

Name of Work:- Resurfacing of Various Roads in Olpad Taluka PKG:-
4/OLP/MMGSY/Resurfacing/Road Furniture/2-RD/2026-27.Total 2 Road[1]Resurfacing of Sayan-Gothan-Bharthana Road Km 0/0 to 1/2, Ta.Olpad, Dist. Surat (Road Furniture Work)[2]Resurfacing of Pariya Halpativas Road Km 0/0 to 0/8, Ta.Olpad, Dist. Surat (Road Furniture Work)

Bill of Quantities

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

Memorandum showing items of work to be carried out

It. No.	Item of work	Quantity	Unit	Rate In Figures	Total Amount according to estimated quantities
1	2	3	4	5	6
1	Cautionary Warning Sign for Bump/Curve :-Providing and fixing sing boards made out of 2mm aluminium sheet; size 60 x 60 x 60 cms. equilateral triangle as per design of IRC-67-1977. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with retro reflectivesheeting as per latest M.O.S.T.Specifications; 3.1m long stand postand frame fabricated from suitable sizeiron angle of 35 x 35 x 3mm, 75 x 75 x 6mm as required; painted with bestquality epoxy coatings in black andwhite 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) Engineer Grade.	22.00	No.	1692.76	37240.72
2	Hazard Marker Sign :-Providing and fixing sing boards made out of 2mm aluminium sheet; size 90 x 30cms. rectangle as as per the design/drawing attached (IRC) pretreated with phospheting 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. Specifications; 3.1m long stand post and frame fabriated 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 45x45x 60cms. for each leg. including excavation curing etc. complete under the supervision of engineer in charge.(A) Engineer Grade(VR)...	6.00	No.	2423.74	14542.44

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3	STOP/SPEED SIGN:-Providing and fixing sing boards made out of 2mm aluminium sheet;shall be octagonal in shape of 75 cm x 75 cm and shall have red background and white border. The word "STOP" written in white (in English or local language) with125 mm height letters, centrally positioned. The height of the octagon and border shall as per the design of IRC: 67-2012 pre treated with phospheting process & acid teching; 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. Specifications; 3.1m long stand post and frame fabricated from suitable size iron angle of 35 x 35 x 3mm 75x75x6mm as required; painted with best quality epoxy coatings in black and white bends. the details of symbol for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60cms. for each leg. including excavation curing tec. complete under the supervision of engineer in charge.(A) Engineer Grade.	4.00	No.	3247.35	12989.40
4	Regulatory/Mandotary Sign-Providing & Fixing Sign Board made out of 2 mm alluminium sheet,size 60 cms, Diameter Circle as per design of IRC-67-2012 pre treated with phospheting process & Acid teching,coated with one coat of epoxy primerand two coats of best quality epoxy paint,reflectorised with retro feffective sheeting as per latest M.O.S.T. Specification,3.1 m long stand post and frame fabricated from suitable size iron angle of 35X35X3 mm 75X75X6 mm sas reuired painted with best quality epoxy coating in black and white bend,The detailes of symbol for each board shall be as per the instyruction 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 (A) Engineer Grade.....	6.00	No.	3439.81	20638.86

It. No.	Item of work	Quantity	Unit	Rate In Figures	Total Amount according to estimated quantities
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5	Chevron Sign :-Providing and fixing sing boards made out of 1.5mm aluminium sheet/3mm ACP (Aluminium composite panel) size 60 x 50cms rectangular as per the design IRC-67-2012. pretreated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint; reflectorised with High intensity prismatic grade retro reflective sheeting of Type-4 as per ASTM D-4956 And latest M.O.S.T Specifications; 3.3m long stand post of iron angle 75x75x6mm/ NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm ; painted with best quality epoxy coatings in black and white bends. the details of symbol or inspection / numerals for each board shall be as per instruction of engineer incharge. the fixing at site shall be in 1:2:4 CC block of size 45x45x 60cms. for each leg. including excavation curing etc. complete under the supervision of engineer in charge.A warranty for 7 years for the retro reflectivesheeting from original manufacturer & a Certified copy of 3 year outdoor exposure test report from third party test lab for product offered shall be submitted by contractor. (A) class-B Type-4 Retro Reflective sheeting.	35.00	No.	3711.75	129911.25
6	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 Engineer-in-charge.	379.00	No.	326.23	123641.17

It. No.	Item of work	Quantity	Unit	Rate In Figures	Total Amount according to estimated quantities
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7	Road marking with hot applied thermoplastic paint with reflectorising glass beads on bitumen surface providing and laying a hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is excluding of surface applied glass beads 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 colour 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 the section 15 of IRC 35-2015 warranty for retroreflectivity shall be two years.	716.20	Sqmt	367.72	263361.06
8	Type-B THRIE : Metal Beam Crash Barrier Providing and directing a "Thrie" beam metal 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, 150x75x5mm spaced 2 m centre to centre, 2 m high with 1.15 m below ground level. The vertical post fixing at site shall be in M15 grade cement concrete of size 35 x 35 x 120 cms. for each post including excavation curing etc.completed. All steel parts and fitments to be galvanized by hot dip process all fittings to confirm to IS 1367 and IS 1364 metal beam rail to be fixed on the vertical post with a spacer of channel section 150x75x5 mm, 550 mm long completed as per Morth specification clause 810 including butt welding to all nuts & bolts & including 3 mm ACM type reflector 100 mm wide & 4.5 m long, type 4 class B high intensity Grade sheeting as per IRC 67:2012 etc. completed as per instruction of Engineer in charge. Also radium red yellow color strip of size 100x300 mm shall be fixed on vertical front side of post for better night visibility. The spacer post, thrie beam rail shall be cold roll formed & galvanized with 550 gm/sq.mtr.	157.00	RMT	4865.00	763805.00
					1366129.900
					1366129.900

Rupees Thirteen Lakh SixtySix Thousand One Hundred TwentyNine Paise Ninety Only

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

*Estimated Amount put to Tender

Deduction % below.....

Total Rs.

In words.

.....

*Estimated Amount put to Tender

Add % above Rs.

Total Rs.

In words

.....

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Note:-

- 1 The Contractor shall exhibit board with detailed specification and details of work as directed by Engineer-In-Charge for which no Extra payment shall be made.
- 2 The labour cess will be deducted as per prevailing rules i.e. 1% of the work done.
- 3 GST and Income tax TDS will be deducted at a source while making payments of bills
- 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.
- 5 Credit value of amount **Rs.** **0.00** will be Deducted from 1st R.A.

Deputy Executive Engineer
Panchayat (R & B) Sub Division
Olpad.

Executive Engineer
Panchayat (R & B) Division
Surat

Signature of the contractor