

**(MMGSY 2025-26 - Vanbandhu Kalyan Yojana-2)**

**Name of work :- Construction of Box Culvert on Various Road of Pardi Taluka. (3 - Box Culvert ) Pkg-17 (1.) Construction of Box Culvert on Sukhesh Vaniya Faliya to Parwasa Road. (VR-Plan) Ch. 2/0 to 2/2 Ta Pardi Dist. Valsad (2.) Construction of Box Culvert on Sukhesh Kanubhai Desai Cricket Ground to Halpatiwas to Navinagri Bhagat F. Road. (VR- Non-Plan) Ch. 0/80 to 1/0 Ta Pardi Dist. Valsad. (3.) Construction of Box Culvert on Sukhesh Kothar Khadis Causway to Bhagat Faliya School to Hanuman Temple to joining Lalu Bhikhabhai House Road.(VR- Non-Plan) Ch. 0/0 to 2/0 Ta Pardi Dist. Valsad**

**:: BILL OF QUATITES ::**

Sr. No.	Estimated Quantity but may be more or less	Item of work	Estimate Rate	Unit	Total amount according to estimated quantities.
			In figures		
1	2	3	4	6	7
1	1172.00	Excavation for foundation in sand, gravel, clay soft soil & murrum etc. including shoring, strutting and dewatering as necessary and disposing of the excavated stuff as directed depth upto 3.0 mt.	501.09	Cu.mt	587277.48
2	217.45	Providing and filling in foundation with controlled cement concrete M.100 mix and providing necessary vertical pin headers including form work vibrating ramming and curing complete.	3240.34	Cu.mt	704611.93
3	692.27	Providing and casting in situ controlled cement concrete M.300 for R.C.C. Box, Approach slab and cutt off walls as per drawing including necessary shuttering, laying, vibrating, ramming and curing complete.	5328.98	Cu.mt	3689092.98
4	1510.04	Providing and casting in situ controlled cement concrete M-200 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.	5064.66	Cu.mt	7647839.19
5	42.80	Providing and casting in situ controlled cement concrete M.300 for kerb/kerb blocks including form work, curing and finishing complete	5018.46	Cu.mt	214790.09
6	21.77	Providing and casting in situ controlled cement concrete M.300 for average 75mm to 100mm thick wearing coat laid as directed including temping, vibrating, finishing, curing & filling in joints with bitumen complete.	5438.51	Cu.mt	118396.36

7	118.22	Providing and fixing in position ISI TMT steel bar reinforcement of bar grade FE-500/500D including cutting, bending, hooking and tying complete as per detailed drawing for raft slab, pier, solid slab, kerb block, wearing coat etc.	73217.52	M.T	8655775.21
8	171.00	Providing and laying weep holes in abutment & return by using P.V.C. pipe of 100mm diameter with laying in proper grade & joints complete etc. as per detailed specification.	84.95	Nos	14526.45
9	341.76	Providing and filter media 600mm thick as directed at the back of abutment returns & wingwall as per detailed specification.	1248.74	Sq.mt	426769.38
10	3.00	Providing and fixing marble slab including engraving and painting complete (A) Size 75cm x 60cm x 4cm	1012.64	Nos	3037.92
11	36.00	Providing and fixing G.I. 100 mm diameter water spout including necessary iron gratings as per drawing	536.02	Nos	19296.72
12	261.30	Wall painting two coats with plastic emulsion paint of approved brand and manufacturer on wall surfaces to give an even shade including thoroughly brushing the surface to remove all dirt, dust, mortar drops and other foreign matter.	80.34	Sq.mt	20992.84
13	3.00	Diversion of water course, providing cofferdam and bund and bund or island as may be necessary for foundation and maintaining the same for the period as may be necessary (A) Diversion by channel	40400.00	Nos	121200.00
14	288.00	Dismantalling the existing structure including removing and stacking the dismantalled materials as and where directed. (A) RCC Structure	909.90	Nos	262051.20
15	110.00	Providing temporary all weather diversion suitable for double lane traffic during the construction period of box culvert including providing earthwork for embankment/Cutting as per site requirement, providing RCC pipes of suitable diameter in required row to drain water, supplying, spreading and compacting 200 mm thick GSB grade I & 200 mm thick GSB grade II 5.50 meter carriageway with providing all safety measures for traffic and maintaining the diversion in condition till completion of work etc.complete as directed.	5531.57	Rmt	608472.70
16	0.11	Clearing and grubbing road land including uprooting trunk vegetation, grass bushes, shrubs, saplings and trees girth upto 300 mm removal of stumps of trees cut earlier & disposal of unserviceable material. (C) By Mechanical means in area of light jungle.	17905.52	Hect	1969.61

17	176.00	Earth work in cutting in all sorts of soil and soft murrum including conveying and spreading the stuff, embankment as and where directed within 200 meters from the end of the cutting with all required lead and lift.	82.23	Cu.mt	14472.48
18	1299.08	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 with all lead	114.27	Cu.mt	148445.87
19	194.00	Constructing of granular sub-base by providing course graded B.T. machine crushed material satisfying MOST specification of grading I 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 etc. complete.	649.61	Cu.mt	126024.34
20	219.00	Providing and laying wet mix macadam base course thick as per MORTH specification using machine crushed B.T. chips as per required gradation, mixing with required optimum quantity of water, conveying the mix to site of work, spreading in to grade and camber with paver/mechanical means and consolidation each layer with vibratory roller to achieve the desired density including cost of material labour plant and equipment etc. complete.	713.65	Cu.mt	156289.35
21	1365.00	Providing and applying priming coat with emulsion (SS-1) at the rate of 7.50 kg/ 10 Sq.mt. including cost of asphalt and preparing the surface heating, and applying etc. complete.	64.64	Sq.mt	88233.60
22	13.00	Supplying, stacking & spreading Hard Murrum on road side for hard side shoulder of work as per specification including rolling & watering complete.	443.39	Cu.mt	5764.07
23	37.50	Supplying, fixing & joining reinforced concrete heavy duty non pressure pipe with colars for culverts carryig heavy traffic as per Indian Railway Standard Specifications including setting and joining the pipe in cement mortar 1:2 watering and laying ( to level or slope) of I.S. class NP-3 600 mm dia.(Internal)	1952.00	Rmt	73200.00

24	128.15	Providing & laying 50.00 mm thick bituminous macadam with 0.66 cum stone chips for one M.T. using the asphalt VG-30 34 kg/M.T. (i.e 3.40%) for mixing and RS-1 for tack coat 2.5 kg/10sqmt heating the asphalt and agg by continues batching of hot mix plant & spreading the same by pavers finisher and consolidation with power roller of 80 to 100 KN with necessary equipment, oil, kerosene, fire, wood, labour charges etc. complete with contractor's own machinery.	3761.80	M.T	482074.67
25	53.13	Providing & laying mix seal surfacing 20mm thick on previously laid bituminous base course surface as wearing course with specified graded machine crushed agg. Premixed with bituminous binder at 2.50 Kg/10Sq.mt. for tack coat & for mixing 51 kg/MT in a hot mix plant, transporting the mixed material by tripper and laying with pavers finisher to the road surface level and rolling with power roller of 80 to 100 KN including cost of carrying of materials.	4878.71	M.T	259205.86
26	42.00	Road Marking with hot applied thermoplastic compound with reflectorising glass beads on bituminous surface. Providing & laying hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms. per sq.mt. area thickness of 2.5 mm is exclusive of surface applied glass as per I.R.C. 35 The finished surface to be level, uniform & free from streaks & holes.	367.72	Sq.mt	15444.24
27	48.00	Supplying and fixing cat eye (Stimsonite) made out from Acrilo beaultile sterine injuction high compressed molding with reflector made of MMC (prismatic type of size 12cm x 6cm x 2.5cm) provided with bituminous adhesive 100g. with each unit for fixing. (High Intensity grade)	375.72	Nos	18034.56

28	6.00	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 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.(B) Engineer Grade	3808.66	Nos	22851.96
29	6.00	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.(B) Engineer Grade ...	2423.74	Nos	14542.44
30	106.00	Providing and fixing 'W' type safety barrier using M.S. iron channel 150mm x 75m x 5mm size erected at 2.0 Mt. center to center and providing 'W' shaped galvanised steel sheet guard rail 3mm thick for crash barrier in single row as per detailed drawing with fabrication and installation charges including providing foundation block of size 0.60 x 0.60 x 0.75 Mt. in C.C. 1:2:4 and oil painting two coats with one coat of red oxide etc complete.	5040.91	Rmt	534336.46

31	6.00	Logo Board:- Providing and fixing Logo Board made out of 2mm aluminium sheet, as per the drawing & design. Pre treated with phospheting 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)Engineer grade.	5050.00	Nos	30300.00
			Total Rs. :-		25085319.97

**Amount of Dismantle Credit of Materials Rs. -354366 Should be recover  
[1] from 1st RA Bill**