

**Bill of Quantity for Special Repair of NH-102B Tuivai-Keifang Road from km 28.0 to km 122.0
(km 28.0 to km 41.0, km 71.0 to km 79.0 & km 115.700 to km 122.0) (Package-2)**

SN	SOR Ref. No	DESCRIPTION	UNIT	NOS.	QUANTITY	RATE (INR)	AMOUNT (INR)
1	10.18	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including , hand packing, rolling, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density. from km 0.000 to km 92.270 (as per Measurement Sheet attached)	sqm		143.4	5629	807198.60
2	5.1	Prime 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 shown in 500-1 using mechanical means.)					
		(ii) Medium Porosity	sqm		143.40	₹ 84.00	12045.60
3	5.2	Tack coat (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.)					
		ii) Dry and Hungry Bituminous Surface	sqm		112612.50	₹ 25.00	2815312.50
4	5.8	Close Graded Premix Surfacing/Mixed Seal Surfacing (Mechanical means using HMP of appropriate capacity not less than 75 tonnes/hour. Providing, laying and rolling of close-graded premix surfacing material of 20 mm thickness composed of 11.2 mm to 0.09 mm (Type-a) or 13.2 mm to 0.09 mm (Type-b) aggregates using penetration grade bitumen to the required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a Smooth wheeled roller 8-10 tonne capacity, and finishing to required level and grade)					
	(ii)	A. Using 60/70 Grade Bitumen	sqm		112612.50	₹ 318.00	35810775.00
		km 28.000 to km 41.000					
		km 71.000 to km 79.000					
		km 115.700 to km 122.000					
5	10.17	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.					
	i	for NHs from km 28.000 to km 122.000	km		35	₹ 9,559.00	334565.00
6	10.14	Land Slide Clearance in soil (Clearance of land slides in soil and ordinary rock by a Excavator / Back Hoe and disposal of the same on the valley side) - This item shall be only executed upon instruction from Engineer at specified locations on need basis - Lumpsum quantity considered	cum		40000	₹ 85.00	3400000.00
7		Construction of Retaining Wall - This item shall be constructed only upon instruction from Engineer at specified locations on need basis	m		90	₹ 38,820.00	3493800.00
8		Construction of Breast Wall - This item shall be constructed only upon instruction from Engineer at specified locations on need basis	m		120	₹ 44,185.00	5302200.00
9	P&M-014	Hiring of Dozer D - 80 - A 12 - This item shall be constructed only upon instruction from Engineer at specified locations on need basis - Lumpsum quantity considered	hour		100	₹ 5,700.00	570000.00

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SN	SOR Ref. No	DESCRIPTION	UNIT	NOS.	QUANTITY	RATE (INR)	AMOUNT (INR)
	A3.8	Carriage of Materials					
10	10/1.1	Loading and unloading of stone boulder/stone aggregates/sand/ kanker/moorum. (Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip)					
		For Aggregates & Sand : Quantity as per Annexure-II =	cum		3262.69	219.00	714528.00
11	12/1.4	Loading and Unloading of Bitumen by Manual Means and stacking.					
		Bitumen Quantity as per Annexure-II =	ton		248.32	160.00	39731.00
12	13/1.6	Cost of Haulage Excluding Loading and Unloading For Short Haul for a distance upto 100 km					
		(i) Surfaced Road					
		Stone agg. from Quarry to work site					
		Quantity as per Annexure-II =	t.km	10.00	5642.37	13.20	744793.00
13	14/1.7	Cost of Haulage Excluding Loading and Unloading For Long Haul for a distance upto 100 km					
		(i) Surfaced Road					
		Bitumen from Aizawl to work site					
		Quantity as per Annexure-II =	t.km	90.00	248.32	11.30	252539.00
A			Total			5,42,97,488	
B			Adjustment of VAT			5,12,24,045	
C							
D			GST (12% on B)			61,46,885	
E			Total Estimated Cost (Incl. Of GST)			5,73,70,930	