

Name Of Work :- Construction of Slab Drain on Mahisagar River near Mujpur Naran Tekari Road at Mujpur Village (V.R.) Ta. :- Padra Dist. :- Vadodara Under MMGSY(2025-26)

Taluka :Padra District : Vadodara

- 1 Construction of Slab Drain on Mahisagar River near Mujpur Naran Tekari Road at Mujpur Village (V.R.) Ta. :- Padra Dist. :- Vadodara**

Bill of Quantities

Item No	Item of work	Quantities Estimated	Unit	Rate in Figures in Rs.	Amount
1	2	3	4	5	6
1	Clearing and grubbing road land including uprooting rank vegetation grass bushes, shrubs, sapling and trees 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	0.08	Ha	28455.09	2276.41
2	Providing, laying and Spreading 150 mm Granular sub-base (Grade-I) by providing close graded M.C.B.T. material in single layer with motor grader on prepared surface, mixing by mix in place method with rotovator at OMC and compacted with vibratory roller 80 to 110 KN static weight to achieve desired density etc completed.	101.00	Cum	1373.60	138733.60
3	Providing and laying compacted WBM of Grading-I MCBT metal of size 63 mm to 45 mm in required layers including using 16% stone screening 13.2 mm size and 8% stone dust as filler including spreading watering & consolidation by vibratory roller etc. as per MoRTH Specification complete as directed by Engineer - in - Charge.	15.00	Cum	1928.09	28921.35
4	Providing and laying compacted WBM of Grading-II MCBT metal of size 53 to 22.4 mm in required layers including using 24% stone screening 11.2 mm size and 8% stone dust as filler including spreading watering & consolidation by vibratory roller etc. as per MoRTH Specification complete as directed by Engineer - in - Charge.	27.00	Cum	1969.50	53176.50
5	Providing and laying Compacted of Specified quarry Spall in side shoulder including carriage of material and spreading on prepared base including compacting as per MOST Specification etc... complete.	10.00	Cum	1125.14	11251.40
6	Earthwork in cutting in all sorts of soil and soft murrum including conveying and putting the stuff in spoil bank maintaining minimum distance of five meter between top edge and cutting and toe of spoil bank.	50.00	Cum	130.94	6547.00
7	Earthwork for embankment including breaking clods, dressing with all lead and lift and including watering rolling and consolidation of subgrade in layers at	966.16	Cum	162.58	157078.29
8	Rolling and watering of earthwork in layers with power roller including filling in depressions which occur during the process.	115.88	Cum	22.73	2633.95
9	Providing & Casting in situ ordinary cement concrete M-250 mix with Trimix C.C Road laid as directed including tamping, vibrating, finishing, curing and filling in joints with bitumen etc as per Engineer Incharge.	54.00	Cum	5057.07	273081.78
10	Citizen's information Board Providing and fixing of typical KPY information board as per instruction. Two MS plates of 1.6 mm thick, of 900 mm x 750 mm size fixed at top and bottom duly welded with MS angles of 25 x 25 x 5 mm thick M.S. plate shall be welded by welded by two vertical M.S. flats & four horizontal M.S. flats 5 mm thick to 75 mm x 75 mm of 12 SWG square tubes posts duly embedded in cement concrete M-15 grade block of 600 mm x 600 mm x 75 mm, below ground level. Painting New letters & figure of any shade with ready mixed synthetic enamel paint of superior quality in required shade and colour, All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paints as per drawings clause 1701 and Annexure 17001 (10.16)	1.00	Nos.	22997.70	22997.70

Item No	Item of work	Quantities Estimated	Unit	Rate in Figures in Rs.	Amount
1	2	3	4	5	6
11	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/m ² /lux and Asphalt road shall be min 100 mcd/m ² /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 section-15 of IRC 35-2015. Warranty for the Retro reflectivity should be two years.	40.23	Sq.mt	367.72	14793.38
12	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 reflective sheeting 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 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35x35x3mm; painted with best quality epoxy coatings in black and white bands. 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. A warranty for 7 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-B Type-4 Retro Reflective sheeting	6.00	Nos.	3711.75	22270.50
13	Hazard Marker Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet; size 90 x 30cms. rectangle as per the design/drawing attached (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. Specifications; 3.1m long 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 45x45x 60cms. for each leg. including excavation curing etc. complete under the supervision of engineer in charge.(A) Engineer Grade(VR)...	4.00	Nos.	2423.74	9694.96
14	Cautionary Warning Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet; size 90 x 90 x 90 cms. equilateral triangle as per 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, 75 x 75 x 6mm as required; painted with best quality epoxy coatings in black and white bands. 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) Engineer Grade(VR)	10.00	Nos.	3808.66	38086.60

Item No	Item of work	Quantities Estimated	Unit	Rate in Figures in Rs.	Amount
1	2	3	4	5	6
15	Cat Eye / Road Stud / RPM: Supplying of 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 colour of the marker should be as per the IRC 35-2015 and as directed by Engineer-in-charge.	30.00	Nos.	217.40	6522.00
16	Supply & fixing logo board of MUKHYA MANTRI BORDER VILLAGE UTKARSH YOJANA diamond size (600mm x 600mm) 16 Gauge & board plate size (900mm x 250mm) 16 Gauge thick M.S plate and 2.40 mt. deep length single angle 75 x 75 x 6 mm size including fitting and painting lettering with luminous	1.00	No.	4139.99	4139.99
17	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(B) Dense or Hard soil	294.28	Cum	247.85	72937.30
18	Providing and filling in foundation with ordinary Cement concrete M-100 mix and providing necessary vertical pin headers including formwork, vibrating, ramming and curing complete.	38.00	Cum	3306.84	125659.92
19	Providing and casting in situ ordinary cement concrete M-150 mix and providing necessary pin headers including shuttering, scaffolding, laying, vibrating, curing and finishing complete without V-Groves. (A) Height from 0.0 M. to 5.0 M.	266.00	Cum	3885.47	1033535.02
20	Supplying and fixing reinforced concrete heavy duty non-pressure 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 of following internal diameter. (iv) 900 mm dia.	20.00	Rmt	4710.56	94211.20
21	Providing TMT Bar FE500D reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level	1170.00	Kg	77.29	90429.30
22	Providing and laying weep hole in Abutments, and returns by using A.C. pipe of 100mm including laying in proper grede and jointing the completed as per detailed specification.	310.00	No	84.63	26235.30
23	Providing and laying filter Media 600mm thick directed at the back of abutments, returns and wing walls as per detailed specifications.	311.20	Sq.mt	1209.85	376505.32
24	Type - A, "W" : Metal Beam Crash Barrier (Providing and erecting a "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high, 1.1 m below ground/road 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 spacer of channel section 150 x 75 x 5 mm, 330 mm long complete as per clause 811)	30.00	Rmt.	3354.21	100626.30
25	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 Cum	971.00	Cum	498.94	484470.74
26	Excavation for foundation in hard murrum and boulders and very stiff or sticky, clays and other similar strata including shoring and strutting and dewatering as necessary and disposing of the excavated stuff as directed .	780.00	Cum	596.77	465480.60
27	Excavation in large boulders and soft rock by welding including shoring, strutting and dewatering as necessary and disposing of the excavated stuff as directed.	260.00	Cum	699.50	181870.00

Item No	Item of work	Quantities Estimated	Unit	Rate in Figures in Rs.	Amount
1	2	3	4	5	6
28	Providing and filling in foundation with ordinary Cement concrete M-150 mix and providing necessary vertical pin headers including formwork, vibrating, ramming and curing complete.	150.91	Cum	3677.41	554957.94
29	Providing and casting in situ Ordinary cement concrete M-250 mix and providing necessary pin headers including shuttering, scaffolding, laying vibrating, curing and finishing etc., complete without grooves(Height from 0.0 to 5.0 mt.)	1277.00	Cum	4361.18	5569226.86
30	Providing & casting in situ ordinary cement concrete M-250 mix and providing necessary pin headers including shuttering, scaffolding, laying, vibrating, curing and finishing complete without V-Groves.(B) Height from 5.0 M. to 10.0 M.	369.00	Cum	4922.74	1816491.06
31	Providing and casting in situ controlled cement concrete M-300 for R.C.C. return as per drawings including centering shuttering, scaffolding where necessary, laying vibrating, curing and finishing complete.(A) Height from 0.0 to 5.0 M. (1) Piers (2) Abutment (3)	34.17	Cum	5313.61	181566.05
32	Providing and casting in situ controlled cement concrete M-300 for R.C.C. return as per drawings including centering shuttering, scaffolding where necessary, laying vibrating, curing and finishing complete.(A) Height from 5.0 to 10.0 M. (1) Piers (2) Abutment (3)	4.84	Cum	5628.73	27243.05
33	Providing and placing in position I.S.I. mark steel bar reinforcement (T.M.T.) of grade Fe-500D for following items including cutting, bending, hooking, tying etc. complete as per detailed drawings and specifications for various structural components.	46.27	M.T	73615.05	3406021.06
34	Providing and casting in situ Controlled cement concrete M-250 for R.C.C. works in pier cap abutment cap and dirt wall including controlled cement concrete M-300 Bed block or pedestal or required size below bearings as per detailed drawings, centering, scaffolding, curing &, vibrating & finishing etc. competed.	34.00	Cum	5234.83	177984.22
35	Providing and casting in situ controlled cement concrete M-250 for R.C.C.solid slab including centering, scaffolding, curing and finishing complete.	239.00	Cum	5297.45	1266090.55
36	Providing and casting in situ controlled cement concrete M-250 for average 75 mm thick wearing coat laid as directed including tamping, vibrating, finishing, curing and filling in joints with bitumen complete	21.00	Cum	5230.79	109846.59
37	Providing and fixing mild steel dowel bars of minimum 32mm dia. for anchoring by drilling holes in foundation strata including necessary bending, hooking of dowel bars and grouting the holes complete as per detailed drawing and as directed.	107.00	Rmt	450.07	48157.49
38	Providing and fixing in position FE 500D steel dowel bars in pier caps or abutment caps for anchorage in fixed end as per detailed drawings including cutting, bending and welding complete.	24.00	Each	341.29	8190.96
39	Providing and fixing in position FE 500D steel dowel bars in pier caps or abutments caps for anchorage in free end as per detailed drawing including cutting, bending and welding complete.	24.00	Each	399.70	9592.80
40	Providing and filling sand behind abutments and between returns in layers as directed.	1270.00	Cum	456.56	579831.20
41	Providing P.V.C. 100 mm diameter water spouts including necessary iron gratings as per drawings.	26.00	Nos.	159.37	4143.62
42	Provision of an Reinforced cement concrete crash barrier at the edges of the road, approaches to bridge structures and medians, constructed with M-20 grade concrete with HYSD 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 (i) M 25 Grade Concrete	112.80	Rmt	1380.67	155739.58
43	Providing Pre-moulded asphalt filler joints as per drawings.(A) 12mm	33.00	Sq.mt	703.53	23216.49

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1	2	3	4	5	6
44	Providing and Laying Tar Paper Bearing as per directed engineer in charge.	5.00	Job	5000.00	25000.00
45	Flexible Median Marker : Providing and Fixing of Flexible Median Marker that are made of tough, high impact resistant, injection-moulded, thermoplastic body with property of flexibility to provide high durability. The dimension of Flexible Median Marker should not exceed 18.4 cm in height(including shank height),12.5 Cm in width. ,0.65 cm in thickness and shank depth shall be 3.4 cm The body structure shall be rounded at all its corners and edges. The plastic used for molding the Flexible Median Marker should survive impact load of 5kg continuously for 750 times at room temperature. The logo of the manufacturer shall be embossed on either side of the body in the injection molding process. The Median Marker shall have flame like shaped body with, fluorescent yellow color retro-reflective sheeting of size not less than 90 Cm square, with fully reflective micro prismatic cube corners as its retro-reflective elements as per IRC 67 2012 and ASTM D4956	18.00	Nos.	271.69	4890.42
46	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 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 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)...	8.00	Nos.	3439.81	27518.48
47	Diversion sign board :-Providing & Fixing sign boards made out of 2mm aluminium sheet, size 180 x 60 cms. rectangle as per the attached drawing pre treated with phospheting process & acid etching. coated with one coat of epoxy priemr 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 (2nos) stand post and frame fabricated from iron angle of 35x35x3mm, 50x50x5mm painted with best quality epoxy coatings in blak and white bends. The fixing at site shall be in 1:2:4 CC block of size 45 x 45x 60cms for each leg, including excavation curing etc. complete under the supervision of engineer in charge.(A) Engineer Grade(VR)...	2.00	Nos.	6798.92	13597.84
48	Around the Island/road direction sign board (Big) :-Providing & Fixing sign boards made out of 2mm aluminium sheet, size 180 x 60 cms rectangle as per the attached drawing pre treated with phospheting process & acid etching. coated with one coat of epoxy priemr and two coats of best quality epoxy paint reflectorised with retro reflective sheeting as per latest M.O.S.T. 3.1m long (2nos) stand post and frame fabricated from iron angle of 50x50x5mm, painted with best quality epoxy coating the fixing at site shall be in 1:2:4 CC block of size 45 x 45x 60cms for each leg, including excavation curing etc. complete under the supervision of engineer in charge.(A) Engineer Grade(VR)...	2.00	Nos.	6798.92	13597.84

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1	2	3	4	5	6
49	Men at work (Heavy) sign :-Providing and fixing sing boards made out of 2mm aluminium sheet; size 120 x 90cms. rectangle as as per the attached drawing. 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)...	2.00	Nos.	6141.20	12282.40
50	Danger Plate sign :-Providing & fixing sign board madeout of 2.0 mm aluminium sheet / 4 mm ACP (aluminumComposite Panel), size 30cms diameter circle, pretreatedwith phospheting process and acid etching, painted withone coat of epoxy primer and two coats of best qualityepoxy paint reflectorised with retro reflective sheetingas per latest M.O.S.T. specifications. A warranty for 7years for the Retro reflective sheeting from originalmanufacturer & a certified copy of 3 year outdoorexposure test report from third party test lab for theproduct offered shall be submitted by contractor. (A)Class-B Type-4 Retro Reflective sheeting	2.00	Nos.	490.79	981.58
51	Providing and casting in situ Ordinary cement concrete M-150 for R.C.C. Raft and cut-off walls including necessary shuttering laying, vibrating, ramming and curing complete.	123.00	Cum	3637.11	447364.53
52	Providing and Casting in situ controlled Cement Concrete M-300 for R.C.C. Raft and cutt-off walls including necessary shuttering laying, vibrating, ramming and curing complete.	43.75	Cum	4707.61	205957.94
53	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 16mm dia bar	6.34	MT.	10162.62	64420.85

Item No	Item of work	Quantities Estimated	Unit	Rate in Figures in Rs.	Amount
1	2	3	4	5	6
54	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 (B) 20mm to 32 mm dia bar	4.23	MT.	7296.24	30833.91
Rupees One Crore Eighty Six Lakh(s) Twenty Eight Thousand Nine Hundred Eleven And Paise Seventy Two only					18628911.72

I / We am / are willing to carryout the work at% above/Below percent (..... Percent above/Below) (Should be written in figure and words) of the estimated rates mentioned above. Amount of my / our tender worked out as under.

Estimated amount put to tender Rs:
Deduct.....% below Rs:
Net Rs:
In Words
(Please strike out which ever is not applicable.)

Estimated amount put to tender Rs:
Add.....% above Rs:
Net Rs:
In Words

Note :

- 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.
- The labour cess will be deducted as per prevailing rules i.e. 1% of the work done.
- GST and Income tax TDS will be deducted at a source while making payments of bills
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.
- Credit of Dismantalled /Reuse materials amounting of Rs. 171866.00 Must be fully recovered from respective 1st R.A. Bill Of Contractor's.

CERTIFICATE

Quantities rate and wordings of items are as per estimate and calculation in the Sch. - B are airthmatically checked.
Above all items of "Schedule-B" with Item Description, Unit, Rate & Amount have verified by me and found order.

Tender clerk

Sr.Divisional Account Officer
Panchayat (R & B) Division
Vadodara

Dy.Executive Engineer
Panchyat (R & B) Sub Division
Padra

Signaturre of contractor
with seal

Executive Engineer
Panchayat (R & B) Division
Vadodara