

Name of work:

MMGSY 2025-26 (96-5054-04-796-02 Sr.No.12)

Construction Of Varoli Talat Bhavanpada Kishan Vajvadiya Maholla Main

Road To Bhavanpada School Towards Road (NP) km 0/0 To 1/000 Tal.

Kaprada. Dist. Valsad

SCHEDULE - B

Memorandum showing items of works to be carried out

It. No.	Quantities estimated but may be more or		Item of work	Estimated	Unit	Total Amount according to
				In figures		
1	2		3	Rs. Ps.	6	7
1	0.30	Hect.	Clearing and grubbing road land including uprooting rank vegetation, grass bushes, shrubs, saplings and trees girth up to 300 mm removal of stumps of trees cut earlier and disposal of unserviceable materials.(D) By mechanical means in area of thorny jungle.	34796.29	Hect.	10438.89
2	919.00	Cu.mt.	Earth work in cutting in all coats of soil and soft murrum including conveying and putting the stuff in spoil bank maintaining minimum distance of five meter between top edge of cutting and top of spoil bank.	104.04	Cu.mt.	95612.76
3	37.50	Rmt	Supplying and fixing reinforced concrete heavy duty non-pressure 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 daimeters.(iii) 600mm dia.	1952.00	Rmt	73200.00

1	2		3		6	7
4	2046.32	Cu.mt.	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	169.44	Cu.mt.	346728.46
5	120.00	Cu.mt.	Supplying, Stacking and Spreading the Hard Murrum including rolling and watering etc. Complete.	706.70	Cu.mt.	84804.00
6	364.00	cu.mt.	Construction of granular sub-base by providing coarse graded material grading-II, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401.B	531.16	cu.mt.	193342.24
7	366.20	Cu.mt.	Construction of Granular Sub Base by providing coarse graded machine crushed B. T. material satisfying MOST Specification of Grading - I using 53 mm to 26.5 mm @ 30% (M.C. Metal), 26.5 mm to 4.75 mm @ 60% (M.C.Metal), 2.36 mm below @ 10% (Stone Dust) including spreading in uniform layer with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC and compacting with vibratory roller to achieve the desired density with C.B.R. > 30% etc. complete.	577.24	Cu.mt.	211385.29
8	638.00	Cu.mt.	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.	653.59	Cu.mt.	416990.42
9	3953.00	Sq.mt.	Providing and applying evenly Priming coat with emulsion asphalt at the rate of 7.50 Kg/ 10 Sq.m on road surface using emulsion SS-1 (Himcol Made) pressure spreayer etc. complete including the cost of asphalt	43.04	Sq.mt.	170137.12

1	2		3		6	7
10	295.10	M.Ton	Providing and laying bituminous base course 37.5mm thick compacted in one layer with tack coat of asphalt Emulsion RS-1 at the rate of 2.5 Kg / 10 Sqmt. and using B.T. stone aggregate or required gradation and asphalt (VG-30) grade for mixing @ 1.99 % by weight of total mix for mixing including heating the aggregate and asphalt by drum mix plant and spreading the same by paver finisher and consolidation with vibratory roller including providing all materials, equipments, tools and plants, oil, kerosene, fire wood, labour chrges etc. complete.	2083.34	M.Ton	614793.63
11	206.50	M.Ton	Providing laying & rolling of 25 mm thick Open graded Premix bituminous carpet with B.T. aggregate as specified and using RS1 Emulsion for tack coat at the rate of 2.5 kg/10 sq.mt. and using bitumen grade VG-30 for Mixing with aggregate at the rate of 3.36 % i.e. 33.60 kg / M.T. of total mix including heating and mixing in drum mix plant transporting and spreading the same with paver finisher and consolidation with vibratory roller including necessary fire wood , oil , lubricant , labour charges etc. using contractor's own drum mix plant and equipment ,tool etc .complete in accordance with the requirement of specification.	2809.61	M.Ton	580184.47
12	106.20	M.Ton	Providing and laying seal coat with B.T. aggregate as specified using aggregate at the rate of 0.18 Cu.mt./10 Sq. mt. and bitumen grade VG-30 for mixing with aggregate at the rate of 4.5 % i.e. 45.00 Kg. / M.T. of total mix including heating and mixing in drum mix plant and transporting and spreading the same by paver finisher and consolidation with vibratory roller including necessary fire wood , oil , lubricant , labour charges using contractor's own drum mix plant, machineries and equipment tools etc. complete in accordance with the requirement of specification	3101.57	M.Ton	329386.73
13	3934.00	Sq.mt.	Providing and laying asphalt painting on B.T. surface with bitumen VG-30 at rate 5.00Kg / 10Sq.mt. including spreading stone dust for painting surface at rate of 0.03 cu.mt. / 10 sq.mt.	31.88	Sq.mt.	125415.92
14	2.00	No.	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 lettering and painting etc. complete. (For OD.R. & V.R.)	704.33	No.	1408.66

1	2		3		6	7
15	4.00	No.	Providing and fixing Hectometer stone as per I.R.C. type design including lettering and painting etc. complete. (ii) Fixing in C.C. 1:5:10	356.50	No.	1426.00
16	1.00	No.	Informatory signs: Providing and fixing sign boards made out of 2mm aluminium sheet; size 80 x 60cms. rectangle as per the design of IRC-67-1977 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. 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 etc. complete under the supervision of engineer in charge.(A) Engineer Grade(VR)..	3856.90	No.	3856.90
17	1.00	No.	MMGSY Logo Board:- Providing and fixing MMGSY Logo Board made out of 2mm aluminium sheet, as per the drawing & design. Pre treated with phosphating process and acid etching coated with one coat of epoxy primer and two coat of best quality epoxy paint, reflectorized with retro reflective sheeting as per the latest M.O.S.T. specification, 3.1 Mt. long stand post and frame fabricated from suitable size iron angle of 35 x 35 x 3 mm, 75 x 75 x 6 mm 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 60 cms for each leg, including excavation curing etc. complete under the supervision of Engineer-In-Charge (A)Engineering grade.	4545.00	No.	4545.00

1	2		3		6	7
18	1.00	No.	Village name/ Bump Ahead sign :-Providing and fixing sing boards made out of 2mm aluminium sheet; size 90 x 60cms. rectangle as as per the 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 reflective sheeting as per latest M.O.S.T. Specifications; Letters and numerals should be as per IRC-30-1968, 3.1m long (2 nos) stand post and frame fabricated from suitable size iron angle of 50 x 50 x 5mm painted with best quality 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 block of size 45 x 45 x 60cms. for each leg. including excavation curing etc. complete under the supervision of engineer in charge.(A) Engineer Grade(VR)...	5045.36	No.	5045.36
19	211.10	Sq.mt.	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 excludingof 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 liminance coefficinet on cemend road shalll be min 130 mcd/m2/lux and Asphalt road shall be min 100 mcd/m2/lux during the service lifeduring 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.	367.72	Sq.mt.	77625.69

1	2		3		6	7
20	349.00	No	<p>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 20mm, 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</p>	217.40	No	75872.60
21	4.00	Nos	<p>Cautionary Warning sign :- Providing and fixing Cautionary Sign Board made out of 2mm aluminium sheet, size 90 x 90 x 90 cms equilateral triangle, as per the design of IRC-67-1977. Pre treated with phospheting 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, 3.1 Mt. long stand post and frame fabricated from suitable size iron angle of 35 x 35 x 3 mm, 75 x 75 x 6 mm; painted with best quality epoxy coating in black and white bends. The details of symbol for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60 cms for each leg, including excavation curing etc. complete under the supervision of Engineer-In-Charge (A) Engineering grade.</p>	3808.66	Nos	15234.64

1	2		3		6	7
22	8.00	Nos	Chevron sign :-Providing and fixing sign boards made out of 1.5mm aluminium sheet / 3mm ACP (Aluminum composite Panel); size 60x50cm rectangular 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 High Intensity Prismatic Grade retro reflectivesheeting of Type-4 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.3 mtr long stand post of Iron Angle 75 x75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of35x35x3mm; 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 7 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year	3711.75	Nos	29694.00
23	8.00	Nos	Regulatory/Mandatory signs :Providing and fixing sing boards made out of 2mm aluminium sheet; size 60cms. diameter circle as per the design of IRC-67-1977 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. 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 etc. complete under the supervision of engineer in charge.(A) Engineering grade.	3439.81	Nos	27518.48

1	2		3		6	7
24	6.00	No	<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 phosphating 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 reflectivesheeting of Type-4 as per ASTM D-4956 and latest M.O.S.T.Specifications; 1.8mtr long stand post of Iron Angle 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 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 7 years for the Retro reflective sheeting from original manufacturer & a certified</p>	3518.69	No	21112.14
25	8.00	Nos	<p>STOP SIGN:-Providing and fixing sing boards made out of 2mm aluminium sheet; size 90 x 90cms. rectangle as per the design of IRC-67-1977 pre treated with phosphating 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) Engineering grade.</p>	4676.06	Nos	37408.48

1	2		3		6	7
26	60.00	No	Providing and fixing post and pipe railing as per detailed drawing uncluding 3 coats of painting to steel works complete.	1205.11	No	72306.60
27	258.60	Cu.Mt	Excavation for foundation up to 1.5m depth including sorting out and stacking of useful material and disposing off the excavated stuff as directed by Engineer in charge with all lead and lift in (2) Dense or hard Soil.	248.16	Cu.Mt	64174.18
28	33.70	Cu.Mt	Providing & filling in foundation with ordinary cement concrete M 100 mix and providing necessary vertical pin headers including formwork vibrating ramming & curing complete.	3240.34	Cu.Mt	109199.46
29	383.30	Cu.Mt	Providing & filling in foundation with ordinary cement concrete M 150 mix and providing necessary vertical pin headers including formwork vibrating ramming & curing complete.	3610.39	Cu.Mt	1383862.49
30	22.50	Rmt	Supplying fixing & joining reinforced concret heavy duty non pressure pipe carrying indian railway standard with collars for culverts carring heavy traffic as per Indian railway standard specification including setting and joining the pipe in cement mortar 1:2 watering or laying (to level and slope)of I.S.class NP-3 900mm dia	3446.50	Rmt	77546.25
31	30.00	No.	Providing and fixing Guard stone as per I.R.C. type design including white washing etc. complete (II) Fixing in C.C. 1:5:10	349.11	No.	10473.30
32	3.00	No.	Providing and fixing 20cm x 15cm x 2.5cm thick year plate of marble stone set in C.M. 1:4 including Finishing and engraving letters, etc. complete	279.69	No.	839.07
33	112.26	Sq.mt.	White washing with lime on wall surface (two coats) to give an even shade including thoroughly booming the surface to remove all dirt, dust, mortar drops and other foreign matter.	12.41	Sq.mt.	1393.15
34	187.00	Sq.mt.	Providing and laying - Fitter Media 600mm thick directed at the back of abutments, returns and wing walls as per detailed specifications	1248.74	Sq.mt.	233514.38
35	2.46	M.T.	Providing and fixing in position ISI mark TMT (Fe-500) bar for temperature reinforcement for mass concrete pier/abutment returns including cutting bending and tying as required complete	73217.53	M.T.	180115.12
36	187.00	No	Providing weep holes in abutment, returns using 100 mm. dia A.C. pipe with C.I. grating including cutting, placing the pipe in required slope and position as directed etc. complete. (As per detailed specification)	84.95	No	15885.65

1	2	3	4	5	6	7
37	126.00	Cu.Mt.	Earth work for embankment including breaking clods dressing with all lead & lifts and including watering rolling and consolidation of sub grade in layers of O.M.C. to required dry density including filling in depressions which occur during the process using vibratory roller 80 to 100 KN (E) From borrow area within 3.00 Km Lead Having C.B.R. More than 5.00%	152.51	Cu.Mt.	
						19216.26
						5721693.78

Rs. Fifty Seven Lack Twenty One Thousand Six Hundred Ninety Three and Paise Seventy Eight Only.

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

*Estimated amount put to tender	Rs. _____	*Estimated amount put to tender	Rs. _____
Deduct ____ % below	Rs. _____	Add ____ % above	Rs. _____
Net	Rs. _____	Total	Rs. _____
In words _____		In words _____	

*(Please strike out which ever is not applicable)

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 i.e. 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.

Signature of Bidder

Executive Engineer
Panchayat (R&B) Division
Valsad