

OFFICE OF THE URBAN IMPROVEMENT TRUST SRIGANGANAGAR

Mini Project Report

Name of Work:- **Widening and construction of road from Govt. Hospital road Junction at NH-62 to Kisan Chowk Side Sriganganagar**

(A) Introduction:- The work is to be done in UIT Sri Ganganagar area. The proposed work is lying along with the NH-62 to facilitate the heavy traffic running on the road. After proposed widening number of accidents may be reduced at already const. carriage way of NH-62. So it is very useful for locality.

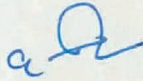
(B) Working agency/Department Name:- Urban Improvement Trust, SriGanganagar.

(C) Abstract:- The cost of work as per Estimate is Rs. 9500000/- and as per tender sanctioned amount Rs. 8516107/-.

(D) Materials and Methods:-

The detail of material and methods the estimate is attached with this.

(E) Total Length:- The total length proposed for road construction is 450 Rmt.



(Surender Kumar Poonia)

Junior Engineer

UIT, Sriganganagar



(Ravinder Kumar Jain)

Assistant Engineer

UIT, Sriganganagar



(Sandeep Nagpal)

Executive Engineer

UIT, Sriganganagar



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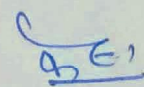
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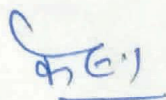
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Name of work - Widening and Construction of road from Govt hospital road Junction at NH-62 to Kishan Chowk side.


S No.	Particulars	Detailed Estimated				Quantity	Unit	Rate	Amount
		No.	L	B	H/D				
1	2	3	4	5	6	7	8	9	10
1	9 Dismantling of flexible pavements and disposal of dismantled materials upto a lead of 1000 metres, scaking serviceable and unserviceable materials separately as per MoRTH specification clause 202By Mechanical Means								
	9.2.1 Bituminous courses	1.00	450.00	1.20	0.15	81.00	Cum	160.00	12960.00
2	8 Scarifying, including picking up scarified material and stacking of old serviceable material with in a lead of 100 metres [MoRTH specification: Clause 501].								
	8.2 Stone metal crust 50mm to 100mm thick with pickaxes along with premix carpet/surface dressing with all lift and lead upto 1000m for reusable materials.	1.00	450.00	1.20		540.00	Sqm	26.00	14040.00
	3.3 Earth work in excavation including stacking/disposal of surplus earth with all lifts and lead upto 1000 meters exclusive of compensation of earth (MoRTH specification Clause 301 to 305).In hard soil mixed with kankar, boulders etc upto 20%								
	3.4.2 mechanically using bulldozer, F.E. loader and carnage upto 1 km by tipper/dumper	2.00	450.00	4.25	0.60	2275.00			
	Both side shoulders	2.00	450.00	1.50	0.20	270.00			
						2565.00	Cum	50.00	128250.00
4	1.1 Add extra carriage lead for disposal of excavated soil with in lead 1.00 Km .					2565.00	Cum	70.00	179550.00
5	12.5 Providing, laying, spreading and compacting specified graded sand, gravel as per Table 400-1,400-2 or any other coarse material as per design mix, as per CBM in sub base course including premixing the material at OMC in mechanical mixer(Pug mill), carnage of mixed material spreading in uniform layers with motor grader, F.E loader on a prepared base and compacting with vibratory roller to achieve desired density (as per IS 2720) including all material, labour, machinery, lighting, guarding, barricading and maintenance of diversion complete.[MoRTH specification : Clause 401] by mechanical means with lead upto 1 km.	2.00	450.00	4.25	0.20	765.00			
		2.00	450.00	1.50	0.20	270.00			
						1035.00	Cum	924.00	956340.00
6	2 Providing, laying, spreading and compacting crushed graded stone aggregate of as per table 400-10 and 400-11 to Wet Mix Macadam specification including premixing the material with water to OMC in mechanical mixer as per approved design mix, carnage of mixed material by Tipper o site laying in uniform layers with motor grader/F.E Loader/paver finisher in sub base/base course on a well prepared under base and compacting with vibratory roller to achieve the desired density including lighting, guarding, barricading and maintance of diversion etc. (MoRTH specification : Clause 406) by mechanical means with lead up to 1 km	2.00	450.00	4.25	0.30	1147.50	Cum	1643.00	1885342.50


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7	4	Providing and applying primer coat over prepared surface or granular base with bitumen emulsion as per IS: 8887 & manufacturer's specifications @ 6 kg /10 sqm with a self propelled or towed bitumen pressure sprayer equipped for spraying the material uniformly at specified rates and temperatures including cleaning of road surface as per MoRTH specification Clause-502,112	2.00	450.00	4.25	3821.00	Sqm	22.50	86062.50	
8	5	Providing and applying tack coat with bitumen emulsion on the prepared surface including cleaning as per IS : 8887 & manufacturer's specifications @ 2 kg /10sqm with a self propelled or towed bitumen pressure sprayer equipped for spraying the material uniformly at specified rates and temperatures as per MoRTH Specification Cl.503,112	4.00	450.00	4.25	7450.00	Sqm	6.00	61200.00	
9	21	Providing and laying bituminous concrete as per design mix on prepared surface with specified graded stone as per table 500-18 for wearing course including loading of aggregate with F.E loader and hot mixing of binder (including cost of anti-stripping compound, wherever required) and 3% cement filler with aggregates in hot mix plant 40-60 TPH Transporting the mix material with tipper to paver and laying with sensor paver finisher (as per clause 507.3.5) to the required level, grades and rolling with vibratory compactor and pneumatic tyre roller 150-250 KN 112=0.7 MPa, to achieve the desired density (approved by the department) excluding cost of primer/tack coat (MoRTH Specification Clause -509,112)								
	21.1	50-65mm compacted thickness with 5.5% binder grading - 1 with lead of mix material 1 Km. a) With viscosity grade bitumen (VG-30)	2.00	450.00	4.25	0.05	191.25	Cum	6743.00	1289598.75
10	19	Providing and laying bituminous macadam on prepared surface with specified graded crushed aggregate as per table 500 - 4, for base/binder course including loading of aggregates with F.E. loader and heating and mixing of stone aggregate and bitumen (including cost of antistripping compound wherever required) in hot mix plant, transporting the mixed material in tipper to paver and laying mixed material with sensor paver finisher to the required level and grade, rolling by power roller & vibratory compactor to achieve the desired density (as per job mix formula approved by the department) excluding cost of primer /tack coat [MoRTH Specification : Clause 504,112] with 5.30% bitumen with lead of mix 1 km								
	19.2.2	For grading-2 (layer thickness 50-75mm) using bitumen grade (VG-30)	2.00	450.00	4.25	0.05	191.25	Cum	5606.00	957971.25


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11	12	Providing and laying of hot applied thermo plastic compound inclusive of type-1 reflectorising glass beads as per table 800.3, 800.4 applied in uniform thickness of at least 2.5 mm and spread uniformly with reflectorising glass beads type-2 in addition @ 250 gm/sqm with a road marking machine as per IRC 35 complete with traffic diversion arrangement as per MoRTH specification clause 803.4.	4.00	450.00	0.15		270.00	Sqm	496.00	133920.00
12	35	Supply & Fixing of PVC Spread Breaker of Size 350 x 250 x 50mm in Black/Yello colour with corrugated design on it, make Road Star GP 1005/Dark Eye DA1005 or equivalent, including fixing base on road with cement, gnt, sand, epoxy and with four nails at corners complete in all respect.	2.00	2.00	7.00		28.00	Rmtr	3150.00	88200.00
13	46	Providing and fixing steel gate grating and grills made of angles, tees, square bars or other flats black pipe with holdfast and fittings complete as per design and drawing including cutting welding and fabrication with priming coat of red oxide.	Appro.				22220.00	Kg	72.00	1599840.00
14	18	Earth work in excavation in foundation trenches or drains including dressing of sides and ramming of bottoms, lift up to 1.5 Mtr including taking out the excavated soil and depositing and refilling of pit with watering & ramming and disposal of surplus excavated soil as directed within a lead of 50 meter. All kinds of soil.	1.00	100.00	3.00	3.00	550.00	Cum	254.00	228600.00
15	32	Providing and laying in position cement concrete including curing compaction etc. of specified grade excluding the cost of centering and shuttering =All up to plinth level								
	32.7	1:4:8 (1Cement :4 Course Sand :8 Graded stone aggregate 40 mm nominal size)	1.00	450.00	1.20	0.15	51.00			
			6.00	6.00	2.00	0.30	21.80			
			2.00	6.00	3.00	0.30	10.80			
							113.40	Cum	3382.00	383518.80
16	32.2	1:1.5:3 (1Cement :1.5 Course Sand :3 Graded stone aggregate 20 mm nominal size)								
		Both walls	2.00	450.00	0.23	0.05	10.35			
		Bottom	1.00	450.00	0.70	0.05	15.75			
		Total					26.10	Cum	4499.00	117423.90
17	5.1	Brick masonry in foundation and plinth with bricks of class designation 75 mm								
	1.7	Cement Mortar 1:6 (1-Cement:6-course sand)	2.00	450.00	0.23	0.75	155.25			
			12.00	6.00	0.46	1.50	49.68			
			4.00	6.00	0.46	3.00	33.12			
							238.05	Cum	3625.00	862931.25
19	12.8	Plaster on new surface on walls in cement sand mortar 1:4 including raking of joints etc. complete fine finish								
	12.8.2	20 mm thick.	2.00	450.00	0.65		585.00	Sqm	180.00	105300.00
20	12.68	Painting with enamel paint of approved brand and manufacture to give an even shade.								
	12.68.1	Two or more coats on new work.	2.00	450.00	0.60		540.00	Sqm	56.00	30240.00


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21	2.4	Providing and laying Plain cement concrete mix with stone aggregate 20mm nominal size mechanically mixed and vibrated in foundation upto a depth of 1.50 metres below ground level and/or 1.50 metres above ground/bed level as per MoRTH specification clause 1000 & 1700. R.C.C. grade M-20 in superstructure upto 4.5 mtr. from ground level excluding cost of steel reinforcement but including the cost of centering & shuttering	6.00	6.00	2.00	0.30	21.60			
			2.00	6.00	3.00	0.30	10.80			
							32.40	Cum	4969.00	160995.60
22	3.3	Providing & fabricating steel reinforcement for RCC work including cutting, bending, placing in position and binding complete including cost of binding wire as per MoRTH Specification Section 1000 & 1600 TMT Steel reinforcement					4.212	tonne	42000.00	176904.00
										9459188.55
								Say		95.0 Lacs

Junior Engineer
UIT SGNR.

Assistant Engineer
UIT SGNR.

Executive Engineer
UIT Sriganganagar.

The Estimate is submitted for Rs.95.00 Lacs only.

Suprentending Engineer
UIT Bikaner

The Estimate is Technically Sanctioned for Rs.95.00 Lacs only.

Chief Engineer
UIT Kota

Technical Sanctioned Vide T.S. No.

44 for Rs. Ninety Five only

Completed
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