

**IMPROVEMENT OF BOTHSIDE APPROACH ROAD INCLUDING ONE SIDE V-DRAIN OF
R.C.C.BOX TYPE BRIDGE CONNECTING WARD NO. – 37 & 38 OF S.M.C.**

Sl. No	Description of item	Quantity	Rate in Rs.	Unit	Amount
1.	Roughening old black top surface by cutting 50x50 mm furrows at 45degrees to central line of road at 1m intervals, or closer including removal of loose scum etc. for proper bonding with new treatment.	1000.00	9.70	M2	9700.00
2.	Supplying, spreading and consolidating shingles of specific size in hard crust to requisite thickness (measured after compaction) in layers including screening of metals as necessary, hand packing, sweeping, watering and rolling in stages with power roller to proper line , grade and camber, lighting, guarding & barricading and making necessary earthen bundh of one metre width on each side where necessary to protect edges and preparing the bed by necessary cutting or filling and rolling all complete including the cost of all materials and labour charges of all men and machineries and as per specification and direction of Engineer - in - Charge including the cost of Broken Shingles & screening materials. (i) Broken Shingles (size 63 mm to 37.5 mm) of compacted thickness 75 mm , using 0.093 m3 of shingles and 0.02m3 of type A screening materials. Two layers	300.00	75.66	M2	22,698=00
3.	Spreading and consolidating stone metals of specific sizes in hard crust to requisite thickness (measured after compaction) in layers including screening the aggregates as necessary, hand packing after spreading in uniform thickness, rolling, with power roller in stages to proper grade and camber, spreading and sweeping requisite type and quantity of screening materials to fill up the interstices of coarse aggregates, applying binding materials as directed, watering etc. and lighting , guarding , barricading and making necessary earthen bundh of one metre width on each side where necessary to protect edges and preparing the bed by necessary cutting , filling and rolling all complete including the cost of all materials and hire and labour charges of all men and machineries and as per specification and direction of Engineer - in - charge but excluding cost of stone materials and screening (b) Coarse aggregates of size range 63 to 45 mm for 75 mm compacted thickness using 0.10 m3 of aggregates and 0.021 m3 of type B (11.2mm chips) stone screening materials. North Bengal Variety of stone metal & chips	1000.00	106.37	M2	1,06,370=00
4.	Providing & Laying 20mm thick premix carpet open graded using 1.8 m3 of 13.2mm size (@ 0. 18m3/m2 and 0.09 m3/m2)of 11.2 mm size stone aggregates per 100m2				

	<p>of surface including thorough cleaning of the surface, applying tack coat, screening, cleaning and preheating stone chips and fully pre coating the same with hot matrix @ 54 kg per m³ of aggregate laying the premixed chips uniformly over the surface, hand packing, thoroughly rolling by power roller including the cost and carriage of stone chips and matrix, heating the matrix, returning the empty drums to the departmental godown and all other cost and charges in this connection.</p> <p>I) BY MOBILE HOT MIX PLANT(LIGHT DUTY) of Capacity 3-5 tons/ Hour.including laying tack coat using Cationic Bitumen Emulsion(R.S. or M.S. grade) on black top surface including cost & Carriage of emulsion Tack coat over black top surface @ 3 kg /10 m² By Manual means</p> <p>North Bengal Variety Stone Chips (Crusher Broken).</p>	1120.00	113.37	M2	1,26,974=00
5.	<p>Laying premixed seal coat (Type – B) with approved quality sand/grit@ 0.6 m³/100m² & hot bitumen binder on thoroughly cleaned grit or sand (100% passing through 2.36 mm sieve and retained on 180 micron sieve) uniformly with hot binder @ 113.5 Kg per m³ of grit / sand in suitable pan/Mobile hot mix plant (Light duty) Laying & Spreading , rolling with power roller including cost and carriage of grit / sand and matrix, heating matrix and grit / sand returning the empty drums to the Deptt. Godown all other cost & charges in this connection.</p> <p>On freshly laid premixed surface excluding cost of applying tack coat. (b)Using Mobile Hot Mix Plant</p>	1120.00	46.52	M2	52,102=00
6	<p>Laying Bituminous Macadam of specified grade by Mobile Hot Mix Plant (Light Duty) using approved aggregates conforming to specified grading & bitumen on prepared surface, screening & cleaning the aggregates, pre heating, preparing a uniform & quality mix, carrying the hot premixed materials by means of approved & suitable arrangements, the mixed materials at specified laying temperature over the surface by means of suitable arrangements, tamping & finishing the mix to specified grade line & cross section, including thorough rolling with suitable power roller for breakdown, intermediate & finished rolling as per specification, hand packing & pinning to give an even surface complete including hire charges of machineries, cost of fuels & lubricants of Mobile Hot Mix Plant(light Duty) & all other Machineries & equipment, quality control as per IRC specification excluding cost of applying tack</p> <p>(B) In Base / Binder Course using 3.4% binder content by weight of total mix</p> <p>a)40 mm nominal compacted thickness .</p>	120.00	216.23	M2	25,948=00

7.	Earthwork in excavation of foundation of structures as per drawing & technical specification including setting out, removing, spreading or stacking of spoils within a lead of 150m as directed including trimming the side of trenches leveling, dressing and ramming the bottom complete as per direction of the Engineer in charge in all sorts of soils & rocks(soft or hard) by mechanical means(using excavator of suitable capacity). a) Depth upto 3mtrs. i) Without pumping out water	70.00	49.20	M3	3,444=00
8.	150mm th Boulder soling including ramming & dressing bed to proper level &filling joints with local sand	180.00	142.24	M2	25,603=00
9.	Providing & laying cement conc.(1:3:6) with or without reinforcement in any part of walls, with approved bazree of approved type 45mm to 22.4 mm size with screening and cleaning of aggregate and sand as necessary, curing in water with cost and carriage of all materials but excluding cost of labour and materials for formwork and	18.00	2477.02	M3	44, 586=00
10.	Plaster with sand and cement mortar including rounding off or chamfering corner as directed and including raking out joints or roughening of concrete surface curing and carriage of all materials with 4:1 cement mortar. A) 15 mm thick plaster.	220.00	64.40	M2	14,168=00
11.	Providing formwork and staging including hire and labour charges for the same as required for foundation conc. Works of depth not exceeding 500mm and for conc. In vertical face of parapet curb, road curb so as to give good concrete finish including stripping off and removing after completion of work as per specification	230.00	84.00	M2	19,320=00
12.	Neat cement punning on plastered surface	220.00	29.80	M2	6,556=00
Total Rs:					4, 57, 391=00

(Rupees Four Lac Fifty Seven Thousand Three Hundred Ninety One only.)