NATURAL RESOURCES DEVELOPMENT CORPORATION LIMITED GOGONA FOREST ROAD ESTIMATES

Location:Gogona, Gogona FMU, Jakar Region Length of road: 1000.00M

SI no	Description	Qty	Unit	Rate	Amount	Remarks
1.00	EARTH WORKS:	4-7		-1440		
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)					
	1000.00 10.00	10000	m ²	12.62	126,200.00	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 (83.31%)	3,939.23	m ³	116.12	457423.39	RW0013
	b) Excavation of rock with or without blasting (16.69%)	788.94	m ³	395.70	212102 56	RW0014
			CIII	B TOTAL I	312183.56 895,806.95	
2.00	MASONRY WORKS:		301	JUIALI	093,000.93	
2.00	PIASONKI 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%)	22.20	2	224 50	7450.00	EM0406
	, ,	32.28	m ³	221.50	7150.02	EW0106
	b) Excavation of rock (0.00%)	0.00	m ³	690.14	0.00	EW0107
2.20	RCC Pipes	1				
2.20	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	10.50		2225 25	20020 25	DD0000
	6.25 2.00	12.50	m	2386.26	29828.25	DR0093
2.30	Construction of Catch-pit, Appron & DRM wall:					
2.50	Providing and laying Dry Rubble Masonry with hard stone					
	hammer dressed in Catch-pit, DRM wall & Appron					
	complete.	14.15	m^3	2791.93	39505.81	SM0051
2.40	Filling of Trenches:					
	a) Filling of trenches, sides of foundations etc.in					
	layers<1.5m using selected excavated earth/boulder,	3.71	m^3	111 22	413.00	EWO10E
	ramming etc. within lead 50 m & lift 1.5m.	J./1	111	111.32	413.00	EW0195
		2 22	m^3	1631.46	3638.16	SM0072
	b) Providing & laying hand packed stone filling with stones	Z.Z.)				
	b) Providing & laying hand packed stone filling with stones.	2.23	111	1001110	10000100	
	b) Providing & laying hand packed stone filling with stones.	2.23		TOTAL II	1	

3.00	ROAD W	ORKS:								
3.10	Edging:									
			dressed stone e							
			ıding excavatioı							
	and dispo	rplus earth v	vithin 30 m lead	d.						
	L(m)	Nos								
	1000.00	2.00				2000.00	m	118.04	236080.00	RW0120
3.20			Solii							
				ng (road and p						
	places), i	ncluding	packing with	smaller stones	S.					
			a) Ro	oad						
	L(m)	B(m)	H(m)	Nos	Vol (m ³)					
	1000.00	3.20	0.20	1.00	640.00					
			b) Passin	g Place						
	L(m)	B(m)	H(m)	Nos	Vol (m³)					
	12.00	2.50	0.20	5.00	30.00					
				Total Volume	670.00	670.00	m^3	1631.46	1,093,078.20	SM0072
3.30			Shoulder							
				orrow material						
				ı in embankmer	nts for road					
	shoulder									
	L(m)	B(m)	H(m)	Sides/F	Vol (m³)					
	1000.00	0.50	0.30	0.50	75.00	75.00	m^3	168.78	12658.50	EW0096
3.40			Side D	<u> Prain</u>						
				n depth side dra						
	excavation, levelling and disposing of excavated surplus earth/rock within 50m lead and making trenches in									
	marshy a		onii leau aii	u making trenc	iles III					
	iliaisily a	reas.				1000.00	m	98.01	98010.00	RW0107
3.50		Surface I	Dindina							
3.30	Binding o		es surface by s	nreading and						
			soil excavated							
			roller of 8 - 10							
		3								
			a) Ro	oad						
	L(m)	B(m)	Nos	Area (m²)						
	1000.00	3.20	1.00	3200.00						
			b) Passin	g Place						
	L(m)	B(m)	Nos	Area (m²)	1					
	12.00	2.50	5.00	150.00						
			Total Ar	ea 3350.00		3350.00	m^2	10.47	35074.50	RW0123
							SUB	TOTAL II	1474901.20	
a = -										
3.50	Dura di II	Geotextile		lhan felini	ļ					
	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								
	L(m)	B(m)	Nos		1					
				Area (m²)	1	3000 00	2	55	165000 00	
	1000.00	3.00	1.00	3000.00		3000.00	m ²		165000.00 / 165000.00	
							501	D IUIAL IV	103000.00	<u>.</u>
							GRAN	ND TOTAL:	2,616,243.38	1
							ID TOTAL. JND OFF:	2,616,200.00	J	
1								0.11	_,010,100.00	
			TWO MIL	LIOIN SIX HU	NDRED SIXT	EEN THOU	JSAND T	WO HUND	RED	

Prepared by

Bishal Subba Civil Engineer FRD, HO, NRDCL Date 05-Feb-24

NATURAL RESOURCES DEVELOPMENT CORPORATION LIMITED STRINGER BRIDGE MAJOR MAINTENANCE WITH WEIGHT BRIDGE

Location: Gogona, Sha Region

SI no	Descript	ion				Qty	Unit	Rate	Amount	Remarks
	_									
1.00	Loading, Transportation and unloading									
	Loading, transporation and unloading of the weight									
	bridge from Sha Regional Office to Gogona bridge site									
	Hiring of excavator for loading					1	hour	3181.68	3,181.68	CDCL hiring rate
	Hiring of					20.00	hours	1421	28,420.00	NRDCL existing rate
	Hiring of	excavato	r for un	loading		1.00	hour	3181.68	3,181.68	CDCL hiring rate
00			D.:							
.00	Droviding	9. applyi		e coating	rs Motal work	25 10	sa m	40.22	1 012 22	PT0011
	synthetic		_	•	rs Metal work -	25.19	sq.m	40.22	1,013.22	P10011
00		Diama	ntlina	of the old by	idaa					
.00	Dicmantli			of the old bri						
	Dismantling of stringer logs and old bridge using excavator and stacking at site									
	Hiring of	excavato	r for dis	smantling and	stacking	2.00	hour	3181.68	6,363.36	CDCL hiring rate
.00				M Wall						
				trenches or d						
	exceeding 1.5m in width or area 10sq.m on plan,									
	including dressing & ramming, disposal of surplus soil									
	within 50m lead $\&$ 1.5m lift in all types of rocks with or without blasting.									
	L(m)	W(m)	H(m)		Volume					
	5	2.18	0.5	1	5.450	5.45	cu.m	690.14	3,761.26	EW0107
	Providing and laying Hand packed stone filling or soling with stones									
	L(m)	W(m)	H(m)		Volume					
	5	2.18	0.15		1.635	1.64	cu.m	1631.46	2,667.44	SM0072
	Providing and laying in position plain cement concrete									
	excluding the cost of centering and shuttering - All work upto plinth level in ration 1:3:6 (1 cement : 3									
	sand: 6 graded crushed rock 20 mm nominal size)									
	,									
	L(m)	W(m)	H(m)	Nos	Volume					
	5	2.18	0.1	1	1.090	1.09	cu.m	4729.43	5,155.08	CW0005
	Providing & laying Random Rubble Masonry with hard									
	stone in foundation & plinth In cement mortar 1:5									
	L(m)	W(m)	H(m)	Nos	Volume					
	5	2.18	2.5	1	27.250	27.25	cu.m	4377.49	119,286.60	SM0006
.00	Bridge placing Hiring of exercises for placing the weight bridge ever						h a · · · · =	2101.00	12 726 72	CDCL himing a make
	Hiring of excavator for placing the weight bridge over the rrm abutments including the cost of labouers					4	nours	3181.68	12,726.72	CDCL hiring rate
							Grand	Total	185,757.04	
							Round		185,757.04	
							Nounc		100,000.00	
	1	<u> </u>		ONE HUNDRI	ED EIGHTY-FIV	E THOI	JSAND	EIGHT HI	JNDRED	1

Prepared by

Date 18/03/2024

Bishal Subba Civil Engineer FRD, HO, NRDCL