

## RAJKOT MUNICIPAL CORPORATION

e - Tender No. RMC/ENGG/EZ/25- 26 /

**Name of Work: - “Construction of Bridge on Kothariya Main Road  
near Ranuja Temple in ward no 18” (Re-Tender)**



Milestone dates for e-tendering is as under		
1. Downloading of e-Tender documents	25-6-26	To 18-7-26 upto 17.00 Hrs.
2. Pre-bid Meeting	06-7-26	at 16.00 Hrs.
3. Online submission of e – Tender	18-7-26	upto 18.00 Hrs.
4. Physical submission of EMD, Tender fee and other documents required as per Financial and Experience criteria.	Before 23-7-26 and 18.00 Hours	
5. Opening of online technical bid	24-7-26	at 11.00 Hours onwards
6 .Verification of submitted (EMD, documents e -Tender fee, etc.)	24-7-26	at 11.00 Hours onwards
7. Opening of Price Bid (If possible)	27-7-26	at 11.00 Hours onwards
8. Bid Validity	180 Days	
For further details, pre-qualification criteria etc. Visit	<a href="http://www.tender.nprocure.com">www.tender.nprocure.com</a>	

**SCHEDULE-B**  
**RECAPITULATION SHEET**

<b>NAME OF WORK: "Construction of Bridge on Kothariya Main Road near Ranuja Temple in ward no 18"</b>	
<b>DESCRIPTION</b>	<b>AMOUNT</b>
Sub Estimate - 1 - Reconstruction of Bridge + Approach Portion	12,0540,666.37
Sub Estimate - 2 - Diversion Estimate	19,642,012.30
Total Construction Cost in Rs.	14,0182,678.67
Add 18 % GST on Construction Cost in Rs.	25,232,882.16
Total	16,54,15,560.83

I/We am/are willing to carry out the above said work at **TO BE QUOTED ONLINE ONLY** At par / above / below \_\_\_\_%to the amount put to tender.(Should be quoted in figures and words below/above the estimated rates mentioned above.)

Amount of my/ours

Tender works out as under:

Notes:

- 1) %above/below/At Paris to be submitted online only.
- 2) All work shall be carried out as per the specifications-MoRTH, BIS and manual or as directed)
- 3) Rates quoted include cleaning of site (prior to commencement of work and at its close) in all respects and hold for work under all conditions, site moisture, weather, etc.

Signature of Contractor with Seal

Signature of City Engineer -  
Special

Addl/Asst. Engineer

Dy.Ex.Engineer

CITY ENGINEER-  
Special (I/C)

R.M.C.

R.M.C.

R.M.C.

Sr No	Item of work	Quantity	Unit	Estimated Rate		Total Amount in Rs
				In Figures	In Words	
1	Clearing and grubbing road land including uprooting trunk vegetation, grass bushes, shrubs, saplings and tree 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.	1.00	Ha.	28173.36	Rupees TwentyEight Thousand One Hundred SeventyThree Paise ThirtySix Only	28173.36
2	Marking out the center line of the Bridge and various other component structures and complete lining out and leveling with theodolite, levels, including constructing necessary masonry pillars for lines and levels and establishing necessary bench marks etc. complete as directed.	1.00	L.S	50000.00	Rupees Fifty Thousand Only	50000.00
3	Shifting of Telephone /Electric poles and Lines (Removal of telephone/Electric poles including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and up to any lead and stacking the serviceable and unserviceable material included)	25.00	Nos.	190.28	Rupees One Hundred Ninety Paise TwentyEight Only	4757.00
4	Dismantling the existing structure including removing and stacking the dismantled materials as and where directed. (A) R.C.C. work	976.00	Cum.	965.01	Rupees Nine Hundred SixtyFive Paise One Only	941849.76

5	Providing and installation of barricading with retro-reflective paint /film /tapes as specified in the drawing @ 3m high & specifications on rental basis only for the construction of bridge, along with necessary diversion arrangement for existing traffic movement in an unobstructed condition, all relevant markings, sign boards and illumination as per relevant MORT&H specification. Rate to be inclusive of all materials, fabrication works, paint works, foundation works, transportation, loading, unloading, installation, removing & relocating and inclusive of all taxes and including the same design for providing openable gates. No extra rental will be given to the contractor in case of any delays from his part for construction or due to any valid time limit extensions. Each barricading sheet is to be numbered with a unique number. The contractor may reuse the same sheet for barricading else where with in the project boundaries, however in such case, he will not been titled for separate rent for reuse. After the completion of project, the owner ship of barricading will remain with the contractor. Blinkers are to be installed on the barricading . Barricading is to be cleaned by means of washing with water on a weekly basis or a sand when required as per the instructions of Engineer in charge.	1344.00	Sqm.	1338.00	Rupees One Thousand Three Hundred ThirtyEight Only	1798272.00
6	Excavation of Foundation in Soft Rock from 0.0 mtr. to 1.50 mtr depth including dewatering with lifting and laying in RMC limit as instructed.	6384.10	Cum.	299.00	Rupees Two Hundred NinetyNine Only	1908845.90
7	Excavation of Foundation in Hard Rock with Breaker / Blasting / Gann from 1.51 mtr. to 3.0 mtr depth including dewatering with lifting and laying in RMC limit as instructed.	2238.00	Cum.	725.00	Rupees Seven Hundred TwentyFive Only	1622550.00

8	Providing and filling PCC in foundation with Ordinary Cement Concrete M15 grade and providing necessary pin headers including formwork, vibrating, ramming, compaction, leveling, curing, etc. complete.	699.00	Cum.	4626.00	Rupees Four Thousand Six Hundred TwentySix Only	3233574.00
9	Providing and Casting In-Situ controlled cement concrete of M35 grade for RCC work for Box Culvert Base Slab with 20 mm 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.	2450.30	Cum.	6100.00	Rupees Six Thousand One Hundred Only	14946830.00
10	Providing and Casting In-Situ controlled cement concrete of M35 grade for RCC work for Box Culvert Walls with 20 mm 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.	2213.40	Cum.	6900.00	Rupees Six Thousand Nine Hundred Only	15272460.00
11	Providing and Casting In-Situ controlled cement concrete of M35 grade for RCC work for Box Culvert Top Slab with 20 mm 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.	474.90	Cum.	6700.00	Rupees Six Thousand Seven Hundred Only	3181830.00
12	Providing and Casting In-Situ controlled cement concrete M-300 for Kerb/ kerb blocks including formwork curing and finishing, complete	13.40	Cum.	5035.00	Rupees Five Thousand ThirtyFive Only	67469.00
13	Providing and placing in position FE 550D TMT bar reinforcement for following items including cutting bending hooking and tying complete as per detailed	242.65	MT	73127.42	Rupees SeventyThree Thousand One Hundred TwentySeven	17744368.47

	drawing.For :- RCC Raft for Box Culvert, Retaining wall and U type Wall				Paise FourtyTwo Only	
14	Providing and laying in position FE 550D TMT bar reinforcement including cutting, bending, hooking and tying complete as per detailed drawings for the following.(A) Box Walls (B) Retaining wall stem.	219.98	MT	73127.42	Rupees SeventyThree Thousand One Hundred TwentySeven Paise FourtyTwo Only	16086789.24
15	Providing and placing in position FE 550D TMT bar reinforcement including cutting, bending, hooking, and tying complete as per detailed drawing. (A) Top Slab of Box Culvert.	57.36	MT	72517.84	Rupees SeventyTwo Thousand Five Hundred Seventeen Paise EightyFour Only	4159333.24
16	Providing and fixing in position FE 550D TMT bar reinforcement including cutting, bending and tying complete as per detailed drawings. (A) R.C.C. Kerb. (B) R.C.C. Approach slab. (C) R.C.C. Crashbarrier.	33.79	MT	72517.84	Rupees SeventyTwo Thousand Five Hundred Seventeen Paise EightyFour Only	2450232.78
17	Supply & Fixing of 80mm M-30 Grade cement concrete rubber mold paving inter locking paving block (Grey colour) after beding of Bhogavo sand in line and CC on the edge in proportion of 1:2:4 with curing etc. complete.	620.10	Sqm.	581.00	Rupees Five Hundred EightyOne Only	360278.10
18	Providing & laying weep hole in External walls and Retaining walls by using AC/UPVC/HDP pipe of 100mm including laying in proper grede and jointing the completed as per detailed specification.	2451.00	Nos.	89.93	Rupees EightyNine Paise NinetyThree Only	220418.43
19	Providing and filling sand behind Box Culvert and between Retaining Wall/Tow Wall in layers as directed	25291.80	Cum.	523.22	Rupees Five Hundred TwentyThree Paise TwentyTwo Only	13233175.60

20	Providing and laying - Filter Media 600mm thick directed at the back of External walls and Retaining walls as per detailed specifications.	2451.00	Sqm.	1285.52	Rupees One Thousand Two Hundred EightyFive Paise FiftyTwo Only	3150809.52
21	Providing and casting in situ controlled cement concrete M-40 for Crash Barriers including formwork curing and finishing, complete	178.70	Cum.	5192.00	Rupees Five Thousand One Hundred NinetyTwo Only	927810.40
22	Providing P.V.C. 100 mm diameter water spouts including necessary iron gratings as per drawings.	8.00	Nos.	157.79	Rupees One Hundred FiftySeven Paise SeventyNine Only	1262.32
23	Providing and casting in situ controlled cement concrete concrete M-30 for approach slab including formwork curing and finishing complete.	59.40	Cum.	6500.00	Rupees Six Thousand Five Hundred Only	386100.00
24	Providing and laying boulders apron on river bed for protection against scour with stone boulders weighing not less than 40 kg each complete as per drawing and Technical specification.	5.70	Cum.	1119.00	Rupees One Thousand One Hundred Nineteen Only	6378.30
25	Providing and Casting in situ controlled Cement Concrete M-200 for toe walls including necessary shuttering laying, vibrating, ramming and curing complete.	41.30	Cum.	4521.54	Rupees Four Thousand Five Hundred TwentyOne Paise FiftyFour Only	186739.61
26	Providing Fusion Bonded Epoxy Coating not less than 175 micron thickness and up to 300 micron to reinforcement bars as per IS-13620-1993/ASTM-775 M including testing of coating at plant and all taxes (A) 10mm to 16 mm dia bar	72.80	MT	10062.00	Rupees Ten Thousand SixtyTwo Only	732513.60

27	Providing Fusion Bonded Epoxy Coating not less than 175 micron thickness and up to 300 micron to reinforcement bars as per IS-13620-1993/ASTM-775 M including testing of coating at plant and all taxes (A) 20mm to 32 mm dia bar	169.90	MT	7224.00	Rupees Seven Thousand Two Hundred TwentyFour Only	1227357.60
28	Material and Labour for applying two or more coats of 100 % Premium Acrylic emulsion paint having VOC less than 50 gm/litre and UV resistance as per IS:15489:2004, Alkali & Fungal resistance, Dirt Resistance Exterior Paint oof required shade (Company Depot Tinted) with Silicon Additives @ 1.43 litre / Sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm over new surfaces.	1663.60	Sqm.	197.00	Rupees One Hundred NinetySeven Only	327729.20
29	Providing & applying Synthetic Enamel paint alternate black & yellow on crash barrier, median and Kerb with one coat of primer and two or more coat of paint as per manufacture's specification including cleaning all dust, dirt and other foreign matters with all material labour equipment's with all leads & lift etc complete.	6.70	Sqm.	137.00	Rupees One Hundred ThirtySeven Only	917.90
30	Premould Asphalt Filler Joint - 20 mm Thick	768.40	Sqm.	612.80	Rupees Six Hundred Twelve Paise Eighty Only	470875.52
31	Providing and fixing marble slab including transporting ,engraving and painting all complete. (ii) Size 60cm x 60cm x 40mm	2.00	Each	867.26	Rupees Eight Hundred SixtySeven Paise TwentySix Only	1734.52
32	Acoustic Barrier H 2.0 M, 3.00 M c/c composed of : No.1 Acoustic Panels in Aluminium, powder coated,thk. 1.2 mm, 2950 x 500 x 100mm with noise absorbing 50mm thick, 90 kg/Cu.m density water repellant rockwool slabs. No.1 Post UC 152 or equivalent, height	606.10	Sqm.	5350.00	Rupees Five Thousand Three Hundred Fifty Only	3242635.00



	2000 mm with welded Base Plate 220 x 300 x 16 thk duly hot dip galvanised. No. 04 Anchor bolts as required.					
33	Supply & Fixing of MS Black Sheet on angle frame with angle pole and required painting etc. complete.	2500.00	Kg	140.00	Rupees One Hundred Fourty Only	350000.00
34	Iron work as per drawing and instruction including all	8000.00	Kg	109.00	Rupees One Hundred Nine Only	872000.00
35	Earthwork for embankment including breaking clods, dressing with all lead and lift and including watering rolling and consolidation of subgrade in layers at O.M.C. to required dry density including filling the depression which occur during the process using power roller 8T to 10T.(E) From Borrow area within 3.0KM. lead 100mm extra taken for stage construction.	1997.10	Cum.	175.58	Rupees One Hundred SeventyFive Paise FiftyEight Only	350650.82
36	Construction of granular sub-base by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 (Plant Mix)	971.80	Cum.	1353.00	Rupees One Thousand Three Hundred FiftyThree Only	1314845.40
37	Wet Mix Macadam laying Using Mechanical Paver (Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in	914.60	Cum.	1421.00	Rupees One Thousand Four Hundred TwentyOne Only	1299646.60

	uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.)					
38	Prime coat (Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.70 kg/sqm using mechanical means.)	3658.30	Sq.m.	68.00	Rupees SixtyEight Only	248764.40
39	Tack Coat on Cement concrete pavement (Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.30 to 0.35 kg per sqm on the prepared bituminous surface cleaned with mechanical broom.)	4085.50	Sq.m.	18.00	Rupees Eighteen Only	73539.00
40	Providing and laying dense graded bituminous macadam with higher capacity batch type HMP using crushed aggregates of specified grading, premixed with bituminous binder @ 6.0 percentage by weight of total mix and filler, trnsporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achive the desired compaction as per MORTH specification clause no. 505 complete in all respect. (Grading - I, VG-40)	464.62	Cum.	11019.00	Rupees Eleven Thousand Nineteen Only	5119647.78
41	Bituminous Concrete (Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant /DMP60-90 TPH capacity/80-100 TPH Capacity using crushed aggregates of specified grading, premixed with bituminous binder @6.0 percent of 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 as per MoRTH Specification specification clause No.509 complete in all respects) (for Grading-I, VG -40)	163.42	Cum.	10732.00	Rupees Ten Thousand Seven Hundred ThirtyTwo Only	1753823.44

42	Cat Eye / Road Stud / RPM: Supplying Raised Pavement Markers made of polycarbonate and ABS moulded body and reflective panels with Micro prismatic lens (No Glass bead lens) capable of providing total internal reflection of the light entering the lens face and shall support a load of 13635 kgs. tested in accordance to ASTM D 4280 Type H and complying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 & DO III Dt 11.06. 1997. The height, width and length shall not exceed 20 mm, 130 mm and 130 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 +/- 5 degree. The body of the marker should having finger grip for easy and accurate placement and application with epoxy / bituminous Adhesive as recommended by the manufacturer of the marker. The color of the marker should be as per the IRC 35-2015 and as directed by Engineer-in-charge.	341.00	Nos.	215.25	Rupees Two Hundred Fifteen Paise TwentyFive Only	73400.25
43	Providing and laying of Hot applied Thermoplastic compound 2.5 mm thick including Reflectorising Glass Beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC : 35 & finished surface to be level, uniform and free from streaks and holes. (As per Government letter No.SOR 102003/94/S-1/ Dated.20-7-2004)	170.23	Sqm	364.08	Rupees Three Hundred SixtyFour Paise Eight Only	61976.13

44	<p>Cautionary Warning Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 90 x 90 x 90 cms. equilateral triangle as per design of IRC-67-2012. Pre treated with phospheting process &amp; acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.6mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer &amp; a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting</p>	8.00	Nos.	5027.00	Rupees Five Thousand TwentySeven Only	40216.00
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45	Regulatory / Mandatory Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 900 cms Dia Circle as per 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 Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.6mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	4.00	Nos.	4573.00	Rupees Four Thousand Five Hundred SeventyThree Only	18292.00
46	Supply of Swiss Type Bollard made out of 1.25 mm thick M.S. sheet, total height 135 cm, the lower portion is made in tapered circular section having upper dia 15 cm and lower dia 20 cm with attachment of one mandatory plate 7 mm thick & fixed with the help of 7 cm long, 30mm dia chrome plated M.S. tube this part is fixed on the body with another attachment of a cap 30x7 cm. whole body is processed in black stoving enamel and mandatory plate in Azure blue, with one compulsory keep left arrow with 10mm border reflective strip each of 7.5 cm on body complete in all respect.	4.00	Nos.	4200.00	Rupees Four Thousand Two Hundred Only	16800.00

47	Providing and filling PCC Below Kerb with ordinary cement concrete M15 grade and providing necessary pin headers including formwork,vibrating,ramming,compaction,leveling,curing,etc.complete. (Below Kerb)	83.9631	Cum.	3562.710	Rupees Three Thousand Five Hundred SixtyTwo Paise SeventyOne Only	299136.18
48	Direction (Junction) Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 244x122 cms. rectangular as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 4.0mtr long (2 Nos.) stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	5.00	Nos.	26309.00	Rupees TwentySix Thousand Three Hundred Nine Only	131545.00

49	Hazard Marker Sign :-Providing and fixing sign boards madeout of 2.0 mm aluminium sheet / 4 mm ACP (Aluminum composite Panel); size 90x30 cms. rectangular as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 1.8mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting.	4.00	Nos.	3630.00	Rupees Three Thousand Six Hundred Thirty Only	14520.00
50	Drainage manhole should be done according to design given with ratio are at the bottom it should be C C 1:3:6 with brick mansony 1:4 cum plaster 1:3 cm coping 1:1:2 and also benching around it with 1:2:4 should be done with finishing, curing, manhole frame cover and also with PVC step. (excluding excavation or supply of frame cover) Type ---A--- : Round : Up to 1.50 m depth * inside dia. 1200 mm ( for drainage lines from 150 mm to 500 mm dia.) (Menhole type - A up to 1.00 meter depth)	7.00	Nos.	8084.00	Rupees Eight Thousand EightyFour Only	56588.00

51	Drainage manhole should be done according to design given with ratio are at the bottom it should be C C 1:3:6 with brick mansonry 1:4 cum plaster 1:3 cm coping 1:1:2 and also benching around it with 1:2:4 should be done with finishing, curing, manhole frame cover and also with PVC step. (excluding excavation or supply of frame cover) Type --- B --- :Round : for 1.50 to 4.00 m. depth and inside dia. 1500 mm ( for drainage lines from 150 mm to 600 mm dia.) ( up to 1.50 meter depth)	7.00	Nos.	16003.00	Rupees Sixteen Thousand Three Only	112021.00
52	Drainage manhole should be done according to design given with ratio are at the bottom it should be C C 1:3:6 with brick mansonry 1:4 cum plaster 1:3 cm coping 1:1:2 and also benching around it with 1:2:4 should be done with finishing, curing, manhole frame cover and also with PVC step. (excluding excavation or supply of frame cover) Type --- C --- : Round : for 4.00 to 6.00 m. depth and inside dia. 1500 mm ( for drainage lines from 150 mm to 1800 mm dia.) ( up to 4.00 meter depth)	7.00	Nos.	51312.00	Rupees FiftyOne Thousand Three Hundred Twelve Only	359184.00
					<b>TOTAL (A)</b>	<b>120540666.37</b>

#### B. DIVERSION PORTION

1	Clearing and grubbing road land including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300 mm, removal of stumps of such trees cut earlier and disposal of unserviceable materials and stacking of serviceable material	0.30	Hectre	28173.36	Rupees TwentyEight Thousand One Hundred SeventyThree Paise ThirtySix Only	8452.01
2	Earthwork for embankment including breaking clods, dressing with all lead and lift and including watering rolling and consolidation of subgrade in layers at O.M.C. to required dry density including filling the depression which occur during the process using power roller 8T to 10T.(E) From Borrow area within 3.0KM. lead 100mm extra taken for stage construction	8452.08	Cum.	175.58	Rupees One Hundred SeventyFive Paise FiftyEight Only	1484016.21



3	Excavation for foundation in sand, gravel, clay soft soils and murrum etc. including shoring, strutting dewatering as necessary and disposing of the excavated stuff as directed.(A) Depth upto 3.0 M. and lead upto 100m for 10 Cuml	96.77	Cum.	343.00	Rupees Three Hundred FortyThree Only	33191.42
4	Providing and filling PCC in foundation with ordinary cement concrete M15 grade and providing necessary pin headers including formwork, vibrating, ramming, compaction, leveling, curing, etc. complete.	215.74	Cum.	4626.00	Rupees Four Thousand Six Hundred TwentySix Only	998031.74
5	Providing and Casting in situ controlled Cement Concrete M-200 for R.C.C. Head Wall including necessary shuttering laying, vibrating, ramming and curing complete.	259.38	Cum.	4571.51	Rupees Four Thousand Five Hundred SeventyOne Paise FiftyOne Only	1185758.26
6	Providing and laying in position FE 550D TMT bar reinforcement including cutting, bending, hooking and tying complete as per detailed drawings for the following. (A) Head Wall Temperature Steel	19.45	MT	94050.00	Rupees NinetyFour Thousand Fifty Only	1829601.68
7	Construction of granular sub-base by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 (Plant Mix)	750.00	Cum.	1353.00	Rupees One Thousand Three Hundred FiftyThree Only	1014750.00
8	Wet Mix Macadam laying Using Mechanical Paver (Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.)	687.50	Cum.	1421.00	Rupees One Thousand Four Hundred TwentyOne Only	976937.50

9	Prime coat (Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.70 kg/sqm using mechanical means.)	2750.00	Sqm	68.00	Rupees SixtyEight Only	187000.00
10	Tack Coat on Cement concrete pavement (Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.30 to 0.35 kg per sqm on the prepared bituminous surface cleaned with mechanical broom.)	2750.00	Sqm.	18.00	Rupees Eighteen Only	49500.00
11	Providing and laying dense graded bituminous macadam with higher capacity batch type HMP using crushed aggregates of specified grading, premixed with bituminous binder @ 6.0 percentage by weight of total mix and filler, trnsporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achive the desired compaction as per MORTH specification clause no. 505 complete in all respect. (Grading - I, VG-40)	165.00	Cum.	11019.00	Rupees Eleven Thousand Nineteen Only	1818135.00
12	Bituminous Concrete (Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant /DMP60-90 TPH capacity/80-100 TPH Capacity using crushed aggregates of specified grading, premixed with bituminous binder @6.0% percent of 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 as per MoRTH Specification specification clause No.509 complete in all respects) (for Grading-I, VG -40)	110.00	Cum.	10732.00	Rupees Ten Thousand Seven Hundred ThirtyTwo Only	1180520.00
13	Providing and laying of Hot applied Thermoplastic compound 2.5 mm thick including Reflectorising Glass Beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC : 35 & finished surface to be level, uniform and free from	166.67	Sqm	364.08	Rupees Three Hundred SixtyFour Paise Eight Only	60680.00

	streaks and holes. (As per Government letter No.SOR 102003/94/S-1/ Dated.20-7-2004)					
14	PCC Bedding	39.60	Cum.	4626.00	Rupees Four Thousand Six Hundred TwentySix Only	183189.60
15	Supplying and fixing reinforced concrete heavy duty nonpressure pipes with collars for culverts including setting and joining the pipes in C.M. 1:2 watering and laying (To level of slops of I.S. 458 / 1971 Class NP4 casted by vertically vibrated technology of following internal diameter. 900mm dia.	894.00	Rmt.	6555.70	Rupees Six Thousand Five Hundred FiftyFive Paise Seventy Only	5860795.80
16	Cat Eye / Road Stud / RPM: Supplying Raised Pavement Markers made of polycarbonate and ABS moulded body and reflective panels with Micro prismatic lens (No Glass bead lens) capable of providing total internal reflection of the light entering the lens face and shall support a load of 13635 kgs. tested in accordance to ASTM D 4280 Type H and complying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 & DO III Dt 11.06. 1997. The height, width and length shall not exceed 20 mm, 130 mm and 130 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 +/- 5 degree. The body of the marker should having finger grip for easy and accurate placement and application with epoxy / bituminous Adhesive as recommended by the manufacturer of the marker. The color of the marker should be as per the IRC 35-2015 and as directed by Engineer-in-charge.	222.22	Nos.	215.25	Rupees Two Hundred Fifteen Paise TwentyFive Only	47833.33

17	<p>Cautionary Warning Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 90 x 90 x 90 cms. equilateral triangle as per design of IRC-67-2012. Pre treated with phospheting process &amp; acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.6mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer &amp; a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting</p>	8.00	Nos.	5027.00	Rupees Five Thousand TwentySeven Only	40216.00
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18	<p>Chevron sign :-Providing and fixing sign boards made out of 1.5mm aluminium sheet / 3mm ACP (Aluminum composite Panel); size 60x50 cm as per design of IRC-67-2012. Pre treated with phospheting process &amp; acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.3 mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; painted with bestquality epoxy coatings 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 blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from originaa manufacturer &amp; a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting</p>	4.00	Nos.	4635.00	Rupees Four Thousand Six Hundred ThirtyFive Only	18540.00
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19	<p>Hazard Marker Sign :-Providing and fixing sign boards made out of .2.0 mm aluminium sheet / 4 mm ACP (Aluminum composite Panel); size 90x30 cms. rectangular as per design of IRC-67-2012. Pre treated with phospheting process &amp; acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 1.8mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer &amp; a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting</p>	4.00	Nos.	3630.00	Rupees Three Thousand Six Hundred Thirty Only	14520.00
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20	Regulatory / Mandatory Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 900 cms Dia Circle as per 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 Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.6mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	2.00	Nos.	4573.00	Rupees Four Thousand Five Hundred SeventyThree Only	9146.00
21	Excavation of Foundation in Soft Rock from 1.51 mtr. to 3.0 mtr depth including dewatering with lifting and laying in RMC limit as instructed. For 3 ManHole	238.14	Cum.	343.00	Rupees Three Hundred FourtyThree Only	81682.02
22	Providing and filling PCC in foundation with Ordinary Cement Concrete M15 grade and providing necessary pin headers including formwork, vibrating, ramming, compaction, leveling, curing, etc. complete.	17.86	Cum.	4626.00	Rupees Four Thousand Six Hundred TwentySix Only	82622.67

23	Providing and Casting In-Situ controlled cement concrete of M35 grade for RCC work for ManHole Base Slab with 20 mm 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.	54.00	Cum.	6100.00	Rupees Six Thousand One Hundred Only	329400.00
24	Providing and Casting In-Situ controlled cement concrete of M35 grade for RCC work for ManHole Walls with 20 mm 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.	75.00	Cum.	6900.00	Rupees Six Thousand Nine Hundred Only	517500.00
25	Providing and Casting In-Situ controlled cement concrete of M35 grade for RCC work for ManHole Top Slab with 20 mm 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.	54.00	Cum.	6700.00	Rupees Six Thousand Seven Hundred Only	361800.00
26	Providing and placing in position FE 550D TMT bar reinforcement for following items including cutting bending hooking and tying complete as per detailed drawing.For :- RCC Raft for ManHole	5.13	MT.	73127.42	Rupees SeventyThree Thousand One Hundred TwentySeven Paise FourtyTwo Only	375143.66



27	Providing and laying in position FE 550D TMT bar reinforcement including cutting, bending, hooking and tying complete as per detailed drawings for the following. (A) ManHole Walls	7.13	MT.	73127.42	Rupees SeventyThree Thousand One Hundred TwentySeven Paise FourtyTwo Only	521032.87
28	Providing and placing in position FE 550D TMT bar reinforcement including cutting, bending, hooking, and tying complete as per detailed drawing. (A) Top Slab of ManHole	5.13	MT.	72517.84	Rupees SeventyTwo Thousand Five Hundred Seventeen Paise EightyFour Only	372016.52
					<b>TOTAL (B)</b>	<b>19642012.3</b>
					<b>TOTAL (A+B)</b>	<b>14,01,82,679/-</b>

**I/We agree to carry out the above said work at \_ (to be quoted online) % Equal / above / below on the tendered rates shown in Schedule.**

**Signature of Contractor with Seal**