

Name of Work :- Strengthening of Tarsada-Kadod-Bardoli-Sarbhon-Navsari road Ch. 33/10 to 75/00 (W.S. Ch. 53/00 to 59/00 & 64/60 to 68/00) Dist.Surat. (CRIF-2025-26)

BILL OF QUANTITIES

(A) Percentage Rate Tender (Up to INR 50 Cr.)

Items No	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate In figures	Amount
1	2	3	4	5	6
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	1.86	Hec.	28455.09	52926.47
2	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.	30.00	Rmt.	3904.47	117134.10
3	Removing of existing bituminous layers up to required width and depth by using Cold milling machine including hauling and stock piling excavated material as and where directed etc. complete.	2749.50	Sqm	766.69	2108014.16
4	Providing and laying 50 mm thick compacted B. M. with B.T. aggregate as per MORT&H specification using Emulsion grade RS-1 for coat at 2.5 Kg./10Sq.mt. with mechanical sprayer and bitumen grade VG-40 for mixing at the rate 34.0Kg/M.T. i.e. 3.4 % of total mix including heating the aggregate and asphalt by Batch mix plant and spreading the same by sensor paver finisher and consolidation with vibratory roller including providing all materials, equipments, tools and plants, oil, kerosene, fire wood, labour charges etc. complete.	906.40	MT	3951.12	3581295.17
5	Mastic Asphalt (Providing and laying 25 mm thick mastic asphalt wearing course with paving grade bitumen meeting the requirements given in table 500-39, prepared by using mastic cooker and laid to required level and slope after cleaning the surface applied tack coat before glass grid and after glass grid, including providing antiskid surface with bitumen precoated fine-grained hard stone chipping of 13.2 mm nominal size at the rate of 0.005cum per 10 sqm and at an approximate spacing of 10 cm center to center in both directions, pressed into surface when the temperature of surfaces not less than 1000C, protruding 1 mm to 4 mm over mastic surface, all complete as per clause 516.)	8240.00	Sqm	870.62	7173908.80
6	Asphalt Interlayer Composite (AIC): Providing and laying CE Marked Glassfibre Asphalt Interlayer Composite (AIC 100) indigenously manufactured by Techfab India or equivalent, made from high performance glass fibre roving to form a reticular structural material with a unique combination of fused fibre glass and polypropylene non-woven needle punched geotextile to asphalt overlay flexible pavements and asphalt overlay distressed rigid pavements for Reinforcement, seizure reflective cracks, reduced surface rutting & water infiltration. (Specification: MoRTH section-700) with prior approval of concerned Superintending Engineer.	8240.00	Sqm	215.13	1772671.20

Items No	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate In figures	Amount
1	2	3	4	5	6
7	Providing and laying 50 mm thick Dense graded bituminous macadam with tack coat at 2.50 Kg/10 Sq.mt. of Emulsion RS-I by mechanical sprayer and using stone chips as per MORT&H gradation and asphalt VG-40 grade @ 4.50% (As per mix design) by total weight of mix for binder by Batch mix plant and spreading the same by sensor paver finisher and consolidation by vibratory roller including providing and operating required Batch mix plant & machinery cost of fuel, asphalt, oil, lubricant & labour charges etc. complete.	9828.20	MT	4813.66	47309613.21
8	Providing and laying 30 mm thick compacted Bituminuous Concrete using stone chips as per MORT&H gradation & VG-40 grade asphalt for mixing @ 5.50% (As per mix design) by weight of total mix for binder including heating the aggregate and asphalt by Batch mix plant and spreading the same by sensor paver finisher and consolidation with vibratory roller including providing all materials, equipments, tools and plants, oil, kerosene, fire wood, labour charges etc. complete.	6219.00	MT	5422.69	33723709.11
9	Providing and laying quarry spall of approved quality including spreading, watering consolidation with vibratory roller including loading and unloading etc. complete.	1118.00	Cum	524.19	586044.42
10	Road marking with hot applied thermoplastic paints with reflectorising glass beads on bitumin surface providing and laying a hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250gms per sqm area, thickness of 2.5mm is excluding of surface applied glass beds as per IRC:35-2015. The finished surface to be level, uniform and free from streaks and holes. zebra patta /bump patta lane/center line/ edge line/cut patta. The white color marking should provide luminance coefficient on cement road shall be min 130 mcd/m2/lux and Asphalt road shall be min 100 mcd/m2/lux during the service life during the day time. The marking should meet the performance criteria for night time reflectivity, wet reflectivity and skid resistance as mentioned in the section-15 of IRC 35-2015. Warranty for the Retro reflectivity should be two years.	3361.00	Sqm	367.72	1235906.92
11	Supply and Apply Rumble Strips Road marking with hot applied thermoplastic paints with reflectorising glass beads on bitumin surface providing and laying a hot applied thermoplastic compound 8 mm thick including reflectorising glass beads @ 250gms per sqm area, thickness of 8mm is excluding of surface applied glass beds as per IRC:35-2015. The finished surface to be level, uniform and free from streaks and holes.	396.00	Sqm	1772.55	701929.80
12	Cat Eye / Road Stud / RPM: Supplying of Molded Twin Shanks Raised Pavement Markers made of polycarbonate and ABS moulded body and reflective panels with micro prismatic 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 strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 +/- 2 mm and height not less than 30 +/- 2 mm) from the body is to be a minimum value of 500 Kgf. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturers recommendation and The color of the marker should be as per the IRC 35-2015 and as directed by Engineerin- charge.	4186.00	Nos.	326.23	1365598.78

Items No	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate In figures	Amount
1	2	3	4	5	6
13	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.	10.00	Nos.	26572.09	265720.90
14	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 & 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.	54.00	Nos.	5077.27	274172.58

Items No	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate In figures	Amount
1	2	3	4	5	6
15	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 & 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.	26.00	Nos.	3666.30	95323.80
16	Village Name Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 90x60 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; 3.3mtr 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 or inscription/letters / 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 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.	6.00	Nos.	6313.51	37881.06

Items No	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate In figures	Amount
1	2	3	4	5	6
17	Facility Informatory Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 80 x 60 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; 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.	14.00	No.	5906.48	82690.72
18	Regulatory / Mandatory Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 60 cms Dia Circle 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; 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	No.	4618.73	18474.92

Items No	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate In figures	Amount
1	2	3	4	5	6
19	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 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; 3.3 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 & 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.	26.00	No.	4681.35	121715.10
20	Providing and fixing ordinary kilometer 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 painting and lettering etc. complete.	9.00	Nos.	704.33	6338.97
21	Providing and fixing hectometer as per I.R.C. type design including painting lettering etc. complete fixing in C.C. 1:5:10.	38.00	Nos.	356.50	13547.00
Total					100644617.18

(Rupees Ten Crore Six lakh Forty Four Thousand Six Hundred Seventeen and Eighteen Paise Only.)

I/We am/are willing to carry out the work at% above/below (percent should be written in figures and words) of the estimated rates mentioned above. Amount of my/our tender works out as under.

*Estimated amount

Put to tender Rs...100644617.1824
Deduct % below Rs.....
Net Rs.
In words

*(please strike out whichever is not applicable)

*Estimated amount

Put to tender 100,644,617.18
Add % Above Rs.....
Total Rs.
In words

Note 1:- The Contractor shall exhibit a board with detailed specification and details of work as directed by the Engineer-In-Charge for which no extra payment shall be made.

Note 2 :- The labour cess will be deducted as per prevailing rules ie. 1% of the work done.

Note 3 :- GST and Income tax TDS will be deducted at a source while making payments of bills.

Note 4 :- In all R.C.C. Items in Rate Analysis Standard Cement Consumption has been taken as per Govt. G.R.: PRC-10/2017 Cement Consumption/16/C, Date:11/05/2017 as stated in S.O.R. therefore in R.C.C. items where there is a change as per actual mix design the cost of difference of cement consumption have been deducted from the rate of original item at the rate of input rate mentioned in all the tender

Note 5 :- To be continued on additional sheet,if found necessary.

Signature of Bidder

**Deputy Executive Engineer
Bardoli (R&B) Sub Division,
Bardoli.**

**Executive Engineer
Surat (R&B) Division No.2,
Surat.**