

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



Detail Estimate On: Jadibuti Sankalan Kendra Nirman Aayojana

Barekot Rural Municipality - 4, Daha

Jajarkot, Nepal

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: Jadibuti Sankalan Kendra Nirman Aayojana

District : Jajarkot

Location: Barekot Rural Municipality-4, Daha

Structure Information			
Collection Center			
Store Room	No	1	
Room	No	2	
Rcc Building	No	one- floor	
Financial Information			
Description	Cost (NRs)	Percentage (%)	
Total Project Cost	4,080,278.92	100.0	
Municipalities Contribution	4,080,278.92	100.00	
UC Contribution	-	0.00	

Date:

Signature: RM

0

Checked By: Engineer

Date:

Signature: RM

Approved By: Chief Administrative Officer

Date:

Signature: RM

कर्ण बहादुर सिंह
अ.स.व.इन्जिनियर

ई. केशव बहादुर श्रेष्ठ
इन्जिनियर

अ.स.व.इन्जिनियर
प्रमुख प्रशासकीय अधिकारी



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

Project Name: Jadibuti Sankalan Kendra Nirman Aayojana
District : Jajarkot
Location: Barekot Rural Municipality-4, Daha

Summary of Cost Contribution

S. N.	Description	Amount	Community Contribution		Municipality Contribution	Cost Contribution	Remarks
			Cash	Kind			
	Construction Non Local Materials						
A	Civil Works	1,676,802.59			1,676,802.59		
	Sub Total- A	1,676,802.59	0.00	0.00	1,676,802.59	RM and LISP-PILOT Contribution	
B	Tools & Safety equipment						
	Tools & Safety equipment	95,603.24			95,603.24		
	Sub Total- B	95,603.24	0.00	0.00	95,603.24	RM Contribution	
C	Local material						
1	Aggregate	163,501.62			163,501.62		unskilled labour=185.80 no.
2	Sand	138,025.91			138,025.91		unskilled labour=156.85 no.
3	Stone	102,000.00			102,000.00		unskilled labour=115.91 no.
4	wood	209,960.93			209,960.93		unskilled labour=238.59 no.
	Sub Total-C	613,488.47	0.00	0.00	613,488.47	LISP -Pilot Contribution	
D	Labour Cost						
1	Skilled Labours	551,100.00		-	551,100.00		
2	Unskilled Labours	1,005,840.00		-	1,005,840.00		
	Sub Total-D	1,556,940.00	0.00	0.00	1,556,940.00	LISP -Pilot Contribution	
E	Management Cost	50,500.00			50,500.00		
	Sub Total-E	50,500.00	0.00	0.00	50,500.00	LISP -Pilot Contribution	
F	Electricity cost	76,944.62			76,944.62		
	Sub Total-F	76,944.62	0.00	0.00	76,944.62	LISP -Pilot Contribution	
G	Labour Insurance	10,000.00	0.00	0.00	10,000.00		
	Sub Total-G	10,000.00			10,000.00	LISP -Pilot Contribution	
	Total (A+B+C+D+E+F+G)	4,080,278.92		-	4,080,278.92		
	Total project cost	4,080,278.92		-	4,080,278.92		
	Percentage %	100	0.00	0.00	100.00		

Date:
Signature:
RM:

कर्ण बहादुर सिंह
अ.सब.इन्जिनियर

0 Checked By: Engineer
Date:
Signature:
RM

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इन्जिनियर

Approved By: Chief Administrative Officer
Date:
Signature:
RM:

मोहन प्रसाद रिज
प्रमुख प्रशासकीय अधिकारी



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

Project Name: Jadibuti Sankalan Kendra Nirman Aayojana
District : Jajarkot

Location: Barekot Rural Municipality-4, Daha

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.	236.21	Cum	616.00	145,505.36	
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.	47.24	Cum	440.00	20,786.48	
3	Stone Soling Work : Dry stone soling / paving work in foundation & floor including a lead of 10 m & lift of 1.5 m all complete work as per drawing and specification.	28.95	Cum	3520.00	101,904.00	
4	Concrete work: Plain Cement Concrete M10/40 grade (PCC 1:3:6 machine mix) in foundation including materials collection, mixing supply, placing, compaction, curing, testing, etc with a lead of 30 m all complete work as per drawing and technical specifications.	9.97	Cum	15398.69	153,524.94	
5	Concrete work: Plain Cement Concrete M15/20 grade (PCC 1:2:4 machine mix) 75 mm thick in floor with punning including materials collection, mixing, supply, compaction, curing, testing, etc with a lead of 30 m all complete work as per drawing and technical specifications.	11.01	Cum	18441.62	203,079.12	
6	Concrete work: Plain Cement Concrete M20/20 grade (RCC 1:1.5:3 machine mix) in superstructure including materials collection mixing, supply, compaction, curing, testing, etc with a lead of 30 m all complete work as per drawing and technical specifications.	42.43	Cum	23421.99	993,795.04	
7	Stone Masonary Work: stone masonry work up to 5 m height including collection of block stone, scaffolding, preparation of mortar & transportation of materials upto 10 m lead in 1:6 C/S mortar all complete work as per Drawing and Technical Specifications.	64.32	Cum	11590.50	745,500.96	
8	Steel Reinforcement Works: Supply Cutting, bending, placing in position according to the drawing & binding of rod for RCC works with lead up to 30 m all complete work as per Technical Specifications.	4478.88	kg	158.53	710,023.90	
9	Formwork & Props Work: Ply & iron props form work for column, beam & slab including selection, collection of materials, cutting, nailing, erection, nailing, oiling coating, fixing in position as per drawing, also removal & disposal with a lead of 30, all complete work as per Technical Specifications.	208.11	Sqm	842.20	175,270.87	
10	Door & Window Work: Preparation of Local Hard wood frame including selection, collection of materials, cutting, nailing, fixing in position all complete work as per drawing Technical Specifications.	1.01	Cum	109845.44	110,943.89	
11	Door & Window Work: Preparation of local hard wood panelled door shutter with 38*75 mm thick local wood frame including selection, collection of materials, cutting, nailing, fixing in position all complete work as per drawing Technical Specifications.	26.16	Sqm	8482.55	221,903.62	
12	Plastering /Pointing Work: 12.5 mm thick cement plaster (1:4 C/S) work including collection of materials, scaffolding, preparation of mortar & transportation of material all complete work as per drawing and technical specifications..	350.07	Sqm	477.74	167,242.13	
13	Painting/ Colouring Work: One coat readymade enamel paint over primer coat painting including preparation of paint & transportation all complete work as per technical specifications.	77.10	Sqm	230.34	17,759.22	
14	Painting/ Colouring Work: White cement (Snowcem) work on new surface:two coat including preparation of paint & transportation all complete work as per technical specifications.	244.77	Sqm	177.78	43,516.34	
15	3mm-cement punning work	98.80	Sqm	369.18	36,475.18	
				Sub-total	3,847,231.05	
16	Electrical work	LS		Electricity Work with material -2% of Sub total	76,944.62	
17	Safety Equipment & Tools	1.0			95,603.24	
18	Management cost	1.0			50,500.00	
19	Labour Insurance Cost	1.0			10,000.00	
	Total cost				4,080,278.99	

Prepared By:
अ.स.व. इन्जिनियर

Checked By:
इन्जिनियर

Approved By:

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

Details Quantity Calculation Sheet

Project Name: Jadibuti Sankalan Kendra Nirman Aayojana
Location: Barekot Rural Municipality-4, Daha

SN	Description	No.	Length (m)	Breadth (m)	Height (m)	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.	Sub-total				236.21	m³	
	For Ground Levelling	1	20	10	1	150.00		Average Height
	Column foundation	12	1.50	1.50	1.50	40.50		
	Long wall	3	9.40	0.80	0.80	18.05		
	Short wall	4	3.90	0.80	1.050	13.10		
	Verandha							
	Long wall	2	13.90	0.70	0.50	9.73		
	Short wall	2	6.90	0.70	0.50	4.83		
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.	20% of E/W				47.24	m³	
3	Stone Soling Work : Dry stone soling / paving work in foundation & floor including a lead of 10 m & lift of 1.5 m all complete work as per drawing and specification.	Sub-total				28.95	m³	
	Column foundation	12	1.50	1.50	0.15	4.05		
	Long wall	3	12.70	0.90	0.15	5.14		
	Short wall	4	6.00	0.90	0.15	3.24		
	Verandha wall							
	long wall	2	13.90	0.70	0.15	2.92		
	Short wall	2	6.90	0.70	0.15	1.45		
	Storage room floor	1	10.00	6.30	0.15	9.45		
	Room- 1 and Room 2 Floor	2	3.00	3.00	0.15	2.70		
4	Concrete work: Plain Cement Concrete M10/40 grade (PCC 1:3:6 machine mix) in foundation including materials collection, mixing supply, placing, compaction, curing, testing, etc with a lead of 30 m all complete work as per drawing and technical specifications.	Sub-total				9.97	m³	
	Column foundation	12	1.50	1.50	0.100	2.70		
	Long wall	3	12.70	0.70	0.100	2.67		
	Short wall	4	6.00	0.70	0.100	1.68		
	Verandha wall							
	long wall	2	13.90	0.70	0.100	1.95		
	Short wall	2	6.90	0.70	0.100	0.97		
5	Concrete work: Plain Cement Concrete M15/20 grade (PCC 1:2:4 machine mix) 75 mm thick in floor with punning including materials collection, mixing, supply, compaction, curing, testing, etc with a lead of 30 m all complete work as per drawing and technical specifications.	Sub-total				11.01	m²	
	Verandha wall							
	long wall	2.00	13.90	0.70	0.1	1.95		
	Short wall	2.00	6.90	0.70	0.1	0.97		
	Storage room floor	1.00	10.00	6.30	0.1	6.30		
	Room- 1 and Room 2 Floor	2.00	3.00	3.00	0.1	1.80		
6	Concrete work: Plain Cement Concrete M20/20 grade (RCC 1:1.5:3 machine mix) in superstructure including materials collection mixing, supply, compaction, curing, testing, etc with a lead of 30 m all complete work as per drawing and technical specifications.	Sub-total				42.43	m³	

Prepared By

कर्म बहादुर सिंह
अ.स. इन्जिनियर

Checked by

ई. केशव महारु
इन्जिनियर

Approved by

Details Quantity Calculation Sheet

Project Name: Jadibuti Sankalan Kendra Nirman Aayojana

Location: Barekot Rural Municipality-4,Daha

SN	Description	No.	Length (m)	Breadth (m)	Height (m)	Quantity	Unit	Remarks
	column rectangular portion	12	1.50	1.50	0.20	5.40		
	column trapezoidal portion	12	1.025	1.025	0.25	3.15		
	column up to PL	12	0.30	0.30	1.10	1.19		1.05
	Plinth level tie beam long wall	3	13.90	0.30	0.30	3.75		
	Plinth level tie beam short wall	4	6.00	0.30	0.30	2.16		
	column PL to Beam level	12	0.30	0.30	2.74	2.96		
	Sill band long wall	3	13.90	0.30	0.15	1.88		
	Sill band Short wall	3	6.00	0.30	0.15	0.81		
	Ground floor tie beam long wall	3	14.70	0.30	0.30	3.97		0.4m cantilever on both side
	Ground Floor floor tie beam Short wall	4	6.80	0.30	0.30	2.45		0.4 m cantilever on both side
	First floor Slab	1	14.90	7.90	0.125	14.71		L= 13.9+2*0.5(Verandha width)
7	Stone Masonry Work: stone masonry work up to 5 m height including collection of block stone, scaffolding, preparation of mortar & transportation of materials upto 10 m lead in 1:6 C/S mortar all complete work as per Drawing and Technical Specifications.					Sub-total	64.32	m³
	Up to Plinth Level Beam							
	long wall first footing	2	12.70	0.70	0.30	5.33		
	long wall second footing	2	12.70	0.50	0.30	3.81		
	long wall third footing up to PL	2	12.70	0.30	0.50	3.81		
	Short wall first footing	3	6.00	0.70	0.30	3.78		
	Short wall second footing	3	6.00	0.50	0.30	2.70		
	Short wall third footing up to PL	3	6.00	0.30	0.50	2.70		
	Verandha							
	long wall	2	13.90	0.50	0.75	10.43		
	short wall	2	6.90	0.50	0.75	5.18		
	Ground Floor Superstructure							
	long wall	2	12.70	0.30	2.74	20.88		
	short wall	3	6.00	0.30	2.74	14.80		
	Room Partation wall	1	3.00	0.30	2.74	2.47		
	Deduction for Door and Window							
	D1	-5	1.10	0.30	2.10	-3.47		
	W	-12	1.50	0.30	1.50	-8.10		
8	Steel Reinforcement Works: Supply Cutting, bending, placing in position according to the drawing & binding of rod for RCC works with lead up to 30 m all complete work as per Technical Specifications.					Sub-total	4,478.88	Ton
8.1	Pillar/Column - Ground floor							
	Pillar Base - 12 mm Dia rod	240	1.65	396	0.89	352.00		0.15m bend
	Pillar Vertical portion - 4 -16 mm Dia rod	48	6.77	324.72	1.58	513.14		
	Pillar Vertical portion - 4 -12 mm Dia rod	48	6.77	324.72	0.89	288.64		
	8 mm dia outer Stirrups - in column @125mm	649	1	649.44	0.395	256.57		
	8 mm dia inner Stirrups - in column @125mm	649	0.8	519.552	0.395	205.26		
8.2	Plinth tie Beam							
	6 -12mm Dia Bar long wall	18	15.30	275.40	0.89	244.80		with lapping
	6 -12mm Dia Bar short wall	24	8.30	199.20	0.89	177.07		with lapping
	Stirrups 8mm dai bar - 1, @125mm long wall	306	1.00	306	0.395	120.89		
	Stirrups 8mm dai bar - 1, @125mm Short wall	221	1.00	221.333	0.395	87.44		
8.3	Tie (First floor level) Beam							
	long wall 12 mm dia. Bar	18	16.10	289.80	0.89	257.60		0.4m cantilever on both side
	In short wall 12 mm dia bar	24	16.10	386.40	0.89	343.47		
	Stirrups 8mm dai bar - 1, @125mm long wall	386	1.00	386.40	0.395	152.65		
	Stirrups 8mm dai bar - 1, @125mm Short wall	515	1.00	515.20	0.395	203.54		
8.4	Ground Floor Slab Reinforcement							
	main bar -Short bar 10 mm dia @150c/c	106	8.90	943.40	0.62	582.35		with lapping
	Distribution bar-Long bar 10mm @ 150c/c	59	15.90	943.40	0.62	582.35		with lapping
	For Window-10mm @ 125c/c	120	1.5	180.00	0.62	111.11		

Prepared By

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Checked By

अ.स.व. इंजिनियर

Approved by

Details Quantity Calculation Sheet

Project Name: Jadibuti Sankalan Kendra Nirman Aayojana

Location: Barekot Rural Municipality-4,Daha

SN	Description	No.	Length (m)	Breadth (m)	Height (m)	Quantity	Unit	Remarks
9	Formwork & Props Work: Ply & iron props form work for column, beam & slab including selection, collection of materials, cutting, nailing, erection, nailing, oiling coating, fixing in position as per drawing, also removal & disposal with a lead of 30, all complete work as per Technical Specifications.	Sub-total				208.11	m ²	
	Slab	1	14.90	7.90		117.71	Sqm	
	For Column	48	0.30	2.74		39.46	Sqm	
	Long Beam	6	14.70	0.3		26.46	Sqm	
	Short Beam	12	6.80	0.3		24.48	Sqm	
10	Door & Window Work: Preparation of Local Hard wood frame including selection, collection of materials, cutting, nailing, fixing in position all complete work as per drawing Technical Specifications.	Sub-total				1.01	m ³	
	Door	5	5.30	0.100	0.075	0.20		
	Window frame - W	12	9.00	0.100	0.075	0.81		
11	Door & Window Work: Preparation of local hard wood panelled door shutter with 38*75 mm thick local wood frame including selection, collection of materials, cutting, nailing, fixing in position all complete work as per drawing Technical Specifications.	Sub-total				26.16	m ²	
	Door	5	0.90	2.000		9.00		
	Window frame - W	36	0.37	1.300		17.16		
12	Plastering /Pointing Work: 12.5 mm thick cement plaster (1:4 C/S) work including collection of materials, scaffolding, preparation of mortar & transportation of material all complete work as per drawing and technical specifications..	Sub-total				350.07	m ²	
	Outside wall	1	41.60		3.04	126.460		
	Inside wall - Room	1	19.00		2.74	52.060		
	Room ceiling	1	13.00	6.00		78.000		
	Room floor	1	13.00	6.00		78.000		
	Verandah ceiling	1	53.60	0.50		26.800		
	Verandha floor	1	54.60	0.50		27.300		
	Deduction for Door Window							
	W	-12	1.50		1.50	-27.000		
	D	-5	1.10		2.10	-11.550		
13	Painting/ Colouring Work: One coat readymade enamel paint over primer coat painting including preparation of paint & transportation all complete work as per technical specifications.	Sub-total				77.10	m ²	
	D	10	1.10		2.10	23.100		Both side
	W	24	1.50		1.50	54.000		Both side
14	Painting/ Colouring Work: White cement (Snowcem) work on new surface:two coat including preparation of paint & transportation all complete work as per technical specifications.	Same as platering work after deduction of Floor area				244.77	m ²	
15	3mm-cement punning work	Sub-total				98.800	m ²	
	Room floor	1	13	6		78.000		
	Verandha floor	1	41.6	0.5		20.800		

Prepared By:

Checked By:

Approved By:

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अ.स.व. इंजिनियर

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Checked by
इंजिनियर

आहम प्रकाश सिंह
प्रमुख प्रशासकीय अधिकृत

Approved by



Barekot Rural Municipality
Office of the Municipal Executive
Barekot, Jajarkot
Karnali Province, Nepal
Labor and Material Cost

Project Name: Jadibuti Sankalan Kendra Nirman Aayojana

Location: Barekot Rural Municipality-4, Daha



S.N.	Item Description	Unit	Quantity	Rate	Amount	Remarks
A	Labor					
1	Skilled	md	501.00	1100.00	551100.00	
2	Unskilled	md	1143.00	880.00	1005840.00	
	Total labor cost				1556940.00	
B	Local material					
1	Stone	cum	102.00	1000.00	102000.00	
2	Sand	cum	63.00	2190.89	138025.91	
3	Aggregate	cum				
	Gravel_1 =40 mm gravel	cum	12.00	3000.00	36000.00	
	Gravel_2 =20 mm gravel	cum	29.00	3000.00	87001.62	
	Gravel_3 =10 mm gravel	cum	13.50	3000.00	40500.00	
4	wood					
	Local wood work	Cum	3.50	59988.84	209960.93	
	Total local material cost				613488.47	
C	Non-local material with Vat					
1	Cement-opc	Bag	639.00	1608.86	1028059.62	
2	Reinforcement Bar (8mm to 16mm)	Kg	4703.00	127.06	597567.55	
3	Binding wire	Kg	44.00	135.31	5953.78	
4	Nails(2"-4")	Kg	52.00	129.66	6742.48	
5	Holdfast	No	93.00	35.00	3255.38	
6	Handle-6"-steel coated	No	25.00	45.00	1125.00	
7	Lock set-250mm- Aluminium	No	12.00	549.18	6590.16	
8	Bolt2-150mm -cheskini-Aluminium	No	25.00	128.00	3200.00	Extra added
9	Bolt1-100mm -cheskini-Aluminium	No	25.00	65.00	1625.00	Extra added
10	Hinges-100mm-kabja-iron	No	75.00	35.17	2637.50	
11	Screw-1"	No	208.00	1.33	277.35	Extra added
12	wood primer	ltr	6.50	472.20	3069.29	
13	Enamel paint	ltr	7.00	667.69	4673.82	
14	White Cement(Snowcem)	kg	122.50	98.17	12025.72	
	Total non-local material cost				1676802.59	
	Total				3847231.06	

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मोहन प्रकाश बिस्ने
प्रमुख प्रशासकीय अधिकारी

Narayan Municipality
Office of Municipal Executive
Narayan, Dailekh
Karnali Province, Nepal
Material Labour Breakdown sheet

S.N	Description of works	Qty.	Unit	Labour		Non-Local Material														Local Material						Grass Slip
				Skilled labour	Unskilled labour	Cement	Re-Bar 8-16mm	Bending wire	Nails	Holtsfast	Wood Primer	Enamel paint	white cement	screw	Handle	Lock	Bolt 2	Bolt 1	Hing	Stone	Sand	Aggregate 40mm	Aggregate 20mm	Aggregate 10mm	Local wood	
				MD	MD	Bags	Kg	Kg	Kg	nos	ltr	ltr	kg	no	No	set	No	No	No	Cu.m	Cu.m	Cum	Cu.m	Cum	Cu.m	No
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.	236.21	Cum		165.35																					
2	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.	47.24	Cum		23.62																					
3	Stone Soling Work : Dry stone soling / paving work in foundation & floor including a lead of 10 m & lift of 1.5 m all complete work as per drawing and specification.	28.95	Cum	28.95	43.43															31.85						
4	Concrete M10/40 grade (PCC 1:3:6 machine mix) in foundation including materials collection, mixing supply, placing, compaction, curing, testing, etc with a lead of 30 m all complete work as per drawing and technical specifications.	9.97	Cum	9.97	39.88	43.87															4.59	6.48	2.39			
5	Concrete work: Plain Cement Concrete M15/20 grade (PCC 1:2:4 machine mix) 75 mm thick in floor with punning including materials collection, mixing, supply, compaction, curing, testing, etc with a lead of 30 m all complete work as per drawing and technical specifications.	11.01	Cum	11.01	44.05	70.48															4.90	5.73	2.42	1.21		
6	Concrete work: Plain Cement Concrete M20/20 grade (RCC 1:1.5:3 machine mix) in superstructure including materials collection mixing, supply, compaction, curing, testing, etc with a lead of 30 m all complete work as per drawing and technical specifications.	42.43	Cum	33.94	297.01	339.44															18.033		24.19	12.3047		
7	Stone Masonary Work: stone masonry work up to 5 m height including collection of block stone, scaffolding, preparation of mortar & transportation of materials upto 10 m lead in 1:6 C/S mortar all complete work as per Drawing and Technical Specifications.	64.32	Cum	96.48	321.60	136.358															70.752	30.230				

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इन्जिनियर

मोहम प्रसाद रिदी
प्रमुख प्रशासकीय अधिकृत

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इज्जिनियर

ओहवा प्रकाश विज्ञान
पन्ना प्रसारणीय अधिकृत



**Barekot Rural Municipality
Office of Municipal Executive**

**Barekot, Jajarkot
Karnali Province, Nepal**

Project Name: Jadibuti Sankalan Kendra Nirman Aayojana

Location: Barekot Rural Municipality-4, Daha



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	
2	Gumboots	15.00	Set-LS	1000.00	15000.00	
3	Safety Gloves	15.00	Set-LS	600.00	9000.00	
	Sub Total-A				36750.00	
B Tools						
1	Crowbar 1.5"*5'-phalame gal	2	No	2,255.00	4510.00	10% Rate Increase on surkhet district rate
2	Hammer, Sledge 1kg-dhunga kudne with handel	3	No	385.00	1155.00	
3	Hammer, Sledge 5kg(10 pound) with handel	3	No	1,507.00	4521.00	
4	Pickaxe(1"*1/4")-gaiti with handel	3	No	583.00	1749.00	
5	Shovel-belcha-with handel	3	No	709.50	2128.50	
6	Tape, Measurement 30m	1	No	495.00	495.00	
7	Tape, Measurement- 5m (steel)	2	No	176.00	352.00	
8	Stone Chisel-chinno	3	No	467.50	1402.50	
9	Kodalo with handel	3	No	522.50	1567.50	
10	Thread (Dhago)	5	roll	44.00	220.00	
11	Trowel -Karni	4	no	159.50	638.00	
12	plastic Bucket-20 ltr with jug	3	no	583.00	1749.00	
13	Head pan -tasala	8	no	297.00	2376.00	
14	Plumb bob-Ghanti	1	no	236.50	236.50	
15	Sand seive Net-baluwa chalne Jali	5	mtr	335.50	1677.50	
16	Hacksaw Frame	3	no	352.00	1056.00	
17	Hacksaw Blade	24	pic	29.70	712.80	
18	Level Pipe	30	mtr	49.50	1485.00	
19	Nail hammer-1/2kg	2	no	330.00	660.00	
20	painting brush-3"	2	no	253.00	506.00	
21	painting brush-4"	2	no	291.50	583.00	
22	Doko	4	no-ls	800.00	3200.00	
23	Namlo	4	no-ls	400.00	1600.00	
	Sub Total-B				34,580.30	
	Total cost				71,330.30	
	13% VAT				9272.94	
	Total NRs.				80,603.24	
	Transportation from limsa to site (daha)		LS		15000.00	
	Grand Total NRs.				95,603.24	

Prepared By:

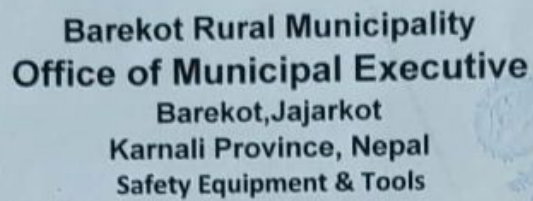
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Checked By:

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Approved By:

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मन्मथ प्रसाद अधिकारी



Location: Barekot Rural Municipality-4,Daha

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Barekot Rural Municipality
Office of Municipal Executive
Barekot, Jajarkot

Project Name: Jadibuti Sankalan Kendra Nirman Aayojana
Location: Barekot Rural Municipality-4, Daha

Group Division of Workers							Unskilled/Skilled workers in a group	
SN	Particulars of works	Skilled Worker	Rate	Total Amount NRs	Unskilled Worker	Rate		
1	E/W Excavation Works	0.00	1100.00	0.00	165.35	880	GR-A :20	
	E/W Filling Works	0.00	1,100.00	0.00	23.62	880		
	Stone soiling work	28.95	1,100.00	31,845.00	43.43	880		
	Stone masonry work	96.48	1,100.00	106,128.00	321.60	880		
	PCC Work: 1:3:6	9.97	1,100.00	10,967.00	39.88	880		
		Total		148,940.00	Total		GR-B :30	
		11.01	1,100.00	12,113.20	44.05	880.00		
		33.94	1,100.00	37,338.40	297.01	880.00		
		35.79	1,100.00	39,374.41	53.48	880.00		
		53.75	1,100.00	59,121.22	53.75	880.00		
2	Reinforcement	Total		147,947.23			GR-C :30	
	Plaster Work	42.01	1,100.00	46,209.24	56.01	880.00		
	Clouring work	15.91	1,100.00	17,501.06	15.91	880.00		
	Enamel Painting Work	6.17	1,100.00	6,784.80	3.86	880.00		
	Punning Work	9.88	1,100.00	10,868.00	9.88	880.00		
		Total		81,363.10		75377.5	GR-B :15	
						Total Stone= 102cum per cum rate=1000		
				102,000.00	115.91	880.00		Total Sand= 63 cum per cum rate=2190.89
				138,025.91	156.85	880.00		Total Aggregate= 54.5 cum per cum rate=3000
				163,501.62	185.80	880.00		Total wood= 3.5 cum per cum rate=59988.84
					Total			GR-B :15
				209,960.93	238.59	880.00		
				173,895.10	15.81	880.00		
		Total		173,895.10	Total			
		158.09	1,100.00					



Barekot Rural Municipality
Office of Municipal Executive
Barekot, Jajarkot

Project Name: Jadibuti Sankalan Kendra Nirman Aayojana
Location: Barekot Rural Municipality-4, Dahha

Work Plan

SN	Activities	December				January				February				March				April				Remarks
		1	2	3	4	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	RCC work																					
11	Stone masonry work																					
12	plaster and colouring work																					
13	Public audit																					
14	Project monitoring																					
15	Final Payment																					

Prepared By:

Checked by:

Approved By:

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RATE ANALYSIS for F.Y. 2079/80
Barekot Rural Municipality
Office of Municipal Executive
Barekot, Jajarkot

Items	Descript.	Unit	Quantity	U. Rate	Amount
1. EARTHWORK					
Excavation of soft clay & silty soils including disposal upto 10m lead and 1.5m lift		Unskilled	m. d.	0.70	880.00
		Equipment			
		3% of labour			0.00
Item No.	per	Sub-Total			616.00
1.1	1	Contract Rate (1.15)			0.00
Norms - 2(1) page 5		U. Rate without VAT		cu. m.	616.00
Earthwork in excav. : soft soil		per			
Filling with ordinary soil in 15 cm thick layer and hand compaction (haulage distance 10m) with sprinkling water		Unskilled	m. d.	0.50	880.00
Item No.	per	Sub-Total			440.00
1.5	1	Contract Rate (1.15)			
Norms - 2(25a) page 15		U. Rate without VAT		cu. m.	440.00
Earth filling - compaction work		per			
Filling by stones in the foundation and levelling including haulage distance upto 30m		Unskilled	m. d.	1.50	880.00
		Block stone	cu. m.	1.00	1000.00
		Bond stone	cu. m.	0.20	1000.00
Item No.	per	Sub-Total			2520.00
1.6	1	Contract Rate (1.15)			
Norms - 6(5) page 39		U. Rate without VAT		cu. m.	2520.00
Filling - stone		per			
Filling by sand and hand compaction (haulage distance 10m) with sprinkling water		Unskilled	m. d.	0.70	880.00
		Sand	cu. m.	1.10	1922.06
Item No.	per	Sub-Total			2730.27
1.7	1	Contract Rate (1.15)			
Norms - 2(42) page 21		U. Rate without VAT		cu. m.	2730.27
Filling - sand		per			
3. STONE WORKS					
Dry stone laying (soling) for flooring		skilled	m. d.	1.00	1100.00
		Unskilled	m. d.	3.50	880.00
		stone	cu. m	1.10	1000.00
		Sand	cu. m	0.25	0.00
Item No.	per	Sub-Total			5280.00
3.1	1	Contract Rate (1.15)			
Norms - 11(16) page 107		U. Rate without VAT		cu. m.	5280.00
Stone soling		per			
Dry stone laying (soling) for foundation		skilled	m. d.	1.00	1100.00
		Unskilled	m. d.	1.50	880.00
		stone	cu. m	1.10	1000.00
Item No.	per	Sub-Total			3520.00
3.1	1	Contract Rate (1.15)			
Norms - 6(5) page 16		U. Rate without VAT		cu. m.	3520.00
Stone soling		per			

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इन्जिनियर

महेश प्रताप सिंह
प्रमुख प्रशासकीय अधिकारी

Rubble masonry work including supply of hard stone blocks preparing cement sand mortar and construction of the wall upto 5m high haulage distance upto 10m a) cement sand mortar 1:4	skilled	m.d.	1.50	1100.00	1650.00
	Unskilled	m.d.	5.00	880.00	4400.00
	cement	bag	3.180	1608.86	5116.17
	Sand	cu.m	0.45	2190.89	985.90
	bl.stone	"	1.00	1000.00	1000.00
	bond st.	"	0.10	1000.00	100.00
Item No.	per		Sub-Total		13252.07
3.2	1	cu.m.	Contract Rate (1.15)		
Norms - 6a(2) page 35			U.Rate without VAT		13252.07
Stone work in c.m. - 1:4			per	cu.m.	

Rubble masonry work including supply of hard stone blocks preparing cement sand mortar and construction of the wall upto 5m high haulage distance upto 10m a) cement sand mortar 1:6	skilled	m.d.	1.50	1100.00	1650.00
	Unskilled	m.d.	5.00	880.00	4400.00
	cement	bag	2.120	1608.86	3410.78
	Sand	cu.m	0.47	2190.89	1029.72
	bl.stone	"	1.10	1000.00	1100.00
	bond st.	"	0.00	1000.00	0.00
Item No.	per		Sub-Total		11590.50
3.3	1	cu.m.	Contract Rate (1.15)		
Norms - 6a(3) page 35			U.Rate without VAT		11590.50
Stone work in c.m. - 1:6			per	cu.m.	

4. WOODEN WORKS

Making and fixing seasoned Local Hard wood chaukhat	skilled	m.d.	34.00	1100.00	37400.00
	Unskilled	m.d.	3.40	880.00	2992.00
	wood	cu.m	1.10	59988.84	65987.72
	holdfast	nos.	92.00	35.00	3220.37
	screw	nos.	184.00	1.33	244.52
					245.35
Item No.	per		Sub-Total		109845.44
4.1.1	1	cu.m.	Contract Rate (1.15)		0.00
Norms - 10(1) page 75			U.Rate without VAT		109845.44
Local hard wood work - chaukhat			per	cu.m.	

Making and fixing local wood panelled shutters using 38 mm Local hard wood frame Shutter size: 1.07m * 1.982 m = 2.114 sq.m. Hinges (Kabja) - 100 mm bolt_1 (Chheskini) - 100 mm bolt_2 (Chheskini) - 150 mm lock	skilled	m.d.	10.00	1100.00	11000.00
	Unskilled	m.d.	1.00	880.00	880.00
	wood	cu.m	0.084	59988.84	5039.06
	hinges	nos.	6.00	35.17	211.00
	bolt_1	nos.	1.00	65.00	65.00
	bolt_2	nos.	1.00	128.00	128.00
	lock	nos.	1.00	469	469.06
	handle	nos.	2.00	45.00	90.00
	Screws	L.S.			50.00
					17932.12
Item No.	per		Sub-Total		17932.12
4.3	2.114	sq.m.	Contract Rate (1.15)		
Norms - 10(2) page 76			U.Rate without VAT		8482.55
In local hardwood frame - shutters			per	sq.m.	

Making and fixing 4 mm thick glazed shutter using sal wood shutter of the size : 38 mm x 75 mm (Shutter size: 1.829m*1.22m) hinges (Kabja) - 100 mm bolts (Chheskini) - 100 mm	skilled	m.d.	9.00	1100.00	9900.00
	Unskilled	m.d.	0.90	880.00	792.00
	wood	cu.m	0.049	59988.84	2939.45
	glass	sq.m.	1.085	1077.60	1169.20
	hinges	nos.	8.00	35.17	281.33
	bolts	nos.	4.00	65.00	260.00
	handle	nos.	2.00	45.00	90.00
	screws	L.S.			0.00
					15431.98
Item No.	per		Sub-Total		15431.98
4.4	2.23	sq.m.	Contract Rate (1.15)		
Norms - 10(4) page 78			U.Rate without VAT		15431.98
In 1.5" sal frame - 4 mm glazed			per	sq.m.	

Making and fixing 4 mm commercial plywood flush shutter (plywood both sides) in 38 mm sal wood frame. Shutter size : 1.092*2.058 = 2.245 lock - special hinges - 100 mm bolts - 100 mm	skilled	m.d.	7.00	1100.00	7700.00
	Unskilled	m.d.	0.70	880.00	616.00
	wood	cu.m	0.0346	59988.84	2075.61
	Plywood	sq.m.	4.65	290.91	1352.74
	hinges	nos.	3.00	35.17	105.50
	bolts	nos.	2.00	65.00	130.00
	lock	nos.	1.00	1500.00	1500.00
	screws	L.S.			50.00
					13529.85
Item No.	per		Sub-Total		13529.85
4.5	2.245	sq.m.	Contract Rate (1.15)		15559.33
Norms - 10(7) page 80,81			U.Rate without VAT		6930.66
In 1.5" sal frame - 4mm plywood shutter			per	sq.m.	

5. CONCRETE WORKS

Concreting of foundation, vertical faces walls (cement concrete) including supply of materials and haulage distance upto 30m. a) P.C.C.(1:3:6) Gravel_1 =40 mm gravel crushed Gravel_2 =20 mm gravel crushed	skilled	m.d.	1.00	1100.00	1100.00
	Unskilled	m.d.	4.00	880.00	3520.00
	cement	bag	4.40	1608.86	7078.97
	gravel_1	cu.m.	0.65	3000.00	1950.00
	gravel_2	cu.m.	0.24	3000.00	720.00
	sand	cu.m.	0.47	1922.06	903.37
Item No.	per		Sub-Total		15272.34
5.1	1	cu.m.	Contract Rate (1.15)		
Norms-7.2(c) page 44			U.Rate without VAT		15272.34
P.C.C. - 1:3:6			per	cu.m.	

Concreting of foundation, vertical faces walls (cement concrete) including supply materials and haulage distance upto 30m a) P.C.C.(1:2:4) Gravel_1 =40 mm gravel crushed Gravel_2 =20 mm gravel crushed Gravel_3 =10 mm gravel crushed	skilled	m.d.	1.00	1100.00	1100.00
	Unskilled	m.d.	4.00	880.00	3520.00
	cement	bag	6.40	1608.86	10296.68
	gravel_1	cu.m.	0.52	3000.00	1560.00
	gravel_2	cu.m.	0.22	3000.00	660.00
	gravel_3	cu.m.	0.11	3000.00	330.00
	sand	cu.m.	0.445	1922.06	855.32
Item No.	per		Sub-Total		18322.00
5.2	1	cu.m.	Contract Rate (1.15)		
Norms-7.2(d) page 44			U.Rate without VAT		18322.00
P.C.C. - 1:2:4			per	cu.m.	

Concreting works of super structure deck slabs, beams including supply of materials and haulage distance upto 30m. a) P.C.C. 1:2:4 Gravel_1 =40 mm gravel crushed Gravel_2 =20 mm gravel crushed Gravel_3 =10 mm gravel crushed	skilled	m.d.	0.80	1100.00	880.00
	Unskilled	m.d.	7.00	880.00	6160.00
	cement	bag	6.40	1608.86	10296.68
	gravel_1	cu.m.	0.52	3000.00	1560.00
	gravel_2	cu.m.	0.22	3000.00	660.00
	gravel_3	cu.m.	0.11	3000.00	330.00
	sand	cu.m.	0.445	1922.06	855.32
Item No.	per		Sub-Total		20742.00
5.3	1	cu.m.	Contract Rate (1.15)		
Norms-7(4)a page 46			U.Rate without VAT		20742.00
PCC for RCC (1:2:4)			per	cu.m.	

Concreting works of super structure deck slabs, beams including supply of materials and haulage distance upto 30m. a) P.C.C. 1:1.5:3 Gravel_1 =20 mm gravel crushed Gravel_2 =10 mm gravel crushed	skilled	m.d.	0.80	1100.00	880.00
	Unskilled	m.d.	7.00	880.00	6160.00
	cement	bag	8.00	1608.86	12870.86
	gravel_1	cu.m.	0.57	3000.00	1710.00
	gravel_2	cu.m.	0.29	3000.00	870.00
	sand	cu.m.	0.425	1922.06	816.88
Item No.	per		Sub-Total		23307.74
5.4	1	cu.m.	Contract Rate (1.15)		
Norms-7(4)b page 46			U.Rate without VAT		23307.74
PCC for RCC (1:1½:3)			per	cu.m.	

Cutting, bending, placing in position as shown in the drawing & binding by GI wire of reinforcement steel bar for RCC works incl. haulage dist. upto 30m	skilled	m.d.	12.00	1100.00	13200.00
	Unskilled	m.d.	12.00	880.00	10560.00
	Rebars	m.t.	1.05	127060.93	133413.98
	bind.wire	kg	10.00	135.31	1353.13
Item No.	per		Sub-Total		158527.11
5.5	1000	kg	Contract Rate (1.15)		
Norms-7.5 page 47			U.Rate without VAT		158.53
Iron rod(TOR steel) for RCC			per	kg	

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मोहब प्रकाश मिश्रा
मन्त्र प्रवर्तक अधिकारी

Prepared By

Checked By

Approved By

Making wooden form work for slab and floor including supply and selection of materials fixing, nailing according to drawings, applying primer, placing separators, dismantling forms and hauling upto 30 m distance (Salvage value after using 6 times 0.25% i.e. 0.526*0.75/6)	skilled	m.d.	1.72	1100.00	1892.00
	Unskilled	m.d.	2.57	880.00	2261.60
	wood	cu.m.	0.066	59988.84	3944.27
	Nails	kg	2.50		324.16
Item No.	per		Sub-Total		8422.03
5.6	10	sq.m.	Contract Rate (1.15)		
Norms-8(2a) page 55			U.Rate without VAT	sq.m.	842.20
Form work for slab			per		

Making wooden form work including supply and selection of materials fixing, nailing according to drawings, placing separators, dismantling forms and hauling upto 30 m distance Column height 3 - 4 m	skilled	m.d.	2.400	1100.00	2640.00
	Unskilled	m.d.	3.60	880.00	3168.00
	wood	cu.m.	0.066	59988.84	3944.27
	Nail	kg	2.50	129.66	324.16
Item No.	per		Sub-Total		10076.43
5.7	10	sq.m.	Contract Rate (1.15)		
Norms-8(3c) page 56			U.Rate without VAT	sq.m.	1007.64
Form work for column			per		

Making wooden form work including supply and selection of materials fixing, nailing according to drawings, placing separators, dismantling forms and hauling upto 30 m distance (beam height upto 0.30m)	skilled	m.d.	4.00	1100.00	4400.00
	Unskilled	m.d.	6.00	880.00	5280.00
	wood	cu.m.	0.066	59988.84	3944.27
	killar	kg	2.50	129.66	324.16
Item No.	per		Sub-Total		13948.43
5.8	10	sq.m.	Contract Rate (1.15)		
Norms-8(4a) page 57			U.Rate without VAT	sq.m.	1394.84
Form work for beam			per		

8. PLASTERING WORKS

12.5 mm thick cement sand plastering works in ceiling a) Cement sand ratio - 1:3	skilled	m.d.	15.00	1100.00	16500.00
	Unskilled	m.d.	20.00	880.00	17600.00
	cement	bag	12.500	1608.86	20110.71
	sand	cu.m	1.28	1922.06	2460.24
Item No.	per		Sub-Total		56670.95
8.1	100	sq.m.	Contract Rate (1.15)		
Norms-12(1b) page 110			U.Rate without VAT	sq.m.	566.71
12.5mm cem. plaster in c.m. - 1:3 ceiling			per		

12.5 mm thick cement sand plastering works a) Cement sand ratio - 1:4	skilled	m.d.	12.00	1100.00	13200.00
	Unskilled	m.d.	16.00	880.00	14080.00
	cement	bag	10.750	1608.86	17295.21
	sand	cu.m	1.46	1922.06	2806.21
Item No.	per		Sub-Total		47381.42
8.2	100	sq.m.	Contract Rate (1.15)		
Norms-12(1c) page 110			U.Rate without VAT	sq.m.	473.81
12.5mm cement plaster in c.m. - 1:4			per		

12.5 mm thick cement sand plastering works a) Cement sand ratio - 1:6	skilled	m.d.	12.00	1100.00	13200.00
	Unskilled	m.d.	16.00	880.00	14080.00
	cement	bag	7.640	1608.86	12291.67
	sand	cu.m	1.57	1922.06	3017.64
Item No.	per		Sub-Total		42589.31
8.3	100	sq.m.	Contract Rate (1.15)		
Norms-12(1d) page 110			U.Rate without VAT	sq.m.	425.89
1/2" cement plaster in c.m. - 1:6			per		

3 mm thick fine cement rubbing works	skilled	m.d.	1.00	1100.00	1100.00
	Unskilled	m.d.	1.00	880.00	880.00
	cement	bag	1.06	1608.86	1711.82
Item No.	per		Sub-Total		3691.82
8.8	10	sq.m.	Contract Rate (1.15)		
Norms-11(20) page 109			U.Rate without VAT	sq.m.	369.18
3mm cement punning			per		

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अ. स. इ. इंजिनियर

ई. केशव बहादुर श्रेष्ठ
इ. इंजिनियर

प्रमुख प्रसारकीय अधिकारी

9. PAINTING WORKS

2 coat white washing with gum in new surface			skilled	m.d.	1.875	1100.00	2062.50
a) in ceiling			Unskilled	m.d.	1.375	880.00	1210.00
			chuna	kg	22.00	41.67	916.72
			gum adhesive	kg	0.88	242.81	213.67
Item No.	per		Sub-Total				4402.89
9.1	100	sq.m.	Contract Rate (1.15)				
Norms-13(1b) page 114			U.Rate without VAT		sq.m.		44.03
2 coat white washing a) in ceiling			per				

2 coat white washing with gum in new surface			skilled	m.d.	1.50	1100.00	1650.00
a) in wall			Unskilled	m.d.	1.10	880.00	968.00
			chuna	kg	22.00	41.67	916.72
			gum adhesive	kg	0.88	242.81	213.67
Item No.	per		Sub-Total				3748.39
9.2	100	sq.m.	Contract Rate (1.15)				
Norms-13(1b) page 114			U.Rate without VAT		sq.m.		37.48
2 coat white washing a) in wall			per				

Water proof cement paint (Snowcem) application			skilled	m.d.	3.50	1100.00	3850.00
a) in one coat			Unskilled	m.d.	3.50	880.00	3080.00
			Snowcem	kg	30.00	98.17	2945.07
Item No.	per		Sub-Total				9875.07
9.3	100	sq.m.	Contract Rate (1.15)				
Norms-13(12a) page 120			U.Rate without VAT		sq.m.		98.75
1 coat Snowcem painting			per				

Water proof cement paint (Snowcem) application			skilled	m.d.	6.50	1100.00	7150.00
a) in 2 coats			Unskilled	m.d.	6.50	880.00	5720.00
			Snowcem	kg	50.00	98.17	4908.46
Item No.	per		Sub-Total				17778.46
9.4	100	sq.m.	Contract Rate (1.15)				0.00
Norms-13(12a,b) page 120			U.Rate without VAT		sq.m.		177.78
2 coats Snowcem painting			per				

Prepared enamel paint application in addition to one base or lining coat (primer)			skilled	m.d.	8.00	1100.00	8800.00
a) in one coat			Unskilled	m.d.	5.00	880.00	4400.00
			primer	litre	8.10	472.20	3824.81
			enamel	litre	9.00	667.69	6009.20
Item No.	per		Sub-Total				23034.01
9.5	100	sq.m.	Contract Rate (1.15)				
Norms-13(5a,b) page 117			U.Rate without VAT		sq.m.		230.34
1 coat enamel painting			per				

Prepared enamel paint application in addition to one base or lining coat (primer)			skilled	m.d.	12.00	1100.00	13200.00
a) in 2 coats			Unskilled	m.d.	8.00	880.00	7040.00
			primer	litre	8.10	472.20	3824.81
			enamel	litre	16.00	667.69	10683.03
Item No.	per		Sub-Total				34747.84
9.6	100	sq.m.	Contract Rate (1.15)				
Norms-13(5) page 117			U.Rate without VAT		sq.m.		347.48
2 coats enamel painting			per				

Prepared aluminium paint application work			skilled	m.d.	10.75	1100.00	11825.00
a) in 2 coats			Unskilled	m.d.	10.75	880.00	9460.00
			primer	litre	8.10	427.00	3458.69
			alumin.pnt	litre	10.76	682.38	7342.40
			Sand paper	nos.	4.00		31.10
Item No.	per		Sub-Total				32117.19
9.7	100	sq.m.	Contract Rate (1.15)				
Norms-13(6) page 117			U.Rate without VAT		sq.m.		321.17
2 coats aluminium painting			per				

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अ.स.व. इन्जिनियर

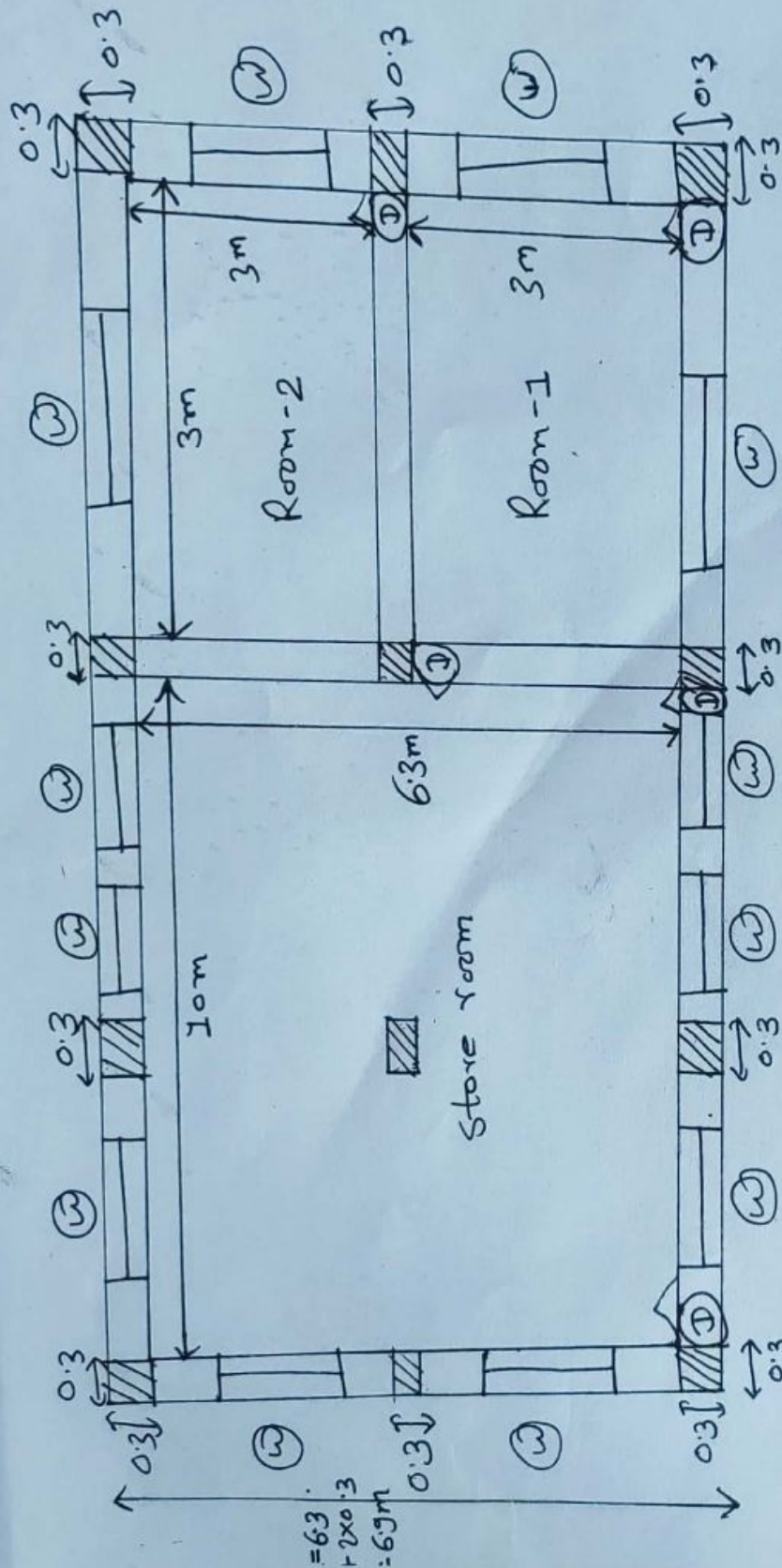
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इन्जिनियर

नरेश प्रकाश मिश्रा
प्रमुख प्रशासकीय अधिकारी

Prepared By

Checked By

Approved By



$$L = 10 + 3 + 3 + 0.3 = 13.9m$$

plan

Window no. = 12
Size = (1.5 x 1.5)m

Door no. = 5
Size = (1.1 x 2.1)m

Project name: Jadibuti Sankalan Kendra

Location: Barkot Rm

[Signature]
अ. स. व. इंजिनियरिंग

ई. केशव बहादुर श्रेष्ठ