

Name of work :- Construction of CD Works on Jaliya to Kanad Road Bet. Ch.2/200-2/400 (MDR)
Ta.Shihor, Dist.: Bhavnagar. (Under MMGSY-Normal-2025-26)

BILL OF QUANTITIES

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate	Amount
1	Clearing and grubbing of road land incl.uprooting rank vegetation, grass, bushes, shurbs, 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.	0.08	One Hect.	28455.09	2276.41
2	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%)	188.00	One Cum	169.16	31802.08
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.	74.00	One Cum	1416.80	104843.20
4	Rolling and Watering of earthwork in layers with vibratory roller including filling in depression which occur during the process as directed.	188.00	One Cum	23.17	4355.96
5	Excavation for foundation upto 1.5m depth including sorting out and stacking of useful materials and disposing of the excavated stuff upto all lead. Dense or hard soil.	68.00	One Cum	259.93	17675.24

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6	Excavation for foundation upto 1.5m depth including sorting out and stacking of useful materials and disposing of the excavated stuff upto all lead. Hard Murrum	47.00	One Cum	442.90	20816.30
7	Excavation of foundation in hard murrum and boulders and very stiff or sticky clays and other similar strata including shorting out and strutting and dewatering as necessary and disposing of the excavated stuff as directed.	585.00	One Cum	625.88	366139.80
8	Excavation in large boulders and soft rock by wedging including shoring, strutting and dewatering as necessary and disposing of the excavated stuff as directed,	281.00	One Cum	733.62	206147.22
9	Excavation in hard rock by dry-wet blasting and chiseling including dewatering preparing foundation base by proper benching and stepping and disposing of the excavated stuff as directed (B) Blasting prohibited.	76.60	One Cum	1715.19	131383.55
10	Providing and fixing Mild steel dowel bar of minimum 32mm dia. For anchoring by drilling holes in foundation strata including necessary bending, hooking of dowel bars and grouting the holes complete as per detailed drawing and as directed.	72.00	One Rmt.	450.07	32405.04
11	Providing and laying rubble for apron (Each stone weighting not less than 40kg) including and packing and filling in the interstices with quarry spall.	215.00	One Cum	1092.52	234891.80
12	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.	438.30	One Cum	3938.30	1726156.89
13	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.	155.00	One Cum	3362.24	521147.20

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate	Amount
14	Providing and casting in situ Ordinary Cement Concrete M-150 for R.C.C. Raft and cut-off walls including necessary shuttering laying, vibrating ramming of curing complete.	23.00	One Cum	3816.61	87782.03
15	Providing and casting in situ Controlled cement concrete M-200 for R.C.C. work in Piers, abutment, returns and riding returns as per drawing including centering, shuttering, scaffolding where necessary laying, vibrating curing and finishing complete (A) For all Height	492.10	One Cum	5247.04	2582068.38
16	Providing and casting in situ Controlled Cement concrete M 25 mix for R.C.C. works in pier cap, abutment cap, and dirt wall including controlled cement concrete M 30 bed block or pedestals for required size below bearings as per detailed drawings, centering, shuttering, scaffolding wherever necessary laying, vibrating, curing and finishing complete.	25.10	One Cum	5432.96	136367.30
17	Providing and casting in situ Controlled cement concrete M 25 for R.C.C. Solid slab including centering, scaffolding, curing and finishing complete.	95.30	One Cum	5294.73	504587.77
18	Providing and casting in situ Controlled cement concrete M-30 mix for various thick wearing coat laid as directed including tamping, vibrating, finishing, curing and filling in joints with bitumen complete.	83.00	One Cum	5584.56	463518.48
19	Providing and casting in situ Controlled cement concrete- M-25 mix for Approach slab including formwork, curing and finishing complete.	21.80	One Cum	5284.13	115194.03
20	Providing and casting in situ Controlled cement concrete- M-25 mix for kerbs/Kerb blocks including formwork, curing and finishing complete.	5.40	One Cum	4992.64	26960.26
21	Providing and laying weep hole in Abutment and returns by using A.C/PVC pipe of 100mm. Incl. fixing in proper grade and jointing the complete as per detailed specification.	53.00	One No	355.52	18842.56

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate	Amount
22	Providing and laying filter media 600mm. thick directed at the back of abutments, returns and wing walls as per detailed specifications.	52.40	One Sqm	1268.86	66488.26
23	Providing and fixing in position Mild steel dowel bars in pier cap or abutment caps for anchorage in fixed end as per detailed drawings including cutting bending and welding complete.	18.00	One No	341.29	6143.22
24	Providing and fixing in position Mild steel dowel bars in pier cap or abutment caps for anchorage in free end as per detailed drawings including cutting bending and welding complete.	18.00	One No	399.70	7194.60
25	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.	7.620	One MT	73858.69	562803.22
26	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.	11.560	One MT	73243.02	846689.31
27	Construction of Precast R.C.C. railing of M 30 grade concrete having 2-tire (Raw) of hand rail dimension as shown in detail drawing & vertical post such as c/c pacing between vertical post 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,	64.00	One Rmt.	2154.33	137877.12
28	Providing 12mm. Thick Pre-moulded asphalt filler joints as per drawings	48.50	One Sqm	703.53	34121.21
29	Providing PVC 100mm. Diameter water spouts including necessary iron gratings as per drawings.	18.00	One No	159.37	2868.66

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate	Amount
30	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.	516.00	One Cum	137.47	70934.52
31	Supplying and fixing reinforced concrete heavy duty non pressure pipes with collars for culverts carrying heavy traffic as per IS 458-1991 specification including setting and joining the pipes in C.M. 1:2 watering and laying (to level or slope) of I.S. Class NP-3 of following internal diameter with all lead and lift. (i) 900mm Dia.	15.00	One Rmt.	3469.25	52038.75
32	Supplying and fixing reinforced concrete heavy duty non pressure pipes with collars for culverts carrying heavy traffic as per IS 458-1991 specification including setting and joining the pipes in C.M. 1:2 watering and laying (to level or slope) of I.S. Class NP-3 of following internal diameter with all lead and lift. (i) 1200mm Dia.	22.50	One Rmt.	5560.00	125100.00
33	Providing temporary diversion suitable for traffic during the construction period of the Bridge/Box Structure work by levelling existing ground and constructiong suitable compacted embankment, alweather road surface with providing, laying & consolidation of 200mm WBM in layers proper carriage width with safety measures maintain for motorable road throughout construction period etc. and also dismantle diversion after completion of work etc. complete as per instrucion of Engineer-in-charge.	100.00	One Rmt.	2246.24	224624.00

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate	Amount
34	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
35	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 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; 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	Amount
36	Providing and erecting a "W" metal crash barrier comprising of 3mm thick corrugated sheet metal beam rail, 70cm above Road/Ground level, fixed on ISMC series channel vertical post, 150x75x5mm spaced 2m center to center, 1.8m high, 1.1m below ground/road level, all steel parts and fittings to be galvanized 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 150x75x5mm, 330mm long complete as per clause 810.	80.00	One Rmt.	3468.34	277467.20
37	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.	362.60	One Smt.	253.51	91922.73
38	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	879.00	One Smt.	233.31	205079.49
Rupees One Crore Sixty One Thousand Seven Hundred Thirty Two And Paise Forty Four Only					10061732.44

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.

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate	Amount
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* 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.

Signature of Contractor.

Deputy Executive Engineer
Panchayat R&B Sub Division
Shihor

Executive Engineer
Panchayat R&B Division
Bhavnagar