

Name of Work :-**Patan-Deesa Road Km.118/200 to 118/600 (Near Chakkar Major Bridge) (Diversion Work), Dist.Patan****Bill of Quantity**

It No.	Quantities estimated but may be more or less	Item of Work	Estimated Rate		Unit	Total Amount According to Estimated Qty.
			Rs. In Figures.	In Words		
1	2	3	4	5	6	7
1	11,785.00	Earthwork for embankment with soft murrum including breaking clods, dressing with all lead and lift and including watering rolling and consolidation of subgrade in layers at O.M.C. to required dry density including filling the depression which occur during the process using power roller 8T to 10T. (E) From Borrow area	186.39	Rupees One Hundred Eighty Six And Paise Thirty Nine Only	Cum	2,196,606.15
2	336.00	Construction of granular Sub base 100 mm thick by providing coarse graded material BTMC using metal 53 mm to 26.5 mm@ 27.5%, aggregate 26.5 mm to 9.5 @ 22.5%, aggregate 9.5 mm to 4.75 mm @ 10% and stone dusts 4.75 mm & below @ 40% including spreading in uniform layers with motor grader on prepared surface mixing by mix in place method with rotavator at OMC and compacting with vibratory roller to achieve the desired density complete as per Clause 401.2 Table 400.1 grade-I	1,395.40	Rupees One Thousand Three Hundred Ninety Five And Paise Forty Only	Cum	468,854.40
3	579.00	Construction of granular Sub base 150 mm thick by providing coarse graded material BTMC using metal 26.5 mm to 9.5 mm @ 68%, 9.5 mm to 4.75 mm @ 12% and 4.75 & below @ 20% spreading in uniform layers with motor grader on prepared surface mixing by mix in place method with rotavator at OMC and compacting with vibratory roller to achieve the desired density complete as per Clause 401.2 Table 400.1 grade-III.	1,474.32	Rupees One Thousand Four Hundred Seventy Four And Paise Thirty Two Only	Cum	853,631.28
4	840.00	Providing and laying spreading and compacting graded stone aggregate to wet mix macadam 250 mm thick as per MORT&H specification including pre mixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tippers to site, laying in uniform layers with paver in sub base/ base course on well prepared surface and compacting with vibratory roller to achieve the desire density.	1,677.56	Rupees One Thousand Six Hundred Seventy Seven And Paise Fifty Six Only	Cum	1,409,150.40
5	3,000.00	Providing & laying priming coat with emulsion SS-1 grade and spraying emulsion with spray set fitted on mechanical buzzer using emulsion at the rate of 7.5 Kg./10 Sqm. On WMM surface incl. cleaning the surface etc. complete.	95.59	Rupees Ninety Five And Paise Fifty Nine Only	Sqm	286,770.00

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1	2	3	4	5	6	7
6	330.00	Providing and laying 50 mm Thick Bituminous Macadam B.T. Aggregate as per MORT & H specification and VG - 30 for tack coat @ 2.50 Kg./10 smt. with Mechanical sprayer & Bitumen Grade (VG-30) for mixing @ 34 Kg./Mt. i.e. 3.40 % by weight of total mix including heating and mixing the aggregate & asphalt in continuous batch mix plant and spreading the same by sensor paver finisher & consolidation with vibratory roller including providing all materials equipment's, tools & plant, fire wood, oil, kerosene, labour charges etc. complete using contractor's own machinery drum mix plant & paver finisher etc. complete	3,852.97	Rupees Three Thousand Eight Hundred Fifty Two And Paise Ninety Seven Only	MT	1,271,480.10
7	173.00	Providing and laying 25 mm thick (Compacted) Semi dance Bituminous concrete on exiting bituminous surface and using specified graded black trapped machine crushed aggregate with 5% Bitumen VG-30 - 60/70 grade bitumen by Wt. of total mix as per MORTH specification including heating and mixing of asphalt with B.T. chips in continuous batch mix plant and transporting same at site and spreading by sensor paver finisher and consolidation the same with pair of 8 tones to 10 tones vibratory roller to achive desire density and including flusing the stone dust @0.03 cum/10smt including cost of required tools , plants, all machineries, equipment fire wood , oil, kerosene, charges etc. complete.	4,798.29	Rupees Four Thousand Seven Hundred Ninety Eight And Paise Twenty Nine Only	MT	830,104.17
8	1,460.00	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	208.23	Rupees Two Hundred Eight And Paise Twenty Three Only	Cum	304,015.80
9	476.00	Providing and filling in foundation with ordinary Cement concrete M-100 mix and providing necessary vertical pin headers including formwork, vibrating, ramming and curing complete	3,147.48	Rupees Three Thousand One Hundred Forty Seven And Paise Forty Eight Only	Cum	1,498,200.48
10	1,415.00	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 and curing complete.	3,573.53	Rupees Three Thousand Five Hundred Seventy Three And Paise Fifty Three Only	Cum	5,056,544.95
11	12,345.00	Providing TMT Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level	77.29	Rupees Seventy Seven And Paise Twenty Nine Only	Kg.	954,145.05

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1	2	3	4	5	6	7
12	165.00	Supplying and fixing reinforced concrete heavy duty non-pressure 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 class NP3 of following internal daimeters.(vii) 1200mm dia.	5,560.01	Rupees Five Thousand Five Hundred Sixty And Paise One Only	Rmt	917,401.65

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1	2	3	4	5	6	7
13	140.00	Providing and laying rubble for apron (each stone weighting not less than 40Kg.) including and packing and filing in the interstices with quarry-spalls.	1,000.78	Rupees One Thousand And Paise Seventy Eight Only	Cum	140,109.20
14	840.00	Providing and laying Pitching on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and Technical specifications	1,051.41	Rupees One Thousand Fifty One And Paise Forty One Only	Cum	883,184.40
15	150.00	Providing and casting in site Controlled cement concrete M-200 for average 250 mm thick as directed including compacting with surface mechanical screed vibrating, mechanical floater, channeling form work and grooving including filling asphalt filer joint including dowel bar ,tie bar expansion, construction and construction joint as per instruction engineer in charge.	4,778.86	Rupees Four Thousand Seven Hundred Seventy Eight And Paise Eighty Six Only	Cum	716,829.00
16	1,560.00	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 shalll 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.	367.72	Rupees Three Hundred Sixty Seven And Paise Seventy Two Only	Sqm	573,643.20

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1	2	3	4	5	6	7
17	962.00	Cat Eye / Road Stud/ RPM: Supplying Raised Pavement Markers made of polycarbonate and ABS moulded body and reflective panels with Micro prismatic lens (No Glass bead 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 D 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 body of the marker should having finger grip for easy and accurate placement and application with epoxy / bituminous Adhesive as recommended by the manufacturer of the marker. The color of the marker should be as per the IRC 35-2015 and as directed by Engineer-in-charge.	217.40	Rupees Two Hundred Seventeen And Paise Forty Only	No.	209,138.80
18	4.00	Hazard Marker Sign :-Providing and fixing sign boards made out of 2.0 mm aluminum sheet/ 4 mm ACP (Aluminum composite Panel); size 90x30 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 ;reflectorized with Micro Prismatic Grade retro reflective sheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T. Specifications; 1.8mtr long stand post of 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 best quality epoxy coatings in black and white bends. The details of symbol foreach 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 leg. Including excavation, curing etc. Complete under the supervision of engineer in charge. A warranty for 10 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-C Type-11	3,666.30	Rupees Three Thousand Six Hundred Sixty Six And Paise Thirty Only	No.	14,665.20

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1	2	3	4	5	6	7
19	4.00	Regulatory/ Mandatory Sign :-Providing and fixing sign boards made out of 2mm aluminum sheet / 4mm ACP (Aluminum composite Panel); size 60 ems Dia Circle 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 ;reflectorized with Micro Prismatic Grade retro reflective sheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T. Specifications; 3.6mtr long stand post of 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 best quality epoxy coatings in black and white bends. The details of symbol foreach 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 leg. including excavation, curing etc. complete under the supervision of engineer in charge. A warranty for 10 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-C Type-11 Retro Reflective sheeting	4,618.73	Rupees Four Thousand Six Hundred Eighteen And Paise Seventy Three Only	No.	18,474.92
20	10.00	Chevron sign (Double) :-Providing and fixing sign boards made out of 1.5mm aluminum sheet/ 3mm ACP (Aluminum composite Panel); size 2 No of 60x50 cm 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 ;reflectorized with Micro Prismatic Grade retro reflective sheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T. Specifications; 3.3 mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; painted with best quality 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 block of 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 10 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	4,681.35	Rupees Four Thousand Six Hundred Eighty One And Paise Thirty Five Only	No.	46,813.50

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21	136.00	Wall painting (two coats) with plastic emulsion paint of approved brand (Asian/Birla ISI or similar etc.) and manufacture on undecorated wall surface to give an even shade including throughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.	88.39	Rupees Eighty Eight And Paise Thirty Nine Only	Sqm	12,021.04
22	3.00	Sign board per Square Meter :-Providing and fixing sign boards made out of 2mm aluminum sheet / 4mm ACP (Aluminum composite Panel); size 1meter x1 meter 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 ;reflectorized with Micro Prismatic Grade retro reflective sheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T. Specifications; 4 mtr long stand post (2 No.) of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; painted with best quality 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 block of 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 10 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-C Type-11 Retro Reflective sheeting	12,310.89	Rupees Twelve Thousand Three Hundred Ten And Paise Eighty Nine Only	Sqm	36,932.67

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1	2	3	4	5	6	7
23	2.00	Diversion Ahead Sign :-Providing and fixing sign boards made out of 2mm aluminum sheet / 4mm ACP (Aluminum composite Panel); size 180x60 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 ;reflectorized with Micro Prismatic Grade retro reflective sheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T. Specifications; 3.1 mtr long stand post (2 Nos.) of 50 x 50 x 5mm / 50NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with best quality epoxy coatings in black and white bends. The details of symbol foreach 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 leg. Including excavation, curing etc. Complete under the supervision of engineer in charge. A warranty for 10 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-C Type-11 Retro Reflective sheeting	10,671.66	Rupees Ten Thousand Six Hundred Seventy One And Paise Sixty Six Only	No.	21,343.32
24	129.00	Providing and fixing guard stone as per I.R.C. type design including white washing etc. complete. (i) Fixing in Earth	108.49	Rupees One Hundred Eight And Paise Forty Nine Only	No.	13,995.21

Total ₹. 18,734,054.89

I / We am / are willing to carry out the work at % Above / Below percent (Should be written in figures and words) of the estimated rates mentioned above. Amount of my / our tender works out as under.

*

Estimated Amount

Put to Tender Rs.....

Add % Above Rs.....

Net Rs.....

In words

.....

*

Estimated Amount

Put to Tender Rs.....

Deduct % Below Rs.....

Net Rs.....

In words

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* (Please strike out whichever is not applicable)

Note 1 :- All work shall be carried out as per public works department Handbook and other specifications of Division or as directed.

Note 2 :- All the columns is Schedule should be filled in ink and the total of the entries in the last column should be struck by the contractor under his signature.

Note 3 :- Rates quoted include clearance of site (prior commencement of work and at its close) in all respects and hold good for work under all conditions, site, moisture, weather etc.

Note 4 :- To be continued on additional sheets, if found necessary.

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			Rs. In Figures.	In Words		
1	2	3	4	5	6	7

Dated Signature of the contractor

**Deputy Executive Engineer
Road & Building Sub Division
Siddhpur**

**Executive Engineer
Road & Building Division
Patan**