

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

**Location: Khotokha, Khotokha FMU, Jakar Region**  
**Length of road: 1300.00M**

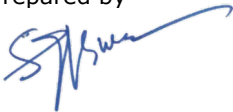
SI no	Description	Qty	Unit	Rate	Amount	Remarks
1.00	<b>EARTH WORKS:</b>					
1.10	<b>Right-of-way-clearing:</b>					
	a) Clearing jungle including up-rooting of vegetation and felling of trees of girth greater than 300mm & disposal within 50m of the site.					
	<b>L(m)</b> <b>B(m)</b>					
	1300.00   10.00	13000	m <sup>2</sup>	12.62	164,060.00	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 (97.42%)	8,221.10	m <sup>3</sup>	116.12	954634.13	RW0013
	b) Excavation of rock with or without blasting (2.58%)	218.00	m <sup>3</sup>	395.70	86262.60	RW0014
	<b>SUB TOTAL I</b>				<b>1,204,956.73</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.					
	<b>L(m)</b> <b>Nos</b>					
	1300.00   2.00	2600.00	m	118.04	306904.00	RW0120
3.20	<b>Soling:</b>					
	Providing and laying stone soling (road and passing places), including packing with smaller stones.					
	<b>a) Road</b>					
	<b>L(m)</b> <b>B(m)</b> <b>H(m)</b> <b>Nos</b> <b>Vol (m<sup>3</sup>)</b>					
	1300.00   3.20   0.15   1.00   624.00					
	<b>b) Passing Place</b>					
	<b>L(m)</b> <b>B(m)</b> <b>H(m)</b> <b>Nos</b> <b>Vol (m<sup>3</sup>)</b>					
	12.00   2.50   0.15   7.00   31.50					
	<b>Total Volume</b>	655.50	m <sup>3</sup>	1631.46	1,069,422.03	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.					
	<b>L(m)</b> <b>B(m)</b> <b>H(m)</b> <b>Sides/F</b> <b>Vol (m<sup>3</sup>)</b>					
	1300.00   0.50   0.30   0.50   97.50	97.50	m <sup>3</sup>	168.78	16456.05	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 and making trenches in marshy areas.	1300.00	m	25.48	33124.00	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>													
	<table border="1"><thead><tr><th>L(m)</th><th>B(m)</th><th>Nos</th><th>Area (m<sup>2</sup>)</th></tr></thead><tbody><tr><td>1300.00</td><td>3.20</td><td>1.00</td><td>4160.00</td></tr></tbody></table>	L(m)	B(m)	Nos	Area (m <sup>2</sup> )	1300.00	3.20	1.00	4160.00					
L(m)	B(m)	Nos	Area (m <sup>2</sup> )											
1300.00	3.20	1.00	4160.00											
	<b>b) Passing Place</b>													
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L(m)	B(m)	Nos	Area (m <sup>2</sup> )											
12.00	2.50	7.00	210.00											
		4370.00	m <sup>2</sup>	10.47	45753.90	RW0123								
		<b>SUB TOTAL III</b>			<b>1471659.98</b>									
3.50	<b>Geotextile for Road</b>													
	Providing and laying non-woven geo-textile filter fabric placed throughout the road and covering with soil for atleast 50mm. The Geotextile should be as per the standard provided in SBRW 2023													
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L(m)	B(m)	Nos	Area (m <sup>2</sup> )											
1300.00	3.00	1.00	3900.00											
		3900.00	m <sup>2</sup>	55	214500.00									
		<b>SUB TOTAL IV</b>			<b>214500.00</b>									

**GRAND TOTAL:** 2,891,116.71  
**ROUND OFF:** 2,891,100.00

**TWO MILLION EIGHT HUNDRED NINETY-ONE THOUSAND ONE HUNDRED**

Prepared by



**Bishal Subba**  
**Civil Engineer**  
**FRD, HO, NRDCL**

Date  
05-Feb-24

**NATURAL RESOURCES DEVELOPMENT CORPORATION LIMITED**  
**STRINGER BRIDGE MAJOR MAINTENANCE ESTIMATES**

Location:Khotokha,Sha Region

SI no	Description	Qty	Unit	Rate	Amount	Remarks
2.00	<b>Sill Logs</b>					
	Buying Spruce sill logs (conifer class 'B')					
	L(ft)	Dia (ft)	Pi	Nos	Volume	
	24	1.911	3.14	6	412.739	412.74 c.ft 158.3 65,336.56 NRDCL existing rate
4.00	<b>Loading, unloading &amp; Transportation</b>					
	Loading, unloading & Transportation of sill logs to work site by hiring truck					
	Loading, unloading & Transportation of sawn timber to work site by hiring truck					
5.00	<b>Dismantling of the old bridge</b>					
	dismantling of the old stringer bridge using back hoe/excavator (marching = 2 hours, dismantling = 1 hour)					
6.00	<b>Log placing</b>					
	Hiring of 5 Labourers					
	Hiring of Penz loader/back hoe					
	Hiring of Excavator/back hoe					
6.00	<b>Sawn Timber</b>					
	Supply and installation of sawn timber					
	<b>Deck</b>					
	L(ft)	W(ft)	H(ft)	Nos	Volume	
	16	0.82	0.82	16	172.134	172.13 c.ft 330 56,804.35 NRDCL sawn timber rate
	Supply and installation of sawn timber					
	<b>Track</b>					
	L(ft)	W(ft)	H(ft)	Nos	Volume	
	24	16	0.5	1	192.000	192.00 c.ft 330 63,360.00 NRDCL sawn timber rate
7.00	<b>Fixing of deck and wheel track</b>					
	Fixing decking and wheel track with nails or spike or iron clamp by hiring a Gd.1 carpenter					
7.00	<b>Nails and spike</b>					
	supply of wire nails or spike for fastening the decking to the stringers.					
					<b>Grand Total</b>	<b>269,129.98</b>
					<b>Round Off</b>	<b>269,100.00</b>
	Adding 10% cost index and unprecedented costs				<b>Total</b>	<b>296,010.00</b>

**THREE HUNDREDTHIRTEEN THOUSAND ONE HUNDRED SEVENTY**

Prepared by



**Bishal Subba**  
**Civil Engineer**  
**FRD, HO, NRDC**

Date  
21-Mar-24

