

Project : Special Repair For NH-06 – Package IV [Kolasib to Sethawn (12 km)]						
Cost Abstract						
Special Repair works of Existing road from km 95+000 to km 107+000						
SI No.	Ref SOR No	Description	Unit	Quantity	Rate Rs	Amount Rs
		SITE CLEARENCE				
1	10.18 (c)	Bush clearance (Clearing road side vegetation, brush wood mooli bamboos, overgrown grass including removal etc. along existing road side, and disposal of the cut bushes down hill side of the road formation. This jungle clearance should includes minimum height of Clearance of 4.5m from top of pavement on uphill side of the road including road shoulder and all the bushes on the shoulder and down hill side of the road.)	Km	12.000	9,559.00	114708.00
2	10.12	Land slide clearance (Clearance of land slides in soil and ordinary rock by a bull-dozer D 80 A-12, 180 HP and disposal of the same on the valley side)- On need basis as & when required. Here it is taken for estimate purpose only	Cum	5000.000	52.00	260000.00
3	3.13	Scarifying existing bituminous surface to a depth of 50 mm by mechanical means (Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material with in all lifts and load upto 1000 metres.)	Sqm	84000.000	23.00	1932000.00
4	10.11	Hill side drain clearances (Removal of earth from the choked hill side drain and disposing it on the valley side manually)	m	12000.000	68.00	816000.00
5		Hiring of JCB (30Days) Per Day 8 Hrs- On need basis as & when required. Here it is taken for estimate purpose only	Hrs	240.000	2,500.00	600000.00
6	10.3	Maintenance of Earth Shoulder (stripping excess soil) (Stripping excess soil from the shoulder surface to achieve the approved level and compacting with plate compactor) Both Sides	Sqm	12000.000	33.00	396000.00
7	10.2	Maintenance of Earthen Shoulder (filling with fresh soil) (Making up loss of material/ irregularities on shoulder to the design level by adding fresh approved soil and compacting it with appropriate equipment.) Both Side of Road	Sqm	12000.000	109.00	1308000.00
Sub Total :						5426708.00
Black Spot Rectification GRANULAR SUB-BASE & BASE COURSE						
8	4.1 B (IV)	Granular Sub base (GSD) for Grading-IV Material (By Mix in Place Method (Construction of granular sub-base by providing the material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401)	Cum	326.400	2680.00	874752.00

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9	4.11	Wet mix Macadam (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.)	Cum	1875.000	3950.00	7406250.00
Sub Total :						8281002.00
BITUMINOUS BASE AND SURFACE COURSES						
10	5.1 (i)	Prime coat - Low Porosity (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 shown in 500-1 using mechanical means.)	Sqm	7000.000	48.00	336000.00
11	5.2	Tack coat on WMM - Granular Surface Treated with Primer (Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at required rate on the prepared bituminous/granular surface cleaned with mechanical broom.)	Sqm	7000.000	29.00	203000.00
12	5.2 (iii)	Tack coat on DBM Granular Surface Treated with Primer (Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at required rate on the prepared bituminous/granular surface cleaned with mechanical broom.)	Sqm	7000.000	29.00	203000.00
13	5.2 (iii)	Tackcoat on existing bituminous surface (Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at required rate on the prepared bituminous/granular surface cleaned with mechanical broom.)	Sqm	77000.000	22.00	1694000.00
14	5.4(ii)	Dense Graded Bituminous Macadam for Grading II (19 mm nominal size) (Providing and laying dense bituminous macadam with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.0 to 4.5% by weight of total mix of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 507 complete in all respects.)	Cum	350.000	14971.00	5239850.00

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15	5.5 (i)	Bituminous Concrete (Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 5.4 to 5.6 % of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects) Case - I using Bitumen 60/70 for Grading-I (13 mm nominal size)	Cum	3318.000	16613.00	55121934.00
16	6.1	Dry Lean Concrete (DLC) -(Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing.)	Cum	191.250	7,005.00	1339706.25
17	6.2	Cement Concrete Pavement (Construction of unreinforced, dowel jointed, plain cement concrete pavement over a prepared sub base with 43 grade cement @ 400 kg per cum, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing)	Cum	294.000	14,761.00	4339734.00
Sub Total :						68477224.25
22		Gabion Retaining Wall 10 m height				
18	13.5B	PCC M20 Concrete (Plain/Reinforced cement concrete in sub-structure complete as per drawing and technical specifications)	Cum	12.000	10,640.00	127680.00

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19	15.12	Gabion Structure (Providing and construction of a gabain structure for retaining earth with segments of wire crates of size 7 m x 3 m x 0.6 m each divided into 1.5 m compartments by cross netting, made from 4 mm galvanised steel wire @ 32 kg per 10sqm having minimum tensile strength of 300 Mpa conforming to IS:280 and galvanizing coating conforming to IS:4826, woven into mesh with double twist, mesh size not exceeding 100 x 100 mm, filled with boulders with least dimension of 200 mm, all loose ends to be tied with 4 mm galvanised steel wire)	Cum	2125.000	3,695.00	7851875.00
20	15.60	Geo-Textile Fabric(Laying of a geotextile filter between pitching and embankment slopes on which pitching is laid to prevent escape of the embankment material through the voids of the stone pitching/cement concrete blocks as well as to allow free movement of water without creating any uplift head on the pitching.	Sqm	600.000	458.00	274800.00
Sub Total :						8254355.00
Road side drain (Type I and Type II)						
21		Earth work in excavation of foundation (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising the remaining earth locally for road work.)				
	12.11 B (i)	(i) in soil (Depth upto 3 m) by mechanical means	Cum	428.930	90.00	38603.70
	3.11 ii B	(ii) in Ordinary rock (not requiring blasting)	Cum	22.580	119.00	2687.02
22	9.10	PCC M15 (Plain cement concrete 1:3:6 mix with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days.)	Cum	21.000	7,000.00	165000.00
23	12.8 B	PCC M-20 in drain Plain/Reinforced cement concrete in open foundation complete as per drawing and technical specifications	Cum	132.500	10,640.00	1409800.00
24	13.8	Weep holes Providing weep holes in Brick masonry/Plain/Reinforced concrete abutment, wing wall/return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing face. Complete as per drawing and Technical specifications	No.	800.000	1,733.00	1386400.00
Sub Total :						3003390.72

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		Culverts				
25	12.8 B	PCC M20 Parapet wall (Plain/Reinforced cement concrete in open foundation complete as per drawing and technical specifications)	cum	12.000	10,640.00	127680.00
26		Blockage clearances (20 Pipe Culvert) - (3.14*0.6*0.6*12)*20	Cum	271.296	74.00	20075.90
		Sub Total :				147755.90
		Total				₹ 9,35,90,436
		Work Value Less 6% VAT in above Rate				₹ 8,82,92,864
		GST (12 %)				₹ 1,05,95,144
		Bid Price (Work Value +GST)				₹ 9,88,88,008
		Agency Charges (9%)				₹ 79,46,358
		GST (18%) on Agency Charges				₹ 14,30,344
		Final Cost (Rs)				₹ 10,82,64,710
		Final cost (Cr)				₹ 10.83