

**Resurfacing of Nerana Chhatrava Road Ch.0/0 to 1/850 Ta.Ranavav Dist.Porbandar (Kisanpath ~2023-24 )****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.	1.00	One Hect.	28455.09	28455.09
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 all lead	1325.00	One Cum	114.44	151633.00
3	Providing and laying compacted W.B.M. 75mm thick (Grade -II) of Machine crushed BT metal of size of 40-63 mm with 16% stone screening 13.20 mm size binding materials at 0.08Cum/10Sqm including spreading, watering and consolidation by vibratory roller etc. complete.	1136.00	One Cum	1327.20	1507699.20
4	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing of the excavated stuff upto all lead. Dense or hard soil.	52.00	One Cum	265.97	13830.44
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 3.0 M and lead upto 100m for 10 cum	1150.00	One Cum	535.45	615767.50
6	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 (A) Height 0.0 M to 5.0 M	1801.80	One Cum	3954.98	7126082.96
7	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.	937.00	One Cum	3378.92	3166048.04
8	Providing and casting in situ Controlled cement concrete M-250 mix for average 75mm thick wearing coat laid as directed including tamping, vibrating, finishing, curing and filling in joints with bitumen complete.	204.00	One Cum	5445.65	1110912.60
9	Providing and laying weep hole in Abutment and returns by using A.C pipe of 100mm. Including laying in proper grade and jointing the complete as per detailed specifications.	128.00	One No	90.82	11624.96
10	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	17.700	One MT	73858.69	1307298.81

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11	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 (C) RCC App. Slab (D) Wearing coat.	33.690	One MT	73243.01	2467557.01
12	Filling around the pipes with murrum including dressing, tampering etc. complete	3637.00	One Cum	88.72	322674.64
13	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.	352.00	One Cum	137.47	48389.44
14	Supplying and Fixing reinforced concrete heavy duty non-pressure pipes with collars for culverts including setting and joining the pipe in C.M. 1:2 watering and laying (to level or slope) of I.S. class NP3 of following internal diameters. (V) 600mm Dia.	150.00	One Rmt.	2083.27	312490.50
15	Demolition including stacking of serviceable materilas and disposal of unserviceable materials with all lead and lift. (i) R.C.C. work	825.00	One Cum	1133.88	935451.00
16	Providing & Cating in situ controlled cement concrete M-250 mix with trimix C.C. Road laid as directed including temping, vibrating, finishing, curing and filling joint with bitumen etc as Directed and approved by engineer in charge.	1514.00	One Cum	5944.27	8999624.78
17	Providing and fixing Hectometer of pecast C.C. 1:2:4 including necessary reinforcement as per I.R.C. type design including painting lettering and etc. complete. (II) Fixing in C.C. 1:5:10	8.00	One No	356.49	2851.92
18	Providing and fixing guard stone as per IRC type design including white washing etc complete (i) Fixing in C.C. 1:5:10	18.00	One No	350.80	6314.40
19	Providing and fixing ordinary Kilometer stone of pre-cast C.C. 1:2:4 including necessary reinforcement as per I.R.C. type design in C..C. 1:4:8 including painting lettering etc. complete.	2.00	One No	704.33	1408.66
20	Providing and fixing indicator stone of approved stone as per I.R.C. type design in C.C. 1:4:8 including white washing etc. complete.(ii) Fixing in C.C. 1:5:10	93.00	One No	343.26	31923.18
21	Supplying and fixing road sign board of M.S. plate and angle IR including painting, lettering etc complete including fixing in CC 1:4:8 with necessary excavation etc. complete as per IRC Type design (II) Reflective Type.	4.00	One No.	3072.98	12291.92

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
22	Citizen information Boards. Providing and fixing of Typical information board as per instruction Two ACP sheets of 3mm thick of 900mm x 750mm size fixed at top & bottom duly rivetted with MS angles of 25 x 25 x 5mm thick MS angle shall be welded by two vertical M.S. angle of 5mm thick to 75mm x 75mm pf 12SWG square tubes posts duly embeded in cement concrete M-15 grade blocks of 600mm x 600mm x 750mm below ground level. The letters and figures of any shade reflectorised with High Intensity Prismatic Grade Retro Reflective Sheeting of TYPE-4 as per ASTM D-4956 and latest MORD specification; All sections of framed posts and sheet tube will be painted with primer and two coats of epoxy paints as per drawing Clause 1701 annexure 1700.1(10.16) (A) Class-B High intensity Grade Retro Reflective Sheeting.	1.00	One No	8575.79	8575.79
23	Road marking with hot applied thermoplastic paints with reflectorising glass beads on bitumin surface providing and laying a hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250gms per sqm area, thickness of 2.5mm is excluding of surface applied glass beds as per IRC:35-2015. The finished surface to be level, uniform and free from streaks and holes. zebra patta/bump patta lane/center line/ edge line/cut patta. The white color marking should provide liminance coefficinet on cemend road shall be min 130 mcd/m2/lux and Asphalt road shall be min 100 mcd/m2/lux during the service life during the day time. The marking should meet the performance criteria for night time reflectivity, wet reflectivity and skid resistance as mentioned in the section-15 of IRC 35-2015. Warranty for the Retro reflectivity should be two years.	385.00	One Sqm	367.72	141572.20

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
24	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.	450.00	One No	326.23	146803.50
25	Village Name / Bump Ahead Sign: Providing and fixing sign board made out of 2 mm Aluminium sheet: Size 90 x 60 Cms rectangle as per design of IRC 67-1977. Pretreated with phosphating 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 MOST specification: 3.1 M Long (2 Nos) Stand Post and frame fabricated from suitable size iron angle of 50 x 50 x 5 mm painted with best quality epoxy coatings in black and white bends the details of symbol on 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 x 45 x 60 Cms for each legs including excavation, curing etc. complete under the supervision of Engineer In Charge (A) Engineer Grade	2.00	One No	5045.36	10090.72

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
26	Hazard Marker Sign :-Providing and fixing sing boards made out of 2mm aluminium sheet; size 90 x 30cms. rectangle as as per the design/drawing attached (IRC) pretreated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint; reflectorised with retro refiective sheeting as per latest M.O.S.T. Specifications; 3.1m long stand post and frame fabricated from suitable size iron angle of 35 x 35 x 3mm & 50 x 50 x 5mm painted with best quality epoxy coatings The fixing at site shall be in 1:2:4 CC block of size 45x45x 60cms. for each leg. including excavation curing etc. complete under the supervision of engineer in charge. (A) Engineer Grade	18.00	One No	2423.73	43627.14
27	Chevron sign-Providing and fixing sign boards made out of 1.5mm aluminium sheet / 3mm ACP (Aluminum composite Panel); size 60x50cm 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; 3.3 mtr 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 35x35x3mm; painted with bestquality epoxy coatings in black and white bends, the details of symbol 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 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. (A) Class-B Type-4 Retro Reflective sheeting	12.00	One No	3711.75	44541.00
Two Crore Eighty Five Lakh Seventy Five Thousand Five Hundred Forty Rupees And Forty Paia					28575540.40

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.....

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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 216562.5 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  
Porbandar

Executive Engineer  
Panchayat R&B Division  
Porbandar