

**ESTIMATE FOR REPAIRING OF DAMAGE SURFACE (FROM POWER HOUSE  
TO GOALTULI) OF FULBARI BY-PASS, SILIGURI**

Description of item	Unit	Quantity	Rate	Amount
1. Earth work in cutting to form road section in correct profile including removal of spoils not exceeding initial lead of 50 m. and initial lift of 1.50m. (b) in mixed soil (I.e. clay mixed with Kankar, Pebbles, moorum etc.	m3	3000.00	36.70	110100.00
2. Dismantling existing structure irrespective of all heights and depth including stacking serviceable materials at site and removing the unserviceable materials as desired within a lead of 150m. (C) Plain Cement concrete	m3	35.60	400.00	14240.00
3 Patching of potholes by draining water, cutting the pothole area to rectangular shape with vertical edges, removing all loose materials, screening and stacking the same for reuse with new materials as per requirement, filling the pothole area with additional volume of crushed stone materials and screening as applicable and compacting the same with static roller as per water bound macadam specification including cost of all materials and machineries .	m3	1170.35	1486.45	1739666.76
4. Repairing potholes and making up small depression with ramming or power rolling including screening, Cleaning chips or metal and washing drying as necessary, cutting potholes, to regular shapes with vertical edges, cleaning the disintegrated material, heating matrix and applying tack coat (including sides) finishing the top of repaired surface levelled with adjoining area, including cost of carriage of stone aggregates and matrix, excluding cost of applying tack coat. (a) With premixed chips with 54 kg of bitumen per m3 of loose net volume of stone chips using concrete mixture machine (the payment is to be made on the basis of loose net volume of stone materials consumed in the work. (ii) Using mobile Hot Mix plant (Light duty)	m3	360.50	3584.90	1292356.45

Description of item	Unit	Quantity	Rate	Amount
<p>5. Laying built up spray grout Of 75 mm compacted thickness including thorough cleaning of the surface, applying tack coat, screening and cleaning of stone materials spreading uniformly 1st layer of stone materials conforming to required grading including hand packing, rolling by power roller to proper camber, grade and super elevation and covering with hot bitumen @ 15 kg per 10 m2 of surface followed by similar operation of spreading 2nd layer of graded stone metals including hand packing rolling to proper camber grade etc. and covering once again with hot bitumen layer @ 15 kg per 10 m2 of surface completely covering the surface uniformly by spreading key aggregates conforming to required grading with necessary hand packing thoroughly compacting by power roller in proper camber grade and super elevation, including the cost of carriage of stone metals, bitumen and key aggregates and cost of heating of bitumen and all other incidental costs including hire charges of all sorts of machineries and equipments for construction cost of fuel and lubricants, procedures and quality control as per specification, excluding cost of applying tack coat</p>	m2	1900.50	292.89	556637.45
<p>6. Providing and applying tack coat using cationic bituminous emulsion of approved grade conforming to IS:8887-1978, over proposed surface including cleaning of surface, applying tack coat including cost of carriage of emulsion, hire charge of machineries and labour, cost of fuel and lubricants all completed as per specification and direction of engineer in charge. (a) Over Water Bound Macadam surface @ 4.00 Kg per 10 m2. (i) By manual Method</p>	m2	7000.00	15.49	108430.00

7.Laying 25mm. Thick premixed carpet (open graded using 1.80m3 of 13.2 mm size and 0.90 m3 of 11.2 mm size stone aggregates per 100 m2 of surface including thorough cleaning of the surface, applying tack coat screening, cleaning of the surface applying tack coatscreening, cleaning and preheating stone chips and fully pracoating the same with hot matrix @ 54 kg per m3 of aggregates laying the premixed chips uniformly over the surface, hand packing, thorough				
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rolling by power roller including the cost of carriage o stonecgips matrix heating the matrix and all other cost and charges in this connection including hire charges and cost of fuel and lubricants and machinaries and equipments for construction and quality control as per I.R.C specification complete i) By Mobile Hot Mix plant (light Duty) of capacity 3-5 Tons/hour (b) Tack coat using catonic Bitumen Emulsion (R.S or M.S) conforming to IS-8887-1978. over black top surface @ 3 kg/10m2. By Manual means (C) With north bengal variety stone aggregates.	M3	4343.50	107.81	468272.74
8. Laying premixed seal coat (Typed B) using 0.6 m3 of grit or sand (passing 2.36mm sieve and retained on 180 micron) per 100 m2 including through cleaning surface preheating the grit / sand, laying the mixture uniformly over the surface and rolling with power roller including the cost of carriage of grit/sand. and matrix, heating matrix, and grit/sand and all other cost and charges in this connection including hire charges and cost of fuel and lubricants of machinaries and equipment for construction and quality control (i) On freshly laid surface without tack coat.	M2	7000.00	38.91	272370.00
9.Providing and laying boulder sausage work including boulder for filling properly the empty sausage crates with hand packing after preparation of bed of placement, placing the crates in position, supply and carriage of boulders completed in all respect including stiching supplying wire the rest of sausage crates (passage for filling up boulders) after filling up the crate in position if necessary and as directed by Engineer -In_Charge	M3	120.00	1363.53	163623.60

10. Labour for pitching on slopes and berms including cost of carriage of stones/boulders (b) With Boulders or stone including rough dressing and hand packing 300 mm thick.	M2	937.46	591.77	554760.70
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11. Dressing and clilchalling road flanks including cutting and filling with earth up to 150mm average thickness finished with outward cross grade of 1 in 30 (Extra quantity of earth for filling shall be obtained from road side borrow pits)

M2      5000.00      5.00      25000.00

Total      5305457.69

Say      5305458.00