

**Detail Estimate**

Name of Project : lekhdhawang Solar Pumping irrigation Project  
 Location : Runtigadhi 7, Lekhdhawang Rolpa  
 Year : 079/080

Date : 14 Feb. 2023

SN	Description	No.	Length	Breadth	Height	Quantity	Unit	Remarks
<b>A. Spring Intake (Type 002A) 2Nos</b>								
1	Site Clearance	1	1.75	2.70	0.40	1.89	m <sup>3</sup>	
2	Earth work excav. <sup>n</sup> in foundation							
2.1	For wing wall	2	1.50	0.60	0.75	1.35		
						<b>3.24</b>	m <sup>3</sup>	
3	Stone Soling work for VC							
3.1	In catchment foundation.	2	1.50	1.00	0.15	0.45		
3.2	In the catchment frontside	1	3.00	2.00	0.75	4.50		
						<b>4.95</b>	m <sup>3</sup>	
4	PCC (1:2:4)							
4.1	For wing wall	2	1.50	0.40	0.08	0.09		
						<b>0.09</b>	m <sup>3</sup>	
5	RCC work in Intake/ VC slab in 1:2:4	0	1.70	2.65	0.08	0.00		
						<b>0.00</b>	m <sup>3</sup>	
	Deduction mainhole cover	0	0.60	0.60	0.08	0.00		
	<b>Net RCC work</b>					<b>0.00</b>		
6	Stone masonry (1:4 ) c/m							
6.1	For wing wall	2	1.50	0.35	0.75	0.79		
						<b>0.79</b>	m <sup>3</sup>	
7	Cement Plaster in (1:4 )							
7.1	Inside wing wall	4	1.50		0.75	4.50		
7.2	Wing wall top	2	1.50	0.35	0.75	0.79		
						<b>5.29</b>	m <sup>2</sup>	
8	Cement punning in (1:1)							
8.1	Inside wall	4	1.50		0.75	4.50		
						<b>4.50</b>	m <sup>2</sup>	
9	Re bar 10mm for slab work							
9.1	10 mm dia MS rod	1		0.00		0.00		
						<b>0.00</b>	Kgs	
10	Form work for shuttering							
10.1	For intake	0	1.70	2.65		0.00		
10.2	Intake Slab	0	1.00	1.00		0.00		
10.3	VC Slab	0	1.00	0.60		0.00		
						<b>0.00</b>	m <sup>2</sup>	
11	60cm dia man hole cover round					<b>0.00</b>	Sets	
12	Binding Wire 1% of Tor Steel					<b>0.00</b>	Kgs	
13	Nails 4"					<b>0.00</b>	Kgs	
14	Pipe line trench excavation & filling work	1	198.00	0.25	0.75	37.13		
						<b>37.13</b>	m <sup>3</sup>	
<b>B. lifting Tank construction</b>								
1	Site Clearance	1	4.90	4.90	0.25	6.00		
						<b>6.00</b>	m <sup>3</sup>	
2	Earth work excav. <sup>n</sup> in foundation							
2.1	In the RVT foundation	1	4.90	4.90	0.50	12.01		
2.2	In the HDPE casing foundation	1	2.00	2.00	3.96	15.85		
						<b>27.86</b>	m <sup>3</sup>	
3	Stone Soling work	1	4.90	4.90	0.15	3.60		
						<b>3.60</b>	m <sup>3</sup>	
4	PCC work in 1:2:4	1	4.90	4.90	0.08	1.80		

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						1.80	m <sup>3</sup>	
<b>5</b>	<b>RCC work of slab in 1:2:4</b>							
5.1	For valve box slab	1	4.90	4.90	0.08	1.8		
						<b>1.80</b>	<b>m<sup>3</sup></b>	
	<b>Net RCC work</b>					<b>1.80</b>	<b>m<sup>3</sup></b>	
<b>6</b>	<b>Stone masonry work in 1:4 c/m</b>							
6.1	1stp long wall	2	4.90	0.45	0.50	2.21		
6.2	1stp Short wall	2	4.00	0.45	0.50	1.80		
6.3	2stp long wall	2	4.70	0.35	0.90	2.96		
6.4	2stp Short wall	2	4.00	0.35	0.90	2.52		
						<b>9.49</b>	<b>m<sup>3</sup></b>	
<b>7</b>	<b>Cement Plaster in work in 1:4</b>							
7.1	Inside long wall	4	4.00		1.40	22.40		
7.2	Inside floor	1	4.00	4.00		16.00		
7.3	For outside wall	4	4.63		1.40	25.90		
7.4	For outside slab top	1	4.70	4.70		22.09		
						<b>86.39</b>	<b>m<sup>2</sup></b>	
<b>8</b>	<b>Cement punning in 1:1</b>							
8.1	For inner wall	4	4.00		1.40	22.40		
8.2	For RVT inside floor	1	4.00	4.00		16.00		
						<b>38.40</b>	<b>m<sup>2</sup></b>	
<b>9</b>	<b>Re. bar 10mm dia for RVT</b>							
9.1	For slab cover Longitudinally	31	4.70	@	0.62	91.31		
9.2	For Transversely	31	4.70	@	0.62	91.31		
						<b>182.62</b>	<b>Kgs</b>	
<b>10</b>	<b>Form work for shuttering</b>							
10.1	For out side	2	16.80	0.10		3.36		
10.2	For inside	1	4.00	3.00		12.00		
						<b>15.36</b>	<b>m<sup>2</sup></b>	

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## Summary Sheet

Name of Project : lekhdhawang Solar Pumping irrigation Project

Location : Runtigadhi 7, Lekhdhawang Rolpa

Year : 079/080

SN	Description	Unit	Qty	Remarks
<b>1</b>	<b>Materials</b>			
<b>A</b>	<b>Nonlocal materials</b>			
1	Cement 53 gred opc	Bags	116.00	
2	10 mm dia ms rod	kg	182.62	
3	22gauge binding wire	kg	3.00	
4	2 1/2" nails	kg	1.50	
5	60 cm dia main holcover	Set	1.00	LS
6	Barabed wire finishing	Kgs	33.01	
7	Iron angle pole	Kgs	420.00	28 Nos LS
8	Iron get 3'*5' pipe mould	Nos	1.00	LS
<b>B</b>	<b>Pipe</b>			
	<b>Main line</b>			
1	63mm dia PN - 16 HDPE pipe NS - 40	m	198.36	
2	25mm dia PN -16 HDPE Pipe NS - 40	m	500.00	
3	50mm dia GI pipe NS	m	360.00	
			<b>1058.36</b>	
<b>C</b>	<b>Intake outlet Fittings</b>			
1	2" dia HDPE strainer	Pc	1	LS
2	2"dia GI socket	Pc	1	
3	2" dia GI nipple 45cm long	Pc	2	LS
4	2" dia GI nipple 3" long	Pc	2	
5	2" dia GM gate valve	Pc	1	
6	2" dia Flange set	Pc	5	
7	2" dia GI union ISI	Pc	1	
<b>D</b>	<b>Lifting tank fittings</b>			
1	2" dia GI nipple 45cm long	Pc	3	
2	2 1/2" GI Nipple 2.75m long	Pc	1	
3	2 1/2" GI Nipple 4" long	Pc	2	
4	2 1/2" GI Elbow	Pc	1	
5	2 1/2" GM gatevalve	Pc	1	
6	2 1/2" * 2" Reducer socket	Pc	1	
7	2" dia G I Cap	Pc	2	
	<b>Sub total</b>			
	<b>13% VAT</b>			
	<b>Total amaunt with VAT (A+B+C+D)</b>			
<b>E</b>	<b>Solar items for pumping (10HP)</b>			
<b>E.A</b>	<b>Supply of Vat able Materials (without VAT)</b>			
1	Submersible water pump (Model: TPSLPW 660R/ 22 Three	Nos.	1	2 years
2	INVT (Controller) 7.50 KW (Model GD100-018G-4-PV Or	Nos.	1	2 years
3	3 Core Submersible PVC insulated Power Cable 10 mm2,	M	10	

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4	2 Core Submersible PVC insulated Power Cable 10 mm <sup>2</sup> ,	M	115	
5	Solar Panel Mounting Structure Complete set (MS angle frame, squire & Circular pipe, J hook, U hook, Pipe Clamp	Set	30	
6	Installing materias Hardware items for fitting pump to delivery pipeline including Non return valve, elbow, sockets,	Job	1	
7	Grounding Earthing System For Panel & Pump, Inverter	Set	1	
8	DC Cable For Serises Panel	M	25	
9	Water Flat Switch (Sensor) Dry Run Protection	Nos.	1	
10	Water Flat Switch (Sensor) wire 1.5mm	M	15	
11	Mounting Structure with PCC base Foundation for	Job	1	
12	Miscellaneous (Insulation Tap ,Submersible Tap, Yam seal,	LS	1	
13	Installation of Earthings set, Pumps and Solar Panels with all hardware component as per necessary and Testing &	Job	1	
14	HDEP Cashing Pipe-PN 6, 250mm-13 Feet With Fitting Items and Earthwork excavation in back filling in Foundation, Complate works	Nos	1	
<b>Sub Total Amount Without VAT</b>				
			VAT @ 13%	
<b>Total Amount With VAT(EA)</b>				
<b>E.B</b>	<b>Supply of Non-Vat able Materials &amp; Installation</b>			
1	Solar PV module RETS Certified (25 years Warranty) - 325	KW	10.73	25 Years
<b>Total Amount Without VAT (EB)</b>				
<b>Total Amount (EA+EB)</b>				
<b>2</b>	<b>Local materils</b>			
2.1	Stone	M <sup>3</sup>	21.43	
2.2	Sand	M <sup>3</sup>	11.62	
2.3	Aggregate	M <sup>3</sup>	9.20	
2.4	Wood for form work	M <sup>3</sup>	0.77	
<b>Sub Total</b>				
<b>3</b>	<b>Labours</b>			
3.1	Skill	Md.	56.43	
3.2	Unskill	Md.	606.41	
<b>Sub Total</b>				
<b>4</b>	<b>2" dia GI pipe joining &amp; wilding work</b>	<b>Nos</b>	<b>61</b>	
<b>5</b>	<b>Transportation</b>			
5.1	Nonlocal materials Ghorahi to site	Trip	2.00	
5.2	Solar items for pumping Ghorahi to site	Trip	1.00	
<b>Sub total</b>				
<b>6</b>	<b>Information board</b>	Job	1.00	
<b>Total amount of (2+3+4+5+6)</b>				
<b>All total amount of (1+2+3+4+5+6)</b>				
<b>Miscellaneous 2.5%</b>				
<b>In%</b>				

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