

**Name of Work:- Construction of Amra-Shapar Road of Jamnagar Taluka under MMGSY Yojana
Package No. JAM/ BUJ/ MMGSY/ NP/2021-22/P-10 (Remaining Work)**

Taluka : Jamnagar

Dist: Jamnagar.

Memorandum showing the Items of Work to be carried out

Item No.	Quantities estimated but may be	Item of work	Estimate Rates		Unit	Total amount according to estimated
			In figures	In words		
1	2	3	4	5	6	7
1	688.41	Earthwork for embankment from borrow area including breaking clods, dressing with all lead and lift (excluding watering and consolidation) for all lead and lift.	165.64	Rupees One Hundred Sixty Five And Paise Sixty Four Only	Cum.	114028.23
2	498.00	Earthwork for embankment from borrow pits including breaking clods, dressing with all lead and lift (excluding watering and consolidation) for all lead and lift.	66.05	Rupees Sixty Six And Paise Five Only	Cum.	32892.90
3	1318.41	Rolling and watering of earthwork in layers with power roller including filling in depression which occur during the process as directed.	17.77	Rupees Seventeen And Paise Seventy Seven Only	Cum.	23428.14
4	63.48	Providing and laying Granular Sub Base Grade-I C.B.R. not less than 30% by Providing close graded materials , consisting of B.T. crushed stone aggregates 53mm to 9.5mm @ 50%, 9.5mm to 2.36mm @ 20%, 2.36mm to below @ 30% coarse sand combination and stone dust /Grit spreading in uniform layers with motor grader on prepared surface mixing by mix in place method with rotovator at OMC to required dry density including filling the depressions which occurred during the process using vibratory roller 8-T to 10-T complete as per Clause-401.	608.40	Rupees Six Hundred Eight And Paise Forty Only	Cum.	38621.23

Item No.	Quantities estimated but may be	Item of work	Estimate Rates		Unit	Total amount according to estimated
			In figures	In words		
1	2	3	4	5	6	7
5	232.50	supplying and stacking of crushed stone aggregates , chippings etc of hard stone of 40 to 63 mm size free of disintegrated pieces deleterious and organic mater (for W.B.M.) and grading as per IRC code with all lead.	491.32	Rupees Four Hundred Ninety One And Paise Thirty Two Only	Cum.	114231.90
6	48.50	supplying & stacking of crushed stone aggregates , chippings etc of hard stone of 6 to 10 mm on road side with all lead including filing measure boxes.	456.42	Rupees Four Hundred Fifty Six And Paise Forty Two Only	Cum.	22136.37
7	22.50	Supplying and stacking of stone dust as binding materials and filling in boxes with all lead and lift.	285.74	Rupees Two Hundred Eighty Five And Paise Seventy Four Only	Cum.	6429.15
8	281.00	Spreading the stone aggregates for soiling and W.B.M. including filling the interstices forming the surface to required camber and gradient as directed.	158.57	Rupees One Hundred Fifty Eight And Paise Fifty Seven Only	Cum.	44558.17
9	22.50	Spreading the stone dust /binding materials filling the gaps in metal and levelling to camber and gradient as directed.	93.62	Rupees Ninety Three And Paise Sixty Two Only	Cum.	2106.45
10	281.00	Rolling and consolidation of water Bound macadam using vibratory Road (Including watering).(layer not exceeding 100mm thickness)	75.75	Rupees Seventy Five And Paise Seventy Five Only	Cum.	21285.75

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1	2	3	4	5	6	7
11	13013.00	Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including cleaning of road surface and spraying primer @ rate of 0.60 Kg/Sqm using mechanical means.	18.18	Rupees Eighteen And Paise Eighteen Only	Sqm.	236576.34
12	976.00	Providing and laying 37.50mm thick built up spray grout in one layers using black crushed stone aggregate as per gradation and specification including using bitumen for tackcoat at the rate of 2.5Kg/10sqm on surface by mechanical sprayer and bitumen of VG-10 grade mixing at the rate of 19.90 Kg/MT by weight of total mix (i.e. 1.99%) including heating and mixing the aggregate and bitumen by continues batching drum mix plant, transporting the mix and spreading the same by paver finished and consolidation with vibratory roller including cost of all materials , fuel , labours, tools and plants using contractor's own drum mix plant and machineries etc complete.	1904.60	Rupees One Thousand Nine Hundred Four And Paise Sixty Only	MT.	1858889.60

Item No.	Quantities estimated but may be	Item of work	Estimate Rates		Unit	Total amount according to estimated
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1	2	3	4	5	6	7
13	684.00	Providing , laying and rolling of 25mm thick open graded premix bituminous carpet with BT aggregate as specified and using bitumen VG-10 for tackcoat at the rate of 2.5 Kg/10 Sqm on BT surface and using bitumen VG-10 for mixing with aggregate at the rate of 3.36% i.e. 33.60 Kg/MT of total mix including heating and mixing in drum mix plant, spreading the same with paver finisher and consolidation with vibratory roller including necessary fire wood , oil, lubricants, labor charges etc. using contractor's own drum mix planet and equipment, tools etc completed in accordance with the requirements of specification .	2717.22	Rupees Two Thousand Seven Hundred Seventeen And Paise Twenty Two Only	MT.	1858578.48
14	355.00	Providing and laying seal coat with B.T. aggregate as specified using aggregate at the rate of 0.18 cum/10 sqmt and bitumen Vg-10 for mixing with aggregate at the rate of 4.5% i.e. 45.00 Kg/MT of total mix including heating and mixing in drum mix plant and spreading the same by paver finisher and consolidation with vibratory roller including necessary fire wood, oil, lubricants , labour charges using contractor's own drum mix plant, machineries and equipment , tools etc complete in accordance with the requirement of specification.	3062.33	Rupees Three Thousand Sixty Two And Paise Thirty Three Only	MT.	1087127.15

Item No.	Quantities estimated but may be	Item of work	Estimate Rates		Unit	Total amount according to estimated
			In figures	In words		
1	2	3	4	5	6	7
15	282.00	Excavation for foundation in Dense or Hard Soil upto all depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto all lead and lift.	153.52	Rupees One Hundred Fifty Three And Paise Fifty Two Only	Cum.	43292.64
16	252.00	Excavation for foundation in Hard Murum upto all depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto all lead and lift.	261.59	Rupees Two Hundred Sixty One And Paise Fifty Nine Only	Cum.	65920.68
17	227.00	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.	2110.90	Rupees Two Thousand One Hundred Ten And Paise Ninety Only	Cum.	479174.30
18	761.00	Providing and casting in situ ordinary CC M-150 mix and providing necessary pin headers including shuttering scaffolding laying , vibrating , curing and finshing etc completer without V-Grooves for all height.	2590.56	Rupees Two Thousand Five Hundred Ninety And Paise Fifty Six Only	Cum.	1971416.16
19	91.00	Supplying and fixing reinforced concrete heavy duty 1200mm dia NP-3 pipes with collars for culverts including setting and joining the pipes in C.M. 1:2 watering and laying with all lead and lift.	4389.39	Rupees Four Thousand Three Hundred Eighty Nine And Paise Thirty Nine Only	Rmt.	399434.49

Item No.	Quantities estimated but may be	Item of work	Estimate Rates		Unit	Total amount according to estimated
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1	2	3	4	5	6	7
20	80.00	Providing and casting in situ ordinary cement concrete M-200 for average 100 mm thick wearing coat laid as directed including tamping ,vibrating, finishing, curing and filling in joints with bitumen complete.	3008.79	Rupees Three Thousand Eight And Paise Seventy Nine Only	Cum.	240703.20
21	11.47	Providing and laying in position FE 415 TMT bar reinforcement including cutting, bending, hooking and tying complete as per detailed drawings for all concrete items.	44193.43	Rupees Forty Four Thousand One Hundred Ninety Three And Paise Forty Three Only	MT.	506898.64
22	4.00	Providing and fixing flood gauge marks of C angle size 100mm x 50mm x 6mm thick of length 1.50mt height fixed in head wall 0.50mt and 1.00mt outside with painting and lettering as directed.	1502.76	Rupees One Thousand Five Hundred Two And Paise Seventy Six Only	No.	6011.04
23	250.00	Providing & laying weep hole in Abutments, and returns by using A.C. pipe of 100mm including laying in proper grede and jointing the completed as per detailed specification.	52.41	Rupees Fifty Two And Paise Forty One Only	No.	13102.50

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1	2	3	4	5	6	7
24	150.00	Providing and casting in situ ordinary trimix cement concrete M-250 for average 200mm thick road work laid as directed including adding super platisizer admixture of IS make and providing and laying M.S. side rail of road thickness with necessary nut bolts plates fixing as per width applying plate vibrator (electric or diesel) on channel compressor with vacuum dewatering system by using all necessary equipments and materials and machinery such as running screed vibrator on prelaaid M.S. channel for leveling ,Vacume pump, floating and power towelling etc with filling the joints with bitumen as directed etc complete.	3074.92	Rupees Three Thousand Seventy Four And Paise Ninety Two Only	Cum.	461238.00
25	5.00	Providing and fixing ordinary Kilometer stone of precast 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.	490.86	Rupees Four Hundred Ninety And Paise Eighty Six Only	No.	2454.30
26	16.00	Providing and fixing Hectometer fixing in C.C. 1:5:10 as per I.R.C. type design including painting, lettering etc. complete.	269.67	Rupees Two Hundred Sixty Nine And Paise Sixty Seven Only	No.	4314.72

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1	2	3	4	5	6	7
27	280.00	Providing and fixing guard stone in earth as per I.R.C. type design including white washing etc. complete.	62.62	Rupees Sixty Two And Paise Sixty Two Only	No.	17533.60
28	2.00	Providing and fixing Village name boards as per standard I.R.C. type design of steel plate including painting lettering etc. complete with fixing in C.C. 1:4:8 block with necessary excavation.	3593.58	Rupees Three Thousand Five Hundred Ninety Three And Paise Fifty Eight Only	No.	7187.16
29	169.00	Providing and fixing indicator stone fixing in earth of approved stone as per I.R.C. type design in C.C. 1:4:8 including white washing etc. complete.	110.09	Rupees One Hundred Ten And Paise Nine Only	No.	18605.21
30	2.00	Providing and fixing Junction board of M.S. plates and angles as per standard I.R.C. design including fixing in C.C. 1:4:8 with necessary excavation painting figuring and lettering on board etc. complete.	5193.42	Rupees Five Thousand One Hundred Ninety Three And Paise Forty Two Only	No.	10386.84

Item No.	Quantities estimated but may be	Item of work	Estimate Rates		Unit	Total amount according to estimated
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1	2	3	4	5	6	7
31	2.00	Providing and fixing of typical MMGSY Project informatory sign board with Logo as per MORD specifications and drawing. Three MS plates of 1.6mm thick, top and middle plate duly welded with MS flat iron 25 x 5mm size on back on edges. The lower plate will be welded with MS angle iron frame of 25mmx25mmx5mm , The angle iron frame of the lower most plate and Ifat iron frame of middle plate will be welded 2 nos. 75 x 75mm of 12SWG sheet tubes posts duly embedded in cement concrete M-15 grade block of 450 x 450x600mm , 600mm below ground level . The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12SWG steel plate tube . All M.S. will be stove enamelled on both sides. Lettering and printing arrows, board etc will be painted with ready mixed synthetic enamel paint of superior quality in required shade and colour. All sections of framed posts and steel tubes will be painted with primer and two coats of epoxy paints as per drawing clause 1701 and Annexure 1700.1	8769.60	Rupees Eight Thousand Seven Hundred Sixty Nine And Paise Sixty Only	No.	17539.20
32	12.00	Supplying and fixing Reflective type road sign board of M.S. plates and angle iron including painting, lettering etc. complete including fixing in C.C. 1:4:8 with necessary excavation etc. complete as per I.R.C. type design.	3196.65	Rupees Three Thousand One Hundred Ninety Six And Paise Sixty Five Only	No.	38359.80

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1	2	3	4	5	6	7
33	2.00	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 reflective 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.(B)High Intensity Grade	2935.06	Rupees Two Thousand Nine Hundred Thirty Five And Paise Six Only	No.	5870.12

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1	2	3	4	5	6	7
34	3.00	Informatory Signs :-Providing and fixing sing boards made out of 2mm aluminium sheet; size 80 x 60cms. rectangle as per the design of IRC-67-1977 pre treated with phospheting process & acid teching; coated with one coat of epoxyprimer and two coats of best qualityepoxy paint; reflectorised with retro reflective sheeting as per latest M.O.S.T. Specifications; 3.1m long stand postand frame fabricated from suitable sizeiron angle of 35 x 35 x 3mm75x75x6mm as required; painted with best qualityepoxy coatings in black and whitebends. the details of symbol for eachboard shall details of symbol for eachboard shall be as per the instruction ofengineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x45 x 60cms. for each leg. including excavation curing tec. complete under the supervision of engineer in charge.(A) Engineer Grade	3214.83	Rupees Three Thousand Two Hundred Fourteen And Paise Eighty Three Only	No.	9644.49
					Total Rs.	9779976.95

Rs Words: Rupees Ninety Seven Lakh(s) Seventy Nine Thousand Nine Hundred Seventy Six And Paise Ninety Five Only

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

Estimated Amount 9779976.95

Put to tender Rs.....
Add% Above Rs.....
Net Rs.....
In words

Estimated Amount 9779976.95

Put to tender Rs.....
Add% Below Rs.....
Net Rs.....
In words

Executive Engineer
Panchayat (R & B) Division
Jamnagar.

Signature of Contractor

Item No.	Quantities estimated but may be	Item of work	Estimate Rates		Unit	Total amount according to estimated
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1	2	3	4	5	6	7

Note :-

- 1 All work shall be carried out as per Public Works Department Handbook and other specifications of Division or as directed.
- 2 All the columns in 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.
- 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.
- 4 The contractor shall exhibit the board at site of work with the details of works, Tender amount and specification as per Govt. Circular No. BBG / 3277 / 1657 / N, Dt.26-4-78 and as per G.R.No. TNC -1090-24-C, Dt.18-11-91, as directed by Engineer-in-charge of the works, exhibit board at site of work, for which contractor is not entitled for any extra payment.
- 5 Contractor shall even " NIL " percentage, if no deduction is offered.
- 6 One percent of work done amount of this work shall be recovered from the contractor payment as " Labour Cess " in terms of the Gujarat Govt. gazette extra ordinary dt. 12/12/2004 implementation of building and other construction works.(Regulation of employment & condition of service act 1996.
- 7 Testing of materials shall be as per statement attached for quality control. The material shall be tested in GERI bill for the testing charge shall be paid by the Department and 1 % (One percent) of amount put to tender after deduction of cost of material as per schedule-A shall be recovered from the contractor's running Bill as per GR of R.& B. Dept. No.TNC / 1085 / 4 / C Dt. 20-12-91 & modified R.& B. Dept. Circular No.SSR / 10000092-IB-12910-C Dt.16-10-95.

Signature of Contractor :

D.E.E
Jamnagar

Executive Engineer
Panchayat (R & B) Division,
Jamnagar