

**NATURAL RESOURCES DEVELOPMENT CORPORATION LIMITED**  
**KHARSHONG FOREST ROAD ESTIMATES**

**Location:Kharshong, Jakar Region**  
**Length of road: 2000.00M**

SI no	Description	Qty	Unit	Rate	Amount	Remarks
1.00	<b>EARTH WORKS:</b>					
1.10	<b>Right-of-way-clearing:</b>					
	a) Clearing jungle including up-rooting of vegetation and felling of trees of girth greater than 300mm & disposal within 50m of the site.					
	<b>L(m)</b> <b>B(m)</b>					
	2000.00   10.00	20000	m <sup>2</sup>			CG0002
1.20	<b>Formation Cutting</b>					
	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 (96.76%)	19638.85	m <sup>3</sup>			RW0013
	b) Excavation of rock with or without blasting (3.24%)	699.4	m <sup>3</sup>			RW0014
		<b>SUB TOTAL I</b>			-	
2.00	<b>MASONRY WORKS:</b>					
2.10	<b>Trenches Excavation</b>					
	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%)	84.31	m <sup>3</sup>			EW0106
	b) Excavation of rock (0.00%)	0.00	m <sup>3</sup>			EW0107
2.20	<b>RCC Pipes</b>					
	Providing & laying NP2 class R.C.C pipes, including collars, jointing in cement mortar 1:2 including testing of joints etc. complete. 600mm dia					
	<b>L(m)</b> <b>Nos</b>					
	6.25   6.00	37.50	m			DR0093
2.30	<b>Construction of Catch-pit, Apron &amp; DRM wall:</b>					
	Providing and laying Dry Rubble Masonry with hard stone hammer dressed in Catch-pit, DRM wall & Apron complete.	39.01	m <sup>3</sup>			SM0051
2.40	<b>Filling of Trenches:</b>					
	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.	11.08	m <sup>3</sup>			EW0195
	b) Providing & laying hand packed stone filling with stones.	8.19	m <sup>3</sup>			SM0072
		<b>SUB TOTAL II</b>			-	
3.00	<b>ROAD WORKS:</b>					

3.10	<b>Edging:</b>							
	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						
	2000.00	2.00			4000.00	m		RW0120
3.20	<b>Soling:</b>							
	Providing and laying hand-packed stone soling (road and passing places), including packing with smaller stones.							
	<b>a) Road</b>							
	L(m)	B(m)	H(m)	Nos	Vol (m <sup>3</sup> )			
	2000.00	3.20	0.15	1.00	960.00			
	<b>b) Passing Place</b>							
	L(m)	B(m)	H(m)	Nos	Vol (m <sup>3</sup> )			
	12.00	2.50	0.15	9.00	40.50			
	<b>Total Volume</b>				1000.50	1000.50	m <sup>3</sup>	SM0072
3.30	<b>Shoulder Filling</b>							
	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 (m <sup>3</sup> )			
	2000.00	0.50	0.30	0.50	150.00	150.00	m <sup>3</sup>	EW0096
3.40	<b>Side Drain</b>							
	Construction of 600mm width x 500mm depth V-Shaped side drain including excavation, levelling and disposing of excavated surplus earth/rock within 50m lead.							
					2000.00	m		RW0107
3.50	<b>Surface Binding</b>							
	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							
	<b>a) Road</b>							
	L(m)	B(m)	Nos	Area (m <sup>2</sup> )				
	2000.00	3.20	1.00	6400.00				
	<b>b) Passing Place</b>							
	L(m)	B(m)	Nos	Area (m <sup>2</sup> )				
	12.00	2.50	9.00	270.00				
	<b>Total Area</b>				6670.00	6670.00	m <sup>2</sup>	RW0123
					<b>SUB TOTAL III</b>		0.00	
3.60	<b>Geotextile for Road</b>							
	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 (m <sup>2</sup> )				
	2000.00	3.00	1.00	6000.00	6000.00	m <sup>2</sup>		
					<b>SUB TOTAL IV</b>		0.00	
					<b>GRAND TOTAL:</b>		0.00	
					<b>ROUND OFF:</b>		-	

**IN WORDS**

Prepared by

Date  
06-Mar-24