

**Construction of Box Culverts on Ghanghli - Bhangadh - Paliyad Road Bet. Ch.3/200 to 4/200 (VR) Ta.Shihor
Dist.Bhavnagar (MMGSY~SCSP~2025-26)**

BILL OF QUANTITIES

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
1	Clearing and grubbing of road land incl.uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth upto 300mm removal of stumps of trees cut earlier and disposal of unserviceable materials © By mechanical means in area of Light jungle.	0.10	One Hect.	28455.09	2845.51
2	Earthwork for embankment including breaking clods, dressing with all lead and lift (excluding watering and consolidation) (E) From Borrow Area within 5.0 Km lead	1995.00	One Cum	215.28	429483.60
3	WBM Grading 1 Providing, laying, spreading and compacting stone aggregates of 90 to 45mm sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening/binding materials to fill-up the interstices of coarse aggregate, watering and compacting to the required density grading I as per Technical Specification Clause 405. By Manual Means	154.90	One Cum	1538.23	238271.83
4	Rolling and Watering of earthwork in layers with vibratory roller including filling in depression which occur during the process as directed.	1995.00	One Cum	23.18	46244.10
5	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 3.00mt and lead upto 100m	5785.00	One Cum	523.28	3027174.80
6	Providing and laying rubble for apron (Each stone weighting not less than 40kg) including and packing and filling in the interstices with quarry spalls.	799.60	One Cum	1092.51	873571.00
7	Providing and casting in situ ordinary cement concrete M-15 mix) and providing necessary pin headers including shuttering, scaffolding, laying vibrating, curing and finishing complete Without V-Grooves. (A) Height from 0.0 m to 5.0m	691.00	One Cum	3938.30	2721365.30
8	Providing and cast in situ Ordinary Cement Concrete M-20 Mix and providing pin headers including shuttering scaffolding, laying, vibrating, curing and finishing complete without V-grooves (A) Height from 0.0 M to 5.0 M	682.00	One Cum	4308.34	2938287.88
9	Providing and casting in situ controlled cement concrete M-30 for varies thickness wearing coat laid as directed including tamping, vibrating, finishing, curing and filling in joints with bitumen complete.	214.10	One Cum	5584.56	1195654.30
10	Providing and casting in situ Controlled Cement Concrete M-25 for R.C.C. Raft and cut-off walls including necessary shuttering laying, vibrating ramming of curing complete.	494.30	One Cum	4745.95	2345923.09
11	Providing and casting in situ Controlled cement concrete M 25 for R.C.C. Solid slab including centering, scaffolding, curing and finishing complete.	359.00	One Cum	5770.50	2071609.50
12	Providing and casting in situ Controlled cement concrete M 25 mix for Approach slab including formwork, curing and finishing complete.	48.30	One Cum	5284.12	255223.00
13	Providing and applying one coat Epoxy Phenolic primer of DFT 50 micron and two coats of Polyurethane (aliphatic) epoxy paint-75 micron DFT each or any other equivalent epoxy coating system to all concrete surfaces exposed to atmosphere in Substructure & Super Structure as directed by Engineer and as per specification.	3860.00	One Sqm	233.31	900576.60

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
14	Providing and laying weep hole in Abutments, and returns by using PVC pipe of 100MM including fixing in proper grade and <u>jointing the complete as per detailed specification.</u>	621.00	One No	355.52	220777.92
15	Providing and laying filter media 600mm. thick directed at the back of abutments, returns and wing walls as per detailed specifications.	191.00	One Sqm	1268.86	242352.26
16	Providing & Fixing of Precast R.C.C. railing of M 30 grade concrete having 2-tire (Row) of hand rail dimension as shown on detail drawing and vertical posts not to exceed 1.625 m including necessary TMT steel, formwork, painting with weateherproof paint, supoplying of all materail, labour etc. complete as per <u>instruction of Engineer-in-charge.</u>	240.00	One Rmt.	2154.33	517039.20
17	Providing 20 mm Thick Pre-moulded asphalt filler joints as per drawings	203.00	One Sqm	769.62	156232.86
18	Providing PVC 100mm. Diameter water spouts including necessary iron gratings as per drawings.	108.00	One No	159.36	17210.88
19	Dismantling the existing structure including removing and stacking the dismantled materials as and where directed. RCC Work.	85.00	One Cum	952.51	80963.35
20	Diversion: Providing temporary diversion suitable for traffic during the construction period of the C.D. Structure work by levelling existing ground and constructiong suitable compacted embankment, road surface with providing, laying & consolidation of 200 mm WBM in layers on carriage width with safety measures like sign board, guard stone & maintain for motorable road throughout construction period etc. and also dismantle diversion after completion of work etc. complete as per instrucion of <u>Engineer-in-Charge.</u>	310.00	One Rmt.	2568.43	796213.30
21	Providing and filling in foundation with ordinary cement concrete M-15 mix and providing necessary pin headers including formwork vibrating, rammering and curing complete	398.90	One Cum	3732.29	1488810.48
22	Providing and casting in situ controlled cement concrete M-25 for R.C.C. Wall / 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/ R.C.C. Walls (2) Abutment (3) RCC return	366.30	One Cum	5352.76	1960715.99
23	Providing and casting in situ Controlled cement concrete- M-25 Kerb/Kerb blocks including formwork,curing and finishing complete.	21.90	One Cum	4992.64	109338.82
24	Providing and laying in position FE 550 D TMT bar reinforcement including including 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 including cutting, bending, hooking and tying complete as per detailed drawings for the following. (A) Piers (B) Abutments (C) R.C.C. Returns / Walls/ Caps/ Copings etc.	4.78	One MT	84021.31	401621.86
25	Providing and placing in position FE 500 D TMT bar reinforcement including 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 including testing of coating at plant and all taxes including cutting, bending, hooking, and tying complete as per detailed drawing.(A) Solid Slab. / App slab / <u>Wearing Coat</u>	108.40	One MT	83405.64	9041171.38
26	Providing and filling sand below R.C.C. Raft in Layers including ramming and watering complete	490.00	One Cum	571.92	280240.80

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
27	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 12 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	168.00	One Rmt.	3468.34	582681.12
28	Supplying & laying of bi-axial extruded high modulus polypropylene geogrid conforming to MORT&H specification for base/sub-base reinforcement having minimum tensile strength 30kN/m in the longitudinal and transverse direction, with 10.5kN/m and 21kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening.	795.80	One Sqm	253.51	201743.26
29	Informatory Signs:-Providing and fixing sing boards made out of 2mm aluminium sheet; size 80 x 60cms. rectangle as per the design of IRC-67-1977 pre treated with phospheting process & acid teching; coated with one coat of epoxyprimer and two coats of best qualityepoxy paint; reflectorised with retro refiective sheeting as per latest M.O.S.T. Specifications; 3.1m long stand postand frame fabricated from suitable sizeiron angle of 35 x 35 x 3mm75x75x6mm as required; painted with best qualityepoxy coatings in black and whitebends. the details of symbol for eachboard shall details of symbol for eachboard shall be as per the instruction ofengineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x45 x 60cms. for each leg. including excavation curing tec. complete under the supervision of engineer in charge. (A) Engineer Grade	2.00	One No	3856.90	7713.80
30	Hazard Marker sign : Providing and Fixing sign boards made out of 2mm aluminum sheet : size 90*30 cms. rectangle as per design / Drawing attached (IRC). Pretreated with phospheting process and 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 specification: 3.1 M. long (2 nos) stand post and frame fabricated from suitable size iron angle of 35*35*3mm and 50*50*5mm : painted with best quality epoxy coatings in black and white bends the details of symbole 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*45*60 cms for each leg; including excvation curing etc. comp.under the supervision of engineer-in-charge. (A) Engineer grade	6.00	One No	2423.74	14542.44
Three Crore Thirty One Lakh Sixty Five Thousand Six Hundred Rupees And Twenty Paise.					33165600.20

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I \ We am \ are willing to carry out the work at % above \ below percent (Should be written in figures and words) of the estimated rate mentioned above. Amount of My \ Our tender works put as under.

* Estimated Amount

Put to tender **Rs**.....

Deduct.....%

Net **Rs**.....

In words.....

* Estimated Amount

Put to tender **Rs**.....

Add.....%

Total **Rs**.....

In words.....

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.

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.

NOTE: Amount Rs 386880 of Dismantled materials shall be recovered from 1st R.A. bill of Contractor at once.

Signature of Contractor.

Deputy Executive Engineer
Panchayat R&B Sub Division
Shihor

Executive Engineer
Panchayat R&B Division
Bhavnagar