



E-Tender No. MUMBAI/N/EN/ROB/LC -104, dtd 03.02.2021

For

Construction of one ROB including approaches complete in lieu of existing LC no. 104 at KM 208/30 – 209/02 between Dungri - Valsad Railway station of Virar – Surat Section of Mumbai Division of Western Railway.

FINANCIAL BID

TENDER DOCUMENT
February - 2020

Employer:
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED
CGM/NORTH/MUMBAI UNIT
(A GOVERNMENT OF INDIA ENTERPRISE)
Under
MINISTRY OF RAILWAYS

SUMMARY OF PRICES

Name of work:- Construction of ROB including approaches complete in lieu of existing LC no. 104 at KM 208/30 – 209/02 between Dungri - Valsad Railway station of Virar – Surat Section of Mumbai 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" (Items as per SOR 2015-16 of State Govt. Gujarat R&B Valsad division.)	Rs. 1,70,40,558.63	Rates above / below / at par as per schedules shall be filled separately in online tender.
2.	Execution of all works as per Schedule "B" (NS Items as per State Govt of Gujarat)	Rs. 16,95,55,271.95	
3.	Execution of all works as per Schedule "C" (Items as per SOR 2015-16 of State Govt. Gujarat R&B Valsad division.)	Rs. 7,77,01,398.08	
4	Execution of all works as per Schedule "D" (NS Items as per Western Railway)	Rs. 6,35,91,573.64	
5	Execution of all works as per Schedule "E" (NS Items as per Western Railway)	Rs. 14,08,638.95	
6	Execution of all works as per Schedule "F" (USSOR Items as per Western Railway)	Rs. 22,16,942.72	
	Total in Rs.	Rs. 33,15,14,383.97	

MUMBAI/N/EN/ROB/LC-104

Notes:

- (i) The above prices are inclusive of all taxes, duties, levies, etc. Except GST.
 - a. GST as applicable from time to time on taxable value of each running account bill shall be paid by DFCCIL.
 - b. The contractor should adhere to anti profiteering provisions as per section 171 of the CGST Act. Where due to change in the rates of GST / Change in law, the contractor gets any credits / benefits, the same shall be passed on to DFCCIL by way of reduction in prices.
- (ii) The tenderer should quote single percentage above / par / below for each schedule.
- (iii) If the uniform percentage quoted by the Tenderer does not clearly indicate whether the rates are above/at par/below the estimated rates then through sign convention it will be considered to be on plus side and evaluated accordingly.
- (iv) Rate of item payable to contractor shall be as per above/below/at par on rates of schedule.

CGM/N/MUMBAI acting for and on behalf of The President of India invites E-Tenders against Tender No **MUM_N_EN_ROB_104** Closing Date/Time 08/03/2021 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

1. NIT HEADER

Name of Work	Construction of Road Over Bridge in lieu of existing LC No. 104 at IR KM 208/30-209/02 between Valsad- Dungri Railway station of Virar - Surat Section of Mumbai Division of Western Railway.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	08/03/2021 15:00	Date Time Of Uploading Tender	
Pre-Bid Conference Required	Yes	Pre-Bid Conference Date Time	15/02/2021 11:00
Advertised Value	331514383.97	Tendering Section	TENDER
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money /Bid Security (Rs.)	0.00	Validity of Offer (Days)	120
Obtain Bid Security Declaration in lieu of Bid Security	Yes		
Tender Doc. Cost (Rs.)	11800.00	Period of Completion	18 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	22/02/2021	Are Joint Venture (JV) firms allowed to bid	Yes
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule A-Execution of all works as per Schedule A (items as per SOR 2015-16 of State Govt. of Gujarat R&B Valsad Division)							17040558.63	Above/Below/Par
1	26117C	2.00	Each	32056.39	64112.78	(-) 9.06	58304.16	
	Description:- Clearing and grubbing site/road/land including uprooting all vegetation, grass, bush shrubs, saplings and trees with girth, removal of stumps of trees of girth of all sizes including removing stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable materials as directed by Engineer with all leads and lifts etc. complete as per specification. before commencement and after completion of the work.							
2	27007A	21098.00	Square Centimetre	318.15	6712328.70	(-) 9.06	6104191.72	
	Description:- 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 3.0m.							
3	27009	1069.00	cum	445.41	476143.29	(-) 9.06	433004.71	
	Description:- Excavated in large boulders and soft rock by welding including shoring, strutting and dewatering as necessary and disposing of the excavated stuff as directed.							

4	27004AA	5682.00	Sqm	792.85	4504973.70	(-) 9.06	4096823.08	
	Description:- Providing and laying filter media 600mm thick as directed at the back of abutments, returns, RE wall and wing walls as per detailed specifications.							
5	26161	686.00	Sqm	298.96	205086.56	AT Par	205086.56	
	Description:- Providing and laying Road marking with hot applied thermoplastic compound reflecting glass beads on bituminous surface. Providing and laying Hot applied thermoplastic compound 2.5 cm thick including reflectorizing glass beads 250 gms/sqmt area, thickness of surface applied glass beads as per IRC 35 the finished surface to be level uniform and free from streaks & holes. (As per Government letter no. SOR 102003/94/S-1, dated 20.07.2004)							
6	27050A	130.00	Numbers	53.93	7010.90	(-) 9.06	6375.71	
	Description:- Providing and laying weep holes in abutment, and returns by using AC pipe of 100 mm dia. including laying in proper grade and jointing the completed as per detailed specification.							
7	27072	1806340.00	cum	1.11	2005037.40	(-) 9.06	1823381.01	
	Description:- Providing and Fixing in position fully moulded restrained elastomeric bearings as per detailed drawings.							
8	27087	3.00	Sqm	733.26	2199.78	AT Par	2199.78	
	Description:- Providing Vertical Joints between retaining walls, abutments, etc. (providing Pre-moulded asphalt filler joints as per drawings 12mm)							
9	27098A	16.00	Numbers	506.10	8097.60	AT Par	8097.60	
	Description:- Providing, fabricating and fixing in position GI Drainage Spout arrangements having 100 mm dia. Pipe B class with necessary bend, fixing to GI chamber, GI grating, providing and applying one coat of primer & two coat of anticorrosive paint, etc. complete as per drawing and as per specifications.							
10	11012	6495.00	Kg	39.99	259735.05	AT Par	259735.05	
	Description:- J type M20 Anchor bolt as per drawing including threading as shown in the drawing for standard octagonal pole type BOP 7030 all complete							
11	11001A	49.00	Quintal	6026.67	295306.83	AT Par	295306.83	
	Description:- Structural Steel :- Base plate of 225 x 225 x 16 mm thick with adjustment of hole. MS plate 6mm thick 20mm wide 150mm long including welding to the base plate all complete							
12	14006	247.00	Sqm	474.70	117250.90	(-) 9.06	106627.97	
	Description:- Providing and laying chequered terrazzo tiles 22mm thick for RCC staircase with marble chips of size upto 6mm in floors on 25mm thick bed of lime mortar 1:1.5 (1-Limeputty: 1.5 coarse sand) or C.M 1:6 jointed with neat cement slurry mixed with pigments to match the shade of the tiles including rubbing & polishing complete (A) Light shades using white cement.							
13	NHSOR162	271.00	cum	67.67	18338.57	(-) 9.06	16677.10	
	Description:- Removal of existing asphaltic wearing coat comprising of 50mm thick asphaltic concrete laid over 12mm thick asphalt including disposal with all lift and lead							
14	27100A	120.00	Each	187.86	22543.20	(-) 9.06	20500.79	

	Description:- Providing PVC 100 mm diameter water spouts including necessary iron gratings as per drawings.							
15	NHSOR88	3035.00	Sqm	63.63	193117.05	AT Par	193117.05	
	Description:- Painting two coats after filling the surface with synthetic enamel paint in all shades on crash barrier concrete surfaces.							
16	26048	1.00	Each	841.33	841.33	AT Par	841.33	
	Description:- 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.)							
17	27101A	2.00	Numbers	955.46	1910.92	(-) 9.06	1737.79	
	Description:- Providing and fixing marble slab including engraving and painting complete.(A) size 75 cm x 60 cm x 4 cm							
18	27097A	1116.00	Metre	1073.63	1198171.08	(-) 9.06	1089616.78	
	Description:- Providing and fixing post and pipe railing as per detailed drawing including 3 coats of painting to steel works complete.							
19	26089EA	11.00	Metre	2097.77	23075.47	AT Par	23075.47	
	Description:- Supplying and fixing reinforced concrete heavy duty non-pressuree 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.							
20	27001B	143.00	cum	254.52	36396.36	(-) 9.06	33098.85	
	Description:- Dismantling the existing structure including removing and stacking the dismantled materials as and where directed. (B) Rubble Masonry/Brick Masonry							
21	23067	2290.00	Metre	531.26	1216585.40	AT Par	1216585.40	
	Description:- 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							
22	26101B	4.00	Numbers	5246.95	20987.80	AT Par	20987.80	
	Description:- Providing & Fixing Village name boards made out of 2mm. Aluminium sheet size 90 x 60 cms rectangle per the design of IRC - 67 - 2015 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 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							
	26103B	8.00	Numbers	6618.53	52948.24	(-) 9.06	48151.13	

23	Description:- 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 reflectorized with retro reflective sheeting as per latest M.O.S.T Specification, Letters and numerals should be as per IRC -30-2015, 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							
	26098B	2.00	Each	18047.69	36095.38	(-) 9.06	32825.14	
24	Description:- Providing and fixing Junction Board made out of 2mm aluminium sheet, size 244 x 122 cms rectangle, as per the design of IRC-67-2015. Pre treated with phosphating process and acid etching coated with one coat of epoxy primer and two coats of best quality epoxy paint, reflectorized with retro reflective sheeting as per the latest M.O.S.T. specification, Letters and numerals should be as per IRC-30-1968. 3.1 Mt. long (2 nos.) stand post and frame fabricated from suitable size iron angle of 50 x 50 x 5 mm, 75 x 75 x 6 mm; painted with best quality epoxy coating in black and white bends. The details of symbol or inscription/ numerals for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60 cms for each leg, including excavation curing etc. complete under the supervision of Engineer-In-Charge (B) High intensity Grade							
	26102B	12.00	Numbers	2935.06	35220.72	(-) 9.06	32029.72	
25	Description:- Hazard Marker Sign: Providing & Fixing sign boards made out of 2mm. Aluminium sheet size 90 x 30 cms rectangle per the design of IRC Pretreated 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 : 3.1 M long (2 no's) Stand post and frame fabricated from suitable size iron angle of 35 x 35 x 3mm & 50 x 50 x 5mm painted with best quality epoxy coatings 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. complete under the supervision of engineer in charge.(B) High intensity Grade							
	26092B	2.00	Numbers	3272.40	6544.80	AT Par	6544.80	
26	Description:- Providing and fixing cautionay warning sign board made of 2mm aluminium sheet size 90X90X90 cms. Equilateral traingle as per the design of IRC-67-2015 pretreated with phosphating process & acid catching with one coat of epoxy primer and two coats of best quality epoxy paint reflectional with retro reflective sheeting as per latest MOST specification 3.1 mt. long stand post and frame fabricated from suitable size iron angle of 35X35X3mm. 75X75X6mm as required .painted with best quality epoxy coating in black and white bends, the details of symbol for 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 45X45X60 cms for each leg including excavation curing etc. complete under the supervision of engineer in charge (high intensity grade).							
27	26008	5412.00	cum	66.05	357462.60	AT Par	357462.60	
	Description:- 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.							
	26163	605.00	Numbers	375.72	227310.60	AT Par	227310.60	
28	Description:- 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)							

	27039	105.00	Metre	3360.27	352828.35	(-) 9.06	320862.10	
29	Description:- 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.							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule B-Execution of all works as per Schedule B (NS items as per State Govt. of Gujarat)							169555271.95	Above/Below/Par
1	NS1	1.00	Lumpsum	13108.54	13108.54	AT Par	13108.54	
	Description:- Marking out the centre line of the Bridge and various other component structures and complete lining out and levelling with theodolite, levels, including constructing necessary masonry pillars for lines and levels and establishing necessary bench marks etc. complete as directed.							
2	NS2	2165.00	cum	243.41	526982.65	AT Par	526982.65	
	Description:- 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 (from borrow area within 5 km lead).							
3	NS3	1735.00	cum	4093.64	7102465.40	AT Par	7102465.40	
	Description:- Providing and casting in-situ controlled cement concrete of M35 grade for RCC work for Pile cap, foundation for pier, abutment, RCC Stair Case and retaining walls with 20/40mm down coarse aggregate of the required size for any depth including dewatering, scaffolding centring, shuttering, mixing, placing in position, consolidating with mechanical vibrators, curing, deshuttering carefully, making good the damages, fixing embedment, inserts, pockets, wherever necessary as per specification and drawing.							
4	NS4	1549.00	cum	2723.01	4217942.49	AT Par	4217942.49	
	Description:- Providing & filling in foundation with ordinary cement concrete M 15 mix and providing necessary vertical pin headers including formwork vibrating ramming & curing complete.							
5	NS5	2962.00	cum	4157.61	12314840.82	AT Par	12314840.82	
	Description:- Providing and casting in-situ controlled cement concrete of M35 grade for RCC work for pier & abutment return wall as per drawing including centring, shuttering, scaffolding where necessary currying vibrating curing and finishing complete A) height from 0 to 5m							
6	NS6	616.00	cum	4388.32	2703205.12	AT Par	2703205.12	
	Description:- Providing and casting in-situ controlled cement concrete of M35 grade for RCC work for pier & abutment return wall as per drawing including centring, shuttering, scaffolding where necessary currying vibrating curing and finishing complete. A) height above 5m							
7	NS7	886.00	cum	4212.14	3731956.04	AT Par	3731956.04	
	Description:- Providing and casting in situ controlled cement concrete M35 for RCC works on pier cap, abutment cap and dirt wall including controlled cement concrete or pedestals of required drawings, centering shuttering, scaffolding wherever necessary laying vibrating curing and finishing complete.							
8	NS8	488.00	cum	4312.82	2104656.16	AT Par	2104656.16	
	Description:- Providing and casting in situ controlled cement concrete M40 for RCC works for Pedestal, Seismic Arrester, Wearing Coat and Deck Slab including controlled cement concrete or pedestals of required drawings, centering shuttering, scaffolding wherever necessary laying vibrating curing and finishing complete .							
	NS9	2856.00	cum	4312.82	12317413.92	AT Par	12317413.92	

9	Description:- Providing and casting in situ controlled cement concrete M35 for R.C.C. work in superstructure including centering, shuttering scaffolding, ramming, vibrating curing and finishing complete.(A) T-Beam and Deck slab type of superstructure. (I) Deck slab (II) Main and cross girder						
10	NS10	37.00	cum	3204.00	118548.00	AT Par	118548.00
	Description:- Providing and casting in -situ controlled cement concrete of M 30 grade for Parapet with 20 mm down coarse aggregate of the required size including formwork, shuttering, placing in position, consolidation with mechanical vibrators curing finishing, deshuttering carefully, marking good the damages, fixing embedment, inserts, pockets, wherever necessary as directed and as per drawing with F3 type exposed concrete finish and formwork as directed by Engineer - in -charge, etc. complete as per specification.						
11	NS11	7865.00	Sqm	6140.34	48293774.10	AT Par	48293774.10
	Description:- Reinforced earth Retaining wall(Reinforced Earth Retaining Walls for have for main components as under: a)Excavation for foundation, Foundation concrete & cement concrete grooved seating in the foundation for facing elements (facia material) ,b)Facia material & its placement c)Assembling, joining with facing elements and laying of the reinforcing elements, d) earthfill with granular material which is to be retained by the wall. Facing elements of RCC						
12	NS12	37739.00	cum	726.74	27426440.86	AT Par	27426440.86
	Description:- Backfilling, grading and compaction with selected backfill soil in layers in soil reinforced works with peak internal angle of friction as per adopted design parameters complete as per drawings and technical specifications or as directed by engineer.						
13	NS13	239.00	Metre	846.01	202196.39	AT Par	202196.39
	Description:- providing and fixing 100 dia runner and downtake GI pipe to drain water from drainage spout with necessary fixtures including cost of all materials, labours, bends, fixtures, specials ec. Complete as per drawing and Sp. And as per direction of engineer.						
14	NS14	3860.00	cum	778.12	3003543.20	AT Par	3003543.20
	Description:- Construction of 300 mm thick Granular Coarse Sub Base (GSB) (Grade - I crushed B.T materials of 53mm to 9.5mm @ 50% 9.5mm to 2.36mm @ 20%, below 2.36mm @ 30%) by providing coarse graded material mixing in a mechanical mix plant at OMC, carriage of a mix material to work site spreading in uniform layers with motor grader on prepared surface, and compacting with vibratory rollers to achieve the desired density, complete as per MORTH specification.						
15	NS15	4825.00	cum	832.65	4017536.25	AT Par	4017536.25
	Description:- Providing and laying wet mix base course macadam(WMM) 300 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.as per MORT&H Specifications.						
16	NS16	3995.00	cum	4416.00	17641920.00	AT Par	17641920.00
	Description:- Providing & laying DENSE GRADED BITUMINOUS MACADAM with batch type Drum Mix Plant (DMP) using crushed aggregates of specified grading, premix with bitumen grade 60/70 , bituminous binder @ 5.0 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction complete, including providing & laying tack coat 2.5kg /10sqm all as per MORTH specification.						
17	NS17	1390.00	cum	4728.51	6572628.90	AT Par	6572628.90

17	<p>Description:- 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 VG 30 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 as per MORTH Specifications.</p>						
18	NS18	19299.00	Sqm	22.02	424963.98	AT Par	424963.98
	<p>Description:- 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.</p>						
19	NS19	20.00	cum	4144.08	82881.60	AT Par	82881.60
	<p>Description:- Providing and casting in situ controlled cement concrete concrete M-30 for approach slab including formwork curing and finishing complete.</p>						
20	NS20	1930.00	Sqm	189.81	366333.30	AT Par	366333.30
	<p>Description:- Providing and applying one coat of Epoxy phenolic primer of DFT 50 microns and two coats of Epoxy phenolic coating of DFT 100 microns each for RCC Element or any other equivalent epoxy coating system to all concrete surfaces exposed to atmosphere in substructure and superstructure including cost of material labour, transportation, scaffolding and preparing the surface by cleaning, washing, brushing, sand/grit blasting etc complete and as directed by engineer and as per specification. (Paint shall be approved from Engineer and tested from approved Laboratory) (Total DFT = 50+100+100 = 250 microns)</p>						
21	NS21	149.00	Metre	9410.88	1402221.12	AT Par	1402221.12
	<p>Description:- Providing and fixing in position Strip Seal Type Expansion Joint (for movement upto 60mm) as per detailed drawing MORTH specification. The rate is inclusive of supplying, fixing with contractor's own materials, equipments, machineries, labour, transport, testing, bolts, socket tubes, neoprene sheet/cap etc. complete. The rate is finished item complete and will be paid after fixing in all respect. The Contractor shall procure Strip Seal Expansion Joint, confirming to relevant MORTH specification from M/s.Sanfield (India) Ltd. /METCO or from reputed manufactures of Strip Seal Expansion Joint with prior approval of Engineer-incharge.</p>						
22	NS22	2.00	Numbers	3772.00	7544.00	AT Par	7544.00
	<p>Description:- Providing Pylon consist of cast-in-situ concrete of M30grade exposed finish as per drawing and as directed by engineer incharge. Rate includes providing required shuttering and form work but excluding stone slab & carving. (Reinforcement shall be paid in respective item.)</p>						
23	NS23	68.00	cum	3772.00	256496.00	AT Par	256496.00
	<p>Description:- Providing and casting in situ reinforced cement concrete M30 grade controlled cement concrete in RCC Chamber etc. using 6mm to 20mm machine crushed well graded stone aggregate, sand of approved quality, OPC 53 grade cement with contractor's own concrete mix design as approved by client etc complete as per specification The rate is inclusive of all materials, including necessary mixing in fully automatic batch mix plant, transportation, curing, vibrating, placing in position, shuttering, formwork, deshuttering carefully , making good the damages, fixing embedment, inserts, pockets, necessary, with all lead & lift with contractors labour, tools & plants machinaries, as required with F3 type exposed concrete finish and form mark.</p>						
24	NS24	1116.00	Metre	3612.61	4031672.76	AT Par	4031672.76
	<p>Description:- Reinforced Cement Concrete Crash Barrier (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) & Provide 150 mm dia. PVC pipe for utility services etc complete (A) Only crash barrier</p>						

25	NS25	1089.00	Metre	7617.43	8295381.27	AT Par	8295381.27	
	Description:- Reinforced Cement Concrete Crash Barrier (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) & Provide 150 mm dia. PVC pipe for utility services etc complete (A) crash barrier with Friction slab							
26	NS26	10231.00	Sqm	182.69	1869101.39	AT Par	1869101.39	
	Description:- PRIMER & PROTECTIVE COATING-providing and laying the external decoative waterproff & Protective coating system for concrete and masonary shall be MASTERSEAL 200H , a single component elastomeric crack bridging acrylic coating applied at an average thickness of 50 micro DFT in two coat the product shall be applied on ssuitability primed substate using MASTERSEAL 399 as primer . The product must be crack bridging elongation type with elongation at break , exceeding 200% & tensile strength exceeding 2 MPa The system shall exhibit exellant bond strength with the substrate at least exceeding 1.0 MPa , when tested as per ASTMD 4541.							
27	NS27	121.00	cum	4210.89	509517.69	AT Par	509517.69	
	Description:- Providing and laying controlled cement concrete M 35 for R.C.C bored piles of 1.20 M dia. Including ramming, vibrating and finishing, excluding T.M.T Reinforcement complete.							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule C-Execution of all works as per Schedule C (Items as per SOR 2015-16 of State Govt. of Gujarat R&B Valsad Division)							77701398.08	Above/Below/Par
1	27047A	368.00	MT	42446.26	15620223.68	12.86	17628984.45	
	Description:- Providing and placing in position High Yield Strength Deformed (HYSD) bars reinforcement (TMT Fe 500D grade) conforming to IS 1786 of all categories for Pile cap, foundation for pier/ abutment/ return wall including cutting, bending, hooking and tying with 18 gauge mild steel binding wires, supporting in position to ensure lines and levels during concreting, maintaining proper cover / spacing etc. complete as per specification and detailed drawing.							
2	2710927111	707.00	MT	45575.24	32221694.68	12.86	36365404.62	
	Description:- Providing and placing in position High Yield Strength Deformed (HYSD) bars reinforcement (TMT Fe 500D grade) conforming to IS 1786 of all categories for pier, abutment, pier cap, abutment cap, returns, pedestal, seismic arrester & retaining wall including cutting, bending, hooking and tying with 18 gauge mild steel binding wires, supporting in position to ensure lines and levels during concreting, maintaining proper cover / spacing etc. complete as per specification and detailed drawing.							
3	27121	405.00	MT	44990.45	18221132.25	12.86	20564369.86	
	Description:- Providing and placing in position High Yield Strength Deformed (HYSD) bars reinforcement (TMT Fe 500D grade) conforming to IS 1786 of all categories for superstructure including cutting, bending, hooking and tying with 18-gauge mild steel binding wires, supporting in position to ensure lines and levels during concreting, maintaining proper cover / spacing etc. complete as per specification and detailed drawing.							
4	27123	34.00	MT	44298.60	1506152.40	12.86	1699843.60	
	Description:- Providing and fixing in position steel bar reinforcement of steel grade Fe-500 (TMT) including cutting ,bending, hooking, tying, welding etc, complete as per detailed drawing and specification (A) R.C.C. Approach slab							
	NHSOR823B	50.17	Metre	3503.69	175780.13	12.86	198385.45	

5	Description:- Providing and erecting a "Thrie" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 85 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 2 m high with 1.15 m below ground level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a space of channel section 150 x 75 x 5 mm, 546 mm long complete as per clause 810							
6	27020A	5.00	MT	44690.48	223452.40	6.89	238848.27	
	Description:- Providing and installing 6 mm MS liner for bored-cast-in-situ concrete piles including applying protective coating as per drawing and specification and as directed by Engineer.							
7	27043C	20.00	MT	44549.08	890981.60	12.86	1005561.83	
	Description:- Providing and placing in position High Yield Strength Deformed (HYSD) bars reinforcement (TMT Fe 500D grade) conforming to IS 1786 of all categories for Pile including cutting, bending, hooking and tying with 18 gauge mild steel binding wires, supporting in position to ensure lines and levels during concreting, maintaining proper cover / spacing etc. complete as per specification and detailed drawing.							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule D-Execution of all works as per Schedule D (NS items as per Western Railway)							63591573.64	Above/Below/Par
1	NS1	501.00	MT	98897.53	49547662.53	AT Par	49547662.53	
	Description:- Supply & Fabrication of steel girder spans including its components (Stiffeners, Bracings, Splices, Studs etc.) as per the approved drawings for composite construction of superstructure of the Road Over Bridge with contractor's own Steel confirming to IS: 2062 Grade 250/350(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. (The Structural Steel to be used Should be manufactured by SAIL/RINL/TISCO /ESSAR/JINDAL Only.) Work has to be done as per drawings and specifications approved by Railway. High quality superior brand of paint should only be used. For Painting, prior approval for superior brand / make of the paint should be taken from engineer in charge. Note:1. The fabrication of girders must be got done from RDSO approved firms only. 2. The rate is inclusive of assembly of girder with service bolts as per approved drawing in shop for checking by Engineer's representative and dismantling the same after checking for transportation to the site. 3. Weight of HSFG bolts, Rivets, Welds shall not be considered for payment. Nominal weight of the girder spans including its components (Stiffeners, Bracings, Splices, Studs etc.) as per drawing will only be considered for payment.							
2	NS2	6300.00	Sqm	682.79	4301577.00	AT Par	4301577.00	
	Description:- Metalizing girder/girder components such as cross girders, top chord channels, bracing etc. of Steel Girder as directed by Engineer with aluminium spray not less than two layers after preparing surface by sand/grit blasting as per provision laid in Appendix VI of IRS B 1179 code (latest alteration) including one coat wash primer (IS-5666) one coat zinc chrome primer (IS-104) and two coats of aluminium paint (IS-2339) with approved paint conforming to IS specification for fabrication & erection of steel girder bridge (RS B 1-79) as corrected up to date with contractor's own materials, tools, plants labour, loading/unloading, transportation, handling, re-handling if any including all lead, lifts, crossing of track/ obstruction etc. complete in all respect and as per direction of Engineer.							
	NS3	228.00	MT	18924.10	4314694.80	AT Par	4314694.80	

3	<p>Description:- 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 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. Launching of Steel girder spans 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.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.</p>						
4	NS4	19.00	MT	79040.07	1501761.33	AT Par	1501761.33
	<p>Description:- Fabricating, supplying and erecting in position standard structural steel sections manufactured from IS approved manufacturers only ,conforming to IS :2062 - 1992 (including latest amendments) including welding with approved quality welding rods, supply and fixing of correct size turn bolts including one primer coat of red lead paint conforming to IS:102 or Zinc chromate paint conforming to IS:104 followed by two coats of Aluminium paint as per IS : 2339 with all contractor's materials, labour, tools and plants etc in bolted/welded construction as directed by Engineer in charge. Work shall be carried out as per IS:800-1984 (with latest amendments), IRS specification No. B3-61 part 2 and IS 816 for welding.</p>						
5	NS5A	12.00	Numbers	60227.69	722732.28	AT Par	722732.28
	<p>Description:- Providing and fixing POT -PTFE bearing as per IRC 83 in position true to line and level including cost of all materials fixtures surface for receiving bearing, grouting of sleeves with non-shrink high strength grout, load testing of bearing, transporting and fixing in position including all lead and lift etc. complete as per approved designs and drawing and as directed by Engineer.Fixed bearing (Capacity up to 250 MTNote: The rate is for finished item complete and paid only after fixing in position below the girder.</p>						
6	NS6	1.00	Each	288304.70	288304.70	AT Par	288304.70
	<p>Description:- Load testing of one composite steel /Span Designing and Load testing of one composite girder/ Span as selected by the Engineer confirming to Rly. Standard's with loads to be applied and removed incrementally etc. complete as per special condition and specification of contract, as per relevant IS/IRC codes with all contactors labour supervisor, T & P's all taxes, equipment, leading materials instruction of load test jacks etc., dial gauges, including all lead and lift.</p>						
7	NS7	8.00	Each	1349.21	10793.68	AT Par	10793.68
	<p>Description:- 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</p>						
	NS3B	273.00	MT	3577.88	976761.24	AT Par	976761.24

03	<p>Description:- 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 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. Launching of Steel girder spans 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.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.</p>							
05	NS5B	32.00	Each	60227.69	1927286.08	AT Par	1927286.08	
	<p>Description:- Providing and fixing POT -PTFE bearing as per IRC 83 in position true to line and level including cost of all materials fixtures surface for receiving bearing, grouting of sleeves with non-shrink high strength grout, load testing of bearing, transporting and fixing in position including all lead and lift etc. complete as per approved designs and drawing and as directed by Engineer.Sliding bearing (Capacity up to 250 MT)Note: The rate is for finished item complete and paid only after fixing in position below the girder.</p>							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule E-Execution of all works as per Schedule E (NS items as per Western Railway)							1408638.95	Above/Below/Par
1	NS1	109916.00	Square Centimetre	0.40	43966.40	(-) 8.36	40290.81	
	<p>Description:- AutoCAD Drawings: Preparation / Alternation and submission of drawings such as general arrangement drawings, phase drawings, scheme plan, structural drawings etc. On Auto Cad as per details and directions given by the Engineer in charge including plotting and submitting in standard inkjet film of 50 micron and CD, submitting check prints on A3/A2/A0 size papers and final print complete and as per instructions of Engineer in charge.</p>							
2	NS2	1.00	Lumpsum	500000.00	500000.00	(-) 8.36	458200.00	
	<p>Description:- 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.</p>							
3	NS3	329.00	Sqm	1179.80	388154.20	(-) 8.36	355704.51	
	<p>Description:- 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.</p>							

4	NS4	4.00	Each	2997.00	11988.00	(-) 8.36	10985.80	
	Description:- Making and supplying of check rails of 52 kg/ 60 kg rails of various lengths for level crossing as per approval drawings.							
5	NS5	1789.00	Metre	331.49	593035.61	(-) 8.36	543457.83	
	Description:- 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.							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule F-Execution of all works as per Schedule F (USSOR items as per Western Railway)							2216942.72	Above/Below/Par
1	201051	39.00	Metre	10959.03	427402.17	AT Par	427402.17	
	Description:- Providing and fixing in position of standard performed Sealed and slab Type or strip steel elastomeric type Expansion Joint (80mm expansion) for railway bridges or Road over Bridges as per approved detailed drawing and latest MORTH/IRC69 specification. The rate is inclusive of supplying, fixing with contractor's own materials,e.g. inserts, bolts, socket tubes, neroplane, sheet/cap etc. equipments, machineries, labour, all taxes, royalty all lead and lift transport, testing, surface preparation complete.							
2	2011192103	1.00	Each	197745.38	197745.38	AT Par	197745.38	
	Description:- Conducting load testing of a single pile up to following capacity in accordance with IS 2911 (Part IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc with all labour material, tool & plant , equipment, machinery etc complete as per drawing and specification as directed by the Engineer.Initial load test above 100 ton capacity up to 250 ton capacity.							
3	2011192104	30.00	Each	43817.59	1314527.70	AT Par	1314527.70	
	Description:- Conducting load testing of a single pile up to following capacity in accordance with IS 2911 (Part IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc with all labour material, tool & plant , equipment, machinery etc complete as per drawing and specification as directed by the Engineer.Extra for every increase of 50 T in pile capacity or part thereof over 250T							
4	192107	1.00	Each	277267.47	277267.47	AT Par	277267.47	
	Description:- Routine load test above 100 ton capacity up to 250 ton capacity pile.							

3. ITEM BREAKUP

No item break up added

4. ELIGIBILITY CONDITIONS

Important All documents uploaded and remarks / confirmation entered by the bidders against any eligibility condition shall be opened as part of technical bid only

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document	No	No	Allowed (Mandatory)

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document	No	No	Allowed (Mandatory)

5. COMPLIANCE

Important All documents uploaded and remarks / confirmation entered by the bidders against any compliance condition shall be opened as part of technical bid only.

Check Lst

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender document	No	No	Not Allowed

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

6. Documents attached with tender

S.No.	Document Name	Document Description
1	TechnicalBidfor104dtd04.02.2021_F.pdf	Technical Bid for 104
2	NITforROB104.pdf	NIT for 104
3	FinancialBidfor104_1.pdf	Financial Bid for 104
4	ApproachportionGADfor104.pdf	GAD FOR APPROACH PORTION
5	ANNEXURE_I_Bidder_104.pdf	Annexure I Bidder 104
6	Formno2Afor104.pdf	Form no 2A
7	Formno2Bfor104.pdf	Form No 2B
8	RailwayportionGAD_ROB_104_C.pdf	GAD FOR RAILWAY PORTION

Signed By: JAGDISH VIJAY RATHOD

Designation : DYPM