

**Name of work :- Construction of New Slab Drain Under TRIBAL/MMGSY/B.K./2026-27/ Package No. 01
In Ta. Danta Dist.Banaskantha**

Bill Of Quantities

Memorandum showing items works to be carried out :

Item 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, sapling and trees girth upto 300 mm removal of stumps of trees cut earlier and disposal of unservicable materials [C] By Mechanical means in area of light jungle	0.03	Hect.	28455.00	853.65
2	Earth work for embankment with selected soil including breaking clods, dressing, with all, lead and lift (excluding watering and consolidation) (A) From borrow area with All lead and lift & CBR not less than 6.	630.00	Cmt	154.87	97568.10
3	Rolling of earthwork in layers with vibratory roller 80 Kn to 100 Kn static weight including filling in depressions which occurs during the process.	630.00	Cmt	22.96	14464.80
4	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.	584.00	Cum	511.11	298488.24
5	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.	106.00	Cum	611.32	64799.92
6	Providing & filling in foundation with ordinary cement concrete M 100 mix and providing necessary vertical pin headers including formwork vibrating ramming & curing complete.	85.00	Cum	3341.44	284022.40
7	Providing and casting in situ controlled cement concrete M200 mix for RCC work in piers, abutment and RCC return as per drawing including centering, shuttering, scaffolding where necessary laying, vibrating, curing and finishing complete. (A) All Height {Piers, Return wall, Abutment}.	543.00	Cum	5167.05	2805708.15
8	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 250 bed block or pedestals of required size below bearing as per detailed drawing centering, shuttering, scaffolding, wherever necessary laying, vibrating, curing and finishing complete	17.00	Cum	5236.90	89027.30
9	Providing and casting in situ ordinary cement concrete M. 300 for R.C.C. solid slab including centering scaffolding curing and finishing complete.	78.00	Cum	5298.46	413279.88
10	Providing and casting in situ controlled cement concrete concrete M-300 for approach slab including formwork curing and finishing complete.	32.00	Cum	5247.72	167927.04

Item 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
11	Providing and casting in situ Controlled cement concrete M-400 for average 100 mm thick wearing coat laid as directed including tamping vibrating finishing curing and filling in joints with bitumen completed.	23.00	Cum	5548.94	127625.62
12	Providing and casting in situ ordinary cement concrete M.400 for kerb/kerb block including formwork curing and finishing complete.	20.00	Cum	5132.55	102651.00
13	Providing & filling in foundation with ordinary cement concrete M 150 mix and providing necessary vertical pin headers including formwork vibrating ramming & curing complete.(A) Height from 0.0 to 5.00 mt	57.00	Cum	3765.79	214650.03
14	Providing and laying in position FE 550D TMT bar reinforcement with 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 including cutting, bending, hooking and tying complete as per detailed for the following.	12.20	M.T.	84472.36	1030562.79
15	Providing and laying W.B.M of B.T.M.C metal of size 45 mm to 90 mm size including 0.27 Cu.m. stone screening & 0.08 Cu.M. stone dust as filler including spreading, watering & consolidation by vibratory roller 80KN to 100KN static weight.100 mm thick compacted.	15.00	Cmt	1266.54	18998.10
16	Providing and laying W.B.M of B.T.M.C metal of size 45 mm to 63 mm size including 0.12 Cu.M. Stone Screening & 0.08 Cu.M. stone dust as filler including spreading, watering & consolidation by vibratory roller 80KN to 100KN static weight. 75 mm thick compacted.	23.00	Cmt	1152.41	26505.43
17	Providing and laying filter media 600 mm thick as directed at the back of abutment ,returns and wing walls as per detailed drawing	284.00	Smt	1239.35	351975.40
18	Providing & Laying weep hole in Abutments,and returns by using PVC 6 kg/Sqcm pipe of 110 dia including laying in proper grade and jointing the completed as per detailed specification.	171.00	No	146.03	24971.13
19	Providing & laying rubble for apron (each stone weight not less than 40 Kg.) including packing & filling in the interstices with quarry spalls.	28.00	Cum	1016.48	28461.44
20	Supplying & fixing premoulded bituminous joint filler (iii) 25 mm thick	22.00	Smt	802.87	17663.14
21	Providing and fixing in position mild steel dowel bars in pier caps or abutments caps for anchorage in free end as per detailed drawing including cutting, bending and welding complete.	17.00	No	399.70	6794.90
22	Providing and fixing in position mild steel dowel bars in pier caps for anchorage in fixed end as per detailed drawing including cutting, bending and welding.	17.00	No	341.29	5801.93
23	Cautionary Warning Sign :-Providing and fixing sing 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 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 x75 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(VR).....	2.00	No	3808.66	7617.32

Item 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
24	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)...	2.00	No	5045.37	10090.74
25	Place ideatification sign :-Providing and fixing sing boards made out of 2mm aluminium sheet; size 150 x 90cms. 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 50x50x5mm 75x75x6mm as required; 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)...	1.00	No	9390.66	9390.66
26	Citizen' s information Board- Providing and fixing of typical MMGSY information board as per instruction. Two ACP sheets of 3 mm thick, of 900 mm x 750mm size fixed at top & bottom duly rivetted with MS angles of 25 x 25 x 5 mm thick M.S angle shall be welded by two vertical M.S angle of 5 mm thick to 75 mm x 75 mm of 12 SWG square tubes posts duly embedded in cement concrete M-15 grade blocks of 600mm x 600mm x 75mm, below ground level. The letters & figure of any shade reflectorised with High Intensity Prismatic Grade Retro Reflective Sheeting of Type-4 as per ASTM D-4956 and latest MORD specifications; All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paints as per drawing Clause 1701 and Annexure 1700.1 (10.16). (A) Class-B High intensity Grade Retro Reflective sheeting.	1.00	No	8456.73	8456.73
27	Providing and fixing logo board of MMGSY as per National Rural Road Development Agency diamond size, 600 x 600 mm, 1.50 mm thick Plate & board plate size, 900 x 250 mm, 1.5 mm thick M.S. plate and 2.40 meter deep length single angle 75 x 75 x 6 mm size including fitting and painting , lettering with luminous colour as per drawing including fixing in CC 1:3:6 etc compete.	1.00	No	3953.14	3953.14
28	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 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)...	2.00	No	2423.74	4847.48

Item 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
29	<p>Project Information Board: Providing and fixing of typical Project informatory sign boardwith Logo as per 1700 of MORD specifications and drawing. The board will be a composite unit consisting ofThree Plates ACM (Aluminum Composite Material), material specificaitons as per clause 17001.3. The topmost plate will be of 3mm ACM in diamond shape of 600x600mm size, riveted with MS angle iron frame of25mmx25mmx5mm size on back on edges. The middle 4mm ACM plate of will be 1200x150mm size rivetedwith MS angle iron frame of 25mmx25mmx5mm size on back on edges. The main 4mm ACM lower mostplate will be 1500mmx600mm size, riveted with MS angle iron frame of 25mmx25mmx5mm size. Riveting of all the sheets over angle and flat iron frame will be done neatly to have plain surface on one side. The angleiron frame of lower most plate and flat iron frame of the middle plate will be welded to two nos 75mmx75mm (12 SWG) sheet tubes posts placed at 1125mm apart centre to centre. the top of the middle platewill be flushed with the top of 75mm dia medium steel tube posts and these posts will be embedded in cementconcrete M15 grade block of 450x450x600mm below ground level. The height of the bottom of the lowerplate will be 1200mm from normal ground level and the bottom of the middle plate will be 100mm above thetop level of the lower most plate. the diamond shaped plate mounted over flat angle iron frame will beconnected to middle plate by square steel section of 47mmx47mm, thickness 12SWG having a spacing of100mm between the diamond shaped plate and middle plate and this square section will be riveted to thebottom point of the diamond shaped plate. logo, letters and numerals on the ACM should be madeup of Retro Reflective sheeting of Type-1 AEGP Class-A grade as per the latest MORD section 1700 andIRC 67-2012 specifications. Al the section of the frame and posts shall be painted with primer and two coatsof epoxy paint. The design, painting and lettering shall be done as per the Signage Guide and asdirected by Engineer-In-charge. . A warranty for 5 years for the Retro reflective sheeting for Class-A</p>	1.00	Smt	13399.67	13399.67
	Total Tender amount				6250556.13

Rupees Sixty Two Lakh(s) Fifty Thousand Five Hundread Fify Six And Paise Thirteen Only

I/am we/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. _____
Deduct : ____ % Below Rs. _____
Net Rs. _____
In words _____

Rs. _____
Add : ____ % Above Rs. _____
Total Rs. _____
In words _____

Notes:-

1. The Contractor Shall Exhibit a board with deatiled specification and details of work as directed by the Engineer-In-Charge for which no Extra Payment shall be made.
2. The labour crss 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 RCC items in Rate Analysis Standard cement Consuption has been taken as per Govt.G.R: PRC -10/2017 cement consumption/16/c, Date: 11/05/2017 as stated i. S.O.R therefore in RCC Items where there is a changed as per actual mix design the cost of diffrence of cement consumption have been deduvted from the rate of original item at the rate of input rate mentioned in all the tender.

Above all items of " Schedule-B" with iem Description,Unit,Rate & Amount Have verified by me and found Order.

Deputy Executive Engineer
Panchayat R & B Sub Division
Danta

Executive Engineer
Panchayat R & B Division
Palanpur