

**Barekot Rural Municipality
Office of Municipal Executive
Barekot, Jajarkot
Karnali Province, Nepal**



Detail Estimate On: Rajura -Baluwa-Shirsha Tadbandhan Karya

Location: Barekot Rural Municipality - 5, Baluwa, Jajarkot

F.Y. 2079/80



Barekot Rural Municipality
Office of Municipal Executive

Barekot, Jajarkot
Karnali Province, Nepal
Salient Feature of the Project

General Information

Project Name : Rajura -Baluwa-Shirsha Tadbandhan Karya

Name of Work: gabion wall Construction

District : Jajarkot

Municipality/Rural Municipality: Barekot

Ward No: 5

Name of Village Served: Baluwa

Structure Information			
Gabion Work			
Box size (2*1*1)m	No	275	
Box size (1.5*1*1)m	No	190	
Financial Information			
Description	Cost (NRs)	Percentage (%)	
Total Project Cost	3,917,098.57	100.0	
Municipalities Contribution	3,917,098.57	100.00	
UC Contribution	-	0.00	

Prepared By : ASST. Sub/Engineer

Date:

Signature:

RM

Checked By: Engineer

Date:

Signature:

RM

Approved By: Chief Administrative Officer

Date:

Signature:

RM

कर्ण बहादुर सिंह
अ.सब.इन्जिनियर

ई. केशव बहादुर श्रेष्ठ
इन्जिनियर

मोहन प्रकाश लिरी
प्रमुख प्रशासकीय अधिकारी



Barekot Rural Municipality
Office of Municipal Executive
Barekot, Jajarkot
Karnali Province, Nepal

Project Name : Rajura -Baluwa-Shirsha Tadbhandhan Karya
District : Jajarkot
Location: Barekot Rural Municipality, Baluwa

Summary of Cost Contribution

S.N	Description	Amount	Community		Municipality Contribution	Cost Contribution	Remarks
			Cash	Kind			
	Construction Non Local Materials						
A	Civil Works	1,967,024.00			1,967,024.00		
	Sub Total- A	1,967,024.00	0.00	0.00	1,967,024.00		RM and LISP Contribution
B	Tools & Safety equipment						
	Tools & Safety equipment	71,924.57			71,924.57		
	Sub Total- B	71,924.57	0.00	0.00	71,924.57		RM Contribution
C	Local material						
3	Stone	918,500.00		0.00	918,500.00		labour no. =1043.75
	Sub Total-C	918,500.00	0.00	0.00	918,500.00		LISP Pilot Contribution
D	Labour Cost						
1	Skilled Labours	275,550.00		-	275,550.00		
2	Unskilled Labours	633,600.00		-	633,600.00		
	Sub Total-D	909,150.00	0.00	-	909,150.00		LISP Pilot Contribution
E	Management cost	40,500.00			40,500.00		
	Sub Total-E	40,500.00	0.00	0.00	40,500.00		LISP Pilot Contribution
F	Labour Insurance	10000			10000		
	subtotal -F	10,000.00			10,000.00		LISP Pilot Contribution
G	Non Local Material Transportation		0.00	0.00			
	Total (A+B+C+D+E+F+G+H)	3,917,098.57		-	3,917,098.57		
	Total project cost	3,917,098.57		-	3,917,098.57		
	Percentage %	100		0.00	100.00		

Prepared By : ASST. Sub/Sub Engineer
Date:
Signature:
RM

Checked By: Engineer
Date:
Signature:
RM

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Barekot Rural Municipality
Office of Municipal Executive
Barekot, Jajarkot
Karnali Province, Nepal
Materials & Labour Summary Cost

Project Name :Rajura -Baluwa-Shirsha Tadbhandhan Karya

Location: Barekot Rural Municipality-5,Baluwa

S.N.	Description of Materials	Total	Unit	Rate Rs	Amount Rs	Remarks
1	Earth Work : All types of earth work excavation for foundation in all types of soil including a lead of 10 m & lift of 1.5 m all complete work as per drawing and specification.	150.0	Cum	528.00	79,200.00	
2	Earth Work : All types of earth work in back-filling with suitable common material including compaction by tamping rod (with/without watering) with a lead of 10 m & lift of 1.5 m all complete work as per drawing and specification.	15.0	Cum	220.00	3,300.00	
3	Gabion fabricatiomn (2x1x1) box size with Hexagonal mesh size 100x120mm, Meshwire 10 SWG, Salvagewire 7 SWG and assembling of crates, gabions and placing them in position including stretchching, binding together and tying down lid with 13SWG binding wire including	275.0	no.	4723.82	1,299,050.50	
4	Gabion fabricatiomn (1.5x1x1) box size with Hexagonal mesh size 100x120mm, Meshwire 10 SWG, Salvagewire 7 SWG and assembling of crates, gabions and placing them in position including stretchching, binding together and tying down lid with 13SWG binding wire including	190.0	no.	3515.65	667,973.50	
5	Packing and filling of gabion boxes with rubble stone (all size)	835.00	Cum	2090.00	1,745,150.00	
		1.0			71,924.57	
6	Safety Equipment & Tools	1.0	Ls	40500.00	40,500.00	
7	Management Cost	1.0	LS	10000.00	10,000.00	
8	Labour Insurance				3,917,098.57	
	Total cost					

Prepared By:

Checked By:

Approve By:

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Barekot Rural Municipality
Office of Municipal Executive
Barekot, Jajarkot
Karnali Province, Nepal

Project Name :Rajura -Baluwa-Shirsha Tadbhandhan Karya
Location: Barekot Rural Municipality-5,Baluwa

Detail Quantity Calculation Sheet

S.N	Description	no	Length	Breadth	Height	Quantity	unit	Remarks
1	Earth Work : All types of earth work excavation for foundation in all types of soil including a lead of 10 m & lift of 1.5 m all complete work as per drawing and specification.	1	200	1.5	0.5	150	cum	
				Sub-Total		150	cum	
2	Earth Work : All types of earth work in back-filling with suitable common material including compaction by tamping rod (with/without watering) with a lead of 10 m & lift of 1.5 m all complete work as per drawing and specification.	1		10% of E/W		15	Cum	
				Sub-Total		15	cum	

At Baluwa						
(Change 0+000 To 0+120)						
S.n	Layer of Gabion Wall	Sectional Area	Total Length	Qty	Gabion size	Remarks
1.a	1st layer	1.5	30	45	1.5	At irrigation canal side
b	2nd layer	1	30	30	2	At water mill side
2	1st layer	1	60	60	2	At Agricultural Land Side
3.a	1st layer	1	60	60	2	
b	2nd layer	1	60	60	2	

S.n	Size	Total Number	Quantity	unit
1	2*1*1	90	180	cum
2	1.5*1*1	30	45	cum
	Sub-total		225	cum

At Rajura Sirsha						
(Change 0+00 To 0+0300)						
S.n	Layer of Gabion Wall	Sectional Area	Total Length	Qty	Gabion size	Remarks
1.a	1st layer	1.5	160	240	1.5	At Road side
b	2nd	1	160	160	2	
2.a	1st layer	1	110	105	2	At River Side
b	2nd	1	110	105	2	

s.n	Size	Total Number	Quantity	unit
1	2*1*1	185	370	
2	1.5*1*1	160	240	
	Sub-total		610	cum

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Barekot Rural Municipality
Office of Municipal Executive
Barekot, Jajarkot

Project Name : Rajura -Baluwa-Shirsha Tadbandhan Karya
Name of Work: gabion wall Construction
Location: Barekot Rural Municipality, Baluwa

Group Division of Workers

SN	Particulars of works	Skilled Worker	Rate	Total Amount NRs	Unskilled Worker	Rate	Total Amount NRs	Remarks	Unskilled workers in a group
1	Gabion Box Filling Works	250.50	1100.00	275550.00	626.25	880	551100		
	E/W Excavation Works	-			90.00	880	79200		
	E/W Filling Works	-			3.75	880	3300		GR-A :20
		Total		275,550.00	Total		633600		
2	Stone collection	-						Total Stone= 918.5 cum per cum rate=1000	
				918,500.00	1,043.75	880.00	918,500.00		GR:-B :20

S.N	Description	no.	Rate	Total Amount
1	Skilled Labour	250.50	1100	275,550.00
2	Unskilled Labour	1,763.75	880	1,552,100.00
		Total		1,827,650.00

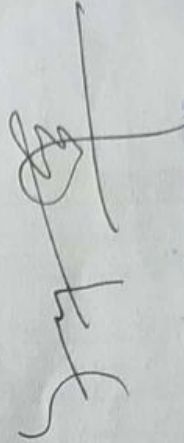
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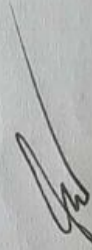
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Office of Municipal Executive
Barekot, Jajarkot
Karnali Province, Nepal
Material Labour Breakdown sheet

S.N	Description of works	Qty.	Unit	Labour		Local Material						Grass Slip No
				Skilled labour MD	Unskilled labour MD	Stone Cu.m	Sand Cu.m	Aggregate 40mm Cum	Aggregate 20mm Cu.m	Aggregate 10mm Cum	wood cum	
1	Earth Work : All types of earth work excavation for foundation in all types of soil including a lead of 10 m & lift of 1.5 m all complete work as per drawing and specification.	150.00	Cum		90.00							
2	Earth Work : All types of earth work in back-filling with suitable common material including compaction by tamping rod (with/without watering) with a lead of 10 m & lift of 1.5 m all complete work as per drawing and specification.	15.00	Cum		3.75							
3	Packing and filling of gabion boxes with rubble stone (all size)	835.00	Cum	250.50	626.25	918.50						
Total				250.5	720	918.5						



कोशी प्रदेश
 जेठ १५, २०७३



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Barekot Rural Municipality
Office of Municipal Executive

Barekot, Jajarkot
Karnali Province, Nepal
Safety Equipment & Tools

Project Name : Rajura - Baluwa-Shirsha Tadbandhan Karya

Location: Barekot Rural Municipality, Baluwa

S.N.	Particular	Units	Quantity	Rate	Total Amount	Remarks
1	Hording Board with Transportation	Pic	1	12,000.00	12,000.00	
2	Storeroom	Room /month	3	2,000.00	6,000.00	
3	Fooding and Lodging cost during work at Municipality HQ	Day	10	700.00	7,000.00	F: 500, T-200
4	Public Review	Day	1	2,500.00	2,500.00	
5	Final Public Audit	Day	1	2,500.00	2,500.00	
6	Frist Aid Kit Tools	Box	1	5,000.00	5,000.00	
7	Stationary	Ls	1	500.00	500.00	
8	miscellaneous work	Ls	1	5,000.00	5,000.00	
	Total Management Cost				40,500.00	

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Barekot Rural Municipality
Office of Municipal Executive

Barekot, Jajarkot
Karnali Province, Nepal
Safety Equipment & Tools

S.N.	Description of Materials	Quantity	Unit	Rate Rs	Amount Rs	Remarks
A	Safety Equipment					
1	Safety Helmets	15.00	No-LS	850.00	12750.00	
4	Gumboots	15.00	Set-LS	1000.00	15000.00	
5	Safety Gloves	15.00	Set-LS	600.00	9000.00	
	Sub Total-A				36750.00	
B	Tools					
2	Crowbar 1.5"*5'-phalame gal	3	No	2,050.00	6150.00	
3	Hammer, Sledge 1kg-dhunga kudne with handel	3	No	350.00	1050.00	
4	Hammer, Sledge 5kg(10 pound) with handel	3	No	1,370.00	4110.00	
5	Pickaxe(1"*1/4")-gaiti with handel	3	No	530.00	1590.00	
6	Shovel-belcha	3	No	645.00	1935.00	
7	Tape, Measurement 30m	1	No	395.50	395.50	
8	Stone Chisel-chinno	3	No	425.00	1275.00	
9	Kodalo	3	No	475.00	1425.00	
10	Thread (Dhago)	3	roll	40.00	120.00	
	Sub Total-B				18,050.50	
				Total cost	54,800.50	
				13% VAT	7124.07	
				Total NRs.	61,924.57	
				LS	10000	
	Transportation			Grand Total NRs	71,924.57	

Prepared By:

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Barekot Rural Municipality
Office of Municipal Executive
Barekot, Jajarkot

Project Name: Rajura-Baluwa-Shirsha Tadbandhan Karya
Name of Work: gabion wall Construction
Location: Barekot Rural Municipality, Baluwa

Work Plan

SN	Activities	December				January				February				March				Remarks
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
1	Project submission to office for approval																	
2	User Committee Formation																	
3	Procurement process of Non-local materials, Tools And Equipment																	
4	Project Agreement																	
5	Tools And Equipment Supply To Community																	
6	Material collected by community																	
7	External materials supply to community																	
8	Layout																	
9	excavation work																	
10	Gabion Box Filling work																	
11	measurement																	
12	Public audit																	
13	Project monitoring																	
14	Final Payment																	

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RATE ANALYSIS F.Y. 2079/080

Excavation in Roadway, Drain and foundation in Hard Soil including removal and satisfactory disposal of the materials upto a lead of 50m.		Unskilled	m.d.	0.60	880.00	528.00
		Equipment				0.00
		3% of labour				528.00
Item No.	per	Sub-Total				
3	1	Contract Rate (1.15)				528.00
Norms - Dolidar 5.b Page 21		U.Rate without VAT		cu.m.		
E/W exca. in Roadway & Drain : Hard Soil		per				
		Unskilled	m.d.	0.25	880.00	220.00
		Equipment				0.00
		3% of labour				220.00
Item No.	per	Sub-Total				
10	1	Contract Rate (1.15)				220.00
Norms - Dolidar 10 Page 22		U.Rate without VAT		Cu.m.		
Back/Earth Filling		per				
		Skilled	m.d.	0.39	1100.00	429.00
		unskilled	m.d.	0.27	880.00	237.60
		Mesh wire	Kg	23.43	149.93	3512.96
		Salvagewire	Kg	2.88	149.93	431.81
		Bindingwire	Kg	0.75	149.93	112.45
		Sub-Total				4723.82
Item No.	per	Contract Rate (1.15)				4723.82
21	1	U.Rate without VAT		box		
Dolidar 44.1.B ii a/44.2.i a Page 50		per				
Gabion Box 2x1x1m		skilled	m.d.	0.29	1100.00	319.00
		unskilled	m.d.	0.15	880.00	132.00
		Mesh wire	Kg	17.57	149.93	2634.34
		Salvagewire	Kg	2.16	149.93	323.86
		Bindingwire	Kg	0.71	149.93	106.45
		Sub-Total				3515.65
Item No.	per	Contract Rate (1.15)				3515.65
24	1	U.Rate without VAT		box		
Dolidar 44.1.B ii.d/44.2.ii.d Page 50		per				
Gabion Box 1.5x1x1m		skilled	m.d.	0.30	1100.00	330.00
		unskilled	m.d.	0.75	880.00	660.00
		Rubble	cu.m.	1.10	1000.00	1100.00
		Sub-Total				2090.00
Item No.	per	Contract Rate (1.15)				2090.00
26	1	U.Rate without VAT		cu.m.		
Dolidar 45(Rivised) Page 50		per				
Rubble packing in Gabion box		Skilled	m.d.		1100.00	0.00
		Unskilled	m.d.	0.050	880.00	44.00
		Terram paper	sqm	1.150	306.05	351.96
		Sub-Total				395.96
Item No.	per	Contract Rate (1.15)				395.96
50	1	U.Rate without VAT		sq.m.		
Dolidar-72 18-8 (i)		per				
Laying of terram paper (Geotextile)		skilled	m.d.	0.39	1100.00	429.00
		unskilled	m.d.	0.27	880.00	237.60

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7 SWG and assembling of crates, gabions and placing them in position including stretching, binding together and tying down lid with 12SWG binding wire including diaphragm	Mesh wire	Kg	23.43	149.93	3512.96
	Salvagewire	Kg	3.46	149.93	518.77
	Bindingwire	Kg	0.75	149.93	112.45
	Sub-Total				4810.78
23.00 1.00 box	Contract Rate (1.15)				4810.78
Dolidar 44.1.B.ii.d/44.2.ii.d Page	U.Rate without VAT				
Gabion Box 3x1x0.5m	per				

Dry stone laying (soling) for foundation	skilled	m.d.	1.00	1100.00	1100.00
	Unskilled	m.d.	1.50	880.00	1320.00
	stone	cu.m	1.10	1000.00	1100.00
	Sub-Total				3520.00
Item No.	per				
4.01	1.00	cu.m.			3520.00
Contract Rate (1.15)					
U.Rate without VAT					
per					

Norms - 6(5) page 16

Stone soling (Foundation)

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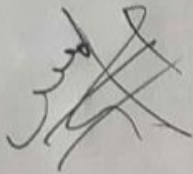


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Karnali Province
Karnali Province, Nepal
Labor and Material Cost

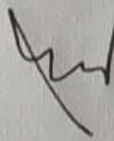
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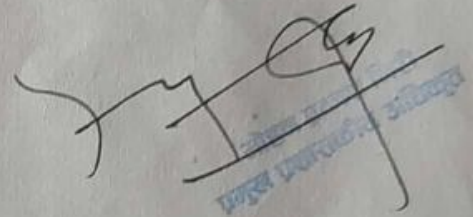
Location: Barekot Rural Municipality-5,Baluwa

S. N.	Item Description	Unit	Quantity	Rate	Amount	Remarks
A	Labor					
1	Skilled	md	250.50	1100.00	275550.00	
2	Unskilled	md	720.00	880.00	633600.00	
	Total labor cost				909150.00	
B	Local material					
1	Stone	cum	918.50	1000.00	918500.00	
	Total Local Material				918500.00	
C	Non-local material					
1	Heavy Zinc coated Gabion Box Size (2*1*1) with Binding wire 12 SWG	no	275.00	4723.82	1299050.50	
2	Heavy Zinc coated Gabion Box Size (1.5*1*1) with Binding wire 12 SWG	kg no.	190.00	3515.65	667973.50	
	Total non-local material cost				1967024.00	
	Total				3794674.00	



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