

## NH54 Sec-1, PKG-1 (S-1-1) BREAKDOWN OF CONSTRUCTION COST

L= 57.0 km

S. NO.	DESCRIPTION	QTY	UNIT	AMOUNT (Rs)
<b>(A) CONSTRUCTION COST</b>				
<b>A1</b>	<b>SITE CLEARANCE</b>			<b>7,753,106</b>
	A1.1 Clearing and Grubbing	71.99	hectare	2,327,077
	A1.2 Dismantling of Structures	1	LS	4,100,752
	A1.3 Cutting of Trees	1,311	each	1,325,277
<b>A2</b>	<b>EARTHWORK</b>			<b>824,257,426</b>
	A2.1 Excavation in Soil	186,065	cum	42,283,164
	A2.2 Excavation in Ordinary Rock	910,888	cum	294,444,536
	A2.3 Excavation in Hard Rock	81,589	cum	45,547,204
	A2.4 Excavation for Structures in Soil	12,560	cum	992,224
	A2.5 Excavation for Structures in Ordinary Rock	87,413	cum	9,178,383
	A2.6 Excavation for Structures in Hard Rock	11,270	cum	10,019,243
	A2.7 Embankment Construction	310,866	cum	58,753,674
	A2.8 Scarifying Existing Bituminous Surface	85,015	sqm	1,615,285
	A2.9 Subgrade	54,192	cum	25,632,816
	A2.10 Spoil Bank	924,727	cum	335,790,897
<b>A3</b>	<b>PAVEMENT</b>			<b>2,610,539,753</b>
	A3.1 Granular Sub-base	197,436	cum	608,300,316
	A3.2 Wet Mix Macadam	161,083	cum	501,290,296
	A3.3 Prime Coat	644,331	sqm	28,350,564
	A3.4 Tack Coat	635,693	sqm	12,713,860
	A3.5 Dense Graded Bituminous Macadam	63,528	cum	847,145,880
	A3.6 Bituminous Concrete	25,322	cum	378,158,748
	A3.7 Surface Dressing	2,119	sqm	292,373
	A3.8 Carriage of Materials	1	LS	234,287,716
<b>A4</b>	<b>DRAINAGE</b>			<b>522,716,114</b>
	A4.1 Lined Ditch 300 mm	58,660	metre	130,534,740
	A4.2 Sub Surface Drain with Perforated Pipe	0	metre	0
	A4.3 Pipe Culvert 1,200 mm (Re-Construction)	255	each	286,476,690
	A4.4 Pipe Culvert 1,200 mm (New Construction)	77	each	79,817,122
	A4.5 Box Culvert 2 m x 2 m	6	each	17,365,764
	A4.6 Box Culvert 3 m x 3 m	2	each	8,521,798
	A4.7 Box Culvert 4 m x 4 m	0	each	0
	A4.8 Box Culvert 4 m x 6 m	0	each	0
<b>A5</b>	<b>BRIDGE</b>			<b>32,697,000</b>
	A5.1 Repair of Tuirial Bridge (L=71m)	1	LS	32,697,000
<b>A6</b>	<b>SLOPE PROTECTION</b>			<b>2,288,942,118</b>
	A6.1 Wet Masonry Retaining Wall (H=3m)	19,700	metre	299,380,900
	A6.2 Wet Masonry Retaining Wall (H=7m)	6,000	metre	329,376,000
	A6.3 Gravity Wall (H=1.5m)	2,700	metre	49,469,400
	A6.4 Gravity Wall (H=2m)	4,170	metre	101,870,320
	A6.5 Gravity Wall (H=3m)	5,970	metre	218,764,680
	A6.6 Gravity Wall (H=4m)	4,280	metre	209,115,093
	A6.7 Gravity Wall (H=5m)	2,700	metre	164,898,000
	A6.8 Gravity Wall (H=6m)	2,980	metre	218,398,240
	A6.9 Reinforced Earth Retaining Wall (H=7m)	980	metre	176,009,078
	A6.10 Reinforced Earth Retaining Wall (H=8m)	560	metre	114,944,704
	A6.11 Reinforced Earth Retaining Wall (H=9m)	280	metre	64,656,396
	A6.12 Reinforced Earth Retaining Wall (H=10m)	360	metre	92,366,280
	A6.13 Gabion Wall (1:0.3)	3,430	cum	10,921,120
	A6.14 Rockfall Prevention Wall (H=3m)	2,436	cum	15,255,585
	A6.15 Rockfall Prevention Fence (H=2m)	560	metre	5,558,000
	A6.16 Hydroseeding (t=5cm)	360	sqm	1,476,000
	A6.17 Seeding and Mulching (Soil Cut Slope)	221,058	sqm	53,054,019
	A6.18 Turfing (Embankment)	103,499	sqm	8,383,433
	A6.19 Vegetation Mat (Steep Slope)	3,100	sqm	7,094,997
	A6.20 Crib Work (F300)	900	sqm	3,134,727
	A6.21 Crib Work (F500)	3,450	sqm	20,397,451
	A6.22 Non-frame	1,200	sqm	10,503,218
	A6.23 Earth Removal	8,190	cum	2,260,440
	A6.24 Counterweight Fill	0	cum	0
	A6.25 Groundwater Drainage Work	2,010	metre	23,805,936
	A6.26 Anchor Work	4,450	metre	87,848,101
	A6.27 Rock-bolt Work	0	metre	0
	A6.28 Emergency Works	0	km	0
<b>A7</b>	<b>TRAFFIC SAFETY FACILITIES</b>			<b>54,486,452</b>
	A7.1 Traffic Sign	1	LS	1,307,049
	A7.2 Road Marking	13,049	sqm	15,671,592
	A7.3 Road Delineator	101	each	437,799
	A7.4 Guard Rail	5,126	metre	29,436,018
	A7.5 Street Furniture	5,797	each	7,633,994
<b>A8</b>	<b>ROAD APPURTENANCES</b>			<b>47,468,442</b>
	A8.1 Kilometer Stone (5km)	22	each	122,474
	A8.2 Kilometer Stone (1km)	42	each	140,244
	A8.3 Kilometer Stone (200m)	209	each	191,906
	A8.4 Boundary Stone	1,044	each	900,018
	A8.5 Bus Bay and Road Amenity	8	each	44,575,736
	A8.6 View Point	3	each	1,538,064
	<b>TOTAL OF (A)</b>			<b>6,388,860,411</b>