.in</a>
E-Tendering Web site Address:	<a href="http://www.ireps.gov.in">www.ireps.gov.in</a> <a href="http://www.ireps.gov.in/itslink">www.ireps.gov.in/itslink</a> at <a href="http://www.dfccil.com">www.dfccil.com</a> (Help Desk of IREPS : 011-23761525)
Validity of offer	90 days
Retention Money / Security Deposit	5 % of Contract Value
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.
Office Address	<b>Chief General Manager</b> , Dedicated Freight Corridor Corporation of India Limited, B/3rd Floor, 4-D Square Mall, Opp. Vishwkarma Engg. College, Visat-Gandhinagar Highway, <b>Ahmedabad-380005</b>

Signature of tenderer (s)  
Date:

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 25/01/2021  
 For CGM/DFCCIL/Ahmedabad

**SUMMARY OF PRICES**

**Name of work :- Construction of Four Lane ROB including Approaches Complete in lieu of LC NO. 16A at IR Km 517/02-03 Between Stations Ambali Road & Sanand of Ahmedabad-Viramgam Section of Ahmedabad Division of Western Railway**


Sl. No.	Description of works	Cost as per Schedules	Rates to be quoted online mode (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 division Ahmedabad/ USSOR. )	Rs. 33101329.48	Rates above / below / at par as per schedules.
2.	Execution of all works as per Schedule "B" (NS Items as per State Govt.)	Rs. 147696878.87	
3.	Execution of all works as per Schedule "C" (TMT/Liner NS Items)	Rs. 362473486.74	
4	Execution of all works as per Schedule "D" (USSOR Items as per Western Railway )	Rs. 1431511.56	
5	Execution of all works as per Schedule "E" (NS Items as per Railway )	Rs. 101371368	
6	Execution of all works as per Schedule "F" (NS Items as per Railway etc.)	Rs. 3529716.74	
	<b>Grand Total</b>	<b>Rs. 649604291.39</b>	

***I / We offer and agree to execute above work at rate uploaded online at [www.ireps.gov.in](http://www.ireps.gov.in) through digital signature.***

Signature of tenderer (s)

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Date:

  
 23/01/2021  
 For CGM/DFCCIL/Ahmedabad

**Notes:**

- (i) The above rates/prices are inclusive of all taxes, duties, levies, Royalties etc. except GST.
- (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 on account Bill from the Contractor. GST TDS shall be levied as per GST act/rules.
- (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 / At 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 FOUR LANE ROB INCLUDING APPROACHES COMPLETE IN LIEU OF LC NO. 16A AT IR Km 517/02-03 BETWEEN STATIONS AMBALI ROAD & SANAND OF AHMADABAD-VIRAMGAM 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	3.00	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 Note:- Please read unit of this item as Ha. Instead of shown in Sqm.	32018.93	Ha	96056.79
2	27007A	8864	Excavation for foundation in sand gravel, clay, soft, soils and murrum etc. including soring strutting and dewatering as necessary and disposing off the excavated stuff as directed. (A) up to 3.00 mt depth.	309.27	Cu.m.	2741369.28
3	27039	7806	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.	1718.62	Rmt	13415547.72

4	USSOR 192100		Conducting load testing of a single pile Up to following capacity in accordance with IS 2911 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 Up to 250 tonne capacity pile	142574.13	Each	1425741.30
	192104	196	Extra for every increase of 50 t in a pile capacity or part thereof over 250 t.	43817.59	Each	8588247.64
	192107	10	Routine load test Above 100 tonne capacity Up to 250 tonne capacity pile	152986.97	Each	1529869.70
5	27072	7562016	Providing and laying in position fully moulded restrained elastomeric bearing as per detailed drawings.	1.07	Cu.cm	8091357.12
6	14018A	381	Providing and laying chequered precast cement concrete tiles 22mm thick with aggregate of sizes up to 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.	347.44	Sq.m.	132374.64
7	27100	314	Providing PVC. 100 mm. diameter water spouts including necessary iron gratings as per drawings.	182.61	Each	57339.54

8	NH SOR 14.22	488	Providing and fixing in position Strip Seal Type Expansion Joint (for movement of 70mm/80mm) as per detailed drawing, MoRTH specification/ IRC 69 latest Revision. 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. The Contractor shall procure Strip Seal Expansion Joint, confirming to relevant MoRTH / IRC 69 specification from reputed manufactures of Strip Seal Expansion Joint with prior approval of Engineer-in-charge.	1724.07	Rmt	841346.16
9	USSOR 201050		Providing and fixing in position Strip Seal Type Expansion Joint (for movement of 70mm/80mm) as per detailed drawing, MoRTH specification/ IRC 69 latest Revision. 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. The Contractor shall procure Strip Seal Expansion Joint, confirming to relevant MoRTH / IRC 69 specification from reputed manufactures of Strip Seal Expansion Joint with prior approval of Engineer-in-charge.			
	201051	48	For 80 mm expansion	10959.03	Rmt	526033.44

10	23067	2184	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.	530.25	Rmt	1158066.00
11	26161	620	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.	298.96	Sq.m.	185355.20



12	26101B	4	<p>Providing &amp; 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 &amp; 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 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.</p>	5401.48	Nos	21605.92
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13	26103B	8	<p>Providing &amp; Fixing sign boards made out of 2mm. Aluminium sheet / 4 mm ACP (aluminium composite panel) size 1 Meter x 1 Meter as per the design given by engineer in charge, Pre treated with phosphating process &amp; 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 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 &amp; 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>	10464.61	Nos	83716.88
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14	26098B	2	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 & 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.	22715.91	Each	45431.82
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15	26092B	2	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 & 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	8653.68
16	26048	1	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.)	1001.07	Each	1001.07

17	27101A	2	Providing and fixing marble slab including engraving and painting complete.	814.46	Nos	1628.92
18	26163	545	Supplying and fixing cat eye with nail less surface (Stimsonite) made out from Acrylic 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	204767.40
19	14023	481	Providing and fixing pre-cast concrete kerb stone of gray cement based concrete block 30cm length,30cm height and 15cm thick of M25 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.	241.39	Rmt	116108.59
20	USSOR 191050		Conducting in situ 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.			
		2	b. Plate size 45cm x 45cm	10453.50	Nos	20907.00
21	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	8	Piles with lateral load capacity of up to 10 ton	174625.72	Nos	1397005.76
	192112	8	Piles with lateral load capacity of above 10 ton & up to 20 ton	58702.21	Nos	469617.68

22	19032	28627	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. 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.	47.87	Sqm	1370374.49
23	19031	28627	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.	72.72	Sqm	2081755.44
24	27004A	373	Providing, and laying filter media 600mm thick as directed at the back of the abutment, return/retaining wall etc as per technical specifications.	624.00	Sq m	232752.00
25	27050A	285	Providing and Laying Weep holes in RCC retaining wall, abutment etc using 100 mm dia AC pipe and non-corrodible grating and geotextile, extending through the full width of the structure with slope of 1V:20H etc. complete as per drawing and technical specification.	51.92	Nos	14797.20
			<b>TOTAL AMOUNT OF SCHEDULE-A</b>			<b>44858828.38</b>
			<b>Less 26.21 % below on Schedule - A</b>			<b>11757498.9</b>
			<b>GRAND TOTAL OF SCHEDULE-A</b>			<b>33101329.48</b>

**NAME OF WORK:- CONSTRUCTION OF FOUR LANE ROB INCLUDING APPROACHES COMPLETE IN LIEU OF LC NO. 16A AT IR Km 517/02-03 BETWEEN STATIONS AMBALI ROAD & SANAND OF AHMADABAD-VIRAMGAM SECTION OF AHMEDABAD DIVISION OF WESTERN RAILWAY**

**Schedule- B**

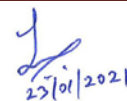
**Schedule of Approximate quantities**

Sr. No.	Item No.	Total Qty.	Item of work	Rate	UNIT	Amount in Rs.
1	State NS/1	1	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.	27053.57	LS	27053.57
2	State NS/2	2535	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	239.77	Cu.m.	607816.95
3	State NS/3	1908	Empty boring through all. sorts of strata for providing 1.00 M dia. R.C.C. bored piles to required depth including providing necessary casting pipe with all plants and equipment's as required complete.	1193.82	Rmt	2277808.56
4	State NS/4	561	Providing & filling in foundation with ordinary cement concrete M 15 mix and providing necessary vertical pin headers including formwork vibrating ramming & curing complete	3136.84	Cu.m.	1759767.24
5	State NS/5	9502	Providing and laying controlled cement concrete M 35 for R.C.C. bored piles of 1.20/1.0M dia. including ramming, vibrating and finishing excluding T.M.T reinforcement complete.	4772.76	Cu.m.	45350765.52

Signature of tenderer (s)

Date:

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 For CGM/DFCCIL/Ahmedabad

6	State NS/6	356	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 1200/1000 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	1460.38	Nos.	519895.28
7	State NS/7	4498	Providing and casting in-situ controlled cement concrete M 35 For R.C.C. pile cap, Staircase footing, plinth beam, retaining wall raft etc including necessary formwork vibrating, curing and finishing complete.	4514.58	Cu.m.	20306580.84
8	State NS/8		Providing and casting in situ controlled cement M-35 for R.C.C. work For Piers/Abutments, Staircase columns, retaining walls etc 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.			
		1350	0.0M TO 5.0M	4576.11	Cu.m.	6177748.50
		364	Above 5.0M	4637.02	Cu.m.	1687875.28
9	State NS/9	2314	Providing and casting in situ controlled cement concrete M 35 Mix for R.C.C. works in pier cap, pedestal wall, Inspection platform , Staircase Tie beam, waist slab, landing , abutment cap, dirt wall, seismic arrestor etc including controlled cement concrete and M 40 bed block/ pedestals of required drawings, centring shuttering, scaffolding wherever necessary laying vibrating curing and finishing complete..	4784.75	Cu.m.	11071911.50



10	State NS/10		Providing and casting in situ controlled cement M 40 for R.C.C. work in superstructure (deck slab, precast panel, kerb supporting railing etc) including centring shuttering scaffolding, ramming, vibrating curing and finishing complete.			
		481	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 of precast panel.	4472.05	Cu.m	2151056.05
11	State NS/11	7970	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.	5246.54	Cu.m	41814923.80
12	State NS/12	792	Providing and casting in situ controlled cement concrete M 40 having thickness as per drawing. wearing coat laid as directed including tamping vibrating finishing curing and filling in joints with bitumen complete.	4907.38	Cu.m	3886644.96
13	State NS/13	2145	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, 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 FE 500D.	1550.82	Rmt	3326508.90

14	State NS/14	1534	Providing reinforced Earth fill / Sand in approach portion of RE/Retaining as per MORTH section 3100 and IRC:SP:102 or latest Revision including laying as per specifications , compaction to achieve desired field density in 250 mm thick loose layers (MORTH specification Cl. by mechanical means using motor grader including 305.3.5), dressing and 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.	593.70	Cu.m.	910735.80
15	State NS/15	779	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 density , complete clause as per 401.	1303.91	Cu.m.	1015745.89
16	State NS/16	973	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.	1309.10	Cu.m.	1273754.30

17	State NS/17	584	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.	1361.88	Cu.m.	795337.92
18	State NS/18	746	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	2312.48	M.T.	1725110.08
19	State NS/19	260	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.	2735.51	M.T	711232.60

20	State NS/20	3603	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.	38.87	Sq.m.	140048.61
21	State NS/21	36	Providing and casting in situ controlled cement concrete M-35 for approach slab including formwork curing and finishing complete.	4345.02	Cu.m.	156420.72
22	State NS/22	8	Providing Vertical Joints between retaining wall etc with GI sheet 300mm wide & 1.5mm thick with required holes and holding arrangement & with necessary asphalt pad sealing the joint with filler material.	267.00	Rmt	2136.00
			<b>TOTAL AMOUNT OF SCHEDULE-B</b>			<b>147696878.87</b>

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Signature of tenderer (s)  
Date:

**NAME OF WORK:- CONSTRUCTION OF FOUR LANE ROB INCLUDING APPROACHES COMPLETE IN LIEU OF LC NO. 16A AT IR Km 517/02-03 BETWEEN STATIONS AMBALI ROAD & SANAND OF AHMADABAD-VIRAMGAM SECTION OF AHMEDABAD DIVISION OF WESTERN RAILWAY**

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

Sr. No.	Item No.	Total Qty.	Item of work	Rate	UNIT	Amount in Rs.
1	NS/1	369	Providing Steel Liner 6 mm thick for pile including Fabricating and Setting out as per Detailed Drawing.	51445.46	MT	18983374.74
2	NS/2	4668	Providing and fixing in position steel Fe 500 D bar reinforcement For R.C.C. bored piles, Pile Cap, pier, pier cap, abutment, abutment cap, retaining wall, dirt wall, stair case, Pedestal & seismic arrester, Super Structure, Approach slab, crash barrier, inspection platform, pedestal wall, 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.	73584.00	MT	343490112.00
<b>TOTAL AMOUNT OF SCHEDULE-C</b>						<b>362473486.74</b>

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**Schedule- D****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	1	1500000	1500000.00
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	20	4830	96600.00
		<b>TOTAL AMOUNT OF SCHEDULE-D</b>				<b>1596600.00</b>
		<b>Less 10.34 % below on Schedule - D</b>				<b>165088.44</b>
		<b>GRAND TOTAL OF SCHEDULE-D</b>				<b>1431511.56</b>

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Schedule- E


## Schedule of Approximate quantities

Sr. No	Item No.	Description	UNIT	Total Quantity	Rate	Amount in Rs.
1	NS/1	Supply, fabrication and erection of Welded type Bow string Girder of required span for IRC loading at site as per RDSO drawings, Indian railway Unified Standard Specifications (W&M) -2010(amended up to date) and Indian Railways standard specification for fabrication and erection of steel girder bridges and locomotive turntables (Fabrication specification) Serial no B1-2001 (amended up to date) including all incidental work etc., supplying and fixing in position of shop welding/shop bolting with nuts and washers, field bolts etc. required for complete fabrication of the girders and transportation of the fabricated material at site and stacking of the same at places as directed by engineer including metalizing as per clause no 39.2.1 of B1-2001 over the structural members with all contractor's labour , fuel, consumables, machinery, loading , unloading, tools & plants, material, load and lift complete job as per specification and as directed by engineer.				
	(a)	Grade E350 with sub quality B0	MT	720	121088	87183360.00
	(b)	Grade E250 with sub quality B0	MT	99	116715	11554785.00
	Notes					
	(i)	Steel (Plates and Rolled Sections) should conform to IS 2062-2011. It shall have sub quality 'B0'. 12mm thick & above plates shall be fully killed and fully normalized/controlled cooled.				

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(ii)	The steel shall be procured only from those firms, which are Established, Reliable, Indigenous & Primary Producers of steel having Integrated Steel Plant (ISP) , using iron ore as the basic raw material and having in house iron rolling facilities, followed by production of liquid steel & crude steel.				
(iii)	30 % of rate payment shall be released after fabrication material received at fabrication workshop and after necessary tests (UT test, physical and chemical test) of material & approved by engineer in charge of work. Payment shall be released after submission of indemnity bond of appropriate amount.				
(iv)	50 % payment shall be released after assembling the fabricated components as per drawing of ROB at site. Payment shall be released after submission of indemnity bond of appropriate amount.				
(v)	10 % payment shall be released in case of (a) Launching scheme shall be approved by all concerned i.e. Railway/DFCCIL, CRS etc. (b) All concreting work and related works for the purpose of launching shall be completed in all respect and same shall be certified by DFCCIL. (c) The launching work delayed on account of Railway/DFCCIL and beyond contractor's control, after 90 days period fulfilling all requisite conditions above (a) to (c) which shall be certified by DFCCIL for releasing payment.				
(vi)	Remaining 10 % will be released after erection and completion of related works.				
(vii)	No deduction for holes and no addition for rivets/bolts/welds etc. shall be made.				
(viii)	The contractor shall submit the detailed erection drawing and Launching scheme along with necessary design calculations for approval from Railways/IITs/Concern Authorities/ before mentioned and launching of girder.				
(ix)	Temporary supports if any required for the erection /Launching shall be erected after the approval of engineer. Nothing extra shall be payable on this account.				

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	(x)	The contractor shall take all safety precautions that will be necessary in consultation with Engineer as per extant rules/guidelines. Nothing extra shall be payable on this account.				
	(xi)	Notwithstanding above, the contractor shall be fully responsible for any mishap that may occur as a result of negligent working.				
	(xii)	Contractor has to take every precautionary measure for safety of running train during and after launching of girder.				
	(xiii)	The rate includes launching under traffic blocks wherever required. However the rate does not include the cost of possession of traffic/OHE block.				
	(xiv)	The block required shall be arranged by DFCCIL. The duration of the block shall be as approved by Engineer. If the block granted is not made available due to unavoidable reasons, nothing extra/no compensation shall be paid.				
	(xv)	However, penalties, if any, levied by Indian Railways caused due to any careless working or otherwise of violation of the Terms and conditions of the track/OH block shall be payable by the contractor.				
	(xvi)	The cost of all test as per prevailing code for acceptance shall be borne by contractor.				
2	NS/2	Fabricating, supplying and erecting in position standard structural steel sections manufactured from RDSO 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.	MT	31	57187	1772797.00

		<b>Note:-</b> The item include steel fabrication of MS railing of RCC staircase, Railing at inspection platform, MS railing along footpath, Rail over crash barrier etc with miscellaneous fabrication work except those include NS/1 of schedule -"B"				
3	NS/3	Design, Manufacturing and supplying of POT/POT-PTFE bearings for the following spans as per RDSO bearing drawings no RDSO/B-10411/9 (latest revision) for 60m Bow string Girder at site including fitting and fixing in position true to line and level with all contractor's materials, labour, tools and plants, loading unloading and stacking at site as per specification and as directed by engineer as a complete job.				
		For 60m Bow string Girder	set	2	430213	860426.00
	Notes					
	(i)	The drawing upto last alteration/revision/amendment shall be followed.				
	(ii)	Cast steel of grade 280-520 W or 340-570 W of IS 1030 shall be used.				
	(iii)	Each set of bearing shall include 4 nos of bearings (1 POT bearing and 3 POT-PTFE bearings) and all bolts ad all other components connected with bearing as shown respective drawings.				
	(iv)	The supply of POT/POT-PTFE bearing shall include all materials shown in the drawings. The supply also includes supply of all holding down bolts to fix the bearings at the bottom on pedestal and all bolts to fix the bearings to the bottom of girder.				
	(v)	75 % payment shall be made after supply of each set at site on submission of indemnity bond and balance 25 % shall be made after fixing of bearings.				
		<b>TOTAL AMOUNT OF SCHEDULE-E</b>				<b>101371368.00</b>

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Schedule- F


**Schedule of Approximate quantities**

Sr. No	Item No.	Description	UNIT	Total Quantity	Rate	Amount in Rs.
1	NS/1	Epoxy paint :: 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.)	Sq.m.	3384	298.00	1008432.00
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.	Sq.m.	381	1108.00	422148.00
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.	RMT	1029	354.00	364266.00

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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 construction phase at work, providing guidance during construction and site visit if any.	Job work	1	1479335	1479335.00
		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, Substructure, 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>				


		vi) Proof Checking of design of ROB structures of approaches from IIT/State Govt. design (R&B) circle 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 if required/DFCCIL. (vii) Submission of the AS BUILT/COMPLETION drawings				
5	NS/5	Site Office	Per month	18	14196.43	255535.74
		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.				
		<b>TOTAL AMOUNT OF SCHEDULE-F</b>				<b>3529716.74</b>

**END OF TENDER DOCUMENTS**

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