

BILL OF QUANTITY

NAME OF WORK: Improvement of Approach Road from Main Entrance to Women ITI at ITI Imphal West ,Takyel, Manipur.

(SH: Embankment of Road, WBM and

SI No.	Description of items	Qty	Unit	Rate (in rupees)	
				(in figure)	(in word)
1	2	3	4	5	6
SH: EARTHWORK					
1	Scarifying the existing granular road surface to a depth of 50 mm and disposal of scarified material within all lifts and leads upto 1000 meters. ii) Mechanical Means using Hydraulic excavator	1307.73	sqm		
2	Compacting original ground supporting subgrade (Loosening of the ground upto a level of 500 mm below the subgrade level, watered, graded and compacted in layers to meet requirement of table 300-2 for subgrade construction.)	627.99	cum		
3	Preparation and Surface Treatment of formation. (Preparation and surface treatment of formation by removing mud and slurry, watering to the extent needed to maintain the desired moisture content, trimming to the required line, grade, profile and rolling with 8-10 tonne smooth wheeled roller, complete as per clause 310.)	1307.73	sqm		
4	Banking excavated earth in layer not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with 1/2 tonne roller or wooden or steel rammer and rolling every third and topmost layer with power roller of minimum 8 tonne and dressing up in embankment for roads marginal banks flood banks and guide bank lead upto 50 metres and lift upto 1.5 metre				
	All kinds of soil	374.55	cum		
SH: SUB-BASE (NON BITUMINOUS)					
5	Construction of granular sub-base by providing close graded 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				

	(i) Grading-I Material	314.01	cum		
6	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel/ vibratory roller in stages to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density.				
	By Manual Means				
	Grading-II				
	Using Screening Crushable type such as Moorum or Gravel	458.43	cum		
SH: BASE (BITUMINOUS)					
7	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 of 0.70 kg/sqm using mechanical means.	1307.73	sqm		
8	Surface Dressing (Providing and laying surface dressing as wearing course in single coat using crushed stone aggregates of specified size on a layer of bituminous binder laid on prepared surface and rolling with 8-10 tonne smooth wheeled steel roller)				
	(i) 19 mm nominal chipping size	1307.73	sqm		
9	Seal Coat (Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type A and B seal coats)				
	(i) Case - I : Type A	1307.73	sqm		