

ABSTRACT OF COST

S.NO	ROAD	LENGTH	AMOUNT
1	ROAD FROM STRECH SATKAR HOTEL TO HOME SCIENCE ROAD & TEEN PATTI CHOWK TO GOUMATA CHOWK	1470 METERS	96606140.45
2	ROAD STRECH FROM BLOOM CHOWK TO MADAN MAHAL POLICE STATION	1051 METERS	91528383.83
3	ROAD STRECH FROM MADAN MAHAL POLICE STATION TO RANITAAL JUNCTION	1132 METERS	86701557.53
4	ROAD STRECH FROM RANITAAL JUNCTION TO BALDEOBAGH	860 METERS	71947443.39
5	ROAD STRECH FROM YATAYAT TIRAHA TO PRANJAPE CHOWK (HANUMAN MANDIR)	824 METERS	66000787.46
	TOTAL		412784312.65

**ROAD FROM STRECH SATKAR HOTEL TO HOME SCIENCE ROAD &
TEEN PATTI CHOWK TO GOUMATA CHOWK
LENGTH 1470 METERS**

SUMMARY SHEET

Sr No.	Item Description	Amount (In Rs.)
1	ROAD	17934482.64
2	UTILITY DUCT	52945473.61
3	STORM WATER DRAIN	12668128.20
4	PEDESTARIAN TRACK	11357481.00
5	SIGNAGES, MARKING, LANDSCAPING	1700575.00
	TOTAL	96606140.45

**ROAD STRECH FROM BLOOM CHOWK TO MADAN MAHAL POLICE STATION
LENGTH - 1051 METERS**

SUMMARY SHEET

Sr No.	Item Description	Amount (In Rs.)
1	ROAD	28932102.99
2	UTILITY DUCT	42531931.24
3	STORM WATER DRAIN	10742362.01
4	PEDESTARIAN TRACK	8097362.60
5	SIGNAGES, MARKING, LANDSCAPING	1224625.00
	TOTAL	91528383.83

**ROAD STRECH FROM MADAN MAHAL POLICE STATION TO RANITAAL JUNCTION
LENGTH 1132 METERS**

SUMMARY SHEET

Sr No.	Item Description	Amount (In Rs.)
1	ROAD	25526550.04
2	UTILITY DUCT	42222037.09
3	STORM WATER DRAIN	9867014.20
4	PEDESTARIAN TRACK	7707176.20
5	SIGNAGES, MARKING, LANDSCAPING	1378780.00
	TOTAL	86701557.53

ROAD STRECH FROM RANITAAL JUNCTION TO BALDEOBAGH

SUMMARY SHEET

Sr No.	Item Description	Amount (In Rs.)
1	ROAD	25715026.02
2	UTILITY DUCT	30163498.57
3	STORM WATER DRAIN	8082073.80
4	PEDESTARIAN TRACK	6882278.00
5	SIGNAGES, MARKING, LANDSCAPING	1104567.00
	TOTAL	71947443.39

**ROAD STRECH FROM YATAYAT TIRAHA TO PRANJAPE CHOWK (HANUMAN MANDIR)
LENGTH 824 METERS**

SUMMARY SHEET

Sr No.	Item Description	Amount (In Rs.)
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1	ROAD	22013262.52
2	UTILITY DUCT	27354243.30
3	STORM WATER DRAIN	7782779.44
4	PEDESTARIAN TRACK	7275577.20
5	SIGNAGES, MARKING, LANDSCAPING	1574925.00
	TOTAL	66000787.46

**ROAD FROM STRETCH SATKAR HOTEL TO HOME SCIENCE ROAD &
TEEN PATTI CHOWK TO GOUMATA CHOWK
LENGTH 1470 METERS**

SUMMARY SHEET		
Sr No.	Item Description	Amount (In Rs.)
1	ROAD	17934482.64
2	UTILITY DUCT	52945473.61
3	STORM WATER DRAIN	12668128.20
4	PEDESTRIAN TRACK	11357481.00
5	SIGNAGES, MARKING, LANDSCAPING	1700575.00
	TOTAL	96606140.45

ESTIMATE OF ROAD						
ROAD STRETCH FROM SATKAR HOTEL TO HOME SCIENCE ROAD & TEEN PATTI CHOWK TO GOUMATA CHOWK						
S.No.	UADD SOR Vol II & III, ITEM NO	Descriptions of Item	Quantity	Rate	Unit	Amount in Rs.
			Quantity			
1	2.3, (i) Vol III	Dismantling				
		Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead 1000 meter.				
		Cement Concrete Grade M-15 & M-20	275.00	234.00	cum	64350.00
2	2.40	Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200.				
	a)	Bituminous courses	154.35	358.00	cum	55257.30
3	2.5 vol III	Dismantling of cement concrete pavement i/c breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead upto 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200.				
		Total quantity	142.73	716.00	cum	102191.10
4	2.7 vol III	Dismantling kerb stone by manual means and disposal of dismantled material with all lifts and up to a lead upto 1000 meter and as per relevant clauses of section-200.				
		Total quantity	210.00	6.00	m	1260.00
5	2.12 vol III	Removal of telephone / Electric poles including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and up to a lead of 1000 meter and stacking the serviceable and unserviceable material separately.				
		Total quantity	33.00	90.00	each	2970.00
6	3.1, Vol III	Excavation				
		Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto 1000 metres and as per relevant clauses of section-300				
		For Widening of Carriageway				
		Ch. 0 to 860m, = 860m	1264.20			
		Ch. 860 to 1470m, = 610m	896.70			
		at Junctions	220.50			
		Total quantity	2381.40	98.00	cum	233377.20
7	3.11, Vol III	Earthwork				
		Construction of Embankment/Sub grade/ earth shoulders, as per clause 305 & its sub-clauses, Where required but with approved materials/soil like morrum CBR value not less then 7% i/c all lead & lifts i/c excavation, cost of watering, mpaction and maintenance of surface during construction to ensure shedding & preventing ponding of water (clause 305.3.6) shaping & dressing (clause 305.3.7), finishing etc. complete but excluding scarifying existing granular/bituminous road surface vide clause 305.6.				
		For Widening of Carriageway				
		Ch. 0 to 860m, = 860m	602.00			
		Ch. 860 to 1470m, = 610m	427.00			
		At Junctions	105.00			

S.No.	UADD SOR Vol II & III, ITEM NO	Descriptions of Item	Quantity	Rate	Unit	Amount in Rs.
			Quantity			
		Total quantity	1134.00	272.00	cum	308448.00
8	4.8(a) I Vol III	Crusher Run Macadam				
		Crusher Run Macadam Base (Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a vibratory roller to clause 410 to form a layer of sub-base/Base)				
		For 53 mm maximum size				
		For Widening of Carriageway				
		Ch. 0 to 860m, = 860m	361.20			
		Ch. 860 to 1470m, = 610m	256.20			
		At Junctions	63.00			
		Total quantity	680.40	833.00	cum	566773.20
9	4.5 Vol III	WMM				
		Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper 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 desired density and as per relevant clauses of section - 400.				
		For Widening of Carriageway				
		Ch. 0 to 860m, = 860m	301.00			
		Ch. 860 to 1470m, = 610m	213.50			
		at Junctions	52.50			
		Total quantity	567.00	951.00	cum	539217.00
10	5.1 Vol III	Primer Coat				
		Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.75 kg/sqm using mechanical / Manual means and as per relevant clauses of section 502.				
		For Widening of Carriageway				
		Ch. 0 to 860m, = 860m	1204.00			
		Ch. 860 to 1470m, = 610m	854.00			
		At Junction	210.00			
		Total quantity	2268.00	26.00	Sqm	58968.00
11	5.2 (ii) Vol III	Tack Coat				
		Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor on the prepared bituminous / granular surface cleaned with mechanical broom and as per relevant clauses of section 503.				
		@0.25 kg per sqm (normal bituminous surfaces)				
		for bc 50mm	7210.00			
			7210.00	9.00	sqm	64890.00
		@0.30 kg per sqm (dry & hungry bituminous surfaces/granular surfaces treated with primer)				
		on existing road for DBM 100mm	7210.00			
		widening part	1442.00			
		At Junction	2700.00			
		Total quantity	11352.00	11.00	sqm	124872.00
	5.1	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor on the prepared bituminous/granular surface cleaned with mechanical broom and as per relevant clauses of section-503.				

S.No.	UADD SOR Vol II & III, ITEM NO	Descriptions of Item	Quantity	Rate	Unit	Amount in Rs.
			Quantity			
	iv)	@0.35 kg per sqm (Non-bituminous surfaces) cement concrete pavement				
		<i>On OLD CC Road @ 0.35 Kg / sqm</i>				
		<i>on existing cc road for DBM</i>	3080.00			
		widening part	616.00			
		Total quantity	3696.00	13.00	sqm	48048.00
12	5.6 (i) Vol III	Dense Bituminous Macadam				
		Providing and laying dense bituminous macadam (in two layers of 50mm thickness each or as per the instruction of engineer in charge) with hot mix plant batch using crushed aggregates of specified grading, premixed with bituminous binder, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction complete in all respects and as per relevant clauses of section-507. (Only cement will be used as filler) (for Grading I (80-100mm thickness)				
		ch. 0 to 1470	1029.00			
		widening part	205.80			
		At junction				
		ch. 0 to 1470	210.00			
		widening part	21.00			
		Total quantity	1465.80	7161.00	cum	10496593.80
13	5.8 (iv) Vol III	Bituminous Concrete				
		Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified grading,premixed with bituminous binder,transporting the hot mix to work site,laying with a mechanical paver finisher to the required grade,level and alignment,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects and as per relevant clauses of section-509.(Only cement will be used as filler). iv) for Grading II (30-45 mm thickness) with 60/70 bitumen				
		ch. 0 to 1470	411.60			
		widening part	82.32			
		At Junction	84.00			
			8.40			
		Total quantity	586.32	8226.00	cum	4823068.32
14	Volume 3,item no.5.4, page 51	Providing and laying levelling course/profile corrective course with bituminous macadam with hot mix plant using crushed aggregates of grading-1 premixed with bituminous binder @ 3.1%, transported to site, laid over a previously prepared surface with mechanical paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction complete in all respects and as per relevant clauses of section-500.				
		Taking 20% of the existing road	411.60			
			82.32	5396.00	Cum	444198.72
Total						17934482.64

ESTIMATE OF ELECTRICAL DUCT						
ROAD FROM STRECH SATKAR HOTEL TO HOME SCIENCE ROAD & TEEN PATTI CHOWK TO GOUMATA CHOWK						
S No.	UADD SOR ITEM NO	Descriptions of Item	Quantity	Rate	Unit	Amount
1	2.9.1, Vol II	Excavation				
		Excavation work in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.				
		Ordinary rock				
		Excavation for Duct	12936.00			
		Total quantity	12936.00	202.00	cum	2613072.00
2	2.27.1 Vol II	Filling				
		Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete. 2.27.1 Crusher Stone Dust				
		For Duct	588.00			
		Total quantity	588.00	628.00	cum	369264.00
3	4.1.1 Vol II	Cement Concrete M-15(Duct)				
		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.				
		M 15 with 20mm maximum size of aggregate.				
		P.C.C Bed	588.00			
		At Junctions	60.00			
		Total quantity	648.00	4154.00	cum	2691792.00
4	5.1.1 Vol II	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete. All work up to floor 2 level.				
		Along Road				

		R.C.C. Base	815.85			
		R.C.C. Wall	1411.20			
		Middle RCC wall	661.50			
		At Junctions				
		R.C.C. Base	90.00			
		R.C.C. Wall	72.00			
		Middle RCC wall	67.50			
		Total quantity	3118.05	5245.00	cum	16354172.25
5	Vol II 5.10	Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate)				
		Along Road				
		Precast Cover	543.90			
		For Chamber				
		RCC Cover for Chamber	13.88			
		Total quantity	557.78	6524.00	cum	3638924.10
6	5.20.6 Vol II	Reinforcement for Duct				
		Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
	5.20.6	Thermo-Mechanically Treated bars.				
		Taking average weight for estimate (Payable as actual design & weight calculations) Total quantity	195813.54			
		For Precast Cover	35028.27			
			230841.81	60.00	Kg	13850508.60
7	20.1.1 Vol II	Form work for Duct				
		Centering and shuttering including strutting, propping etc.and removal of form for : 20.1.1 Foundations, footings, bases of columns, etc. For mass concrete.				
		Along Road				
		R.C.C. wall outer	9408.00			
		R.C.C. wall inner	8820.00			
		R.C.C. Base wall	882.00			
		Middle Wall	8820.00			
		At Junction				
		R.C.C. wall outer	2040.00			
		R.C.C. wall inner	1920.00			
		R.C.C. Base wall	180.00			

		Middle Wall	1800.00			
		Total quantity	33870.00	138.00	cum	4674060.00
8	6.1 Vol II	Brick work with well burnt chimney bricks in bulls patent trench kiln manufactured by ghol process, crushing strength not less than 40kg /sqcm and water absorption not more than 15% in foundation and plinth.				
		Cement mortar 1:6 (1 cement : 6 coarse sand) Total quantity	7.73	4232.00	cum	32704.90
9	13.2 Vol II	15mm cement plaster on the rough side of single or half brick wall of mix :				
		1:5 (1 cement: 5 fine sand) Total quantity	38.64	119.00	cum	4598.16
10	2.27.2 Vol II	Sand Filling				
		Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.				
			6585.60			
			672.00			
		Local Sand	7257.60	1201.00	cum	8716377.60
TOTAL						52945473.61

ESTIMATE OF STORM WATER DRAIN						
ROAD FROM STRECH SATKAR HOTEL TO HOME SCIENCE ROAD & TEEN PATTI CHOWK TO GOUMATA CHOWK						
S No.	UADD SOR ITEM NO	Descriptions of Item	Quantity	Rate	Unit	Amount
			1	2.9.1, Vol II	Excavation work in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.	
	2.9.1	Ordinary rock Cum 202.00	2352.00			
		At Junction	240.00			
		Total quantity	2592.00	202.00	cum	523584.00
2	2.27.1 Vol II	Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete. Crusher Stone Dust				
	2.27.1	Crusher Stone Dust	235.20			
		At Junction	24.00			
		Total quantity	259.20	628.00	cum	162777.60
3	4.1.2 Vol II	Cement Concrete M-20 (Duct)				
		Providing and laying Plain / Reinorced cement concrete (mixed in concrete mixture) ... RCC Grade				
		M 15 with 20mm maxumum size of aggregate.				
		P.C.C Bed	235.20			
			28.80			
		Total quantity	264.00	4154.00	cum	1096656.00
4	5.1.1 Vol II	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete. All work up to floor 2 level.				
		Along Road				
		RCC Base 100 MM Thick	235.20			
		R.C.C. Wall 100 MM Thick	382.20			
		At Junction				
		RCC Base 100 MM Thick	48.00			
		R.C.C. Wall 100 MM Thick	78.00			
		Total quantity	743.40	5245.00	cum	3899133.00

5	5.10	Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate)				
		Along Road				
		Precast Grating Cover for Drains	235.20			
		At Junctions				
		Precast Grating Cover for Drains	48.00			
		Total quantity	283.20	6524.00	cum	1847596.80
6	5.20.6 Vol II	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
	5.20.6	Thermo-Mechanically Treated bars				
		Total Weight of steel KG-	46685.52			
		Total Weight of steel KG-	17784.96			
			64470.48	60.00	Kg	3868228.80
7	20.1.1 Vol II	Form work for Duct				
		Centering and shuttering including strutting, propping etc.and removal of form for :				
	20.1.1	Foundations, footings, bases of columns, etc. For mass concrete.				
		Along Road				
		R.C.C. wall outer	3822.00			
		R.C.C. wall inner	3822.00			
		At Junction				
		R.C.C. wall outer	780.00			
		R.C.C. wall inner	780.00			
		Total quantity	9204	138.00	Sqm	1270152.00
						12668128.20

ESTIMATE OF PEDESTRIAN PATH

**ROAD FROM STRECH SATKAR HOTEL TO HOME SCIENCE ROAD & TEEN PATTI CHOWK TO GOUMATA CHOWK
LENGTH 1470 METERS**

S No.	UADD SOR ITEM NO	Descriptions of Item	Quantity	Rate	Unit	Amount
1	3.1, Vol III	Excavation				
		Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto 1000 metres and as per relevant clauses of section-300				
		Ch 0 - 1470	4410.00			
		At Junctions	450.00			
		Total	4860.00	98.00	cum	476280.00
2	3.11, Vol III	Earthwork				
		Construction of Embankment/Sub grade/ earth shoulders, as per clause 305 & its sub-clauses, Where required but with approved materials/soil like morrum CBR value not less than 7% i/c all lead & lifts i/c excavation, cost of watering, mpaction and maintenance of surface during construction to ensure shedding & preventing ponding of water (clause 305.3.6) shaping & dressing (clause 305.3.7), finishing etc. complete but				
		Along Road	2646.00			
		At Junction	270.00			
		Total	2646.00	272.00	cum	719712.00
3	4.1.5 Vol II	Cement Concrete M - 10				
		Providing and laying in position cement concrete in foundation Up to plinth level. Cement concrete grade M-10 (Nominal Mix) with 40 mm maximum size of stone aggregate				
		Footpath M - 10 Along Road	1323.00			
		At junction	135.00			
		Total	1458.00	3528.00	Sqm	5143824.00
4	5.1. Vol II	Reinforcement for R.C.C. work				
		Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
		Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.				
		Total	66.00	4728.00	Sqm	312048.00
5		Reinforcement for R.C.C. work				
		Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				

S No.	UADD SOR ITEM NO	Descriptions of Item	Quantity	Rate	Unit	Amount
		Thermo-Mechanically Treated bars				
		Total Weight of steel KG-	3626.70	60	Kg	217602.00
6	11.29	Flag Stone				
		40 mm thick rubbed local Flag stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement :5 coarse sand) with joints 3mm thick, side buttered with cement mortar 1:2 (1 cement : 2 stone dust) admixed with pigment to match the shade of stone and pointing with same mortar (minimum size of kota stone 0.25 sqm)				
		Along Road				
	11.30.1	Red sand stone	3250.00	513.00	Sqm	1667250.00
	11.30.2	White sand stone	2250.00	532.00	Sqm	1197000.00
		At Junction				
	11.30.1	Red sand stone	375.00	513.00	Sqm	192375.00
	11.30.2	White sand stone	375.00	532.00	Sqm	199500.00
7	11.20 Vol II	Chequerred precast cement concrete tiles 18-20mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).				
		Along Road				
	11.20.3	Dark shade using ordinary cement.	1100.00	616.00	SqM	677600.00
		At junction				
		Dark shade using ordinary cement.	150.00	616.00	SqM	92400.00
8	8.1, Vol III, pg 69	Kerb Stone				
		Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications. A Using Concrete Mixer				
		towards road side	2200.00			
		at Junction	270.00			
		Total Quantity	2470.00	187.00	meter	461890.00
TOTAL						11357481.00

ESTIMATE OF ROAD MARKING, STREET FURNITURES & PLANTATION

**ROAD FROM STRECH SATKAR HOTEL TO HOME SCIENCE ROAD & TEEN PATTI CHOWK TO GOUMATA CHOWK
LENGTH 1470 METERS**

S No.	UADD SOR ITEM NO	Descriptions of Item		Rate	Unit	Amount
			Quantity			
1	Item 8.10 Vol III	Road Marking				
		Solid Lines in White Colour				
		Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes and as per relevant clauses of section-800.				
		Solid Lines in White Colour	294.00			
		Brocken Lines in White Colour	147.00			
		Stop Lines in White Colour	58.80			
		Applying Zebra Crossing	400.00			
		Total Quantity	899.80	900.00	Sqm	809820.00
2	Item 8.8 Vol III	Painting lines, dashes, arrows etc				
		Painting lines, dashes, arrows etc on roads in two coats on new work with ready mixed road marking paint conforming to IS:164 on bituminous surface, including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control as per relevant clauses of section-800 & I.R.C.-67 including cost of paint etc. complete.	735.00	70.00	Sqm	51450.00
3	Item No 8.3 Vol III	Signages				
		Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm (height from crown level of the road and bottom of the sign board shall not be less than 1.5 m.) firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing including painting of vertical post as per specification.				
		90 cm equilateral triangle	5.00	3715.00	Nos	18575.00
		80 cm x 60 cm rectangular	10.00	4537.00	Nos	45370.00

S No.	UADD SOR ITEM NO	Descriptions of Item		Rate	Unit	Amount
			Quantity			
4	8.12 Vol III	Road Delineators (Supplying and installation of delineators (road way indicators, hazard markers, object markers), 80-100 cm high above ground level, painted black and white in 15 cm wide stripes, fitted with 80 x 100 mm rectangular or 75mm dia circular reflectorised panels at the top, buried or pressed into the ground and conforming to IRC-79 and the drawings as per relevant clauses of section-800 of specifications.				
			40.00	292.00	each	11680.00
	8.20 Vol III	Road Markers/Road Stud with Lense Reflector (Providing and fixing of road stud 100x 100 mm, dia cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS 873 part 4:1973)				
			40.00	292.00	each	11680.00
5	11.1 Vol III	Planting Permanent Hedges including Digging of Trenches (Planting permanent hedges including digging of trenches, 60 cm wide and 45 cm deep, refilling the excavated earth mixed with farmyard manure, supplied at the rate of 4.65 cum per 100 meters and supplying and planting hedge plants at 30 cm apart)	1600.00	230.00	Meter	368000.00
6	11.2 Vol III	Planting of Trees and their Maintenance for one Year (Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge manure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year)	100.00	488.00	Nos	48800.00
7	23.15 MP PWD SOR	Providing and planting different variety of plants of approved quality and sizes as mentioned including making pits of required size at site, refilled with B.C. Soil mixture manuring and pesticide etc complete (to be paid separately) including watering and 90 days maintenance from the date of final bill as per direction of engineer in charge complete in all respect (B.C Mixture paid separately).				
	23.15.1	Any of one from Plameriya alba, fycus benjameena. Malkikeya champa. Begnonia plumaric pudoca Plants (1.8 mtrs to 2.10 mtrs height.	100.00	645	each	64500.00
	23.15.2	Any of one from Lantana VAR Red, Lantana Blue White, Hemelia Mini. lantana varicated, ticoma Redicens, Spi Oala, Golden Dunanta.(height 0.3 m to 0.45m)	1600.00	33	each	52800.00

S No.	UADD SOR ITEM NO	Descriptions of Item		Rate	Unit	Amount
			Quantity			
8	11.5 vol-3	Tree Guard with MS Angle Iron and Steel Wire (Providing and fixing tree guard 0.60 square meter, 2.00 meter high fabricated with MS angle iron 30 x 30 x 3 mm, MS iron 25 x 3 mm and steel wire 3 mm dia welded and fabricated as per design in two halves bolted together)	100	2179	each tree guard	217900.00
		TOTAL				1700575.00

**ROAD STRECH FROM BLOOM CHOWK TO MADAN MAHAL POLICE STATION
LENGTH - 1051 METERS**

SUMMARY SHEET		
Sr No.	Item Description	Amount (In Rs.)
1	ROAD	28932102.99
2	UTILITY DUCT	42531931.24
3	STORM WATER DRAIN	10742362.01
4	PEDESTARIAN TRACK	8097362.60
5	SIGNAGES, MARKING, LANDSCAPING	1224625.00
TOTAL		91528383.83

ESTIMATE OF ROAD						
ROAD STRECH FROM BLOOM CHOWK TO MADAN MAHAL POLICE STATION						
LENGTH - 1051 METERS						
S.No.	UADD SOR ITEM NO	Descriptions of Item	Measuremen	Rate	Unit	Amount in Rs.
			Quantity			
1	2.3, (i)	Dismantling				
		Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead 1000 meter.				
		Cement Concrete Grade M-15 & M-20	182.04	234.00	cum	42597.36
2	2.40	Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200.				
	a)	Bituminous courses	141.89	358.00	cum	50794.83
3	2.5 vol III	Dismantling of cement concrete pavement i/c breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead upto 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200.	62.87	716.00	cum	45011.34
4	2.7 vol II	Dismantling kerb stone by manual means and disposal of dismantled material with all lifts and up to a lead upto 1000 meter and as per relevant clauses of section-200.	168.00	6.00	m	1008.00
5	2.12 vol II	Removal of telephone / Electric poles including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and up to a lead of 1000 meter and stacking the serviceable and unserviceable material separately.	33.00	90.00	each	2970.00
6	3.1, Vol III	Excavation				
		Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto 1000 metres and as per relevant clauses of section-300				
		For Widening of Carriageway				
		Ch. 0 to 1051m, = 1051m	7062.72			
		At Junction	1680.00			
		Total	8742.72	98.00	cum	856786.56
7	3.11, Vol III	Earthwork				

		Construction of Embankment/Sub grade/ earth shoulders, as per clause 305 & its sub-clauses, Where required but with approved materials/soil like morrum CBR value not less than 7% i/c all lead & lifts i/c excavation, cost of watering, mpaction and maintenance of surface during construction to ensure shedding & preventing ponding of water (clause 305.3.6) shaping & dressing (clause 305.3.7), finishing etc. complete but excluding scarifying existing granular/bituminous road surface vide clause 305.6.				
		For Widening of Carriageway				
		Ch. 0 to 1051m, = 1051m	3363.20			
		at Junctions	800.00			
		Total	4163.20	272.00	cum	1132390.40

8	4.8(a) I Vol III	Crusher Run Macadam				
		Crusher Run Macadam Base (Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a vibratory roller to clause 410 to form a layer of sub-base/Base)				
		For 53 mm maximum size				
		For Widening of Carriageway				
		Ch. 0 to 1051m, = 1051m	2017.92			
			480.00			
		Total	2497.92	833.00	cum	2080767.36
9	4.5 Vol III	WMM				
		Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper 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 desired density and as per relevant clauses of section - 400.				
		For Widening of Carriageway				
		Ch. 0 to 1051m, = 1051m	1681.60			
			400.00			
		Total quantity	2081.60	951.00	cum	1979601.60
10	5.1 Vol III	Primer Coat				
		Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.75 kg/sqm using mechanical / Manual means and as per relevant clauses of section 502.				
		For Widening of Carriageway				
		Ch. 0 to 1051m, = 1051m	6726.40			
			1600.00			
		Total quantity	8326.40	26.00	Sqm	216486.40
11	5.2 (i) Vol III	Tack Coat				
		Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor on the prepared bituminous / granular surface cleaned with mechanical broom and as per relevant clauses of section 503.				
		@0.25 kg per sqm (normal bituminous surfaces)				
		for bc 50mm	15134.40			
		At Junctions	7200.00			
			22334.40	9.00	Sqm	201009.60

		@0.30 kg per sqm (dry & hungry bituminous surfaces/granular surfaces treated with primer)				
		On Existing road for DBM 100mm	9459.00			
		For widening of carriageway	6726.40			
		At Junctions				
		On Existing road for DBM 100mm	2250.00			
		For widening of carriageway	1600.00			
		Total quantity	20035.40	11.00	sqm	220389.40

12	5.6 (i) Vol III	Dense Bituminous Macadam				
		Providing and laying dense bituminous macadam with hot mix plant batch using crushed aggregates of specified grading, premixed with bituminous binder, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction complete in all respects and as per relevant clauses of section-507. (Only cement will be used as filler) (for Grading I (80-100mm thickness) cum 7161.00)				
		On Existing road	945.90			
		widening part	672.64			
		At Junctions				
		On Existing road	225.00			
		widening part	160.00			
		Total quantity	2003.54	7161.00	cum	14347349.94
13	5.8 (iv) Vol III	Bituminous Concrete				
		Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified grading,premixed with bituminous binder,transporting the hot mix to work site,laying with a mechanical paver finisher to the required grade,level and alignment,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects and as per relevant clauses of section-509.(Only cement will be used as filler). iv) for Grading II (30-45 mm thickness) with 60/70 bitumen				
		On Existing road	378.36			
		widening part	269.06			
		At Junctions				
		On Existing road	90.00			
		widening part	64.00			
		Total quantity	801.42	8226.00	cum	6592448.02
14	8.1 (A) Vol III	Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications.				
			2102.00			
			2102.00	189.00	meter	397278
15	4.1 vol II	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.				

	4.1.4	Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate	73.57			
			73.57	3595.00	Cum	264484
16	2.27 voll	Supplying and filling in plinth under floors including,watering, ramming consolidating and dressing complete.				
	2.27.1	Crusher Stone Dust	147.14			
			147.14	628.00	Cum	92404
	5.40	Providing and laying levelling course/profile corrective course with bituminous macadam with hot mix plant using crushed aggregates of grading-1 premixed with bituminous binder @ 3.1%, transported to site, laid over a previously prepared surface with mechanical paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction complete in all respects and as per relevant clauses of section-500				
		Taking 20% of the existing road	378.36			
			75.67	5396.00	Cum	408326
Total						28932102.99

ESTIMATE OF ELECTRICAL DUCT

ROAD STRECH FROM BLOOM CHOWK TO MADAN MAHAL POLICE STATION
LENGTH 1051 METERS

S No.	UADD SOR ITEM NO	Descriptions of Item	Measurement				Rate	Unit	Amount
			No.	L	B	H			
1	2.9.1, Vol II	Excavation							
		Excavation work in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.							
		Ordinary rock							
		Excavation for Duct	2.00	1051.00	2.00	2.20	9248.80		
			10.00	50.00	2.00	2.20	2200.00		
		Total quantity					11448.80	202.00	cum 2312657.60
2	2.27.1 Vol II	Filling							
		Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.							
		2.27.1 Crusher Stone Dust							
		For Duct	2.00	1051.00	2.00	0.10	420.40		
			10.00	50.00	2.00	0.10	100.00		
		Total quantity					520.40	628.00	cum 326811.20
3	4.1.1 Vol II	Cement Concrete M-15(Duct)							
		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.							
		M 15 with 20mm maxumum size of aggregate.							
		P.C.C Bed	2.00	1051.00	2.00	0.10	420.40		
		At Junctions	10.00	50.00	2.00	0.10	100.00		
		Total quantity					520.40	4154.00	cum 2161741.60
4	5.1.1 Vol II	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete. All work up to floor 2 level.							
		Along Road							
		R.C.C. Base	2.00	1051.00	1.85	0.15	583.31		
		R.C.C. Wall	4.00	1051.00	0.15	1.60	1008.96		
		Middle RCC wall	2.00	1051.00	0.15	1.50	472.95		
		At Junctions							
		R.C.C. Base	10.00	50.00	2.00	0.15	150.00		
		R.C.C. Wall	10.00	50.00	0.15	1.60	120.00		
		Middle RCC wall	10.00	50.00	0.15	1.50	112.50		
		Total quantity					2447.72	5245.00	cum 12838265.18

ESTIMATE OF STORM WATER DRAIN
ROAD STRECH FROM BLOOM CHOWK TO MADAN MAHAL POLICE STATION
LENGTH - 1051 METERS

S No.	UADD SOR ITEM NO	Descriptions of Item	Quantity	Unit	Rate	Amount
1	2.9.1, Vol II	Excavation work in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.				
		Ordinary rock Cum 202.00	1681.60			
		At Junction	400.00			
		Total quantity	2081.60	cum	202.00	420483.20
2	2.27.1 Vol II	Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.				
		Crusher Stone Dust	168.16			
		At Junction	40.00			
		Total quantity	208.16	cum	628.00	130724.48
3	4.1.2 Vol II	Cement Concrete M-20 (Duct)				
		Providing and laying Plain / Reinorced cement concrete (mixed in concrete mixture) ... RCC Grade				
		M 15 with 20mm maxumum size of aggregate.				
		P.C.C Bed	168.16			
			40.00			
		Total quantity	208.16	cum	4154.00	864696.64
4	5.1.1 Vol II	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete. All work up to floor 2 level.				
		Along Road				
		RCC Base 100 MM Thick	168.16			
		R.C.C. Wall 100 MM Thick	273.26			
		At Junction				
		RCC Base 100 MM Thick	80.00			
		R.C.C. Wall 100 MM Thick	130.00			
		Total quantity	651.42	cum	5245.00	3416697.90

5	Vol II 5.10	Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate)				
		Along Road				
		RCC Pre Cast Grating as Cover Drain	168.16			
		At Junctions				
		RCC Pre Cast Grating as Cover Drain	80.00			
		Total quantity	248.16	cum	6524.00	1618995.84
6	5.20.6 Vol II	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
	5.20.6	Taking average weight for estimate (Payable as actual design & weight calculations) Total quantity	38352.35	kg	60.00	2301141.15
		RCC Pre Cast Grating as Cover Drain	14610.42	kg	60.00	876625.20
7	20.1.1 Vol II	Form work for Duct				
		Centering and shuttering including strutting, propping etc.and removal of form for :				
	20.1.1	Foundations, footings, bases of columns, etc. For mass concrete.				
		Along Road				
		R.C.C. wall outer	2732.60			
		R.C.C. wall inner	2732.60			
		At Junction				
		R.C.C. wall outer	1300.00			
		R.C.C. wall inner	1300.00			
		Total quantity	8065	sqm	138.00	1112997.60
TOTAL						10742362.01

ESTIMATE OF PEDESTRIAN PATH						
ROAD STRECH FROM BLOOM CHOWK TO MADAN MAHAL POLICE STATION						
S No.	UADD SOR ITEM NO	Descriptions of Item	Quantity	Rate	Unit	Amount
1	3.1, Vol III	Excavation				
		Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto1000 metres and as per relevant clauses of section-300				
		Ch 0 - 1470	2627.50			
		At Junctions	625.00			
		Total quantity	3252.50	98.00	cum	318745.00
2	3.11, Vol III	Earthwork				
		Construction of Embankment/Sub grade/ earth shoulders, as per clause 305 & its sub-clauses, Where required but with approved materials/soil like morrum CBR value not less then 7% i/c all lead & lifts i/c excavation, cost of watering, mpaction and maintenance of surface during construction to ensure shedding & preventing ponding of water (clause 305.3.6) shaping & dressing (clause 305.3.7), finishing etc. complete but excluding scarifying existing granular/bituminous road surface vide clause 305.6.				
		Along Road	1576.50			
		At Junction	375.00			
		Total quantity	1576.50	272.00	cum	428808.00
3	4.1.5 Vol II	Cement Concrete M - 10				
		Providing and laying in position cement concrete in foundation Up to plinth level. Cement concrete grade M-10 (Nominal Mix) with 40 mm maximum size of stone aggregate				
		Footpath M - 10 Along Road	788.25			
		At junction	187.50			
		Total quantity	975.75	3528.00	Sqm	3442446.00
4	5.1. Vol II	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
		Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.				
		Total quantity	53.40	4728.00	Sqm	252475.20

		Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
		Thermo-Mechanically Treated bars				
		Total Weight of steel KG-	2515.14	60	Kg	150908.40
5	11.29	Flag Stone				
		40 mm thick rubbed local Flag stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement :5 coarse sand) with joints 3mm thick, side buttered with cement mortar 1:2 (1 cement : 2 stone dust) admixed with pigment to match the shade of stone and pointing with same mortar (minimum size of kota stone 0.25 sqm)				
		Along Road				
	11.30.1	Red sand stone	2160.00	513.00	Sqm	1108080.00
	11.30.2	White sand stone	1400.00	532.00	Sqm	744800.00
		At Junction				
	11.30.1	Red sand stone	500.00	513.00	Sqm	256500.00
	11.30.2	White sand stone	500.00	532.00	Sqm	266000.00
6	11.20 Vol II	Chequerred precast cement concrete tiles 18-20mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).				
		Along Road				
	11.20.3	Dark shade using ordinary cement.	890.00			
		At junction				
		Dark shade using ordinary cement.	250.00			
			1140.00	616.00	SqM	702240.00
7	8.1, Vol III, pg 69	Kerb Stone				
		Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications. A Using Concrete Mixer				
		at Junction	1780.00			
		at Junction	500.00			
			2280.00	187.00	meter	426360.00
					TOTAL	8097362.60

ESTIMATE OF ROAD MARKING, STREET FURNITURES & PLANTATION						
ROAD STRECH FROM BLOOM CHOWK TO MADAN MAHAL POLICE STATION						
LENGTH - 1051 METERS						
S No.	UADD SOR ITEM NO	Descriptions of Item	Measurement	Rate	Unit	Amount
			Quantity			
1	Item 8.10 Vol III	Road Marking				
		Solid Lines in White Colour				
		Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes and as per relevant clauses of section-800.				
		Solid Lines in White Colour	170.00			
		Broken Lines in White Colour	85.00			
		Stop Lines in White Colour	25.50			
		Applying Zebra Crossing	350.00			
			630.50	900.00	Sqm	567450.00
2	Item 8.8 Vol III	Painting lines, dashes, arrows etc				
		Painting lines, dashes, arrows etc on roads in two coats on new work with ready mixed road marking paint conforming to IS:164 on bituminous surface, including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control as per relevant clauses of section-800 & I.R.C.-67 including cost of paint etc. complete.				
			425.00	70.00	Sqm	29750.00
3	Item No 8.3 Vol III	Signages				
		Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm (height from crown level of the road and bottom of the sign board shall not be less than 1.5 m.) firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing including painting of vertical post as per specification.				
		90 cm equilateral triangle	5.00	3715.00	Nos	18575.00
		80 cm x 60 cm rectangular	10.00	4537.00	Nos	45370.00
4	8.12 Vol III	Road Delineators (Supplying and installation of delineators (road way indicators, hazard markers, object markers), 80-100 cm high above ground level, painted black and white in 15 cm wide stripes, fitted with 80 x 100 mm rectangular or 75mm dia circular reflectorised panels at the top, buried or pressed into the ground and conforming to IRC-79 and the drawings as per relevant clauses of section-800 of specifications.				

			40.00	292.00	each	11680.00
5	8.20 Vol III	Road Markers/Road Stud with Lense Reflector (Providing and fixing of road stud 100x 100 mm, dia cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS 873 part 4:1973)				
			40.00	292.00	each	11680.00
6	11.1 Vol III	Planting Permanent Hedges including Digging of Trenches (Planting permanent hedges including digging of trenches, 60 cm wide and 45 cm deep, refilling the excavated earth mixed with farmyard manure, supplied at the rate of 4.65 cum per 100 meters and supplying and planting hedge plants at 30 cm apart)	1200.00	230.00	Meter	276000.00
7	11.2 Vol III	Planting of Trees and their Maintenance for one Year (Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge manure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year)	60.00	488.00	Nos	29280.00
8	23.15 MP PWD SOR	Providing and planting different variety of plants of approved quality and sizes as mentioned including making pits of required size at site, refilled with B.C. Soil mixture manuring and pesticide etc complete (to be paid separately) including watering and 90 days maintenance from the date of final bill as per direction of engineer in charge complete in all respect (B.C Mixture paid separately).				
	23.15.1	Any of one from Plameriya alba, fycus benjameena. Malkikeya champa. Begnonia plumaric pudoca Plants (1.8 mtrs to 2.10 mtrs height.	100.00	645	each	64500.00
	23.15.2	Any of one from Lantana VAR Red, Lantana Blue White, Hemelia Mini. lantana varicated, ticoma Redicens, Spi Oala, Golden Dunanta.(height 0.3 m to 0.45m)	1200.00	33	each	39600.00
9	11.5 vol-3	Tree Guard with MS Angle Iron and Steel Wire (Providing and fixing tree guard 0.60 square meter, 2.00 meter high fabricated with MS angle iron 30 x 30 x 3 mm, MS iron 25 x 3 mm and steel wire 3 mm dia welded and fabricated as per design in two halves bolted together)	60.00	2179	each	130740.00
TOTAL						1224625.00

**ROAD STRECH FROM MADAN MAHAL POLICE STATION TO RANITAAL JUNCTION
LENGTH 1132 METERS**

SUMMARY SHEET		
Sr No.	Item Description	Amount (In Rs.)
1	ROAD	25526550.04
2	UTILITY DUCT	42222037.09
3	STORM WATER DRAIN	9867014.20
4	PEDESTARIAN TRACK	7707176.20
5	SIGNAGES, MARKING, LANDSCAPING	1378780.00
TOTAL		86701557.53

ESTIMATE OF ROAD						
ROAD STRECH FROM MADAN MAHAL POLICE STATION TO RANITAAL JUNCTION						
S.No.	UADD SOR ITEM NO	Descriptions of Item		Rate	Unit	Amount in Rs.
			Quantity			
1	2.3, (i)	Dismantling				
		Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead 1000 meter.				
		Cement Concrete Grade M-15 & M-20	218.04	234.00	cum	51021.36
2	2.40	Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200.				
	a)	Bituminous courses taking 10% of Total	2207.40			
	a)	Bituminous courses	220.74	358.00	cum	79024.92
3	2.5 vol III	Dismantling of cement concrete pavement i/c breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead upto 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200.	2.98	716.00	cum	2130.82
4	2.7 vol II	Dismantling kerb stone by manual means and disposal of dismantled material with all lifts and up to a lead upto 1000 meter and as per relevant clauses of section-200.	326.00	6.00	m	1956.00
5	2.12 vol II	Removal of telephone / Electric poles including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and up to a lead of 1000 meter and stacking the serviceable and unserviceable material separately.	33.00	90.00	each	2970.00

6	3.1, Vol III	Excavation				
		Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto1000 metres and as per relevant clauses of section-300				
		For Widening of Carriageway				
		Ch. 0 to 1132m, = 1132m	1664.04			
		At Junctions	183.75			
		Total quantity	1847.79	98.00	cum	1945.79
7	3.11, Vol III	Earthwork				
		Construction of Embankment/Sub grade/ earth shoulders, as per clause 305 & its sub-clauses, Where required but with approved materials/soil like morrum CBR value not less than 7% i/c all lead & lifts i/c excavation, cost of watering, mpaction and maintenance of surface during construction to ensure shedding & preventing ponding of water (clause 305.3.6) shaping & dressing (clause 305.3.7), finishing etc. complete but excluding scarifying existing granular/bituminous road surface vide clause 305.6.				
		For Widening of Carriageway				
		Ch. 0 to 1132m, = 1132m	792.40			
		At Junctions	87.50			
		Total quantity	879.90	272.00	cum	239332.80
8	4.8(a) I Vol III	Crusher Run Macadam				
		Crusher Run Macadam Base (Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a vibratory roller to clause 410 to form a layer of sub-base/Base)				
		For 53 mm maximum size				
		For Widening of Carriageway				
		Ch. 0 to 1132m, = 1132m	475.44			
		At Junctions	52.50			
		Total quantity	527.94	833.00	cum	439774.02
9	4.5 Vol III	WMM				

		Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper 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 desired density and as per relevant clauses of section - 400.				
		For Widening of Carriageway				
		Ch. 0 to 1132m, = 1132m	396.20			
		At Junctions	43.75			
		Total quantity	439.95	951.00	cum	418392.45
10	5.1 Vol III	Primer Coat				
		Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.75 kg/sqm using mechanical / Manual means and as per relevant clauses of section 502.				
		For Widening of Carriageway				
		Ch. 0 to 1132m, = 1132m	1584.80			
		At Junctions	175.00			
		Total quantity	1759.80	26.00	Sqm	45754.80
11	5.2 (i) Vol III	Tack Coat				
		Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor on the prepared bituminous / granular surface cleaned with mechanical broom and as per relevant clauses of section 503. '@0.25 kg per sqm				
		@0.25 kg per sqm (normal bituminous surfaces)				
		for bc 50mm	15134.40			
		at junctions	3600.00			
		Total quantity	18734.40	9.00	Sqm	168609.60
		@0.30 kg per sqm (dry & hungry bituminous surfaces/granular surfaces treated with primer)				
		on existing road for DBM	14716.00			
		On existing road for BC	14716.00			
		widening part	1584.80			
		At Junctions				
		on existing road for DBM	1625.00			
		On existing road for BC	1625.00			

		widening part	175.00			
		Total quantity	34441.80	11.00	sqm	378859.80
12	5.6 (i) Vol III	Dense Bituminous Macadam				
		Providing and laying dense bituminous macadam with hot mix plant batch using crushed aggregates of specified grading, premixed with bituminous binder, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction complete in all respects and as per relevant clauses of section-507. (Only cement will be used as filler) (for Grading I (80-100mm thickness) cum 7161.00)				
		On Existing Road	1471.60			
		widening part	158.48			
		At Junctions				
		On Existing Road	162.50			
		widening part	325.00			
		Total quantity	2117.58	7161.00	cum	15163990.38
13	5.8 (iv) Vol III	Bituminous Concrete				
		Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified grading,premixed with bituminous binder,transporting the hot mix to work site,laying with a mechanical paver finisher to the required grade,level and alignment,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects and as per relevant clauses of section-509.(Only cement will be used as filler). iv) for Grading II (30-45 mm thickness) with 60/70 bitumen				
		On Existing Road	588.64			
		widening part	63.39			
		At Junctions				
		On Existing Road	65.00			
		widening part	130.00			
		Total quantity	847.03	8226.00	cum	6967685.23

14	8.1 (A) Vol III	Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications.				
			2264.00			
			2264.00	189.00	meter	427896.00
15	4.1 vol II	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.				
	4.1.4	Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate				
			118.86			
			118.86	3595.00	Cum	427301.70
16	2.27 voll	Supplying and filling in plinth under floors including,watering, ramming consolidating and dressing complete.				
			118.86			
	2.27.1	Crusher Stone Dust	118.86	628.00	Cum	74644.08
	5.4	Providing and laying levelling course/profile corrective course with bituminous macadam with hot mix plant using crushed aggregates of grading-1 premixed prepared surface with mechanical paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction complete in all respects and as per relevant clauses of section-500.				
		taking 20% of existing road	588.64			
			117.73	5396.00		635260.29
Total						25526550.04

ESTIMATE OF UTILITY DUCT

**ROAD STRECH FROM MADAN MAHAL POLICE STATION TO RANITAAL JUNCTION
LENGTH 1132 METERS**

S No.	UADD SOR ITEM NO	Descriptions of Item	Measurement	Rate	Unit	Amount
			Quantity			
1	2.9.1, Vol II	Excavation				
		Excavation work in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.				
		Ordinary rock				
		Excavation for Duct	9961.60			
			1100.00			
		Total Excavation	11061.60	202.00	cum	2234443.20
2	2.27.1 Vol II	Filling				
		Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete. 2.27.1 Crusher Stone Dust				
		For Duct	452.80			
			50.00			
		Total	502.80	628.00	cum	315758.40
3	4.1.1 Vol II	Cement Concrete M-15(Duct)				
		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.				
		M 15 with 20mm maxumum size of aggregate.				
		P.C.C Bed	452.80			
		At Junctions	50.00			
			502.80	4154.00	cum	2088631.20

4	5.1.1 Vol II	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete. All work up to floor 2 level.				
		Along Road				
		R.C.C. Base	628.26			
		R.C.C. Wall	1086.72			
		Middle RCC wall	509.40			
		At Junctions				
		R.C.C. Base	75.00			
		R.C.C. Wall	60.00			
		Middle RCC wall	112.50			
		Total quantity of M20 Concrete	2471.88	5245.00	cum	12965010.60

5	Vol II 5.10	Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate)				
		Along Road				
		Precast Cover	418.84			
		For Chamber				
		RCC Cover for Chamber	10.64			
		Total quantity	429.48	6524.00	cum	2801911.21
6	5.20.6 Vol II	Reinforcement for Duct				
		Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
		Taking average weight for estimate (Payable as actual design & weight calculations) Total quantity	155234.06			
			26971.19			
			182205.25	60.00	Kg	10932315.06
7	20.1.1 Vol II	Form work for Duct				
		Centering and shuttering including strutting, propping etc.and removal of form for : 20.1.1 Foundations, footings, bases of columns, etc. For mass concrete.				
		Along Road				
		R.C.C. wall outer	7244.80			
		R.C.C. wall inner	6792.00			
		R.C.C. Base wall	679.20			
		Middle Wall	6792.00			
		At Junction				
		R.C.C. wall outer	1700.00			
		R.C.C. wall inner	1600.00			
		R.C.C. Base wall	150.00			
		Middle Wall	1500.00			
		Total quantity	26458.00	138.00	cum	3651204.00
8	6.1 Vol II	Brick work with well burnt chimney bricks in bulls patent trench kiln manufactured by ghol process,crushing strength not less than 40kg /sqcm and water absorption not more than 15% in foundation and plinth.				

		Cement mortar 1:6 (1 cement : 6 coarse sand)	6.07	4232.00	cum	25696.70
9	13.2 Vol II	15mm cement plaster on the rough side of single or half brick wall of mix :				
		1:5 (1 cement: 5 fine sand)	30.36	119.00	cum	3612.84
10	2.27.2 Vol II	Sand Filling				
		Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.				
		Local Sand	4912.88			
			1085.00			
			5997.88	1201.00	cum	7203453.88
TOTAL						42222037.09

ESTIMATE OF STORM WATER DRAIN						
ROAD STRECH FROM MADAN MAHAL POLICE STATION TO RANITAAL JUNCTION						
LENGTH 1132 METERS						
S No.	UADD SOR ITEM NO	Descriptions of Item	Measurement Quantity	Unit	Rate	Amount
1	2.9.1, Vol II	Excavation work in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.				
	2.9.1	Ordinary rock	1811.20			
		At Junction	200.00			
			2011.20	cum	202.00	406262.40
2	2.27.1 Vol II	Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.				
	2.27.1	Crusher Stone Dust	181.12			
		At Junction	20.00			
			201.12	cum	628.00	126303.36
3	4.1.2 Vol II	Cement Concrete M-20 (Duct)				
		Providing and laying Plain / Reinorced cement concrete (mixed in concrete mixture) ... RCC Grade				
		M 15 with 20mm maxumum size of aggregate.				
		P.C.C Bed	181.12			
			20.00			
			201.12	cum	4154.00	835452.48
4	5.1.1 Vol II	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete. All work up to floor 2 level.				
		Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.				
		Along Road				
		RCC Base 100 MM Thick	181.12			
		R.C.C. Wall 100 MM Thick	294.32			
		At Junction				
		RCC Base 100 MM Thick	40.00			
		R.C.C. Wall 100 MM Thick	65.00			
		TOTAL QUANTITY OF RCC	580.44	cum	5245.00	3044407.80

5	5.10	Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate)				
		Along Road				
		Precast Grating Cover for Drains	181.12			
		At Junctions				
		Precast Grating Cover for Drains	40.00			
		Total quantity	221.12	6524.00	cum	1442586.88
6	5.20.6 Vol II	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
	5.20.6	Thermo-Mechanically Treated bars				
		Total Weight of steel KG-	36451.63			
		Total Weight of steel KG-	13886.34			
			50337.97	60.00	Kg	3020278.08
7	20.1.1 Vol II	Form work for Duct				
		Centering and shuttering including strutting, propping etc.and removal of form for :				
	20.1.1	Foundations, footings, bases of columns, etc. For mass concrete.				
		Along Road				
		R.C.C. wall outer	2943.20			
		R.C.C. wall inner	2943.20			
		At Junction				
		R.C.C. wall outer	650.00			
		R.C.C. wall inner	650.00			
		Total quantity	7186	138	Sqm	991723.20
TOTAL						9867014.20

ESTIMATE OF PEDESTRIAN PATH						
ROAD STRECH FROM MADAN MAHAL POLICE STATION TO RANITAAL JUNCTION						
LENGTH 1132 METERS						
S No.	UADD SOR ITEM NO	Descriptions of Item	Measurement Quantity	Rate	Unit	Amount
1	3.1, Vol III	Excavation				
		Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto 1000 metres and as per relevant clauses of section-300				
		Ch 0 - 1132	2830.00			
		At Junctions	312.50			
		Total	3142.50	98.00	cum	307965.00
2	3.11, Vol III	Earthwork				
		Construction of Embankment/Sub grade/ earth shoulders, as per clause 305 & its sub-clauses, Where required but with approved materials/soil like morrum CBR value not less than 7% i/c all lead & lifts i/c excavation, cost of watering, mpaction and maintenance of surface during construction to ensure shedding & preventing ponding of water (clause 305.3.6) shaping & dressing (clause 305.3.7), finishing etc. complete but excluding scarifying existing granular/bituminous road surface vide clause 305.6.				
		Along Road	1698.00			
		At Junction	187.50			
		Total	1698.00	272.00	cum	461856.00
3	4.1.5 Vol II	Cement Concrete M - 10				
		Providing and laying in position cement concrete in foundation Up to plinth level. Cement concrete grade M-10 (Nominal Mix) with 40 mm maximum size of stone aggregate				
		Footpath M - 10 Along Road	849.00			
		At junction	93.75			
			942.75	3528.00	Sqm	3326022.00
4	5.1. Vol II	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
		Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.				
			55.80	4728.00	Sqm	263822.40

		Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
		Thermo-Mechanically Treated bars				
		Total Weight of steel KG-	2628.18	60	Kg	157690.80
5	11.29	Flag Stone				
		40 mm thick rubbed local Flag stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement :5 coarse sand) with joints 3mm thick, side buttered with cement mortar 1:2 (1 cement : 2 stone dust) admixed with pigment to match the shade of stone and pointing with same mortar (minimum size of kota stone 0.25 sqm)				
		Along Road				
	11.30.1	Red sand stone	2240.00	513.00	Sqm	1149120.00
	11.30.2	White sand stone	1480.00	532.00	Sqm	787360.00
		At Junction				
	11.30.1	Red sand stone	250.00	513.00	Sqm	128250.00
	11.30.2	White sand stone	250.00	532.00	Sqm	133000.00
6	11.20 Vol II	Chequerred precast cement concrete tiles 18-20mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).				
		Along Road				
	11.20.3	Dark shade using ordinary cement.	930.00	616.00	SqM	572880.00
		At junction				
		Dark shade using ordinary cement.	125.00	616.00	SqM	77000.00
7	8.1, Vol III, pg 69	Kerb Stone				
		Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications. A Using Concrete Mixer				
		at Junction	1580.00			
		at Junction	250.00			
			1830.00	187.00	meter	342210.00
		TOTAL				7707176.20

ESTIMATE OF ROAD MARKING, STREET FURNITURES & PLANTATION						
ROAD STRECH FROM MADAN MAHAL POLICE STATION TO RANITAAL JUNCTION						
LENGTH 1132 METERS						
S No.	UADD SOR ITEM NO	Descriptions of Item		Rate	Unit	Amount
			Quantity			
1	Item 8.10 Vol III	Road Marking				
		Solid Lines in White Colour				
		Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes and as per relevant clauses of section-800.				
		Solid Lines in White Colour	209.00			
		Brocken Lines in White Colour	104.50			
		Stop Lines in White Colour	41.80			
		Applying Zebra Crossing	350.00			
			705.30	900.00	Sqm	634770.00
2	Item 8.8 Vol III	Painting lines, dashes, arrows etc				
		Painting lines, dashes, arrows etc on roads in two coats on new work with ready mixed road marking paint conforming to IS:164 on bituminous surface, including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control as per relevant clauses of section-800 & I.R.C.-67 including cost of paint etc. complete.				
			522.50	70.00	Sqm	36575.00
3	Item No 8.3 Vol III	Signages				
		Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm (height from crown level of the road and bottom of the sign board shall not be less than 1.5 m.) firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing including painting of vertical post as per specification.				
		90 cm equilateral triangle	5.00	3715.00	Nos	18575.00
		80 cm x 60 cm rectangular	10.00	4537.00	Nos	45370.00

4	8.12 Vol III	Road Delineators (Supplying and installation of delineators (road way indicators, hazard markers, object markers), 80-100 cm high above ground level, painted black and white in 15 cm wide stripes, fitted with 80 x 100 mm rectangular or 75mm dia circular reflectorised panels at the top, buried or pressed into the ground and conforming to IRC-79 and the drawings as per relevant clauses of section-800 of specifications.	40.00	292.00	each	11680.00
5	8.20 Vol III	Road Markers/Road Stud with Lense Reflector (Providing and fixing of road stud 100x 100 mm, dia cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS 873 part 4:1973)	40.00	292.00	each	11680.00
6	11.1 Vol III	Planting Permanent Hedges including Digging of Trenches (Planting permanent hedges including digging of trenches, 60 cm wide and 45 cm deep, refilling the excavated earth mixed with farmyard manure, supplied at the rate of 4.65 cum per 100 meters and supplying and planting hedge plants at 30 cm apart)	1200.00	230.00	Meter	276000.00
7	11.2 Vol III	Planting of Trees and their Maintenance for one Year (Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge manure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year)	90.00	488.00	Nos	43920.00
8	23.15 MP PWD SOR	Providing and planting different variety of plants of approved quality and sizes as mentioned including making pits of required size at site, refilled with B.C. Soil mixture manuring and pesticide etc complete (to be paid separately) including watering and 90 days maintenance from the date of final bill as per direction of engineer in charge complete in all respect (B.C Mixture paid separately).				
	23.15.1	Any of one from Plameriya alba, fycus benjameena. Malkikeya champa. Begnonia plumaric pudoca Plants (1.8 mtrs to 2.10 mtrs height.	100.00	645	each	64500.00
	23.15.2	Any of one from Lantana VAR Red, Lantana Blue White, Hemelia Mini. lantana varicated, ticoma Redicens, Spi Oala, Golden Dunanta.(height 0.3 m to 0.45m)	1200.00	33	each	39600.00

9	11.5 vol-3	Tree Guard with MS Angle Iron and Steel Wire (Providing and fixing tree guard 0.60 square meter, 2.00 meter high fabricated with MS angle iron 30 x 30 x 3 mm, MS iron 25 x 3 mm and steel wire 3 mm dia welded and fabricated as per design in two halves bolted together)	90.00	2179	each	196110.00
TOTAL						1378780.00

ROAD STRECH FROM RANITAAL JUNCTION TO BALDEOBAGH**SUMMARY SHEET**

Sr No.	Item Description	Amount (In Rs.)
1	ROAD	25715026.02
2	UTILITY DUCT	30163498.57
3	STORM WATER DRAIN	8082073.80
4	PEDESTARIAN TRACK	6882278.00
5	SIGNAGES, MARKING, LANDSCAPING	1104567.00
TOTAL		71947443.39

ESTIMATE OF ROAD
ROAD FROM STRECH RANITAAL JUNCTION TO BALDEOBAGH

S.No.	UADD SOR Vol II & III, ITEM NO	Descriptions of Item	Quantity	Rate	Unit	Amount in Rs.
1	2.3, (i)	Dismantling				
		Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead 1000 meter.				
		Cement Concrete Grade M-15 & M-20	260.85	234.00	cum	61038.90
2	2.40	Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200.				
		Bituminous courses taking 10% of the total	1677.00			
		Bituminous courses	167.70	358.00	cum	60036.60
3	2.5 vol III	Dismantling of cement concrete pavement i/c breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead upto 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200.	81.68	716.00	cum	58479.30
4	2.7 vol II	Dismantling kerb stone by manual means and disposal of dismantled material with all lifts and up to a lead upto 1000 meter and as per relevant clauses of section-200.				
			168.00	6.00	m	1008.00
5	2.12 vol II	Removal of telephone / Electric poles including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and up to a lead of 1000 meter and stacking the serviceable and unserviceable material separately.				
			15.00	90.00	each	1350.00
6	3.1, Vol III	Excavation				
		Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto 1000 metres and as per relevant clauses of section-300				
		For Widening of Carriageway				
		Ch. 0 to 860m, = 860m	5779.20			
			806.40			
		Total	6585.60	98.00	cum	6683.60
7	3.11, Vol III	Earthwork				

		Construction of Embankment/Sub grade/ earth shoulders, as per clause 305 & its sub-clauses, Where required but with approved materials/soil like morrum CBR value not less then 7% i/c all lead & lifts i/c excavation, cost of watering, mpaction and maintenance of surface during construction to ensure shedding & preventing ponding of water (clause 305.3.6) shaping & dressing (clause 305.3.7), finishing etc. complete but excluding scarifying existing granular/bituminous road surface vide clause 305.6.				
		For Widening of Carriageway				
		Ch. 0 to 860m, = 860m	2752.00			
		at Junctions	384.00			
		Total	3136.00	272.00	cum	852992.00
8	4.8(a) I Vol III	Crusher Run Macadam				
		Crusher Run Macadam Base (Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a vibratory roller to clause 410 to form a layer of sub-base/Base)				
		For 53 mm maximum size				
		For Widening of Carriageway				
		Ch. 0 to 860m, = 860m	1651.20			
			230.40			
		Total	1881.60	833.00	cum	1567372.80
9	4.5 Vol III	WMM				
		Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper 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 desired density and as per relevant clauses of section - 400.				
		For Widening of Carriageway				
		Ch. 0 to 860m, = 860m	1376.00			
			192.00			
		Total quantity	1568.00	951.00	cum	1491168.00
10	5.1 Vol III	Primer Coat				
		Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.75 kg/sqm using mechanical / Manual means and as per relevant clauses of section 502.				
		For Widening of Carriageway				
		Ch. 0 to 860m, = 860m	5504.00			
			768.00			
		Total quantity	6272.00	26.00	Sqm	163072.00
11	5.2 (i) Vol III	Tack Coat				

		Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor on the prepared bituminous / granular surface cleaned with mechanical broom and as per relevant clauses of section 503.				
		@0.25 kg per sqm (normal bituminous surfaces)				
		On DBM for BC 50mm	12384.00			
		At widening Part	5504.00			
		On DBM for BC 50mm at junctions	1728.00			
			768.00			
			20384.00	9.00	Sqm	183456.00
		@ 0.30 kg per sqm (dry & hungry bituminous surfaces/granular surfaces treated with primer)				
		On Existing for DBM	11180.00			
		widening part	5504.00			
		On Existing for DBM	1560.00			
		widening part	768.00			
		Total quantity	19012.00	11.00	sqm	209132.00
12	5.6 (i) Vol III	Dense Bituminous Macadam				
		Providing and laying dense bituminous macadam with hot mix plant batch using crushed aggregates of specified grading, premixed with bituminous binder, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction complete in all respects and as per relevant clauses of section-507. (Only cement will be used as filler) (for Grading I (80-100mm thickness) cum 7161.00)				
		For Existing road	1118.00			
		widening part	550.40			
		For Existing road	156.00			
		widening part	76.80			
		Total quantity	1901.20	7161.00	cum	13614493.20
13	5.8 (iv) Vol III	Bituminous Concrete				
		Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified grading,premixed with bituminous binder,transporting the hot mix to work site,laying with a mechanical paver finisher to the required grade,level and alignment,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects and as per relevant clauses of section-509.(Only cement will be used as filler). iv) for Grading II (30-45 mm thickness) with 60/70 bitumen				
		For Existing road	447.20			
		widening part	220.16			

		For Existing road	62.40			
		widening part	30.72			
		Total quantity	760.48	8226.00	cum	6255708.48
14	8.1 (A) Vol III	Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications.				
			1720.00			
			1720.00	189.00	meter	325080.00
15	4.1 vol II	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.				
			90.30			
	4.1.4	Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate	90.30	3595.00	Cum	324628.50
16	2.27 Vol II	Supplying and filling in plinth under floors including,watering, ramming consolidating and dressing complete.				
			90.30			
	2.27.1	Crusher Stone Dust	90.30	628.00	Cum	56708.40
17	5.4 VOL.3	Providing and laying levelling course/profile corrective course with bituminous macadam with hot mix plant using crushed aggregates of grading-1 premixed with bituminous binder @ 3.1%, transported to site, laid over a previously prepared surface with mechanical paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction complete in all respects and as per relevant clauses of section-500.				
		taking 20% of existing road	447.20			
			89.44	5396.00	Cum	482618.24
	TOTAL					25715026.02

ESTIMATE OF ELECTRICAL DUCT

ROAD STRECH FROM RANITAAL JUNCTION TO BALDEOBAGH LENGTH 860 METERS

S No.	UADD SOR ITEM NO	Descriptions of Item	Quantity	Rate	Unit	Amount
1	2.9.1, Vol II	Excavation				
		Excavation work in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.				
		Ordinary rock				
		Excavation for Duct	7568.00			
			1056.00			
		Total Excavation	8624.00	202.00	cum	1742048.00
2	2.27.1 Vol II	Filling				
		Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete. 2.27.1 Crusher Stone Dust				
		For Duct	344.00			
			48.00			
		Total	392.00	628.00	cum	246176.00
3	4.1.1 Vol II	Cement Concrete M-15(Duct)				
		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.				
		M 15 with 20mm maxumum size of aggregate.				
		P.C.C Bed	344.00			
		At Junctions	48.00			
			392.00	4154.00	cum	1628368.00

4	5.1.1 Vol II	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete. All work up to floor 2 level.				
		Along Road				
		R.C.C. Base	477.30			
		R.C.C. Wall	825.60			
		Middle RCC wall	387.00			
		For Chamber				
		RCC Cover for Chamber	4.25			
		At Junctions				
		R.C.C. Base	72.00			
		R.C.C. Wall	115.20			
		Middle RCC wall	54.00			
		Total quantity of M20 Concrete	1935.35	5245.00	cum	10150910.75
5	Vol II 5.10	Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate)				
		Along Road				
		Precast Cover	318.20			
		For Chamber				
		RCC Cover for Chamber	8.33			
		Total quantity	326.53	6524.00	cum	2130249.10
6	5.20.6 Vol II	Reinforcement for Duct				
		Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
	5.20.6	Thermo-Mechanically Treated bars.				

		Taking average weight for estimate (Payable as actual design & weight calculations)	113943.73			
			20505.77			
			134449.50	60.00	Kg	8066970.08
7	20.1.1 Vol II	Form work for Duct				
		Centering and shuttering including strutting, propping etc.and removal of form for : 20.1.1 Foundations, footings, bases of columns, etc. For mass concrete.				
		Along Road				
		R.C.C. wall outer	5504.00			
		R.C.C. wall inner	5160.00			
		R.C.C. Base wall	516.00			
		Middle Wall	5160.00			
		At Junction				
		R.C.C. wall outer	1632.00			
		R.C.C. wall inner	1536.00			
		R.C.C. Base wall	144.00			
		Middle Wall	1440.00			
		Total quantity	21092.00	138.00	cum	2910696.00
8	6.1 Vol II	Brick work with well burnt chimney bricks in bulls patent trench kiln manufactured by ghol process,crushing strength not less than 40kg /sqcm and water absorption not more than 15% in foundation and plinth.				
		Cement mortar 1:6 (1 cement : 6 coarse sand)	5.52	4232.00	cum	23360.64
9	13.2 Vol II	15mm cement plaster on the rough side of single or half brick wall of mix :				
		1:5 (1 cement: 5 fine sand)	27.60	119.00	cum	3284.40
10	2.27.2 Vol II	Sand Filling				
		Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.				
			1599.60			
			1116.00			
		Local Sand	2715.60	1201.00	cum	3261435.60
TOTAL						30163498.57

ESTIMATE OF STORM WATER DRAIN						
ROAD STRECH FROM RANITAAL JUNCTION TO BALDEOBAGH						
LENGTH 860 METERS						
S No.	UADD SOR ITEM NO	Descriptions of Item	Quantity	Unit	Rate	Amount
1	2.9.1, Vol II	Excavation work in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.				
		Ordinary rock	1376.00			
		At Junction	256.00			
			1632.00	cum	202.00	329664.00
2	2.27.1 Vol II	Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.				
		Crusher Stone Dust	137.60			
		At Junction	19.20			
		Crusher Stone Dust	156.80	cum	628.00	98470.40
3	4.1.2 Vol II	Cement Concrete M-20 (Duct)				
		Providing and laying Plain / Reinorced cement concrete (mixed in concrete mixture) ... RCC Grade				
		M 15 with 20mm maxumum size of aggregate.				
		P.C.C Bed	137.60			
			19.20			
		TOTAL QUANTITY	156.80	cum	4154.00	651347.20
4	5.1.1 Vol II	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete. All work up to floor 2 level.				
		Along Road				
		RCC Base 100 MM Thick	137.60			
		R.C.C. Wall 100 MM Thick	223.60			
		At Junction				
		RCC Base 100 MM Thick	38.40			
		R.C.C. Wall 100 MM Thick	62.40			
		TOTAL QUANTITY OF RCC	462.00	cum	5425.00	2506350.00

5	5.10	Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate)				
		Along Road				
		Precast Grating Cover for Drains	137.60			
		At Junctions				
		Precast Grating Cover for Drains	64.00			
		Total quantity	201.60	6524.00	cum	1315238.40
6	5.20.6 Vol II	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
	5.20.6	Thermo-Mechanically Treated bars				
		Total Weight of steel KG-	27200.25			
		Total Weight of steel KG-	12660.48			
			39860.73	60.00	Kg	2391643.80
7	20.1.1 Vol II	Form work for Duct				
		Centering and shuttering including strutting, propping etc.and removal of form for :				
	20.1.1	Foundations, footings, bases of columns, etc. For mass concrete.				
		Along Road				
		R.C.C. wall outer	2236.00			
		R.C.C. wall inner	2236.00			
		At Junction				
		R.C.C. wall outer	624.00			
		R.C.C. wall inner	624.00			
		Total quantity	5720	138	Sqm	789360.00
TOTAL						8082073.80

ESTIMATE OF PEDESTRIAN PATH

**ROAD STRECH FROM RANITAAL JUNCTION TO BALDEOBAGH
LENGTH 860 METERS**

S No.	UADD SOR ITEM NO	Descriptions of Item	Rate	Unit	Amount
1	3.1, Vol III	Excavation			
		Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto1000 metres and as per relevant clauses of section-300			
		Ch 0 - 1132			
		At Junctions			
		Total	98.00	cum	288120.00
2	3.11, Vol III	Earthwork			
		Construction of Embankment/Sub grade/ earth shoulders, as per clause 305 & its sub-clauses, Where required but with approved materials/soil like morrum CBR value not less then 7% i/c all lead & lifts i/c excavation, cost of watering, mpaction and maintenance of surface during construction to ensure shedding & preventing ponding of water (clause 305.3.6) shaping & dressing (clause 305.3.7), finishing etc. complete but excluding scarifying existing granular/bituminous road surface vide clause 305.6.			
		Along Road			
		At Junction			
		Total	272.00	cum	421056.00
3	4.1.5 Vol II	Cement Concrete M - 10			
		Providing and laying in position cement concrete in foundation Up to plinth level. Cement concrete grade M-10 (Nominal Mix) with 40 mm maximum size of stone aggregate			
		Footpath M - 10 Along Road			
		At junction			
			3528.00	Sqm	3111696.00
4	5.1. Vol II	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :			
		Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.			
			4728.00	Sqm	184392.00

		Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.			
		Thermo-Mechanically Treated bars			
		Total Weight of steel KG-	60	Kg	110214.00
5	11.29	Flag Stone			
		40 mm thick rubbed local Flag stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement :5 coarse sand) with joints 3mm thick, side buttered with cement mortar 1:2 (1 cement : 2 stone dust) admixed with pigment to match the shade of stone and pointing with same mortar (minimum size of kota stone 0.25 sqm)			
		Along Road			
	11.30.1	Red sand stone	513.00	Sqm	1026000.00
	11.30.2	White sand stone	532.00	Sqm	665000.00
		At Junction			
	11.30.1	Red sand stone	513.00	Sqm	153900.00
	11.30.2	White sand stone	532.00	Sqm	159600.00
6	11.20 Vol II	Chequerred precast cement concrete tiles 18-20mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).			
		Along Road			
	11.20.3	Dark shade using ordinary cement.	616.00	SqM	400400.00
		At junction			
		Dark shade using ordinary cement.	616.00	SqM	73920.00
7	8.1, Vol III, pg 69	Kerb Stone			
		Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications. A Using Concrete Mixer			
		at Junction			
		at Junction			
			187.00	meter	287980.00
TOTAL					6882278.00

ESTIMATE OF ROAD MARKING, STREET FURNITURES & PLANTATION					
ROAD STRECH FROM RANITAAL JUNCTION TO BALDEOBAGH					
LENGTH 860 METERS					
S No.	UADD SOR ITEM NO	Descriptions of Item	Rate	Unit	Amount
1	Item 8.10 Vol III	Road Marking			
		Solid Lines in White Colour			
		Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes and as per relevant clauses of section-800.			
		Solid Lines in White Colour			
		Brocken Lines in White Colour			
		Stop Lines in White Colour			
		Applying Zebra Crossing			
			900.00	Sqm	531810.00
2	Item 8.8 Vol III	Painting lines, dashes, arrows etc			
		Painting lines, dashes, arrows etc on roads in two coats on new work with ready mixed road marking paint conforming to IS:164 on bituminous surface, including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control as per relevant clauses of section-800 & I.R.C.-67 including cost of paint etc. complete.			
			70.00	Sqm	25550.00
3	Item No 8.3 Vol III	Signages			
		Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm (height from crown level of the road and bottom of the sign board shall not be less than 1.5 m.) firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing including painting of vertical post as per specification.			
		90 cm equilateral triangle	3715.00	Nos	11145.00
		80 cm x 60 cm rectangular	4537.00	Nos	27222.00
4	8.12 Vol III	Road Delineators (Supplying and installation of delineators (road way indicators, hazard markers, object markers), 80-100 cm high above ground level, painted black and white in 15 cm wide stripes, fitted with 80 x 100 mm rectangular or 75mm dia circular reflectorised panels at the top, buried or pressed into the ground and conforming toIRC-79 and the drawings as per relevant clauses of section-800 of specifications.			
			292.00	each	8760.00

5	8.20 Vol III	Road Markers/Road Stud with Lense Reflector (Providing and fixing of road stud 100x 100 mm, dia cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS 873 part 4:1973)	292.00	each	8760.00
6	11.1 Vol III	Planting Permanent Hedges including Digging of Trenches (Planting permanent hedges including digging of trenches, 60 cm wide and 45 cm deep, refilling the excavated earth mixed with farmyard manure, supplied at the rate of 4.65 cum per 100 meters and supplying and planting hedge plants at 30 cm apart)	230.00	Meter	253000.00
7	11.2 Vol III	Planting of Trees and their Maintenance for one Year (Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge manure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year)	488.00	Nos	29280.00
8	23.15 MP PWD SOR	Providing and planting different variety of plants of approved quality and sizes as mentioned including making pits of required size at site, refilled with B.C. Soil mixture manuring and pesticide etc complete (to be paid separately) including watering and 90 days maintenance from the date of final bill as per direction of engineer in charge complete in all respect (B.C Mixture paid separately).			
	23.15.1	Any of one from Plameriya alba, fycus benjameena. Malkikeya champa. Begnonia plumaric pudoca Plants (1.8 mtrs to 2.10 mtrs height.	645	each	38700.00
	23.15.2	Any of one from Lantana VAR Red, Lantana Blue White, Hemelia Mini. lantana varicated, ticoma Redicens, Spi Oala, Golden Dunanta.(height 0.3 m to 0.45m)	33	each	39600.00
9	11.5 vol-3	Tree Guard with MS Angle Iron and Steel Wire (Providing and fixing tree guard 0.60 square meter, 2.00 meter high fabricated with MS angle iron 30 x 30 x 3 mm, MS iron 25 x 3 mm and steel wire 3 mm dia welded and fabricated as per design in two halves bolted together)	2179	each tree guard	130740.00
		TOTAL			1104567.00

**ROAD STRECH FROM YATAYAT TIRAHA TO PRANJAPE CHOWK (HANUMAN MANDIR)
LENGTH 824 METERS**

SUMMARY SHEET		
Sr No.	Item Description	Amount (In Rs.)
1	ROAD	22013262.52
2	UTILITY DUCT	27354243.30
3	STORM WATER DRAIN	7782779.44
4	PEDESTARIAN TRACK	7275577.20
5	SIGNAGES, MARKING, LANDSCAPING	1574925.00
TOTAL		66000787.46

ESTIMATE OF ROAD
ROAD STRECH FROM YATAYAT TIRAHA TO PRANJAPE CHOWK (HANUMAN MANDIR)

S.No.	UADD SOR Vol II & III	Descriptions of Item	Quantity	Rate	Unit	Amount in Rs.
1	2.3 Vol III	Dismantling				
		Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead 1000 meter.				
		Cement Concrete Grade M-15 & M-20	260.85	234.00	cum	61038.90
2		Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200.				
		Bituminous courses taking 10% of Total	1606.80			
		Bituminous courses	160.68	358.00	cum	57523.44
3	2.5 vol III	Dismantling of cement concrete pavement i/c breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead upto 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200.	81.68	716.00	cum	58479.30
4	2.7 vol II	Dismantling kerb stone by manual means and disposal of dismantled material with all lifts and up to a lead upto 1000 meter and as per relevant clauses of section-200.	168.00	6.00	m	1008.00
5	2.12 vol II	Removal of telephone / Electric poles including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and up to a lead of 1000 meter and stacking the serviceable and unserviceable material separately.	20.00	90.00	each	1800.00
6	3.1, Vol III	Excavation				
		Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto 1000 metres and as per relevant clauses of section-300				
		For Widening of Carriageway				
		Ch. 0 to 824m, = 824m	5537.28			
		Total	5537.28	98.00	cum	5635.28
7	3.11, Vol III	Earthwork				
		Construction of Embankment/Sub grade/ earth shoulders, as per clause 305 & its sub-clauses, Where required but with approved materials/soil like morrum CBR value not less then 7% i/c all lead & lifts i/c excavation, cost of watering, mpaction and maintenance of surface during construction to ensure shedding & preventing ponding of water (clause 305.3.6) shaping & dressing (clause 305.3.7), finishing etc. complete but excluding scarifying existing granular/bituminous road surface vide clause 305.6.				
		For Widening of Carriageway				
		Ch. 0 to 824m, = 824m	2636.80			
		Total	2636.80	272.00	cum	717209.60
8	4.8(a) I Vol III	Crusher Run Macadam				

		Crusher Run Macadam Base (Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a vibratory roller to clause 410 to form a layer of sub-base/Base)				
		For 53 mm maximum size				
		For Widening of Carriageway				
		Ch. 0 to 824m, = 824m	1582.08			
		Total	1582.08	833.00	cum	1317872.64
9	4.5 Vol III	WMM				
		Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper 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 desired density and as per relevant clauses of section - 400.				
		For Widening of Carriageway				
		Ch. 0 to 824m, = 824m	1318.40			
		Total quantity	1318.40	951.00	cum	1253798.40
10	5.1 Vol III	Primer Coat				
		Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.75 kg/sqm using mechanical / Manual means and as per relevant clauses of section 502.				
		For Widening of Carriageway				
		Ch. 0 to 824m, = 824m	5273.60			
		Total quantity	5273.60	26.00	Sqm	137113.60
11	5.2 (i) Vol III	Tack Coat				
		Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor on the prepared bituminous / granular surface cleaned with mechanical broom and as per relevant clauses of section 503.				
		@0.25 kg per sqm (normal bituminous surfaces)				
		On DBM for BC 50mm	11865.60			
		At widening Part	5273.60			
		On DBM for BC 50mm at junctions	1728.00			
			768.00			
			19635.20	9.00	Sqm	176716.80
		@ 0.30 kg per sqm (dry & hungry bituminous surfaces/granular surfaces treated with primer)				
		On Existing for DBM	10712.00			
		widening part	5273.60			
		At Junction				
		On Existing for DBM	520.00			
		widening part	256.00			
		Total quantity	16761.60	11.00	sqm	184377.60
12	5.6 (i) Vol III	Dense Bituminous Macadam				

		Providing and laying dense bituminous macadam with hot mix plant batch using crushed aggregates of specified grading, premixed with bituminous binder, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction complete in all respects and as per relevant clauses of section-507. (Only cement will be used as filler) (for Grading I (80-100mm thickness) cum 7161.00)				
		On Existing road surface	1071.20			
		widening part	527.36			
		Total quantity	1598.56	7161.00	cum	11447288.16
13	5.8 (iv) Vol III	Bituminous Concrete				
		Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified grading,premixed with bituminous binder,transporting the hot mix to work site,laying with a mechanical paver finisher to the required grade,level and alignment,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects and as per relevant clauses of section-509.(Only cement will be used as filler). iv) for Grading II (30-45 mm thickness) with 60/70 bitumen				
		On Existing road surface	428.48			
		widening part	210.94			
		Total quantity	639.42	8226.00	cum	5259901.82
14	8.1 (A) Vol III	Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications.				
			1648.00			
			1648.00	189.00	meter	311472.00
15	4.1 vol II	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.				
			115.36			
	4.1.4	Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate	115.36	3595.00	Cum	414719.20
16	2.27 voll	Supplying and filling in plinth under floors including,watering, ramming consolidating and dressing complete.				
	2.27.1	Crusher Stone Dust	230.72			
	2.27.1	Crusher Stone Dust	230.72	628.00	Cum	144892.16
17	Volume 3,item no.5.4, page 51	Providing and laying levelling course/profile corrective course with bituminous macadam with hot mix plant using crushed aggregates of grading-1 premixed with bituminous binder @ 3.1%, transported to site, laid over a previously prepared surface with mechanical paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction complete in all respects and as per relevant clauses of section-500.				
						462415.62

		taking 20% of existing road	428.48			
			85.70	5396.00	Cum	
	Total					22013262.52

ESTIMATE OF ELECTRICAL DUCT

ROAD STRECH FROM YATAYAT TIRAHA TO PRANJAPE CHOWK (HANUMAN MANDIR)

LENGTH 824 METERS

S No.	UADD SOR ITEM NO	Descriptions of Item	Rate	Unit	Amount	
			Quantity			
1	2.9.1, Vol II	Excavation				
		Excavation work in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.				
		Ordinary rock				
		Excavation for Duct	7251.20			
			1056.00			
		Total Excavation	8307.20	202.00	cum	1678054.40
2	2.27.1 Vol II	Filling				
		Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete. 2.27.1 Crusher Stone Dust				
		For Duct	329.60			
			48.00			
		Total	377.60	628.00	cum	237132.80
3	4.1.1 Vol II	Cement Concrete M-15(Duct)				
		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.				
		M 15 with 20mm maxumum size of aggregate.				
		P.C.C Bed	329.60			
		At Junctions	48.00			
			377.60	4154.00	cum	1568550.40

4	5.1.1 Vol II	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete. All work up to floor 2 level.				
		Along Road				
		R.C.C. Base	457.32			
		R.C.C. Wall	791.04			
		Middle RCC wall	370.80			
		For Chamber				
		RCC Cover for Chamber	4.25			
		At Junctions				
		R.C.C. Base	72.00			
		R.C.C. Wall	115.20			
		Middle RCC wall	54.00			
		Total quantity of M20 Concrete	1864.61	5245.00	cum	9779879.45
5	Vol II 5.10	Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate)				
		Along Road				
		Precast Cover	304.88			
		For Chamber				
		RCC Cover for Chamber	6.48			
		Total quantity	311.36	6524.00	cum	2031280.02
6	5.20.6 Vol II	Reinforcement for Duct				
		Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
	5.20.6	Thermo-Mechanically Treated bars.				

		Taking average weight for estimate (Payable as actual design & weight calculations)	109778.91			
		Total Weight of steel KG-	19553.09			
			129332.01	60.00	Kg	7759920.47
7	20.1.1 Vol II	Form work for Duct				
		Centering and shuttering including strutting, propping etc.and removal of form for : 20.1.1 Foundations, footings, bases of columns, etc. For mass concrete.				
		Along Road				
		R.C.C. wall outer	5273.60			
		R.C.C. wall inner	4944.00			
		R.C.C. Base wall	494.40			
		Middle Wall	4944.00			
		At Junction				
		R.C.C. wall outer	1632.00			
		R.C.C. wall inner	1536.00			
		R.C.C. Base wall	144.00			
		Middle Wall	1440.00			
		Total quantity	20408.00	138.00	cum	2816304.00
8	6.1 Vol II	Brick work with well burnt chimney bricks in bulls patent trench kiln manufactured by ghol process,crushing strength not less than 40kg /sqcm and water absorption not more than 15% in foundation and plinth.				
		Cement mortar 1:6 (1 cement : 6 coarse sand)	5.52	4232.00	cum	23360.64
9	13.2 Vol II	15mm cement plaster on the rough side of single or half brick wall of mix : 1:5 (1 cement: 5 fine sand)	27.60	119.00	cum	3284.40
10	2.27.2 Vol II	Sand Filling				
		Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.				
			766.32			
		Local Sand	446.40			
			1212.72	1201.00	cum	1456476.72
TOTAL						27354243.30

ESTIMATE OF STORM WATER DRAIN						
ROAD STRECH FROM YATAYAT TIRAHA TO PRANJAPE CHOWK (HANUMAN MANDIR)						
LENGTH 824 METERS						
S No.	UADD SOR ITEM NO	Descriptions of Item	Quantity	Unit	Rate	Amount
1	2.9.1, Vol II	Excavation work in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.				
	2.9.1	Ordinary rock Cum 202.00	1318.40			
		At Junction	320.00			
			1638.40	cum	202.00	330956.80
2	2.27.1 Vol II	Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.				
	2.27.1	Crusher Stone Dust	131.84			
		At Junction	32.00			
			163.84	cum	628.00	102891.52
3	4.1.2 Vol II	Cement Concrete M-20 (Duct)				
		Providing and laying Plain / Reinforced cement concrete (mixed in concrete mixture) ... RCC Grade				
		M 15 with 20mm maximum size of aggregate.				
		P.C.C Bed	131.84			
			32.00			
			163.84	cum	4154.00	680591.36
4	5.1.1 Vol II	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete. All work up to floor 2 level.				
		Along Road				
		RCC Base 100 MM Thick	131.84			
		R.C.C. Wall 100 MM Thick	214.24			
		At Junction				
		RCC Base 100 MM Thick	64.00			
		R.C.C. Wall 100 MM Thick	104.00			
		TOTAL QUANTITY OF RCC	514.08	cum	5245.00	2696349.60

5	5.10	Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate)				
		Along Road				
		Precast Grating Cover for Drains	131.84			
		At Junctions				
		Precast Grating Cover for Drains	64.00			
		Total quantity	195.84	6524.00	cum	1277660.16
5	5.20.6 Vol II	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
	5.20.6	Thermo-Mechanically Treated bars				
		Total Weight of steel KG-	30266.46	60	Kg	1815987.60
6	20.1.1 Vol II	Form work for Duct				
		Centering and shuttering including strutting, propping etc.and removal of form for :				
	20.1.1	Foundations, footings, bases of columns, etc. For mass concrete.				
		Along Road				
		R.C.C. wall outer	2142.40			
		R.C.C. wall inner	2142.40			
		At Junction				
		R.C.C. wall outer	1040.00			
		R.C.C. wall inner	1040.00			
		Total quantity	6365	138	Sqm	878342.40
TOTAL						7782779.44

ESTIMATE OF PEDESTRIAN PATH						
ROAD STRECH FROM YATAYAT TIRAHA TO PRANJAPE CHOWK (HANUMAN MANDIR)						
LENGTH 824 METERS						
S No.	UADD SOR ITEM NO	Descriptions of Item	Quantity	Rate	Unit	Amount
1	3.1, Vol III	Excavation				
		Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto1000 metres and as per relevant clauses of section-300				
		Ch 0 - 1132	2472.00			
		At Junctions	600.00			
		Total	3072.00	98.00	cum	301056.00
2	3.11, Vol III	Earthwork				
		Construction of Embankment/Sub grade/ earth shoulders, as per clause 305 & its sub-clauses, Where required but with approved materials/soil like morrum CBR value not less then 7% i/c all lead & lifts i/c excavation, cost of watering, mpaction and maintenance of surface during construction to ensure shedding & preventing ponding of water (clause 305.3.6) shaping & dressing (clause 305.3.7), finishing etc. complete but excluding scarifying existing granular/bituminous road surface vide clause 305.6.				
		Along Road	1483.20			
		At Junction	360.00			
		Total	1483.20	272.00	cum	403430.40
3	4.1.5 Vol II	Cement Concrete M - 10				
		Providing and laying in position cement concrete in foundation Up to plinth level. Cement concrete grade M-10 (Nominal Mix) with 40 mm maximum size of stone aggregate				
		Footpath M - 10 Along Road	741.60			
		At junction	180.00			
			921.60	3528.00	Sqm	3251404.80
4	5.1. Vol II	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
		Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.				
			39.00	4728.00	Sqm	184392.00

		Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
		Thermo-Mechanically Treated bars				
		Total Weight of steel KG-	1836.90	60	Kg	110214.00
5	11.29	Flag Stone				
		40 mm thick rubbed local Flag stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement :5 coarse sand) with joints 3mm thick, side buttered with cement mortar 1:2 (1 cement : 2 stone dust) admixed with pigment to match the shade of stone and pointing with same mortar (minimum size of kota stone 0.25 sqm)				
		Along Road				
	11.30.1	Red sand stone	2000.00	513.00	Sqm	1026000.00
	11.30.2	White sand stone	1250.00	532.00	Sqm	665000.00
		At Junction				
	11.30.1	Red sand stone	500.00	513.00	Sqm	256500.00
	11.30.2	White sand stone	500.00	532.00	Sqm	266000.00
	11.20 Vol II	Chequerred precast cement concrete tiles 18-20mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).				
		Along Road				
	11.20.3	Dark shade using ordinary cement.	650.00	616.00	SqM	400400.00
		At junction				
		Dark shade using ordinary cement.	200.00	616.00	SqM	123200.00
6	8.1, Vol III, pg 69	Kerb Stone				
		Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications. A Using Concrete Mixer				
		at Junction	1300.00			
		at Junction	240.00			
			1540.00	187.00	meter	287980.00
TOTAL						7275577.20

ESTIMATE OF ROAD MARKING, STREET FURNITURES & PLANTATION						
ROAD STRECH FROM YATAYAT TIRAHA TO PRANJAPE CHOWK (HANUMAN MANDIR)						
S No.	UADD SOR ITEM NO	Descriptions of Item	Measur ement	Rate	Unit	Amount
			Quantity			
1	Item 8.10 Vol III	Road Marking				
		Solid Lines in White Colour				
		Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes and as per relevant clauses of section-800.				
		Solid Lines in White Colour	164.80			
		Brocken Lines in White Colour	82.40			
		Stop Lines in White Colour	41.20			
		Applying Zebra Crossing	700.00			
			988.40	900.00	Sqm	889560.00
2	Item 8.8 Vol III	Painting lines, dashes, arrows etc				
		Painting lines, dashes, arrows etc on roads in two coats on new work with ready mixed road marking paint conforming to IS:164 on bituminous surface, including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control as per relevant clauses of section-800 & I.R.C.-67 including cost of paint etc. complete.				
			412.00	70.00	Sqm	28840.00
3	Item No 8.3 Vol III	Signages				
		Providing and fixing of retro- reflectorised cautionary, mandatory and inforatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm (height from crown level of the road and bottom of the sign board shall not be less than 1.5 m.) firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing including painting of vertical post as per specification.				
		90 cm equilateral triangle	5.00	3715.00	Nos	18575.00
		80 cm x 60 cm rectangular	10.00	4537.00	Nos	45370.00

4	8.12 Vol III	Road Delineators (Supplying and installation of delineators (road way indicators, hazard markers, object markers), 80-100 cm high above ground level, painted black and white in 15 cm wide stripes, fitted with 80 x 100 mm rectangular or 75mm dia circular reflectorised panels at the top, buried or pressed into the ground and conforming to IRC-79 and the drawings as per relevant clauses of section-800 of specifications.	30.00	292.00	each	8760.00
5	8.20 Vol III	Road Markers/Road Stud with Lense Reflector (Providing and fixing of road stud 100x 100 mm, dia cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS 873 part 4:1973)	30.00	292.00	each	8760.00
6	11.1 Vol III	Planting Permanent Hedges including Digging of Trenches (Planting permanent hedges including digging of trenches, 60 cm wide and 45 cm deep, refilling the excavated earth mixed with farmyard manure, supplied at the rate of 4.65 cum per 100 meters and supplying and planting hedge plants at 30 cm apart)	1120.00	230.00	Meter	257600.00
7	11.2 Vol III	Planting of Trees and their Maintenance for one Year (Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge manure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year)	80.00	488.00	Nos	39040.00
8	23.15 MP PWD SOR	Providing and planting different variety of plants of approved quality and sizes as mentioned including making pits of required size at site, refilled with B.C. Soil mixture manuring and pesticide etc complete (to be paid separately) including watering and 90 days maintenance from the date of final bill as per direction of engineer in charge complete in all respect (B.C Mixture paid separately).				
	23.15.1	Any of one from Plameriya alba, fycus benjameena. Malkikeya champa. Begnonia plumaric pudoca Plants (1.8 mtrs to 2.10 mtrs height.	100.00	645	each	64500.00
	23.15.2	Any of one from Lantana VAR Red, Lantana Blue White, Hemelia Mini. lantana varicated, ticoma Redicens, Spi Oala, Golden Dunanta.(height 0.3 m to 0.45m)	1200.00	33	each	39600.00

9	11.5 Vol III	Tree Guard with MS Angle Iron and Steel Wire (Providing and fixing tree guard 0.60 square meter, 2.00 meter high fabricated with MS angle iron 30 x 30 x 3 mm, MS iron 25 x 3 mm and steel wire 3 mm dia welded and fabricated as per design in two halves bolted together)	80.00	2179	each	174320.00
		TOTAL				1574925.00