

NATURAL RESOURCES DEVELOPMENT CORPORATION LIMITED
RODHUNGLA FOREST ROAD ESTIMATES

Location: Rodhungla, Jakar Region

Length of road: 3000.00M

SI no	Description	Remarks
1.00	EARTH WORKS:	
1.10	Right-of-way-clearing:	
	a) Clearing jungle including up-rooting of vegetation and felling of trees of girth greater than 300mm & disposal within 50m of the site.	
	L(m) B(m)	
	3000.00 10.00	CG0002
1.20	Formation Cutting	
	Excavation of road formation/trace/box cutting, with excavator including separate deposition of soil, rock sand stones within 50m for reuse over the distance of 2000m exact, irrespective of the station marking in the field. Disposed earth/rock to be leveled and neatly dressed. In general the formation width required is 5m. However, the formation width at Zigs, Sharp ridges & valleys will be more than 5m. The width of cutting should be as per the instruction of the site supervisor.	
	a) Excavation of Soil (89.98%)	RW0013
	b) Excavation of rock with or without blasting (10.08%)	RW0014
2.00	MASONRY WORKS:	
2.10	Trenches Excavation	
	Excavation in foundation trenches for Hume pipe culvert i.e. catch-pit and Aprons, width <2.0m, area<10 sq.m in plain, depth >300mm including dressing & ramming, disposal of surplus soil/rock within 50m lead & 1.5m lift.	
	a) Excavation of Soil (100.00%)	EW0106
	b) Excavation of rock (0.00%)	EW0107
2.20	RCC Pipes	
	Providing & laying NP2 class R.C.C pipes, including collars, jointing in cement mortar 1:2 including testing of joints etc. complete.	
	600mm dia	
	L(m) Nos	
	6.25 12.00	DR0093

	450mm dia					
	L(m)	Nos				
	6.25	1.00				DR0093
2.30	Construction of Catch-pit, Apron & DRM wall:					
	Providing and laying Dry Rubble Masonry with hard stone hammer dressed in Catch-pit, DRM wall & Apron complete.					SM0051
2.40	Filling of Trenches:					
	a) Filling of trenches, sides of foundations etc.in layers<1.5m using selected excavated earth/boulder, ramming etc. within lead 50 m & lift 1.5m.					EW0195
	b) Providing & laying hand packed stone filling with stones.					SM0072
2.50	Gabion Wall:					
	Construction of gabion wall as per drawings with dry stone masonry(hammer dressed facing)including excavation of foundationin all types of soils, sides and back filling, delivery of machine woven gabion mesh (Hexagonal mesh of size 100mm x 120mm with a minimum of doubly twisted) with GI wire 2.70mm dia, including diaphragm, fixing of selvedged wire 3.4 mm dia, binding/lacing wire height up to 2.00 m					EW0195
3.00	ROAD WORKS:					
3.10	Edging:					
	Providing and laying Hammer dressed stone edging 150x250 mm with stones including excavation, refilling and disposal of surplus earth within 30 m lead.					
	L(m)	Nos				
	3000.00	2.00				RW0120
3.20	Soling:					
	Providing and laying stone soling (road and passing places), including packing with smaller stones.					
	a) Road					
	L(m)	B(m)	H(m)	Nos	Vol (m ³)	
	3000.00	3.20	0.15	1.00	1440.00	
	b) Passing Place					
	L(m)	B(m)	H(m)	Nos	Vol (m ³)	
	12.00	2.50	0.15	14.00	63.00	
	Total Volume				1503.00	SM0072
3.30	Shoulder Filling					

	Providing and laying earth or borrow materials in layers including dressing and leveling in embankments for road shoulder within 50m lead.				
	L(m)	B(m)	H(m)	Sides/F	Vol (m³)
	3000.00	0.50	0.30	0.50	225.00
					EW0096
3.40	Side Drain				
	Construction of 600mm width x 500mm depth V-Shaped side drain including excavation, levelling and disposing of excavated surplus earth/rock within 50m lead and making side ditches in marshy areas.				RW0107
3.50	Surface Binding				
	Binding of road & passing places surface by spreading and leveling the local good quality soil excavated within 50m lead and compacting with road roller of 8 - 10 ton				
	a) Road				
	L(m)	B(m)	Nos	Area (m²)	
	3000.00	3.20	1.00	9600.00	
	b) Passing Place				
	L(m)	B(m)	Nos	Area (m²)	
	12.00	2.50	14.00	420.00	
	Total Area			10020.00	RW0123
3.60	Geotextile for Road				
	Providing and laying non-woven geo-textile filter fabric placed throughout the road and covering with soil. The Geotextile should be as per the standard provided in SBRW 2023				
	L(m)	B(m)	Nos	Area (m²)	
	3000.00	3.00	1.00	9000.00	

Prepared by



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