

**Construction of C.C.Road (Suvidhapath) on Kanja to Mota Kajliyala Road MDR (Village-Kanja - 0.400 Mt.)Ta.Vanthali  
Dist.Junagadh**

**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.	0.17	One Hect.	28455.09	4837.37
2	Box cutting the road surface to proper slope and camber for making a base for road work including removing the excavated stuff and depositing on the road side slopes as directed upto 50 Mt. lead	835.00	One Cum	109.41	91357.35
3	Water Bound Macadam Grading 2 (By Manual Means) 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 density .	340.00	One Cum	1467.83	499062.20
4	Supplying and fixing reinforced concrete heavy duty nonpressure pipes with collars for culverts carrying heavy traffic as per IS 458 - 1991 specifications including setting the pipes in C.M. 1:2 watering and laying (to level or slopes) of I.S. class NP3 of following internal dia. 300mm.	120.00	One Rmt.	659.99	79198.80
5	Dismantling the existing structure including removing and stacking the dismantled materials as and where directed. RCC Work.	322.00	One Cum	930.35	299572.70
6	Dry Lean Cement Concrete Sub base (Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 220 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a fixed form paver or conventional method, compacting with 8-10 tonnes vibratory roller, finishing and curing etc.) (As per standard databook for roads & bridges - MORTH Specification Clause 601)	314.00	One Cum	2572.26	807689.64
7	Cement Concrete Pavement M-25 (Construction of unreinforced, dowel jointed, plain cement concrete pavement over a prepared sub base with 53 grade cement @ 380 kg per cum, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing.) (As per standard databook for roads & bridges - MORTH Specification Clause 601)	506.00	One Cum	6593.68	3336402.08

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
8	Providing and fixing pre-cast Rubber Dye / steel Dye inter locking concrete block 60mm thick with grade of concrete M300 pneumatic compressed / vibrated mechanically and as per approved design Confirming to IS 15658 : 2006 including 35 mm Sand layer for levelling and filling the joint with sand in proper line and level as per guidelines of IRC : SP 63-2018 etc. Complete	920.00	One Sqm	706.92	650366.40
9	Supplying and fixing Junction Boards of M.S. plates and angles as per I.R.C. design incl;. Fixing in C.C. 1:4:8 with necessary excavation painting, figuring, lettering on boards etc. complete.	1.00	One No	5236.69	5236.69
10	Providing and fixing Village name Boards as per standard I.R.C. type design of steel plate incl. painting, lettering etc. complete with fixing in C.C. 1:4:8 block with necessary excavation etc. complete	1.00	One No	3437.59	3437.59
11	Citizen's Information Board- Providing and fixing of typical MMGSY information board as per instruction. Two M.S. sheets of 3 mm thick of 900mm x 750mm size fixed at top & bottom duly rivetted with MS angles of 25x25x5mm thick M.S. angle shall be welded by two vertical M.S. angle of 5mm thick to 75mm x 75mm of 12 SWG square tubes posts duly embedded in cement concrete M-15 grade blocks of 600mm x 600mm x 750mm below ground level. The letters & figure of any shade reflectorised with high intensity prismatic grade retro reflective sheeting of Type-4 as per ASTM D-4956 and latest MORD specifications; All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paints as per drawing Clause 1701 and Annexure 1700.1 (10.16). (A) Class-B high intensity grade retro reflective sheeting.	1.00	One No	8460.77	8460.77
12	Road Marking with Hot Applied paints with reflectorising glass beads on bitumin surface providing and laying a hot applied thermoplasting compound 2.5mm thick including reflectorising glass beads @250 gm per sq.mtr area, thickness of 2.5mm is excluding of surface applied glass beads as per IRC:35-2015 the finished surface to be level, uniform and free from streaks and holes, zebra patta/bump/centerline/edge line/ cut patta. the while color marking should provide liminance coefficient on cement road shall be min. 130 mcd/m2/lux and asphalt road shall be min 100 mcd/m2/lux during the survice life during the date the marking should meet the performanace criteria for night time reflectivity, wet reflectivity and skid resistance as mentioned in the section-15 of IRC 35-2015 warranty for retroreflectivity shall be two years.	111.00	One Sqm	367.72	40816.92

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
13	Cat Eye / Road Stud / RPM: Supplying of Molded Twin Shanks Raised Pavement Markers made of polycarbonate and ABS moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 13635 kgs. tested in accordance to ASTM D 4280 Type H and complying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 DO III Dt 11.06. 1997. the height, width and length shall not exceed 20 mm, 130 mm and 130 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 +/-5 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 +/- 2 mm and height not less than 30+/-2 mm) from the body is to be a minimum value of 500 Kgf. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturers recommendation and The color of the marker should be as per the IRC 35-2015 and as directed by Engineer-in-charge.	138.00	One No	326.23	45019.74
14	Providing and fixing suvidhapath logo board of two M.S. sheets of 3mm thick of 900mm * 750mm size fixed at top & bottom duly rivetted with MS angles of 25 * 25 * 5mm thick M.S. angle shall be welded by two vertical M.S. angle of 5mm thick to 75mm * 75mm of 12 SWG square tubes posts duly embedded in cement concrete M-15 grade blocks of 450mm * 450mmx 600mm below ground level. The letters & figure of any shade reflectorised with high intensity prismatic grade retro reflective sheeting and all sections of framed posts and steel tube will be painted with primer and two coats of epoxy paints directed as per instruction of engineer in-charge.	1.00	One No	6981.12	6981.12
Fifty Eight Lakh Seventy Eight Thousand Four Hundred Thirty Nine Rupees And Thirty Seven Paise					5878439.37

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 33488 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  
Junagadh-2

Executive Engineer  
Panchayat R&B Division  
Junagadh