

DPR FOR ROAD DEVELOPMENT IN NANDED UNDER JNNURM
ROAD FROM DEGALLOOR NAKA TO GADEGAON JN (ROAD NO. 9)
(From Ch: 0+000 TO 3+830 - Effective Length :2+803)
MEASUREMENT SHEETS

Sr. No.	Item No.	Description	Unit	Nos.	Length in M	Breadth in M	Depth / Height in M	Qty
	Sec-1	Site Clearance						
1	1.1	Clearing & grubbing road land including uprooting all vegetation, grass, bush shrubs, saplings and trees of girth up to 300 mm, removal of stumps of trees of girth of all sizes including removing stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable materials as directed by engineer with all leads and lifts etc. complete		prop.DP30 m				
		Degloor Naka to Approach Start of ROB CH. 000 TO 1770 m	Ha	ex.avg.12.6	1770.000	17.4		3.0798
		Approach End of ROB to Gadegaon Jn CH.2797 TO 3830m	Ha	ex.avg.5	1033.000	25		2.5825
								5.6623
							Say	6.00
2	1.2	Cutting of trees of all girth above 300 mm including cutting of trunks, branches,uprooting and removal of all materials and stacking within the ROW and filling depressions/pits by earth etc. complete. including liasoning with concerned authorities for obtaining permissions.						
		1) girth 300 mm to 600 mm	Nos	8				8
		2) girth above 600 mm to 900 mm	Nos	6				6
		3) girth above 900 mm to 1800 mm	Nos					0
3	1.3	Transplantation of existintg trees of girth above 600 mm girth as directed by engineer, including uprooting and shifting of the tree and placing in excavated pits of suitable size and after transplanting, removal and stacking of excavated earth to desired location, filling the pit with soil mixture of excavated earth, fresh red earth etc as	Nos	8				8
4	1.4	Dismantling of structures on roadway including sorting out the dismantled material, disposal of unserviceable material and utilising the serviceable material free of cost in permanent works as directed by the Engineer with all leads and lifts etc. complete						
	a)	Brick masonry	Cum					2184.6
	b)	Stone masonry	Cum					202.6
	c)	Plain Concrete	Cum					616.5
	d)	Reinforced Concrete	Cum					877.25
	e)	Dismantling pavement - metal pavement	Cum					
		Degloor Naka to Approach Start of ROB CH. 000 TO 1770 m		1	1200.000	7	0.30	2520
		Approach End of ROB to Gadegaon Jn CH.2797 TO 3830m						
							Total	2520
							Say	2520.00
	f)	Dismantling						
		(i)MS Pipes, Guard rails, and Fencing	RM					600.4
		(ii)Footpaths and Medians	Sqm					0
		(iii) Electric /telephone poles/ Transformers	No	64				64
		(iv) Bus shelters	No					0
	Sec-2	Earth Work and Ground Improvement						
1	2.1	Earth work in excavation for roadway in all types of strata other than rock requiring blasting including dressing section to the required grade, camber and side slopes and conveying and/or disposing off the excavated material with mechanical means, spreading or disposing as directed by Engineer, with all leads and lifts etc. complete.	Cum				FROM PROFILE	
		For Main Carriageway, Paverblocks						
		CH. 000 TO 1240 m		1	1240.000	30	0.780	29016
		CH.3640TO 3830m		1	190.000	30	1.000	5700
		For Junctions along the road (There are3 junction to improve) (average width for widening of the road at all junctionas = 7m, and length of road = 40m,avg.)		3	45	5.5	1.030	765
		excavation for median plantation						
							Total	35481

Sr. No.	Item No.	Description	Unit	Nos.	Length in M	Breadth in M	Depth / Height in M	Qty
							Say	35481
2	2.2.	Earth work in excavation for roadway in rock by Wedging including dressing section to the required grade, camber and side slopes and conveying and/or disposing off the excavated material with mechanical means, spreading or disposing as directed , with all leads and lifts etc. complete	Cum					
						Provisional	Say	0
3	2.3	Earth work in embankment including median by using mechanical means with approved material obtained from the excavated portions of the roadway, laying in layers not exceeding 250 mm loose, breaking clods, dressing to the required lines, curves, grades and watering to OMC and compacting to 95 % modified proctor density with vibratory roller having minimum 80-100 KN static weight with all leads (10 % OF EXCAVATION FROM 000 TO 1240 IS	Cum					2901.6
4	2.4	Leveling, watering and rolling the prepared subgrade with power roller weighing not less than 8 to 10 Tonnes and preparing the ground to required level, grade and camber etc. complete as directed by Engineer..	Sqm					0
5	2.5	Earth work in embankment for subgrade/Cushion and hard shoulders by using mechanical means with approved material obtained from borrow areas outside ROW having 4 days soaked CBR equal to or more than 8%, laying in layers not exceeding 250 mm loose, breaking clods and dressing to the required lines,curves, grades, and watering to OMC and compacting to 97 % modified proctor density with vibratory roller having minimum 80-100KN static weight including all	Cum					
		Cushion /Embankment For CW widening and for paver						
		Degloor Naka to Approach Start of ROB CH. 000 TO 1770 m		1	1770	27.6	0.250	12213
		Approach End of ROB to Hingoli Road CH.2797 TO 3830m		1	1033	27.6	0.250	7127.7
		For Junctions along the road (There are 3 junction to improve) (average width for widening of the road at all junctionas = 5.5m, and length of road = 40m,avg.)		3	40	5.5	0.250	165
		Embankment Between Chainages						
		1240-1540			300	30	0.20	1800
		1540-1770			230	30	0.60	4140
		2797-3080			283	30	0.20	1698
		3080-3400			320	30	0.80	7680
		3400-3500			100	30	0.20	600
		3500-3640			140	30	1.00	4200
		Cushion below side drains		2	2,983	1.4	0.25	2088
		cushion by drain side in road through cutting		2	190	0.25	1.50	143
							Total	41854
		DEDUCT QUANTITY FROM ITEM NO.2.3						2901.6
							Net	38952.4
6	2.6	Removal of unsuitable materials (debris) in the embankment foundation and /or subgrade and disposing the excavated material as directed by the engineer including all leads and lifts etc. complete.	Cum	Provisional				100
							Say	0
	Sec- 3	Drainage and Protective Works, paver blocks in FP, cross pipes for utilities etc						
1	3.1	Earth work in excavation in all types of strata other than rock for drains and channels etc., including dressing of bottom and sides of trenches, stacking the excavated spoil, clear from the edge of excavation including disposal of surplus spoil as directed by the Engineer with all leads and lifts etc. complete.	Cum					
		Degloor Naka to Gadegaon Jn CH. 000 TO 1770m & 2797 to 4000, less for junctions (@3x20m)		2	2743.000	1.4	1.400	10753
		For Junctions along the road (There are 3 junction to improve) (average width for widening of the road at all junctionas = 5.5m, and length of road = 40m,avg.)		6	40	1.4	1.400	470.4
		For cross ducts @150m interval		19	26	1.9	0.750	706.7
		extra excavation for cushion by drain side in road through cutting		2	190	0.25	1.50	142.5
							Total	12072

Sr. No.	Item No.	Description	Unit	Nos.	Length in M	Breadth in M	Depth / Height in M	Qty
2	3.2	Earth work in excavation in rock by chiselling / wedging for drains and channels etc., including dressing of bottom and side of trenches, stacking the excavated spoil, clear from the edge of excavation including disposal of surplus spoil as directed by the Engineer with all leads and lifts etc. complete.	Cum					
						provisional	Say	0
3	3.3	Providing dry trap /granite /quartzite/ gneiss rubble stone soling 15 to 20 cm thick including hand packing and compacting etc. complete	Cum	2	2983.000	1.4	0.15	1252.86
		For cross ducts @150m interval		19	26	1.9	0.15	141
							Total	1394.1915
							Say	1394
4	3.4	Providing and laying PCC M-15 grade for bed for lined drain, median cross drain, kerb with the maximum size of coarse aggregate 20 mm including necessary form work, mixing, vibrating, curing by sprinkling / ponding of water for 14 days etc. complete.	Cum					
		Bedding concrete for drain		2	2743	1.4	0.10	768.04
		Bedding concrete for Kerbs of median		2	2683	0.365	0.10	195.86
		Bedding concrete for Kerbs of footpath and water table		2	2,983	0.565	0.10	337.08
		Bedding concrete for runner beam of paver blocks in CW		2	2,803	0.43	0.10	241.06
		encasement of utility pipes (cross)		19	26	Area	0.688	341.2
		For Junctions along the road (There are 3 junction to improve)		6	40	1.4	0.10	33.60
		(average width for widening of the road at all junctionas = 5.5m, and length of road = 40m,avg.)						
		For Junctions island kerb (There are 3 junction to improve)		3	50	0.315	0.10	4.725
							Total	1921.6
							Say	1922
5	3.5	Providing and laying in situ PCC/RCC M25 grade for trenches, drains, precast cover, retaining walls, toe walls, head walls including coping. with stone metal, natural or crushed sand, including necessary form work, centering, mixing with mechanical mixers, compacting vibrating, curing by sprinkling/ponding of water for 14 days and finishing as directed and including construction of weep holes as directed by the Engineer including all leads and lifts etc. complete(excluding reinforcement)	Cum					
		RCC drain walls and bottom		2	2,983	3.6	0.15	3221.64
		RCC drain top		2	2,983	1.2	0.15	1074
		(Drain Cross Sectional length =((0.9+0.075+0.075)x0.2+0.9 = 3 m)						
		For Junctions along the road (There are 3 junction to improve)		6	40	3	0.15	108
		(average width for widening of the road at all junctionas = 5.5m, and length of road = 40m,avg.)						
		RCC drain walls and bottom		6	40	3	0.15	108
		RCC drain top		6	40	1.2	0.15	43
		RCC runner beam of size 150mmx100m for paver blocks on FP		2	2,983	0.15	0.10	89.49
		Utility service chambers wall(1050x1500mm)		38	4.3	0.2	0.615	20.0982
							Total	4664.3082
		Deduction for drian covers						
		(provided at @10m interval of size 1200x50x150mm)		1193	1.2	1.0	0.15	214.74
							Net	4449.57
							Say	4450
6	3.6	Providing and laying HYSD bars for structure including cutting,bending, hooking by machine,trying in position including binding wire, spacers, chairs,cover blocks as per detailed drawing including all leads and lifts etc. complete.						
		(Steel = 60kg/1Cum)	MT					267
							Say	267
7	3.7	Providing and laying cement concrete kerb in M-25 grade concrete as per drawing and directed by Engineer with all leads lifts etc. complete.				CS Area		
		Pre-cast/cast-in-situ kerbs	Cum	2	2,683	0.078		418.548
		(I) for median (Cross sectional Area : 0.078sq.m - type D)						
		(Total length : 2803m, less for junctions @20m for 6nos)						
		(ii) for foot paths (Cross sectional Area : 0.038sq.m - type B)		2	2,743	0.038		208.468
		(Total length : 2803m, less for junctions @20m for 3nos)						

Sr. No.	Item No.	Description	Unit	Nos.	Length in M	Breadth in M	Depth / Height in M	Qty
							Total	7890.12
7	4.7	Providing and laying Bituminous Concrete in a single layer of 25mm to 50 mm compacted thickness on prepared surface using 30-40 bitumen	Cum					
		For new construction						
		Degloor Naka to Approach Start of ROB CH. 000 TO 1770 m		1	1770.000	21.00	0.040	1486.8
		Approach End of ROB to Gadegaon Jn CH.2797 TO 3830m		1	1033.000	21.00	0.040	867.72
		For Junctions along the road (There are 3 junction to improve)		3	40.000	5.5	0.040	26.4
		(average width for widening of the road at all junctionas = 5.5m, and length of road = 40m,avg.)						
		deduction for Junctions with paver blocks(3 Nos.)		-3	45.000	21.00	0.040	-113.4
		deduction for cross RD with paver blocks(3 Nos.)		-3	20.000	5.5	0.040	-13.2
							Total	2254
8	4.8	Providing and laying 20 mm thick mix seal surfacing 'A' type as renewal coat for maintenance of the existing road surface during construction including supplying of all materials , clearing the base, heating the bitumen and aggregates and rolling with power roller 8 - 10 tonne using 30/40 grade bitumen.	Sqm	(Proviional)				0
9	4.9	Providing and laying Dry Lean Concrete base including providing coarse and fine aggregate to the specified gradation using minimum cement content 150 kg/cum of concrete with OPC 43 grade cement	Cum					
10	4.10	Providing and laying Pavement Quality Concrete of M35 grade including providing 125 micron thick impermeable plastic sheet membrane over the surface to be covered, coarse and fine aggregates of specified gradation using minimum cement content 350 kg/cum of concrete with OPC 43 grade cement	Cum					
11	4.11	Providing and laying Pavement Quality Concrete for Profile correction Coarse/ overlay of M 35 grade including roughening the existing surface by Shot blasting and providing bonding material (cement sand slurry/low viscous epoxy) providing over the surface to be covered, coarse and fine aggregates of specified gradation using						
12	4.12	Paver blocks of 80mm thick in Carriageway	Sqm	2	2803	1.3		7287.8
		(deduct runner beam and water table from width= 2.4-0.23-0.3						
		Add for Junctions along the road (There are 3 junction to						
		Junctions with paver blocks(3 Nos.)		3	45.000	22.2		2997
		cross RD with paver blocks(3 Nos.)		3	20.000	5.5		330
							Total	10614.80
							Say	10615
13	4.13	Pot hole filling with open graded 20mm premix surfasing	Sqm	(Proviional)				0
14	4.14	Crack sealing	Sqm	(Proviional)				0
	Sec-6	Road Markings, etc.						
1	6.1	Providing and laying hot applied thermoplastic road marking compound in approved colour and shade for road marking on bituminous/ concrete road surface in lane marking 100mm wide 2.5mm thick using fully automatic extrusion machine and using premelter for melting thermoplastic Material including cleaning the surface of all dirt, dust, and other foriegn matter, demarcation at site/premarking, finishing and managing the traffic control etc.complete. The thermoplastic compound shall be of approved colour and shade. Marking to be done as per	Sq.m					
		Lane marking (main CW - 3lane-broken line)		4	1068.2	0.1		427.3
		Total length :2997m, straight:2800m, curves: 190 (crieteria: 1/3 length on straight, 1/2 on curves)						
		lane marking in junction improvement (@one centre line for 3JNs)		3	14	0.1		4.2
							Total	431

Sr. No.	Item No.	Description	Unit	Nos.	Length in M	Breadth in M	Depth / Height in M	Qty
2	6.2	Providing and applying two coats of synthetic enamel paint including primer to kerb as per Technical Specification and as directed by the engineer.	Sqm					0
		(I) For footpath kerbs						
		- Main CW		6	50		0.290	87.0
		- Junctions		6	40		0.290	69.6
		(ii) for Median kerbs		6	50		0.464	139.2
							Total	296
3	6.3	Providing and laying hot applied thermoplastic road marking compound in approved colour and shade for road marking on bituminous/ concrete road surface in edge line 150mm wide 2.5mm thick using fully automatic extrusion machine and using premelter for melting thermoplastic Material,including cleaning the surface of all dirt, dust, and other foriegn matter, demarcation at site/ premarking, finishing and managing the traffic control etc.complete and as per specifications, detailed drawings and as directed.	Sqm	2	2923	0.15		877
		Edge lines (continuous by FP side and Median sides)						
4	6.4	Providing and laying hot applied thermoplastic road marking compound in approved colour and shade for road marking on bituminous/ concrete road surface in pedestrian crossings, chevrons, directional arrows etc. 2.5mm thick using fully automatic extrusion machine and using premelter for melting thermoplastic .Material,including dispensing drop on glass beads of approved make and as per BS 6088 at the rate 250 gms per sqm. including cleaning the surface of all dirt, dust, and other foriegn matter, demarcation at site/ premarking, finishing and managing the traffic control etc.complete. Marking to be done as per specifications, drawings and as directed.	Sqm					
						Area		
		(I) Straight arrows		200			1.1	220
		(ii) Straight and turn arrows		75			1.42	106.5
		(iii) Turn Arrows		40			1.125	45
		(iv) Chevron markings		20			5	100
		(v) Pedestrian crossings		15			375	5625
		(vi) Stop lines		6			4	24
		(vii) Additional provision for any						50
								6171
	Sec-7	TRAFFIC SIGNS/ROAD FURNITURE						
1	7.1	Supplying and fixing informatory road sign boards made up with high intensity grade retro-reflective type sheeting complete as per drawing and Technical specifications.						
	a)	Boards of area not exceeding 1 sq. m.	Nos	30				30
2	7.2	Supplying and fixing utility/services road sign boards made up with high intensity grade retro-reflective type sheeting complete as per drawing and Technical specifications.						
	a)	Boards of area not exceeding 1 sq. m.	Nos	20				20
3	7.3	Supplying and fixing cautionary/warning road sign boards (Equilateral triangle 900 mm side) made up with high intensity grade retro-reflective type sheeting complete as per drawing and technical specifications.	Nos					
		Cautionary sign boards						
		-cross road signs		40				40
		-median gap signs		20				20
		-traffic signals sign		6				6
		-curves signs		10				10
		-pedestrian crossing signs		30				30
		-school locations		6				6
		-for junctions		25				25
							Total	137
4	7.4	Supplying and fixing regulatory/mandatory road sign boards (Circular 600 mm dia) made up with high intensity grade retro-reflective type sheeting complete as per drawing and Technical specifications.	Nos					
		-speed signs		12				12
		-stop signs		8				8
		-giveaway signs		6				6
							Total	26

Sr. No.	Item No.	Description	Unit	Nos.	Length in M	Breadth in M	Depth / Height in M	Qty
5	7.5	Supplying/Erecting and fixing in position road overhead retro-reflective informatory sign boards including fixing on overhead gantry structure including the cost of gantry and other supports and including cost of back frame complete as per drawing and specifications.	Nos	3				3
6	7.6	Supplying and fixing in position road cantilever overhang retro-reflective informatory sign boards including fixing on specified galvanized overhang structure including the cost of overhang and other supports but including cost of back frame complete as per drawing and specifications.	Nos.	10				10
7	7.7	Cat Eye studs	Nos.	0				0
8	7.8	Delineators (on edge lines 4nos @ 3m interval)	Nos.	0				0
9	7.9	Supplying and fixing in position MS Railing including Painting complete as per drawing and specifications.	Rm	2	2803.00			5606
Sec - 8 Traffic Management								
Traffic Management								
1	8.1	Traffic Management and Regulation during construction						
		Maintaining, Managing, Operating the traffic plying on road during day and night smoothly and safely as and when required without hindrance to traffic during entire construction activity by providing necessary equipments such as, various road signs, delineators, barricading,						
	a)	Installation of a steel portable barricade with horizontal rail 300 mm wide, 2.5 m in length fitted on a 'A' frame made with 45x45x5 mm angle iron section, 1.5 m in height, horizontal rail painted (2 coats) with yellow and white strips, 150 mm in width at an angle of 45o, 'A' frame painted with 2 coats of yellow paint, complete as per IRC:SP:55-2001.	Nos	897	two rows per 40% length has been provided			897
	b)	Providing Red lanterns or warning lights of similar type on the barricades.	Nos	45				45
	c)	Provision of metal drum / empty bitumen drum delineator, 300 mm in diameter 800 mm high filled with earth for stability painted in circumferential strips of alternate black and white 100 mm white fitted with reflectors 3 nos. of 7.5 cm dia. All as per IRC-SP:55-2001.	Nos	374	two rows per 20% length @ 3m interval			374
	d)	Installation of a steel portable barricade with horizontal sheet of 800 mm wide, 3.0 m in length fitted on a 'wooden bamboos of diameter 200 mm 1.5 m in height, horizontal sheet painted (2 coats) with yellow and white stripes, 150 mm in width at an angle of 45o, complete as directed by Engineer.	Nos	747	two rows per 40% length @ 3m interval			747
Sec - 9 Utility Relocation Items								
Utility Relocation Items (Provisional)			B Section 100					
1	9.1	Water Pipe Line						
		Relocation of water pipelines by nominated sub-contractors.	per 100 m	1	14.00			14.00
2	9.2	Sewerage Line						
		Relocation of sewerage services by nominated sub-contractors.	per 100 m	1	14.00			14.00
3	9.3	Electricity, (M.S.E.B.)						
	i)	Relocation of electrical services by nominated sub-contractors.	per 100 m	1	14.00			14.00
	ii)	Relocation of electrical services by nominated sub-contractors.	per 100 m	1	14.00			14.00
4	9.4	Telephone						
		Relocation of telephone services by nominated sub-contractors.	per 100 m	1	14.00			14.00
5	9.5	Relocation of OFC Lines by nominated sub-contractors.	per 100 m	1	14.00			14.00
Total of Section 9								

**DPR FOR ROAD DEVELOPMENT IN NANDED UNDER JNNURM
ROAD FROM DEGALLOOR NAKA TO GADEGAON JN (ROAD NO. 9)
(From Ch: 0+000 TO 3+830 - Effective Length :2+803)**

COST ESTIMATE

Note: The specification reference is as under:

A - As per Additional Technical Specifications (SP) Vol. - III

B - As per MORT&H specifications (4th revision August 2001) and revisions as made in Part B Vol. - III

Sr. No.	Item No.	Description	Unit	Specifications	Qty	Estimated Cost	
						Unit Rate in Rs.	Amount in Rs.
	Sec-1	Site Clearance					
1	1.1	Clearing & grubbing road land including uprooting all vegetation, grass, bush shrubs, saplings and trees of girth up to 300 mm, removal of stumps of trees of girth of all sizes including removing stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable materials as directed by engineer with all leads and lifts etc. complete	Ha	B Clause 201	6	16,461.00	98,766.00
2	1.2	Cutting of trees of all girth above 300 mm including cutting of trunks, branches, uprooting and removal of all materials and stacking within the ROW and filling depressions/pits by earth etc. complete. including liasoning with concerned authorities for obtaining permissions.		B Clause 201 & 305			
		1) girth 300 mm to 600 mm	Nos		8	49.00	392.00
		2) girth above 600 mm to 900 mm	Nos		6	101.00	606.00
		3) girth above 900 mm to 1800 mm	Nos				-
3	1.3	Transplantation of existing trees of girth above 600 mm girth as directed by engineer, including uprooting and shifting of the tree and placing in excavated pits of suitable size and after transplanting, removal and stacking of excavated earth to desired location, filling the pit with soil mixture of excavated earth, fresh red earth etc as directed.	Nos	MORT&H	8	2,168.00	17,344.00
4	1.4	Dismantling of structures on roadway including sorting out the dismantled material, disposal of unserviceable material and utilising the serviceable material free of cost in permanent works as directed by the Engineer with all leads and lifts etc. complete.		B Clause 202			
	a)	Brick masonry	Cum		2184.6	138.00	301,474.80
	b)	Stone masonry	Cum		202.6	138.00	27,958.80
	c)	Plain Concrete	Cum		616.5	138.00	85,077.00
	d)	Reinforced Concrete	Cum		877.25	144.00	126,324.00
	e)	Dismantling pavement					
		-Metal Pavement	Cum		2520	144.00	362,880.00
	f)	Dismantling					
		(i)MS Pipes, Guard rails, and Fencing	RM		600.4	10.00	6,004.00
		(ii)Footpaths and Medians	Sqm				-
		(iii) Electric poles/Telephone poles	Nos		64	74.00	4,736.00
		(iv) Bus Shelters	Nos				-
		Total of Section 1					1,031,562.60
	Sec-2	Earth Work and Ground Improvement					
1	2.1	Earth work in excavation for roadway in all types of strata other than rock requiring blasting including dressing section to the required grade, camber and side slopes and conveying and/or disposing off the excavated material with mechanical means, spreading or disposing as directed by Engineer, with all leads and lifts etc.	Cum	B Clause 301	35481	40.00	1,419,240.00

Sr. No.	Item No.	Description	Unit	Specifications	Qty	Estimated Cost	
						Unit Rate in Rs.	Amount in Rs.
2	2.2.	Earth work in excavation for roadway in rock by Wedging/controlled blasting including dressing section to the required grade, camber and side slopes and conveying and/or disposing off the excavated material preferably with mechanical means, spreading or disposing as directed , with all leads and lifts etc. complete	Cum	B Clause 301, 302		228.00	-
3	2.3	Earth work in embankment including median by using mechanical means with approved material obtained from the excavated portions of the roadway, laying in layers not exceeding 250 mm loose breaking clods, dressing to the required lines, curves, grades and watering to OMC and compacting to 95 % modified proctor density with vibratory roller having minimum 80-100 KN static weight with all leads and lifts etc. complete.	Cum	B Clause 305	2901.6	33.00	95,752.80
4	2.4	Leveling, watering and rolling the prepared subgrade with power roller weighing not less than 8 to 10 Tonnes and preparing the ground to required level, grade and camber etc. complete as directed by Engineer..	Sqm	MORT&H			-
5	2.5	Earth work in embankment/cushion for subgrade and hard shoulders by using mechanical means with approved material obtained from borrow areas outside ROW having 4 days soaked CBR equal to or more than 8%, laying in layers not exceeding 250 mm loose, breaking clods and dressing to the required lines,curve grades, and watering to OMC and compacting to 97 % modified proctor density with vibratory roller having minimum 80-100KN static weight including all leads and lifts etc. complete.	Cum	B Clause 305	38952.4	86.00	3,349,906.40
6	2.6	Removal of unsuitable materials (debris) in the embankment foundation and /or subgrade and disposing the excavated material as directed by the engineer including all leads and lifts etc. complete. Lead beyond 3 Kms	Cum	B Clause 301	100	46.00	4,600.00
		Total of Section 2					4,869,499.20
	Sec- 3	Drainage and Protective Works, paver blocks in FP, cross pipes for utilities etc					
1	3.1	Earth work in excavation in all types of strata other than rock for drains and channels etc., including dressing of bottom and sides of trenches, stacking the excavated spoil, clear from the edge of excavation including disposal of surplus spoil as directed by the Engineer with all leads and lifts etc. complete.	Cum	B Clause 301,304 & 309	12072	40.00	482,880.00
2	3.2	Earth work in excavation in rock by chiselling / wedging for drains and channels etc., including dressing of bottom and side of trenches, stacking the excavated spoil, clear from the edge of excavation including disposal of surplus spoil as directed by the Engineer with all leads and lifts etc. complete.	Cum	B Clause 301 & 303		228.00	-
3	3.3	Providing dry trap /granite /quartzite/ gneiss rubble stone soling 15 to 20 cm thick including hand packing and compacting etc. complete	Cum	MORT&H	1394	205.00	285,770.00

Sr. No.	Item No.	Description	Unit	Specifications	Qty	Estimated Cost	
						Unit Rate in Rs.	Amount in Rs.
4	3.4	Providing and laying PCC M-15 grade for bed for lined drain, median cross drain, kerb with the maximum size of coarse aggregate 20 mm including necessary form work, mixing, vibrating, curing by sprinkling / ponding of water for 14 days etc. complete.	Cum	B Section 1500,1700 & 2100, ASP	1922	1,871.00	3,596,062.00
5	3.5	Providing and laying in situ PCC/RCC M25 grade for trenches, drains, precast cover, retaining walls, toe walls, head walls including coping. with stone metal, natural or crushed sand, including necessary form work, centering, mixing with mechanical mixers, compacting vibrating , curing by sprinkling/ponding of water for 14 days and finishing as directed and including construction of weep holes as directed by the Engineer including all leads and lifts etc. complete(excluding reinforcement)	Cum	B Section 1500 &1700, ASP	4450	2,467.00	10,978,150.00
6	3.6	Providing and laying HYSD bars for reinforcement for structure including cutting,bending hooking by machine,trying in position including binding wire, spacers, chairs,cover blocks as per detailed drawing	MT	B Section 1600 ASP	267	34,042.00	9,089,214.00
7	3.7	Providing and laying cement concrete kerb in M-25 grade concrete as per drawing and directed by Engineer with all leads lifts etc. complete.	Cum	B clause 408, ASP			-
		Pre-cast/cast-in-situ kerbs	Cum		643	2,468.00	1,586,924.00
8	3.8	Raising or lowering any shape and size of manhole to the required level including all material formwork ,brickwork and with 16 mm thick M15 (1:2:4) c c Coping under frames of manhole including curing etc. complete as specified and as directed by Engineer In Charge	No	MORT&H			-
9	3.9	Providing and laying in position to the level and grade 150 mm dia precast NP2 class pipe below footpath for discharging water into concrete open drains including providing and fixing GI grating etc. complete as directed by Engineer.	RM	B-Section 2900	824	216.00	177,984.00
10	3.10	Providing and laying interlocking concrete paving blocks in footpaths and medians including sand bed of thickness 50 mm and precast concrete head strips etc. complete as per drawing and specifications.	Sqm	ASP			
		a) For 60mm Thick Paver Block			4773	595.00	2,839,935.00
11	3.11	Providing And fixing of the precast tapered water table of thickness 105 mm , 300 mm width in M35 grade concrete as detailed in drawing including laying a levelling course of M15 grade concrete slope,inclusive of form work jointing in 1:2 CM prop flush to concrete surface including curing as directed	RM	MORT&H	5966	336.00	2,004,576.00
12	3.12	Providing and laying required size RCC running Beam in M35concrete including formwork ,mixing,compacting and curing etc.complete reinforced with 12 mm dia (min 4 nos) MS main bars and 6 mm dia MS ring at 15 mm c/c to be anchored in slipper slab properly with MS reinforcement as per drawing etc. complete as specified (steel will not be paid separately) etc. complete as directed by Engineer	Cum	MORT&H	386.814	2,531.00	979,026.23
13	3.13	Providing and fixing RCC cover of any size, shape and thickness over drain/chamber with necessary heavy duty cast iron frame including all labour and material etc complete as directed by Engineer.	No	MORT&H	1307	1,500.00	1,960,500.00
		For 250 mm Dia. Pipes					

Sr. No.	Item No.	Description	Unit	Specifications	Qty	Estimated Cost	
						Unit Rate in Rs.	Amount in Rs.
	3.14	Providing and laying service ducts in position , precast RCC Pipes NP2 class including bed preparation ,cost of lifting ,loading and unloading ,jointing with collar or flush joints including cost of backfilling the trenches including all leads and lifts etc. complete.					
		250mm diameter	Rm	MORT&H	1488	368.00	547,584.00
	3.15	Providing & laying 100 mm dia PVC perforated pipe median under drain including geotextile and building through kerb etc. complete as per drawing and specification (at 15 m interval in median with approximate width of 1.5 m)	Rm	MORT&H	448	144.00	64,581.12
	3.16	Providing and fixing 150x100 mm non skidding precast chequered tiles 25 mm thick of approved quality in traffic island and where ever necessary in city suburban limit over 18 mm thick C.M 1:3 including curing etc.complete as per drawing and as directed by Engineer.	Sqm	MORT&H	140	244.00	34,160.00
		Total of Section 3					34,627,346.35
	Sec-4	Pavement					
1	4.1(a)	Providing and laying Granular Sub Base (structural layer) close graded conforming to Grading II of Table 400.2 of compacted thickness of 150 mm with specified graded stone metal and sand mixed in place and laid with mechanical means spreading with motor grader and compacting with vibratory roller having minimum 80-100 KN static weight to achieve desired density of 98% of MDD including all material , labour , machinery with all leads and lifts etc. complete.(by plant mix method)	Cum	B Clause 401	15605	445.00	6,944,225.00
	4.1(b)	Providing and laying Granular Sub Base (drainage layer) coarse graded conforming to Grading II of Table 400.2 of compacted thickness of 150 mm with specified graded stone metal and sand mixed in place and laid with mechanical means spreading with motor grader and compacting with vibratory roller having minimum 80-100 KN static weight to achieve desired density of 98% of MDD including all material , labour , machinery with all leads and lifts etc. complete.	Cum	B Clause 401	18382.613	389.00	7,150,836.57
2	4.2	Providing and laying Wet Mix Macadam with paver finisher in specified thickness, each layer not exceeding 200 mm compacted thickness including premixing in pugmill/plant well graded crushed stone aggregate, with watering and spreading by to required profile and compacting with vibratory roller having minimum 80-100 KN static weight to achieve desired density of 98% of MDD including all material , labour , machinery with all leads and lifts etc. complete.	Cum	B Clause 406	20713	484.00	10,025,092.00

Sr. No.	Item No.	Description	Unit	Specifications	Qty	Estimated Cost	
						Unit Rate in Rs.	Amount in Rs.
3	4.3	Providing and applying primer coat using bituminous emulsion complying to IS:8887 over prepared surface of granular base with emulsion at a temperature between 20 - 45 deg. C and applying a uniform coat with the aid of self propelled bitumen pressure spraying bar with nozzles of constant volume of pressure system @10Kg/10Sqm including all material , labour , machinery with all leads and lifts etc. complete.	Sqm	B Clause 502	59523	31.00	1,845,213.00
4	4.4	Providing and applying tack coat by using bituminous emulsion complying to IS: 8887 over prepared surface preheated to a temperature between 20 - 50 deg. C and applying a uniform coat with the aid of self propelled bitumen pressure sprayer with self heating arrangement and spraying bar with nozzles of constant volume or pressure system at the rate of 3Kg/10Sqm on primed / blacktop surface and curing etc. including all material, labour,machinery, with all leads and lifts etc. complete.	Sqm	B Clause 503	59523	16.00	952,368.00
5	4.5	Providing and laying Bituminous Macadam of maximum 100 mm compacted thickness on prepared surface using 30 - 40 grade bitumen providing necessary aggregates with specified gradation mixing with mechanical means in hot mix plant of suitable capacity of batch mix type and electronically controlled mixing to the specified temperature, transporting and laying the mix with self propelled paver finisher with electronic sensor device and initial compaction with minimum 80 - 100 KN static weight smooth wheeled roller followed by intermediate rolling with minimum 80 – 100 KN static weight vibratory roller/pneumatic tyred roller having minimum 150 – 250 KN weight having a tyre pressure of atleast 0.7 Mpa and finished with minimum 60 - 80 KN weight smooth wheeled tandem roller to achieve desired density including all material, labour, machinery with all leads and lifts (Excluding tack coat) etc. complete.	Cum	B Clause 504			-
6	4.6	Providing and laying Dense Bituminous macadam in a single layer of 50mm to 100 mm compacted thickness on prepared surface using 30 - 40 grade bitumen including providing necessary aggregates with specified gradation mixing with mechanical means in hot mix plant of suitable capacity of batch mix type and electronically controlled mixing of the specified temperature, transporting and laying the mix with self propelled paver finisher with electronic sensor device in full width and initial compaction with minimum 80 - 100 KN static weight vibratory roller/pneumatic tyred roller having minimum 150 – 250 KN weight having a tyre pressure of atleast 0.7 MPa and finished with minimum 60 – 80 KN weight smooth wheeled tandem roller to achieve desired density including all material, labour, machinery with all leads and lifts (excluding tack coat) complete.	Cum	B Clause 507	7890.12	3,922.00	30,945,050.64

Sr. No.	Item No.	Description	Unit	Specifications	Qty	Estimated Cost	
						Unit Rate in Rs.	Amount in Rs.
7	4.7	Providing and laying Bituminous Concrete in a single layer of 25mm to 50 mm compacted thickness on prepared surface using 30-40 bitumen of grade approved by the engineer including providing necessary aggregates with specified gradation mixing with mechanical means in hot mix plant of suitable capacity of batch mix type and electronically controlled mixing to the specified temperature, transporting and laying the mix with self propelled paver finisher with electronic sensor device in full width and initial compaction with minimum 80 - 100 KN static weight smooth wheeled roller followed by intermediate rolling with minimum 80 - 100 KN static weight vibratory roller / pneumatic tyred roller having minimum 150 - 250 KN weight having a tyre pressure of atleast 0.7 MPa and finished with minimum 60 - 80 KN weight smooth wheeled tandem roller to achieve desired density including all material, labour, machinery with all leads and lifts etc. complete (excluding tack coat)	Cum	B Clause 509 & 521	2254	4,711.00	10,620,101.52
8	4.8	Providing and laying 20 mm thick mix seal surfacing 'A' type as renewal coat for maintenance of the existing road surface during construction including supplying of all materials , clearing the base, heating the bitumen and aggregates and rolling with power roller 8 - 10 tonne using 30/40grade bitumen.	Sqm	B Clause 512		80.00	-
9	4.9	Providing and laying Dry Lean Concrete base including providing coarse and fine aggregate to the specified gradation using minimum cement content 150 kg/cum of concrete with OPC 43 grade cement mixing of concrete as per approved design mix using mechanised batch mix plant of appropriate capacity, transporting and laying with self propelled paver with electronic sensor device and compacting with vibratory roller of minimum 80 - 100 KN static weight to give desired compacted density and average compressive strength of 10 MPa at 7 days and curing with liquid curing compound and sprinkling water and covering with moist hessain or ponding of water for 7 days including providing construction joints, including all material, labour, machinery with all leads and lifts etc. complete.	Cum	B Clause 601 B-Section 900, 1000 & ASP			-

Sr. No.	Item No.	Description	Unit	Specifications	Qty	Estimated Cost	
						Unit Rate in Rs.	Amount in Rs.
10	4.10	Providing and laying Pavement Quality Concrete of M 35 grade including providing 125 micron thick impermeable plastic sheet membrane over the surface to be covered, coarse and fine aggregates of specified gradation using minimum cement content 350 kg/cum of concrete with OPC 43 grade cement, approved admixture, mixing with mechanised batch mix plant of appropriate capacity as per the design mix to the specified workability, transporting the mix with dumpers or transit mixers and laying with self propelled slip form paving train of required capacity having electronic sensor device, curing with approved resin based aluminised reflective curing compound and covering with moist hessian or ponding and sprinkling of water for a minimum period of 14 days and including providing and fixing dowels, tie bars, approved precompressed seals for joint filling and sealing all types of joints and finishing to the desired surface texture including all material, labour, machinery with all leads and lifts etc. complete	Cum	B Clause 602 & 704 B-Section 900,1000 & ASP			-
11	4.11	Providing and laying Pavement Quality Concrete for Profile correction Coarse/ overlay of M 35 grade including roughening the existing surface by Shot blasting and providing bonding material (cement sand slurry/low viscous epoxy) providing over the surface to be covered, coarse and fine aggregates of specified gradation using minimum cement content 350 kg/cum of concrete with OPC 43 grade cement, approved admixture, mixing with mechanised batch mix plant of appropriate capacity as per the design mix to the specified workability, transporting the mix with dumpers or transit mixers and laying with self propelled slip form paving train of required capacity having electronic sensor device, curing with approved resin based aluminised reflective curing compound and covering with moist hessian or ponding and sprinkling of water for a minimum period of 14 days and including providing and fixing dowels, tie bars, approved precompressed seals for joint filling and sealing all types of joints and finishing to the desired surface texture including all material, labour, machinery with all lea	Cum	B Clause 602 & 704 B-Section 900,1000 & ASP			-
12	4.12	Providing and laying interlocking 80mm thick Concrete paving blocks in carraigeway including sand bed of thickness 50 mm and precast concrete head strips etc. complete as per drawing and specifications.	Sqm	ASP	7287.8	710.00	5,174,338.00
13	4.13	Filling pot hole and patch repair with premix surfacing (20 mm)Removal of all failed material, trimming of completed excavation to provide firm vertical faces, cleaning of surface, painting of tack coat on the sides and base of excavation as per clause 503, back filling the pot holes with hot bituminous material as per clause 511, compacting, trimming and finishing the surface to form a smooth continuous surface, all as per clause 3004.2	Sqm	MORT&H			-
14	4.14	Providing and laying slurry seal consisting of a mixture of fine aggregates, portland cement filler, bituminous emulsion and water on a road surface including cleaning of surface, mixing of slurry seal in a suitable mobile plant, laying and compacting to provide even riding surface	Sqm	MORT&H			-

Sr. No.	Item No.	Description	Unit	Specifications	Qty	Estimated Cost	
						Unit Rate in Rs.	Amount in Rs.
		Total of Section 4					73,657,224.73
	Sec-5	Cross-Drainage Work					
1	5.1	Earthwork in excavation for foundation for structures in all types of strata other than rock for all depths including dressing of bottom and sides of trenches, stacking excavated stuff clear from the edges of the trenches, including disposal of surplus soil as directed by the Engineer, dewatering by bailing out and/or diverting the stream and/or pumping out water if necessary during all items of construction including sumps of well foundation , backfilling the trenches with approved material including watering, ramming, with all leads etc. complete	Cum	B Clause 301	485	40.00	19,412.00
2	5.2	Providing and laying in situ cement concrete M-15 using stone metal, natural or crushed sand and OPC 43/53 grade for levelling course for head wall including necessary formwork, centering, mixing in mechanised batch mix plant, compacting, curing by sprinkling/ponding of water for 7 days and finishing as directed including all Head wall	Cum	B Section 1500, 1700 & 2100 ASP	18	1,871.00	33,678.00
3	5.3	Providing and laying in situ M-25 grade cement conc. for head wall using stone metal, natural or crushed sand, OPC 43/53 grade, including necessary formwork, centering, mixing in mechanised batch mix plant, compacting, curing by sprinkling/ponding of water for 7 days and finishing as directed including all leads, lifts etc. complete. (excluding steel reinforcement)	Cum	B Section 1500 & 1700 ASP	155.22	2,467.00	382,927.74
	(a)	for M-25Grade Concrete	Cum				
4	5.4	Providing and laying in situ 230mm rubble soling below the pipe cradal including nessary dreassig, chiselling,laying etc. complete as directed by engineer incharge.	Cum	MORT&H	38	132.00	4,975.08
5	5.5	Providing and laying in situ cement concrete M-15 using stone metal, natural or crushed sand and OPC 43/53 grade for levelling course for head wall including necessary formwork, centering, mixing in mechanised batch mix plant, compacting, curing by sprinkling/ponding of water for 7 days and finishing as directed including all PIPE CRADLE	cum	MORT&H	90.14	1,869.00	168,471.66
6	5.6	Providing and laying in situ 1000MM dia. ISI mark class NP-4 pipe complete as per specifications and as directed by Engineer.	RM	MORT&H	91	9,165.00	834,015.00
7	5.7	Providing and laying in situ 300MM TH. Dry stone pitching for apron.	Cum	MORT&H	16.2	46.20	748.44
8	5.8	Providing and laying in situ 300mm th. Filter media behind head wall as per specifications and as directed by engineer.	Cum	MORT&H	23	166.00	3,784.80
9	5.9	providing and filling the portion over the pipe by selected granular material as per specifications and as directed by engineer.	Cum	MORT&H	253.4	176.00	44,598.40
		Total of Section 5					1,492,611.12
	Sec-6	Road Markings, etc.					

Sr. No.	Item No.	Description	Unit	Specifications	Qty	Estimated Cost	
						Unit Rate in Rs.	Amount in Rs.
1	6.1	Providing and laying hot applied thermoplastic road marking compound in approved colour and shade for road marking on bituminous/ concrete road surface in centre line 100mm wide 2.5mm thick using fully automatic extrusion machine and using premelter for melting thermoplastic Material including cleaning the surface of all dirt, dust, and other foriegn matter, demarcation at site/premarking, finishing and managing the traffic control etc.complete. The thermoplastic compound shall be of approved colour and shade. Marking to be done as per specifications, detailed drawings and as directed.	Sqm	B Clause 803	431	630.00	271,824.00
2	6.2	Providing and applying two coats of synthetic enamel paint including primer to kerb as per Technical Specification and as directed by the engineer.	Sqm	MORT&H	296	60.00	17,748.00
3	6.3	Providing and laying hot applied thermoplastic road marking compound in approved colour and shade for road marking on bituminous/ concrete road surface in edge line 150mm wide 2.5mm thick using fully automatic extrusion machine and using premelter for melting thermoplastic Material,including cleaning the surface of all dirt, dust, and other foriegn matter, demarcation at site/ premarking, finishing and managing the traffic control etc.complete and as per specifications, detailed drawings and as directed.	Sqm	B Clause 803	877	630.00	552,447.00
4	6.4	Providing and laying hot applied thermoplastic road marking compound in approved colour and shade for road marking on bituminous/ concrete road surface in pedestrian crossings, chevrons, directional arrows etc, 2.5mm thick using fully automatic extrusion machine and using premelter for melting thermoplastic .Material,including dispensing drop on glass beads of approved make and as per BS 6088 at the rate 250 gms per sqm. including cleaning the surface of all dirt, dust, and other foriegn matter, demarcation at site/ premarking, finishing and managing the traffic control etc.complete. Marking to be done as per specifications, drawings and as directed.	Sqm	B Clause 803	6171	630.00	3,887,415.00
		Total of Section 6					4,729,434.00
	Sec-7	TRAFFIC SIGNS/ROAD FURNITURE					
1	7.1	Supplying and fixing informatory road sign boards made up with high intensity grade retro-reflective type sheeting complete as per drawing and Technical specifications.		B Section 800 ASP			-
	a)	Boards of area not exceeding 1 sq. m.	Nos		30	10,500.00	315,000.00
2	7.2	Supplying and fixing utility/services road sign boards made up with high intensity grade retro-reflective type sheeting complete as per drawing and Technical specifications.		B Section 800 ASP			-
	a)	Boards of area not exceeding 1 sq. m.	Nos	B Section 800 ASP	20	10,500.00	210,000.00
3	7.3	Supplying and fixing cautionary/warning road sign boards (Equilateral triangle 900 mm side) made up with high intensity grade retro-reflective type sheeting complete as per drawing and technical specifications.	Nos	B Section 800 ASP	137	3,675.00	503,475.00

Sr. No.	Item No.	Description	Unit	Specifications	Qty	Estimated Cost	
						Unit Rate in Rs.	Amount in Rs.
4	7.4	Supplying and fixing regulatory/mandatory road sign boards (Circular 600 mm dia) made up with high intensity grade retro-reflective type sheeting complete as per drawing and Technical specifications.	Nos	B Section 800 ASP	26	3,439.00	89,414.00
5	7.5	Supplying/Erecting and fixing in position road overhead retro-reflective informatory sign boards including fixing on overhead gantry structure including the cost of gantry and other supports and including cost of back frame complete as per drawing and specifications.	Nos	B Section 800 ASP			
	(a)	12 mt	Nos			864,184.00	-
	(b)	15 mt	Nos			1,050,515.00	-
	©	18-22 mt	Nos			1,152,864.00	-
	(d)	24-30 mt	Nos		3	1,434,326.00	4,302,978.00
6	7.6	Supplying and fixing in position road cantilever overhang retro-reflective informatory sign boards including fixing on specified galvoniged overhang structure including the cost of overhang and other supports but including cost of back frame complete as per drawing and specifications.	Nos.	B Section 800 ASP	10	360,000.00	3,600,000.00
7	7.7	Providing and fixing aluminium casted CAT EYE STUD of size 10 cm *10 cm at the base with zinc coated nalls of size 12 mm dia of 12 cm long having both side (dual direction) high impact ABC 3 nos of eyes of 16 mm dia on both side containing 7 beads each i.e . 42 beads in retro reflective etc. complete	Nos.	MORT&H		191.00	-
8	7.8	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 strips, fitted with 80 x 100 mm rectangular or 75 mm dia circular reflectorised panels at the top, buried or pressed into the ground and conforming to I RC-79 and the	Rm	MORT&H		701.00	-
9	7.9	Supplying and fixing in position MS Railing including Painting complete as per drawing and specifications.	Rm		5606	2,000.00	11,212,000.00
		Total of Section 7					20,232,867.00
	Sec - 8	Traffic Management					
		Traffic Management		B Section 100 ASP			
1	8.1	Traffic Management and Regulation during construction Maintaining, Managing, Operating the traffic plying on road during day and night smoothly and safely as and when required C262without hindrance to traffic during entire construction activity by providing necessary equipments such as, various road signs,					-
	a)	Installation of a steel portable barricade with horizontal rail 300 mm wide, 2.5 m in length fitted on a 'A' frame made with 45x45x5 mm angle iron section, 1.5 m in height, horizontal rail painted (2 coats) with yellow and white strips, 150 mm in width at an angle of 45o, 'A' frame painted with 2 coats of yellow paint, complete as per IRC:SP:55-2001.	RM		897	1,522.00	1,365,234.00
	b)	Providing Red lanterns or warning lights of similar type on the barricades.	Nos		45	50.00	2,250.00

Sr. No.	Item No.	Description	Unit	Specifications	Qty	Estimated Cost	
						Unit Rate in Rs.	Amount in Rs.
	c)	Provision of metal drum / empty bitumen drum delineator, 300 mm in diameter 800 mm high filled with earth for stability painted in circumferential strips of alternate black and white 100 mm white fitted with reflectors 3 nos. of 7.5 cm dia. All as per IRC-SP:55-2001.	Nos		374	322.00	120,428.00
	d)	Installation of a steel portable barricade with horizontal sheet of 800 mm wide, 3.0 m in length fitted on a 'wooden bamboos of diameter 200 mm 1.5 m in height, horizontal sheet painted (2 coats) with yellow and white stripes, 150 mm in width at an angle of 45, complete as directed by Engineer.	Nos		747	447.00	333,909.00
		Total of Section 8					1,821,821.00
Sec - 9 Utility Relocation Items							
		Utility Relocation Items (Provisional Sum)		B Section 100			
1	9.1	Water Pipe Line					
		Relocation of water pipelines by nominated sub-contractors.	Per 100 m		14	115,000.00	1,610,000.00
2	9.2	Sewerage Line					
		Relocation of sewerage services by nominated sub-contractors.	Per 100 m		14	100,000.00	1,400,000.00
3	9.3	Electricity, (M.S.E.B.)					
	i)	Relocation of electrical services by nominated sub-contractors.	Per 100 m		14	115,630.00	1,618,820.00
	ii)	Relocation of H.T. pylons of (M.S.E.B) by nominated sub-contractors.	Per 100 m		14	81,625.00	1,142,750.00
4	9.4	Telephone					
		Relocation of telephone services by nominated sub-contractors.	Per 100 m		14	1,600.00	22,400.00
5	9.5	Relocation of OFC Lines by nominated sub-contractors.	Per 100 m		14	12,000.00	168,000.00
		Total of Section 9					5,961,970.00

**DPR FOR ROAD DEVELOPMENT IN NANDED UNDER JNNURM
ROAD FROM DEGLOOR NAKA TO GADEGAON JN (ROAD NO.9)
(From Ch: 0+000 TO 3+830 - Effective Length :2+803)
SUMMARY**

SECTION	SHORT DESCRIPTION	TOTAL AMOUNT (Rs. In Figures)
1)	Site Clearance	1,031,563
2)	Earthwork	4,869,499
3)	Drainage and Protective Works, paver blocks in FP, cross pipes for utilities etc	34,627,346
4)	Pavement	73,657,225
5)	Cross Drainage Works & Retaining Wall	1,492,611
6)	Road Markings	4,729,434
7)	Traffic Signs/Road Furniture	20,232,867
8)	Traffic Management	1,821,821
9)	Utility Relocation Items(items not considered for missing link length of road)	5,961,970
	TOTAL (FROM SECTION 1 TO 9)	148,424,336