

**Name of Work :- Annual Rates for Maintaining and Repairing Various Roads Works under (R.&B)
Sub Division Veraval, Dist. Gir Somnath (Road repairing by Supplying and Laying of Hotmix
Materials and other Misc. work)**

BILL OF QUANTITIES

Item No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate In Figure	Amount
[1]	Providing & laying priming coat with emulsion SS-1 grade and spraying emulsion with spray set fitted on mechanical bouzer using emulsion at the rate of 7.5 Kg./10 Sqm. On WMM surface incl. cleaning the surface etc. complete.	1.00	Sqm	97.59	97.59
[2]	Providing and applying Tack coat with bitumen VG-30 on prepared surface of B.T Surface including clearing the road surface and spraying tack coat of the rate of 2.50 Kg. / 10 Sq.Mt.	1.00	Sqm	23.13	23.13
[3]	Providing and laying Bituminous Spray grout (B.U.S.G.) base 75 mm thick with RS-1 Emulsion for tack coat at the rate of 2.5kg/10 smt on B.T. surface and B.T. stone aggregate as per required gradation with VG-30 asphalt 60/70 grade for mixing at the rate of 1.99 % i.e. 19.90 Kg/Mt by weight of mix-including heating and mixing the asphalt and aggregate in continuous batch mix plant and transporting the mix to site and laying the same by sensor paver finisher to require camber and grade and rolling with vibratory roller as per MORT&H specification including providing and laying uniform tack coat and using all necessary equipments,tools plants including cost of all materials firewood, oil lubricants labour charges etc. comp	1.00	MT	3079.27	3079.27
[4]	Providing and laying 75mm thick bitumen bound macadam in single layer on existing surface with tack coat of rapid setting bitumen emulsion @ 2.50 kg / 10 sqm. & asphalt VG-40 at the rate of 20.00 kg / 10 sqm with the layer of machine crushed black stone aggregate 40mm to 50mm size at the rate of 0.90 cum /10 sqm. with dry rolling and spreading key aggregate 12mm size at the rate of 0.18 cum / 10 sqm. with rolling and spreading the stone dust at the rate of 0.084 cum / 10 sqm including cost of rolling with vibratory roller, asphalt, fuel, kerosene, stone dust etc. complete.	1.00	Sqm	398.37	398.37
[5]	Providing and laying 50 mm Thick Bituminous Mecadam B.T. Aggregate as per MORT & H specification and RS-1 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 Dum mix plant and spreading the same by sensor paver finisher & consolidation with vibratory roller including providing all materials equipments, tools & plant, fire wood, oil, kerosene, labour charges etc. complete using contractor's own machinery drum mix plant & paver finisher etc. complete	1.00	MT	4233.92	4233.92

Item No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate In Figure	Amount
[6]	Providing and laying 50 mm D.B.M. with B.T. Aggregate as per MORT&H specification with Emulsion RS-1 for tack coat @ 2.5 Kg./10 smt. With Mechanical Sprayer & Bitumen VG-30 Grade for mixing @ 45.00 Kg./MT. ie. 4.5 % by total weight of mix heating and mixing the aggregate & asphalt in drum mix plant and transporting to site and spreading the same by sensor paver finisher & consolidation with vibratory roller including providing all materials equipments, tools & plant, fire wood, oil, kerosene, labour charges etc. complete using contractor's own machinery batch mix plant & sensor paver finisher etc. complete	1.00	MT	5125.04	5125.04
[7]	Providing and laying 25 mm thick (Compacted) Semi -dense Bituminous concrete on exiting bituminous surface RS-1 for tack coat @ 2.50 Kg./10 smt. with Mechanical sprayer and using specified graded black trapped machine crushed aggregate with 5% Bitumen Vg-40 grade bitumen by Wt of total mix as per MORTH specification including heating and mixing of asphalt with B.T. chips in Dum mix plant and transporting same at site and speading by sensor paver finisher and consolidation the same with pair of 8 tonnes to 10 tonnes 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.	1.00	MT	5719.63	5719.63
[8]	Providing and laying 40 mm thick Bituminous concrete on existing bituminous surface and using specification graded machine crushed with 5.50 % bitumen VG-40 grade by Wt. of total mix as per specification MORTH including mixing of asphalt with B.T. chips in continuous batch mix plant transporting same as by paver finisher and consolidation the same with pair of 8 tonnes to 10 tonnes vibratory roller to achieve desire density and including VG-40 grade bitumen, cost of emulsion, cost of required tools , plants, all machineries, equipment fire wood , oil, kerosene, charges etc. complete	1.00	MT	5780.23	5780.23
[9]	Providing and laying 20 mm thick Mixed seal surfaceing using stone chipping and aggregates as per M.O.R.&H gradation with bitumen Grade VG-40 @ rate 5.09% of weight mix i.e.50.90 Kg/M.T. including heating the asphalt and aggregate by Drum mix plant, transporting and mixed material and spreading the same by pavers finisher and consolidation by vibratory roller of 80 KN to 100 KN static weight including providing tools, plants, firewood, oil, kerosene, labour charges etc. complete	1.00	MT	4961.12	4961.12
[10]	Providing & Laying compacted various size of machine crushed B.T. metal of size 40 mm to 63mm , 22.4 to 45 mm, 13.2 to 19 mm, with using 20% stone screening as filler and binding material 0.08 Cum/10 Sqm. Including spreading watering & consolidation by vibratory roller etc. complete.	1.00	Cu m	1875.94	1875.94
				Total Rs.	29,418.30

Item No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate In Figure	Amount
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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 out as under.

Estimated amount put to tender
Deduct.....% below
Net
In words

Estimated amount put to tender
Add.....% Above
Net
In words

Note

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.
5. Credit of Dismantal Material amount of **Rs. ...NA....** must be recovered from Contractor's R.A Bill.
6. Payment will be given only if the material testing result is satisfactory. Testing of material shall be done as per statement attached with specification

**Dated Signature
the Contractor.**

**Deputy Executive Engineer
R & B Sub Division
Veraval**

**Executive Engineer
R & B Division
Gir Somnath**