

## NH54 Sec-2, PKG-5 (S-2-3) BREAKDOWN OF CONSTRUCTION COST

L= 34.6 km

S. NO.	DESCRIPTION	QTY	UNIT	AMOUNT (Rs)
<b>(A) CONSTRUCTION COST</b>				
<b>A1</b>	<b>SITE CLEARANCE</b>			<b>5,237,513</b>
	A1.1 Clearing and Grubbing	52.89	hectare	1,709,669
	A1.2 Dismantling of Structures	1	LS	2,666,188
	A1.3 Cutting of Trees	852	each	861,656
<b>A2</b>	<b>EARTHWORK</b>			<b>716,290,520</b>
	A2.1 Excavation in Soil	29,642	cum	6,736,145
	A2.2 Excavation in Ordinary Rock	961,643	cum	310,850,938
	A2.3 Excavation in Hard Rock	51,903	cum	28,974,571
	A2.4 Excavation for Structures in Soil	694	cum	54,826
	A2.5 Excavation for Structures in Ordinary Rock	37,542	cum	3,941,858
	A2.6 Excavation for Structures in Hard Rock	3,896	cum	3,463,100
	A2.7 Embankment Construction	217,815	cum	41,167,035
	A2.8 Scarifying Existing Bituminous Surface	16,880	sqm	320,720
	A2.9 Subgrade	31,292	cum	14,801,116
	A2.10 Spoil Bank	836,211	cum	305,980,211
	A2.11 Provisional Variation in Excavation	0	cum	0
<b>A3</b>	<b>PAVEMENT</b>			<b>1,575,943,756</b>
	A3.1 Granular Sub-base	119,353	cum	367,726,593
	A3.2 Wet Mix Macadam	96,824	cum	301,316,288
	A3.3 Prime Coat	387,298	sqm	17,041,112
	A3.4 Tack Coat	380,438	sqm	7,608,760
	A3.5 Dense Graded Bituminous Macadam	38,044	cum	507,316,740
	A3.6 Bituminous Concrete	15,118	cum	225,772,212
	A3.7 Surface Dressing	1,493	sqm	206,015
	A3.8 Carriage of Materials	1	LS	148,956,036
<b>A4</b>	<b>DRAINAGE</b>			<b>367,098,757</b>
	A4.1 Lined Ditch 300 mm	35,037	metre	80,351,127
	A4.2 Sub Surface Drain with Perforated Pipe	0	metre	0
	A4.3 Pipe Culvert 1,200 mm (Re-Construction)	146	each	167,695,016
	A4.4 Pipe Culvert 1,200 mm (New Construction)	37	each	39,284,528
	A4.5 Box Culvert 2 m x 2 m	11	each	32,405,362
	A4.6 Box Culvert 3 m x 3 m	4	each	17,349,228
	A4.7 Box Culvert 4 m x 4 m	2	each	12,499,712
	A4.8 Box Culvert 4 m x 6 m	2	each	17,513,784
<b>A5</b>	<b>BRIDGE</b>			<b>13,269,863</b>
	A5.1 Concrete Bridge (KM190+190)	0	LS	0
	A5.2 Concrete Bridge (KM215+450)	1	LS	13,269,863
<b>A6</b>	<b>SLOPE PROTECTION</b>			<b>1,022,961,593</b>
	A6.1 Wet Masonry Retaining Wall (H=3m)	8,560	metre	133,065,200
	A6.2 Wet Masonry Retaining Wall (H=7m)	4,550	metre	255,459,750
	A6.3 Gravity Wall (H=1.5m)	1,740	metre	31,880,280
	A6.4 Gravity Wall (H=2m)	1,550	metre	37,865,467
	A6.5 Gravity Wall (H=3m)	2,420	metre	88,678,480
	A6.6 Gravity Wall (H=4m)	1,620	metre	79,151,040
	A6.7 Gravity Wall (H=5m)	1,080	metre	65,959,200
	A6.8 Gravity Wall (H=6m)	760	metre	55,698,880
	A6.9 Reinforced Earth Retaining Wall (H=7m)	480	metre	86,208,528
	A6.10 Reinforced Earth Retaining Wall (H=8m)	100	metre	20,525,840
	A6.11 Reinforced Earth Retaining Wall (H=9m)	0	metre	0
	A6.12 Reinforced Earth Retaining Wall (H=10m)	60	metre	15,394,380
	A6.13 Gabion Wall (1:0.3)	2,040	cum	6,495,360
	A6.14 Rockfall Prevention Wall (H=3m)	4,568	cum	28,607,354
	A6.15 Rockfall Prevention Fence (H=2m)	1,050	metre	10,421,250
	A6.16 Hydroseeding (t=5cm)	0	sqm	0
	A6.17 Seeding and Mulching (Soil Cut Slope)	201,852	sqm	48,444,480
	A6.18 Turfing (Embankment)	101,854	sqm	8,250,174
	A6.19 Vegetation Mat (Steep Slope)	0	sqm	0
	A6.20 Crib Work (F300)	14,091	sqm	49,079,368
	A6.21 Crib Work (F500)	0	sqm	0
	A6.22 Non-frame	0	sqm	0
	A6.23 Earth Removal	0	cum	0
	A6.24 Counterweight Fill	0	cum	0
	A6.25 Groundwater Drainage Work	150	metre	1,776,562
	A6.26 Anchor Work (F110UA)	0	metre	0
	A6.27 Rock-bolt Work (D22)	0	metre	0
	A6.28 Emergency Works	0	km	0
<b>A7</b>	<b>TRAFFIC SAFETY FACILITIES</b>			<b>32,495,917</b>
	A7.1 Traffic Sign	1	LS	196,036
	A7.2 Road Marking	8,419	sqm	10,111,440
	A7.3 Road Delineator	30	each	129,384
	A7.4 Guard Rail	2,984	metre	17,133,779
	A7.5 Street Furniture	3,740	each	4,925,278
<b>A8</b>	<b>ROAD APPURTENANCES</b>			<b>24,146,228</b>
	A8.1 Kilometer Stone (5km)	7	each	36,545
	A8.2 Kilometer Stone (1km)	27	each	91,183
	A8.3 Kilometer Stone (200m)	135	each	123,949
	A8.4 Boundary Stone	674	each	581,307
	A8.5 Bus Bay and Road Amenities	4	each	22,287,868
	A8.6 View Point	2	each	1,025,376
	<b>TOTAL OF (A)</b>			<b>3,757,444,147</b>