

**Name of Work** Construction Of Box Culvert on Vadhela Dhadhodar Road Ch.0/700, Ta.Barwala, Dist.Botad. (Remaining Work)

:-

**BILL OF QUANTITY**

Memorandum showing items of works to be carried out

Item No..	Discription of Item (With Brief Specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
1	Earthwork for embankment including breaking clods, dressing with all lead and lift (Excluding watering and consolidation) (A) From borrow area with all lead and lift.Executed with machineries.(Selected soil to be used for earthwork shall be from BORROW AREA only having CBR not less than 6.00%)	944.00	Cum	150.38	1,41,958.72
2	Rolling and Watering of earthwork in layers with vibratory roller including filling in depression which occur during the process as directed.	944.00	Cum	22.48	21,221.12
3	WBM Grading-1 Providing, laying, spreading and compacting stone agg. Of 90mm to 45mm size to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 KN in stage to proper grade and camber, applying and brooming, stone screening/binding material to fill-up the intersties of coarse agg., watering and compacting to the required density grading-1 as per Technical Specification Clasue.405 By manual means.	99.00	Cum	1172.24	1,16,051.76
4	Providing and filling in foundation with ordinary cement concrete M-100 mix and providing necessary vertical pin headers incl. Formwork, vibrating, ramming and curing complete.	140.82	Cum	3245.56	4,57,039.76
5	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-Grooves For all Hieght.	276.00	Cum	3818.55	10,53,919.80
6	Providing and Fixing in position FE-500/500D TMT bar reinforcement including cutting, bending, hooking, and tying complete as per detailed drawaing (A)RCC kerb (B) RCC Footpath (B) RCC Solid Slab/ App. Slab / Wearing coat.	50.46	MT	72601.86	36,63,489.86
7	Providing and laying in Position FE -500/500D TMT bar reinforcement including cutting, bending, hooking and tying complete as per detailed drawings for the following (A) Piers (B) Abutments (C) Returns (D) Walls etc.	2.08	MT	73217.52	1,52,292.44

Item No..	Discription of Item (With Brief Specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
8	Providing and fixing "W" shape metal crash safety barrier comprising of 3mm thick galvanised sheet to be fixed on ISMC 150 (150x75x5.4mm) series channel vertical post to be spaced 1.5 mtr. c/c to be kept 1.50mtr height as per MOST spesification incl. necessary foundation, fittings with bolts, painting and required all process as per specificaation adnnd as per drawings.	120.00	Rmt	2609.84	3,13,180.80
9	Providing and laying weep hole in Abutment and returns by using A.C pipe of 100mm. Incl. fixing in proper grade and jointing the complete as per detailed specification.	251.00	No	58.53	14,691.03
10	Providing temporary all weather and fair weather diversion suitable for traffic during the construction period of the bridge / Slab drain including providing necessary drains and all safety measures including red lamps / signals at night for traffic etc. complete	0.00	Rmt	0.00	0.00
11	Excavation of foundation in Sand gravel caly soft soil and murrum etc. including shoring, struting dewatering as necessary and disposing of the excavated stuff as directed. Depth upto 3.00mt.	1034.73	Cum	486.76	5,03,665.17
12	Providing and laying rubble for apron (Each stone weighting not less than 40kg) including and packing and filling in the interstices with quarry spall.	71.69	Cum	1041.04	74,632.16
13	Providing and casting in situ Controlled Cement Concrete M-250 for R.C.C. Raft and cut-off walls including neccesary shuttering laying, vibrating ramming of curing complete.	411.20	Cum	4612.89	18,96,820.37
14	Providing and casting in situ Controlled cement concrete M 25 for R.C.C. Solid slab including centering, scaffolding, curing and finishing complete.	159.50	Cum	5322.24	8,48,897.28
15	Providing and casting in situ Contolled cement concrete- M-200 mix for Approach slab including formwork, curing and finishing complete.	15.70	Cum	5046.00	79,222.20
16	Providing and casting in situ Controlled cement concrete- M-20 mix for kerbs/Kerb blocks including formwork,curing and finishing complete.	9.70	Cum	4766.55	46,235.54
17	Providing and casting in situ Contolled cement concrete- M-200 for average Various thick wearing coat laid as directed incuding. tamping, vibrating, finishing, curring and filling in joints with bitumen complete.	117.50	Cum	5187.83	6,09,570.03
18	Providing and cast in situ controlled Cement Concrete M-200 Mix and providing necessary pin headers including shuttering scaffolding, laying, vibrating, curring and finishing complete without V-grooves (A) all heights.	235.30	Cum	4393.37	10,33,759.96

Item No..	Discription of Item (With Brief Specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
19	Providing 12mm. Thick Pre-moulded asphalt filler joints as per drawings	33.00	Sqm	702.12	23,169.96
20	Providing PVC 100mm. Diameter water spouts including necessary iron gratings as per drawings.	48.00	No	159.36	7,649.28
21	Providing and laying filter media 600mm. thick directed at the back of abutments, returns and wing walls as per detailed specifications.	73.00	Sqm	1180.33	86,164.09
22	Construction of Precast R.C.C. railing of M 30 grade concrete having 2-tire (Raw) of hand pail dimension as shown on detail drawing and vertical posts not to exceed 2.0m including necessary TMT steel, formwork, painting with weateherproof paint, supoplying of all materail, labour etc. complete as per instruction of Engineer-in-charge,	101.20	Rm	1831.11	1,85,308.33
23	Dismantling the existing structure including removing and stacking the dismantled materials as and where directed. RCC Work.	0.80	Cum	886.05	708.84
24	Providing and laying PP Extruded Geogrid techgrid PP 3030 having sperture of 38mmx38mm. The Biaxial Geogrid shall have tensil strength of 11kn/m @21.6kn/m 2% & 5% strain respectively & confirm to attached specification as per direction of Engineer-in-charge	560.30	sqm	116.15	65,078.85
25	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 reflective 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(VR)...	1.00	No	3856.89	3,856.89

Item No..	Discription of Item (With Brief Specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
26	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.(B) Engineering Grade	2.00	No	2423.73	4,847.46
Rupees One Crore Fourteen Lakh Three Thousand Four Hundred Thirty One and Paise Seventy only					<b>1,14,03,431.70</b>

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 out as under.

* Estimat	<b>1,14,03,431.70</b>	* Estimated Amount	<b>1,14,03,431.70</b>
Put to tender Rs.....		Put to tender Rs.....	
Deduct.....% Belowe Rs.....		Add.....% Above Rs.....	
Net Rs.....		Total Rs.....	
In words.....		In words.....	

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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.

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Signature of Contractor

**Amount Rs.0 of Dismantalled materials Shall be Recovered from 1st RA Bill of Contractor at Once.**

**Note:-**

(.....)  
 Deputy Executive Engineer  
 Panchayat R.& B. Sub Division  
 Botad

(.....)  
 Executive Engineer  
 Panchayat R.& B. Division  
 Botad