

**Construction of Various Structure of Bhavnagar District PKG.NO.RPC-2/BVN/STRC/MMGSY ~ NORMAL/2025-26/8.4**  
**Ta.Jesar Dist.Bhavnagar**

**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.	0.09	One Hect.	28455.09	2560.96
2	WBM Grading 1 Providing, laying, spreading and compacting stone aggregates of 45 to 90mm sizes with average lead 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	75.20	One Cum	1722.05	129498.16
3	WBM Grading 2 Providing, laying, spreading and compacting stone aggregates of 63 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 (As per Technical Specification Clause 404)	56.00	One Cum	1405.55	78710.80
4	Rolling of earthwork in layers with power roller including filling in depression which occur during the process and watering of earth work as directed.	179.00	One Cum	23.17	4147.43
5	Earth work for embankment including breaking clods, dressing with all lead and lift. (Excluding watering and consolidation) (c) From borrow area with IN 1 km lead and should have CBR not less than 6.00%	5.00	One Cum	161.67	808.35
6	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing of the excavated stuff upto 50 mtr lead. Dense or hard soil.	126.00	One Cum	259.93	32751.18
7	Excavation for foundation upto 1.5m depth including sorting out and stacking of useful materials and disposing of the excavated stuff upto 50 mtr lead. Hard Murrum	118.00	One Cum	442.90	52262.20
8	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	1206.00	One Cum	523.28	631075.68
9	Providing and laying rubble for apron (Each stone weighting not less than 40kg) including and packing and filling in the interstices with quarry spalls.	185.20	One Cum	1092.51	202332.85
10	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	439.00	One Cum	3938.30	1728913.70
11	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.	60.00	One Cum	3362.24	201734.40
12	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	227.90	One Cum	4308.34	981870.69

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
13	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.	71.20	One Cum	5683.94	404696.53
14	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.	136.40	One Cum	4745.95	647347.58
15	Providing and casting in situ Controlled cement concrete M 25 for R.C.C. Solid slab including centering, scaffolding, curing and finishing complete.	92.30	One Cum	5294.73	488703.58
16	Providing and casting in situ Contolled cement concrete- M-200 for avarage 75/150mm thick wearing coat laid as directed including. tamping, vibrating, finishing, curring and filling in joints with bitumen complete.	96.00	One Cum	5320.24	510743.04
17	Providing and casting in situ Controlled cement concrete M 25 mix for Approach slab including formwork, curing and finishing complete.	19.90	One Cum	5284.12	105153.99
18	Providing and laying Weep Hole in Abutments and returns by using P.V.C pipe of 110mm. Incl. fixing in proper grade and jointing the complete as per detailed specification	27.00	One No	62.93	1699.11
19	Providing and laying weep hole in Aburtments, and returns by using PVC pipe of 100MM including fixing in proper grade and jointing the complete as per detailed specification(	233.00	One No	355.52	82836.16
20	Providing and laying filter media 600mm. thick directed at the back of abutments, returns and wing walls as per detailed specifications.	82.00	One Sqm	1268.86	104046.52
21	Providing and laying in Position FE 500D TMT bar reinforcement including cutting, bending, hooking and tying complete as per detailed drawings for the following (A) Piers (B) Abutments (C) R.C.C. Returns	1.740	One MT	73858.69	128514.12
22	Providing and Fixing in position FE 500D TMT bar reinforcement including (testing of coating at plant and all taxes) cutting, bending, hooking, and tying complete as per detailed drawaing (A)RCC kerb (B) RCC Footpath (C) RCC App. Slab (D) Wearing coat.	1.850	One MT	73243.01	135499.57
23	Construction of Precast R.C.C. railing of M 30 grade concrete having 2-tire (Row) of hand pail dimension as shown on detail drawing and vertical posts not to exceed 1.625m including necessary TMT steel, formwork, painting with weateherproof paint, supoplying of all materail, labour etc. complete as per instruction of Engineer-in-charge.	66.00	One Rmt.	2154.33	142185.78
24	Providing 20mm Thick Pre moulded Asphlat Joint Filler as per drawings.	18.00	One Sqm	769.62	13853.16
25	Providing PVC 100mm. Diameter water spouts including necessary iron gratings as per drawings.	20.00	One No	159.36	3187.20
26	Filling available excavated earth (excluding rock ) in trenches plinth sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering.	895.00	One Cum	137.47	123035.65
27	Dismantling the existing structure including removing and stacking the dismantled materials as and where directed. RCC Work.	85.70	One Cum	952.51	81630.11
28	Removing all types of Hume pipes and stacking within a lead of 1000m including earthwork and Dismantaling of Masonary works as per technical Specification Clause 202.(B) Above 600 mm to 900 mm	22.50	One Rmt.	419.01	9427.73
29	Demolition and disposal of un serviceable materials with all lead and lift (ii) Un reinforced cement concrete	48.00	One Cum	637.85	30616.80

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
30	Diversion: Providing temporary diversion suitable for traffic during the construction period of the C.D. Structure / Bridge / Box Structure work by levelling existing ground and construction 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 instruction of Engineer-in-Charge.	80.00	One Rmt.	2409.86	192788.80
31	Providing and filling in foundation with ordinary cement concrete M-15 mix and providing necessary pin headers including formwork vibrating, rammering and curing complete	129.20	One Cum	3732.29	482211.87
32	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 (2) Abutment (3) RCC return	112.60	One Cum	5352.76	602720.78
33	Providing and casting in situ controlled cement concrete M-30 mix for kerbs/Kerb blocks including formwork, curing and finishing complete.	5.30	One Cum	4992.64	26460.99
34	Providing and laying in position FE 550 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 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	1.74	One MT	81154.93	141209.58
35	Providing and placing in position FE 500/550 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 cutting, bending, hooking, and tying complete as per detailed drawing. (A) Solid Slab. / App slab / Wearing Coat	30.00	One MT	80539.25	2416177.50
36	Providing and fixing Flood gauge post mark of 'C' angle size 100mm x 50mm x 6mm thick of length 2.00 Mt. height fixed in head wall 0.50 mt. and 1.50mt. Out side with painting and lettering with radium color as directed.	4.00	One No	1144.33	4577.32
37	Cautionary warning sign:-Providing & Fixing sign boards made out of 2mm. aluminium sheet size 90x90x90cms. equilateral triangle as per design of IRC-67-1977 Pretrated with phospheting process & acid atching : coated with one coat of apoxy primer and two coats of best quality epoxy paint, reflectorised with retro reflective sheeting as per latest MOST specifications. 3.1mt. lomg stand post & frame fabricated from suitable size iron angle of 35x35x3 mm., 75x75x6mm. required painted with best quality epoxy coatings in black and white bends, the detail of symbols for each board shall be as per the instruction of the engineer in charge. The fixing at site shall be in C.C. 1:2:4 block of size 45x45x60 cms for each leg, incl. excavation, curing etc. comp. under the supervision of Engineer - in charge. (A) Engineer Grade	4.00	One No	3808.65	15234.60

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
38	Cautionary Warning Sign-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 90 x 190 x 90 cms. equilateral triangle 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 reflectivesheeting of Type-4 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.6mtr 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 35 x 35 x 3mm; painted with bestquality 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 blockof 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. (B) Class-B Type-4 Retro Reflective sheeting	2.00	One No	3906.18	7812.36
39	Facility Informatory Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet/4mm ACP (Aluminum composite Panel); size 80 x 60 cms. 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 reflectivesheeting of Type-4 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.6mtr 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 35 x 35 x 3mm; painted with bestquality 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 blockof 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. (B) Class-B Type-4 Retro Reflective sheeting.	2.00	One No	3990.64	7981.28

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
40	Hazard Marker Sign :-Providing and fixing sign boards made out of 2.0 mm aluminium sheet / 4 mm ACP (Aluminum composite Panel); size 90x30 cms. rectangular as per design of IRC-67-2012. Pre treated with phospheting 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 reflectivesheeting of Type-4 as per ASTM D-4956 and latest M.O.S.T.Specifications; 1.8mtr 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 35 x 35 x 3mm; painted with bestquality 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 blockof 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. (B) Class-B Type-4 Retro Reflective sheeting	2.00	One No	3518.69	7037.38
One Crore Nine Lakh Sixty Four Thousand Fifty Five Rupees And Forty Seven Paisa					10964055.47

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.....

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 143103.16 of Dismantalled materials shall be recovered from 1st R.A. bill of Contractor at once.**

Signature of Contractor.

Deputy Executive Engineer  
Panchayat R&B Sub Division  
Mahuva

Executive Engineer  
Panchayat R&B Division  
Bhavnagar