



Darma Rural Municipality
Office of The Rural Municipal Executive
Karnali Province



Design, Estimate & Costing Report

Tinpokhare-Andherekhola-Layata Road Improvement Project

Location:Darma RM-5

District:Salyan

F/Y: 2079/080



Darma Rural Municipality
Office of the municipal executive
Farulachaur Salyan
Summary of cost

दार्मा गाउँपालिका
कार्यपालिकाको कार्यालय
सल्यान
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Project Name: Tinpokhare-Andherekhola-Layata Road Improvement Project

Location: Darma -5

S.No.	Sub-project Component	Quantity	Unit	Sub Total(NRs.)	Total Cost (NRs)	Remarks
A	Civil works					
I	Road works/ Earthworks	1	No	408,343.87	1,650,259.13	
II	Retainig Structure Gabion	1	No	1,241,915.25		
B	General Items					
I	Provisional Sum	1	NO	30,000.00	250,183.69	
II	Project Information Board	1	No	5,000.00		
III	13% Vat	1	No	215,183.69		
	Grand Total (A+B+C)				1,900,442.81	
C	Co-Financing Budget					
I	LISP Pilot		1000000			
II	Municipality		900000	1,900,000.00		
In words:	Nineteen Lakhs Rupees Only					

Prepared By:

Checked By:

Approved By:

Assistant Sub-Engineer

Sub Engineer

Er. Arju Chand
NEC.No. 30648 Civil 'A'

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प्रमुख प्रशासकीय अधिकृत



Darma Rural Municipality
Office of the municipal executive
Farulachaur Salyan
Abstract of Cost



Project Name: Tinpokhare-Andherekhola-Layata Road Improvement Project
Location: Darma -5

Item no.	Description Of Works	Unit	Quantity	Item Rate (NRs)	Total Amount (NRs)	Remarks
1	Earthworks					
1.1	Earthwork in Roadway: Excavation for roadway (grade adjustment ,back cutting and new cutting) in All type of soil by provide combination of manual and machine ,including disposal upto 30 m and lift upto 1.5m etc. all works complete aas per specification Mechanical Means					
a.	All Types of Soil	cum	3261.64	74.61	243,358.21	
b.	Ordianory ROck	cum	737.08	223.84	164,985.66	
			Sub Total		408,343.87	
2	Retaining Structure /Gabion Wall					
2.1	Earthwork: Excavation for foundation of structure in all types of soil, provide combination of mannual and machine. including disposal lead upto 10m and lift upto 1.5m etc. all complete as per specification. By Mechinical Means	cum	390.00	74.61	29,098.73	-
2.2	Supply,transportation and fabrication of machine made gabion boxes /matresses (including cutting and weaving,hexagonal mesh type (100mm*120mm) mesh wire-10swg,selvage wire 8swg including assembling,placing,and stretching all complete					
	Gabion Boxes 1.5*1*1	BOX	75.00	2,862.55	214,691.25	
	Gabion Boxes 2*1*1	BOX	97.00	3,934.50	381,646.50	
2.3	Stone filling in Gabion boxes with stone/ boulders including dressing, bounding, bracing, tying and binding with wire as per specification all complete.	cum	306.50	2,011.35	616,478.78	
			Sub Total		1,241,915.25	
3	Provisional Sum					
3.1	Insurance of works, equipments, Contractors workmen and employees and Third Party Insurance against damage to other persons and property	PS	1.00	30,000.00	30,000.00	
			Sub Total		30,000.00	
4	General Works					
4.1	Supplying and erecting 1.2m*0.75m size project sign board in place including 50mm dia steel tube ,2mm thick steel plate ,cement concrete ,painting ,writing and supporting steel angle nut and bolt etc. all complete works	no	1	5,000.00	5,000.00	
			Sub Total		5,000.00	
			Total =		1,655,259.1	
			Vat 13%		215,183.7	
			Provisional Sum		30,000.0	
			Grand Total		1,900,442.8	

Prepared By:

Checked By:

Approved By:

Assistant Sub-Engineer

Sub Engineer

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Darma Rural Municipality
Office of the Municipal Executive
Farulachaur, Salyan



Bill of Quantity

Project Name: Tinpokhare-Andherekhola-Layata Road Improvement Project

Location: Darma -5

S.N.	Descriptions of Works	Unit	QTY	Unit Rate		Amount	Remarks
				In Figure	In words		
1	Insurance of works ,equipments ,contractor ,workmen and empolyers and thied party Insurance against damage to other persons and property	PS	1	30000.00		30000.00	
2	Earthwork in Roadway : Excavation for roadway (grade adjustment,back cutting,new cutting) inn All type of soil by provide combination of manual and machine including disposal upto 30 m and lift upto 1.5m etc. all works complete as per specification	cum	3261.64	74.61		243358.21	
3	Earthwork in Roadway : Excavation for roadway (grade adjustment,back cutting,new cutting) in Ordianory Rock by provide combination of manual and machine including disposal upto 30 m and lift upto 1.5m etc. all works complete as per specification	cum	737.08	223.84		164985.66	
4	Earthwork : Excavation for foundation of structure in All type of soil by provide combination of manual and machine,sheeting removal of stumps ,other deleterious matter including disposal upto 10 m and lift upto 1.5m etc. all works complete as per specification	cum	390.00	74.61		29098.73	
5	Supply,transportation of machine made gabion boxes /matresses (including cutting and weaving,hexagonal mesh type (100mm*120mm) mesh wire-10swg,selvaige wire 8swg including assembling,placing,and stretching all complete						
	Gabion Boxes 1.5*1*1	BOX	75.00	2862.65		214691.25	
	Gabion Boxes 2*1*1	BOX	97.00	3934.50		381646.50	
6	Stone filling in gabion boxes with stone /boulders including dressing ,bounding ,bracing ,tying, and binding with wire as per specification all complete	cum	306.50	2011.35		616478.78	
7	Supplying and erecting 1.2m*0.75m size project sign board in place including 50mm dia steel tube ,2mm thick steel plate ,cement concrete ,painting ,writing and supporting steel angle nut and bolt etc. all complete works	job	1.00	5000.00		5000.00	
					Total	1655259.13	
					VAT @13 %	215183.69	
					Provisional Sum	30000.00	
					Grand Total	1900442.81	

Prepared By:

Checked By:

Approved By:

[Signature]

[Signature]

[Signature]

Asst Sub-Eng

Sub Engineer

Er. Arju Chand
NEC.No. 30648 Civil 'A'

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Darma Rural Municipality
Office of the municipal executive
Farulachaur Salyan
Karnali Province



Project Name: Tinpokhare-Andherekhola-Layata Road Improvement Project

From: 0+000.00 To 0+288.25

Location: Darma -5

		Unit
	Earthwork in Excavation including Setting Out, Removal of Tree roots and stumps , clearance of site along the alignment, Disposal/Stock piling of extra excavated material	cum

EARTHWORK CALCULATION SHEET FOR ROADWAY

Chainage	Length (m)	X- Area(m ²)		Volume (m ³)		Soil Classification						
		Cutting Area (Road Way)	Filling Area	Cutting Vol	Filling Vol	All types Soil		Ordinary Rock		Hard Rock		
						%	(m ³)	%	(m ³)	%	(m ³)	
0+000.00	5.00	54.93	0.00	274.63	0.00	80%	219.70	20%	54.93	0%	0.00	
0+010.00	10.00	67.88	0.00	678.75	0.00	80%	543.00	20%	135.75	0%	0.00	
0+020.00	10.00	96.66	0.00	966.56	0.00	80%	773.25	20%	193.31	0%	0.00	
0+030.00	10.00	106.53	0.00	1065.34	0.00	80%	852.27	20%	213.07	0%	0.00	
0+040.00	10.00	58.85	0.00	588.49	0.00	80%	470.79	20%	117.70	0%	0.00	
0+050.00	10.00	32.40	0.00	323.96	0.00	80%	259.17	20%	64.79	0%	0.00	
0+060.00	10.00	26.31	0.00	263.06	0.00	70%	184.14	30%	78.92	0%	0.00	
0+070.00	10.00	57.96	0.00	579.55	0.00	70%	405.69	30%	173.87	0%	0.00	
0+080.00	10.00	75.27	0.00	752.72	0.00	70%	526.90	30%	225.82	0%	0.00	
0+090.00	10.00	64.12	0.00	641.17	0.00	70%	448.82	30%	192.35	0%	0.00	
0+100.00	10.00	7.11	0.00	71.05	0.00	70%	49.74	30%	21.32	0%	0.00	
0+110.00	10.00	0.19	0.00	1.91	0.00	70%	1.34	30%	0.57	0%	0.00	
0+120.00	10.00	0.34	0.00	3.41	0.00	70%	2.39	30%	1.02	0%	0.00	
0+130.00	10.00	0.25	0.00	2.52	0.00	100%	2.52	30%	0.76	0%	0.00	
0+140.00	10.00	3.16	0.00	31.61	0.00	100%	31.61	0%	0.00	0%	0.00	
0+150.00	10.00	42.49	0.00	424.92	0.00	100%	424.92	0%	0.00	0%	0.00	
0+160.00	10.00	38.04	0.00	380.36	0.00	100%	380.36	0%	0.00	0%	0.00	
0+170.00	10.00	22.97	0.00	229.74	0.00	100%	229.74	0%	0.00	0%	0.00	
0+180.00	10.00	18.12	0.00	181.24	0.00	100%	181.24	0%	0.00	0%	0.00	
0+190.00	10.00	18.98	0.00	189.79	0.00	100%	189.79	0%	0.00	0%	0.00	
0+200.00	10.00	17.56	0.00	175.62	0.00	100%	175.62	0%	0.00	0%	0.00	
0+210.00	10.00	8.31	0.00	83.11	0.00	100%	83.11	0%	0.00	0%	0.00	
0+220.00	10.00	13.53	0.00	135.27	0.00	100%	135.27	0%	0.00	0%	0.00	
0+230.00	10.00	10.47	0.00	104.72	0.00	100%	104.72	0%	0.00	0%	0.00	
0+240.00	10.00	0.14	0.00	1.44	0.00	100%	1.44	0%	0.00	0%	0.00	
0+250.00	10.00	0.24	0.00	2.39	0.00	100%	2.39	0%	0.00	0%	0.00	
0+260.00	10.00	0.08	0.00	0.81	0.00	100%	0.81	0%	0.00	0%	0.00	
0+270.00	10.00	0.10	0.00	0.97	0.00	100%	0.97	0%	0.00	0%	0.00	
0+280.00	8.25	0.12	0.00	0.95	0.00	100%	0.95	0%	0.00	0%	0.00	
0+288.25	3.25	0.32	0.00	1.05	0.00	100%	1.05	0%	0.00	0%	0.00	
TOTAL	286.50			8157.10	0.00		3261.64		737.08		0.00	/

Assistant Sub-Engineer

Sub Engineer

Er. Arju Chand
NEC.No. 30648 Civil 'A'

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Darma Rural Municipality
Office of the municipal executive
Farulachaur Salyan
Karnali Province

Project Name: Tinpokhare-Andherekhola-Layata Road Improvement Project
From CH 0+000 To CH 0+240
Location: Darma -5



Estimate of Gabion Retaining Structure

		Stone filling in Gabion boxes with stone/ boulders including dressing, bounding, bracing, tying and binding with wire as per specification all complete.											Unit		
													cum		
Chainage	Length	Height	No of Gabion Boxes					Quantity (Cum)	Foundation		Backfilling			Remarks	
			1x1x1	1.5x1x1	2x1x1	2.5x1x1	3x1x1		Base	Height	Quantity	Bredt h (m)	Height (m)		Quantit y (m3)
0+110								-			-			0.00	
1st layer	10.00	4.00		10.00	10.00			35.00	2.50	4.00	100.00	0.00	3.00	0.00	
2nd layer	10.00				10.00			20.00			-	0.25	3.00	7.50	
3rd layer	10.00			10.00				15.00			-	0.25	3.00	7.50	
4th layer	10.00				5.00			10.00			-				
0+120								-			-			0.00	
1st layer	10.00	4.00		10.00	10.00			35.00	2.50	4.00	100.00	0.00	3.00	0.00	
2nd layer	10.00				10.00			20.00			-	0.25	3.00	7.50	
3rd layer	10.00			10.00				15.00			-	0.25	3.00	7.50	
4th layer	10.00				5.00			10.00			-				
0+130								-			-			0.00	
1st layer	10.00	4.00		10.00	10.00			35.00	2.50	4.00	100.00	0.00	3.00	0.00	
2nd layer	10.00				10.00			20.00			-	0.25	3.00	7.50	
3rd layer	10.00			10.00				15.00			-	0.25	3.00	7.50	
4th layer	10.00				5.00			10.00			-				
0+140								-			-			0.00	
1st layer	10.00	3.00			10.00			20.00	2.00	3.00	60.00	0.00	3.00	0.00	
2nd layer	10.00			10.00				15.00			-	0.25	3.00	7.50	
3rd layer	10.00				5.00			10.00			-	0.25	3.00	7.50	
0+240								-			-			0.00	
1st layer	5.00	3.00			5.00			10.00	2.00	3.00	30.00	0.00	3.00	0.00	
2nd layer	5.00			5.00				7.50			-	0.25	3.00	3.75	
3rd layer	5.00				2.00			4.00			-	0.25	3.00	3.75	
Total			0.00	75.00	97.00	0.00	0.00	306.50			390.00			67.50	/

Assistant Sub-Engineer

Sub Engineer
Er. Arju Chand
NEC.No. 30648 Civil 'A'

प्रमुख प्रशासकीय अधिकृत



Darma Rural Municipality
Office Of The Rural Municipal Executive
Karnali Province



SUMMARY of RATE ANALYSIS for Road Works 2079/080

S.N.	Items	Unit	Contractor's Rate	User's Rate	Remarks
1	Site clearance	m ²	5.14	4.47	
2	E/W exca. in Roadway & Drain : All types of	m ³	74.61	64.88	
3	E/W exca. in Roadway & Drain : Ordinary S	m ³	411.13	357.50	
4	E/W exca. in Roadway & Drain : Ordinary R	m ³	223.84	194.64	
5	Back filling By manual	m ³	205.56	178.75	
6	Gabion Work (2x1x1) box size with Hexagonal supply, weving and placing in position	box	3934.50	3421.30	
7	Gabion Work (1.5x1x1) box size with Hexagonal supply, weving and placing in position	box	2862.55	2489.17	
8	Rubble packing in Gabion box	m ³	2011.35	1749.00	
9	Bio Engineering Works	m ²	592.84	515.52	


Assistant Sub-Engineer


Sub Engineer


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Darma Rural Municipality
Office of the rural Municipal Executive
Pharulachaur, Salyan
Karnali Province



District Labour and Material Rate, Fuel and Equipment Hire Rate and Rate of Materials at Site

1) Labour			
S.N.	Description	Unit	District Rate
1	Skilled	md	1000
2	Semiskilled	md	715
3	Unskilled (Labour)	md	715
4	Operator	md	900
5	Engineer	md	1200
6	Technician	md	1045

2) Fuel and Lubricant			
		With vat	Without vat
1	Diesel	lit.	172.00
3	Petrol	lit.	180.00

3) Equipment						
S.No.	Description	Unit	District rate	Fuel ltr	Fuel cost	Rate per hour
1	Truck 5.5 cum per 10 ton	hr.	1164.00	9.46	1627.12	2791.12
2	Truck 5.5 cum per 10 ton	hr.	1164.00	9.46	1627.12	2791.12
3	Truck 5.5 cum per 10 ton	hr.	1164.00	9.46	1627.12	2791.12
4	Grader	hr.	2746.00	8.67	1491.24	4237.24
5	Pump 10cm dia	hr.			0.00	0.00
6	Vibrator Roller 8 ton	hr.	1911.00	7.28	1252.16	3163.16
7	Smooth wheeled Roller	hr.	1054.00	5.40	928.80	1982.80
8	Water bowser	hr.	1146.00	4.32	743.04	1889.04
9	Front end loader, wheeled	hr.	2182.00	8.27	1422.44	3604.44
10	Bitumene Boiler oil fired	hr.	593.00	6.96	1197.12	1790.12
	Backhoe (0.2 bucket)	hr.	1000.00	7.99	1374.28	2374.28
11	Sprayer	hr.	300.00	125.00	21500.00	21800.00
12	Air compressor	hr.	977.00	5.73	985.56	1962.56
13	Hand Sprayer	hr.	260.00	125.00	21500.00	21760.00
14	Hydraulic chips spreader	hr.	3259.00	7.06	1214.32	4473.32
15	Pneumatic road Roller	hr.	2546.00	8.19	1408.68	3954.68
16	mixer	hr.	2684.00	16.38	2817.36	5501.36
17	Vibrator	hr.	150.00	125.00	21500.00	21650.00
18	Generator	hr.	671.00	1.30	223.60	894.60
19	Bitumen Pressure Distributor	hr.	3200.00	13.24	2277.28	5477.28
20	Chip Spreader	hr.	130.00	7.06	1214.32	1344.32
21	Tractor	hr.	500.00	4.50	774.00	1274.00
22	20t crane	hr.	3500.00	10.13	1742.36	5242.36
23	Boring equipment with pump and all accessories	hr.	3500.00	125.00	21500.00	25000.00
24	Craae for handling reinforcement cage and tremie pipe	hr.	3500.00	125.00	21500.00	25000.00
25	Gas cutter	hr.	1150.00	125.00	21500.00	22650.00
26	Welding machine	hr.	1150.00	125.00	21500.00	22650.00
27	10t-crane with grab & accessories	hr.	3500.00	125.00	21500.00	25000.00
28	Screw jack	hr.	25.00	125.00	21500.00	21525.00
29	Electrical heating plate	hr.	50.00	125.00	21500.00	21550.00
30	Electrical hand drill	hr.	50.00	125.00	21500.00	21550.00
31	pre mixed mixture	hr.	4635.00	24.25	4171.00	8806.00
32	Asphalt paver finisher	hr.	4023.00	6.94	1193.68	5216.68
33	Steel tyre roller	hr.	440.00	125.00	21500.00	21940.00
34	Tipper trucks	hr.	1454.00	125.00	21500.00	22954.00
35	Prestressing jack	hr.	800.00	125.00	21500.00	22300.00
36	Grouting Pump	hr.	800.00	125.00	21500.00	22300.00
37	Drilling machine	hr.	130.00	125.00	21500.00	21630.00
38	Hydraulic Excavator	hr.	1800.00	9.12	1568.64	3368.64
39	Excavator with breaker	hr.	2100.00	8.96	1541.12	3641.12
40	Dryer	hr.	2000.00	14.40	2476.80	4476.80
41	Road marking machine	hr.	835.00	1.30	223.6	1058.6
42	boiler	hr.	51	6.96	1197.12	1248.12

4) Material									
S.N.	Description	Unit	District Rate (D)	Collection Rate (C)	Royalty (R)	Transportation Rate (Tp)	Total Rate (D+C+R+Tp)	Remark	
1	Sand	m ³	1600.00	1022		703.00	3325.00		
2	Rubble	m ³	1015.00			250.00	1265.00		
3	Cement pcc	mt.	14000.00			80375.00	94375.00	700	80.375
4	Water	lit.				0.15	0.15		
5	Crushed Aggregate						0.00		
5a	10 mm (Small)	m ³	2350.00			0.00	2350.00		700000
5b	20 mm (Intermediate)	m ³	2350.00			0.00	2350.00		
5c	40 mm (Large)	m ³	2350.00			0.00	2350.00		
6	RCC Hume Pipes						0.00		
6a	300 mm diameter	pcs	3850.00				3850.00		
6b	450 mm diameter	rm	5390.00				5390.00		
6c	600 mm diameter	rm	7150.00			3686.00	10836.00		
6d	900 mm diameter	rm	12100.00			6253.64	18353.64		
7	Reinforcement						0.00		
7a	8-16 mm dia	mt.	100480.00			0.00	100480.00		
7b	16-32 mm dia	mt.	100480.00			0.00	100480.00		
8	Binding Wire						0.00		
8a	Binding wire Black	kg	111.45				111.45		
8b	Binding wire White	kg	111.45				111.45		
9	G.I Wire heavy coated						0.00		
9a	7 gauge	kg	116.45			0.00	116.45		
9b	10 gauge	kg	116.45			0.00	116.45		
9c	12 gauge	kg	126.00			1.61	127.61		
10	Geo - Textile	Sqm	110.00				110.00		
11	GI Pipe 50mm medium class	rm	753.50				753.50		
12	MS steel	mt.	0.00				0.00		
13	Enamel	ltr	525.00				525.00		
14	Jute	kg	80.00				80.00		
15	Plywood 9mm thick	sqm	480.00				480.00		
16	Nuts & bolts	kg	199.50				199.50		
17	bestonite	kg	25.00				25.00		
18	Planks 38mm thick	m ²	35320.00				35320.00		300
19	struts, ballies, etc.	m ²	35320.00				35320.00		580
20	Nails, spikes, etc.	kg	110.25				110.25		240
21	Graded filter material	m ³	1165.56				1165.56		191
22	timber	m ³	49448.00				49448.00		95
23	bearing	no	60000.00				60000.00		1406
24	expansion joint	m	17825.00				17825.00		
25									
26	subbase aggregate	m ³	1597.00				1597.00		
27	Grass slips	no	50.00				50.00		
28	Line string	m ²	100.00				100.00		
29	Tendon/wire	t	130000.00			0.00	130000.00		
30	Tendon sheath	m	330.00				330.00		
31	anchorage assembly	no	8200				8200.00		
32	Bitumen	t	79247.79				79247.79		
33	Brick	no	19.99				19.990		
34	Plywood 12mm thick	Sqm	640.00				640.000		
36	Stone dust	cum	1400.00				1400.00		
37	Chips	cum	1975				1975.00		
38	Gabion Box								
	3'x1'	Box	4640				4640.00		
	2'x1'	Box	3190				3190.00		
	1.5'x1'	Box	2320				2320.00		

65.548 4705.55
47.2517 3237.25
40.7852 2360.79

Assistant Sub-Engineer

Sub Engineer

Er. Arju Chand
NEC.No. 30648 Civil 'A'

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Back filling with approved materials obtain from borrow pits excluding excavation.				Unskilled Equipment	m.d.	0.25	715.00	178.75
Item No.	10	per	cu.m.	3 rd of labour				
Norms - Doldar 10 (2.5)				Sub-Total	Contract Rate (1.15)			178.75
Back filling				U. Rate without VAT	per	sq.m.		205.56
				U. Rate without VAT	per			205.56

Gabion Work (3x1x1) box size with Hexagonal supply, weaving and placing in position				skilled	m.d.	0.00	1000.00	0.00
10 SWG heavy coated Machine Made Gabion Box size 3*1*1.0m (16 m2)				unskilled	m.d.	0.13	715.00	92.95
				Gabion box	box	1.00	4640.00	4640.00
				Binding wire	kg	1.30	126.00	163.80
Item No.	24.03.01	per	box	Sub-Total	Contract Rate (1.15)			4896.75
Doldar				U. Rate without VAT	per	box		5631.26
Gabion Box 3x1x1m				U. Rate without VAT	per			5631.26

Gabion Work (2x1x1) box size with Hexagonal supply, weaving and placing in position				skilled	m.d.	0.00	1000.00	0.00
10 SWG heavy coated Machine Made Gabion Box size 2*1*1.0m (11 m2)				unskilled	m.d.	0.09	715.00	64.35
				Gabion box	box	1.00	3217.25	3217.25
				Binding wire	kg	0.95	126.00	119.70
Item No.	24.03.01	per	box	Sub-Total	Contract Rate (1.15)			3421.30
Doldar				U. Rate without VAT	per	box		3934.50
Gabion Box 2x1x1m				U. Rate without VAT	per			3934.50

Gabion Work (1.5x1x1) box size with Hexagonal supply, weaving and placing in position				skilled	m.d.	0.00	1000.00	0.00
10 SWG heavy coated Machine Made Gabion Box size 1.5*1*1 (9 m2)				unskilled	m.d.	0.07	715.00	46.48
				Gabion box	box	1.00	2360.79	2360.79
				Binding wire	kg	0.65	126.00	81.90
Item No.	24.03.01	per	box	Sub-Total	Contract Rate (1.15)			2489.17
Doldar				U. Rate without VAT	per	box		2862.55
Gabion Box 1.5x1x1m				U. Rate without VAT	per			2862.55

Rubble packing in Gabion box				unskilled	m.d.	0.50	715.00	357.50
				Rubble	cu.m.	1.10	1265.00	1391.50
Item No.	22	per	cu.m.	Sub-Total	Contract Rate (1.15)			1749.00
NG 16(11)				U. Rate without VAT	per	cu.m.		2011.35
Rubble packing in Gabion box				U. Rate without VAT	per			2011.35

Assistant Sub-Engineer

Sub Engineer

Prepared by
Er. Anshu Chand
30648 Civil 'A'

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Darma Rural Municipality
Office of the rural Municipal Excutive
Pharulachaur, Salyan
Karnali Province
Rate Analysis for F.Y 2079/080

Earthwork Excavation		For 360.00 cu.m									
Description of works:		Roadway excavation in all types of soil as per drawing and technical specification, including removal of stumps and other deleterious matter, with all lifts and lead as per Drawing and instruction of the Engineer by mechanical means									
Spec. cl. No: 905											
Norms No.	Type	Labour (A)			Material (B)			Equipment (C)			Unit : m3
		Unit	Qty.	Rate	Unit	Qty.	Rate	Unit	Qty.	Rate	
9.1(0)B	Skilled	md	1.00	1000.00							Amount
	Unskilled	md	3.00	715.00							
											20211.84
											Sub total of A =
											Sub total of A + B + C =
											Contractors overhead 15%
											Sub total of C =
											20211.84
											Rate =
											Unit Rate =
											26860.37
											74.61

Earthwork Excavation		For 1.00 cu.m									
Description of works:		Excavation in Roadway, Drain and foundation in Ordinary Soil including removal and satisfactory disposal of the materials upto a lead of 50m. Manual									
Item no 2, Page 21											
Norms No.	Type	Labour (A)			Material (B)			Equipment (C)			Unit : m3
		Unit	Qty.	Rate	Unit	Qty.	Rate	Unit	Qty.	Rate	
Norms -Doldar 5.a	Unskilled	md	0.50	715.00							Amount
											3.00% of labour cost
											Sub total of C =
											0.00
											Rate =
											Unit Rate =
											411.13
											411.13

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Assistant Sub-Engineer

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 Sub Engineer

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 306948 Civil/A
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Description of works:											For U/C		1367.30	
Spec. cl. No. 701 Proving and laying RCC pipes of diameter 600 mm (internal) with or without collars jointed with stiff mixture of cement mortar in the proportion of 1 : 2 (1 cement : 2 fine sand) , lead upto 100m.													Unit : 1 m	
Norms No.			Labour (A)			Material (B)			Equipment (C)					
Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount
Skilled	md	0.080	1000.00	80.00	RCC Pipe	m	1.0	7150.00	7150.00	Ballies, crow, bars, chain , pulleys , block and ropes etc.				
Unskilled	md	0.560	715.00	400.40	Cement	kg	6.400	94.38	604.00				3.00%	247.83
					Sand	m ³	0.008	3325.00	26.60					
					Jute	kg	0.219	0.00	0.00					
				Sub total of A =	480.40					Sub total of B =	7780.60			
				Sub total of A +B + C =	8508.83					Contractor's overhead expenses 15% =				
										Sub total of C =	247.83			
										Unit Rate =			9614.98	
Description of works:													Unit : 1 m	
Spec. cl. No. 701 Proving and laying RCC pipes of diameter 900 mm (internal) with or without collars jointed with stiff mixture of cement mortar in the proportion of 1 : 2 (1 cement : 2 fine sand) , lead upto 100m.														
Norms No.			Labour (A)			Material (B)			Equipment (C)					
Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount
Skilled	md	0.080	1000.00	80.00	RCC Pipe	m	1.0	12100.00	12100.00	Ballies, crow, bars, chain , pulleys , block and ropes etc.				
Unskilled	md	0.560	715.00	400.40	Cement	kg	6.400	94.38	604.00				3.00%	396.33
					Sand	m ³	0.008	3325.00	26.60					
					Jute	kg	0.219	0.00	0.00					
				Sub total of A =	480.40					Sub total of C =	396.33			
				Sub total of A +B + C =	13607.33					2041.10			Unit Rate =	
										Sub total of B =			15648.43	
Description of works:													Unit : 1 m2	
2803, 2807 Collection of grass clumps (e.g. amliiso, kans, Khar)from sources within 1 km of the road to make slips & Planting rooted grass slips on the slopes <45° including preparation of slips on site, a max of 5 cm depth with metal rod or Operation includes digging planting hole to hard-wood peg, depending on the nature of the soil. The planting drills should be space of 100mm. (100slips per sqm) <th colspan="2"></th> <th></th>														
Norms No.			Labour (A)			Material (B)			Equipment (C)					
Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount	Type	Unit	Qty.	Rate	Amount
Unskilled	md	0.700	715.00	500.50	Jute	Sqm	1	0	0.00	Tools and equipments			3%	15.02
				Sub total of A =	500.50					Sub total of C =			15.02	
				Sub total of A +B + C =	515.52					77.33			Unit Rate =	
										Contractor's overhead expenses 15% =			592.84	

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Assistant Sub-Engineer

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Sub Engineer

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Arju Chand

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