

Detail Estimate

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

Date : 2079/04/16

SN	Description	No.	Length	Breadth	Height	Quantity	Unit	Remarks
A. Spring canaling								
1	Site Clearance & RVT (10.50m3)	1	30.00	0.50	0.40	6.00	m ³	
2	Earth work excav. ⁿ in foundation							
2.1	In the canal	1	30.00	0.50	0.50	7.50		
2.2	In the filting RVT 1st lear	1	4.00	4.00	2.50	40.00		
2.3	In the filting RVT 2nd lear	1	3.90	3.90	0.50	7.61		
						61.11	m ³	
3	Stone Soling work for VC	1	3.90	3.90	0.15	2.28		
						2.28	m ³	
4	PCC (1:2:4)							
4.1	In the canal base	1	30.00	0.30	0.08	0.68		
4.2	In the canal wal	1	30.00	0.10	0.10	0.30		
4.3	In the lifting RVT	1	3.90	3.90	0.08	1.14		
						2.12	m ³	
5	RCC work in RVT slab in 1:2:4	1	3.90	3.90	0.08	1.14		
						1.14	m ³	
	Deduction mainhole cover	1	0.60	0.60	0.08	0.03		
	Net RCC work					1.11	M ³	
6	Stone masonry (1:4) c/m							
6.1	long wall	2	3.90	0.35	1.40	3.82		
6.2	Short wall	2	3.00	0.35	1.40	2.94		
						6.76	m ³	
7	Cement Plaster in (1:4)							
7.1	In the inside wall	4	3.00		1.40	16.80		
7.2	In the inside floor	1	3.00	3.00		9.00		
7.3	In the outside wall	4	3.90		1.40	21.84		
7.4	In the top of RVT	1	3.90	3.90		15.21		
						62.85	m ²	
8	Cement punning in (1:1)							
8.1	In the inside wall	4	3.00		1.40	16.80		
8.2	In the inside floor	1	3.00	3.00		9.00		
						25.80	m ²	
9	Re bar 10mm for slab work							
9.1	10 mm dia MS rod	1		87.14		87.14		
						87.14	Kgs	
10	Form work for shuttering							
10.1	In the outside edge of wall	4	3.90	0.10		1.56		
10.2	In the RVT Slab	1	3.00	3.00		9.00		
						10.56	m ²	
11	60cm dia man hole cover round					1.00	Sets	
12	Binding Wire 1% of Tor Steel					2.00	Kgs	
13	Nails 4"					1.00	Kgs	
14	Pipe line tranch excavation & filling work	1	161.00	0.25	0.75	30.19		
						30.19	m ³	
B. lifting Tank construction (37.50m3)								
1	Site Clearance	1	7.00	7.00	0.25	12.25		
						12.25	m ³	
2	Earth work excav. ⁿ in foundation							
2.1	In the RVT foundation	1	6.90	5.90	0.50	20.36		
2.2	In the HDPE cashing foundation	1	2.00	2.00	3.96	15.85		
						36.21	m ³	

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3	Stone Soling work	1	6.90	5.90	0.15	6.11		
						6.11	m³	
4	PCC work in 1:2:4	1	6.90	5.90	0.08	3.05		
						3.05	m³	
5	RCC work of slab in 1:2:4							
5.1	For valve box slab	1	6.90	5.90	0.08	3.05		
						3.05	m³	
	Net RCC work					3.05	m³	
6	Stone masonry work in 1:4 c/m							
6.1	1stp long wall	2	6.90	0.45	0.50	3.11		
6.2	1stp Short wall	2	5.00	0.45	0.50	2.25		
6.3	2stp long wall	2	6.70	0.35	0.95	4.46		
6.4	2stp Short wall	2	5.00	0.35	0.95	3.33		
						13.15	m³	
7	Cement Plaster in work in 1:4							
7.1	Inside long wall	2	6.00		1.45	17.40		
7.2	Short long wall	2	5.00		1.45			
7.3	Inside floor	1	6.00	5.00		30.00		
7.4	In the outside wall 1st step	2	6.90		0.50	3.45		
7.5	In the outside wall 1st step	2	5.90		0.50	2.95		
7.6	In the outside wall 2nd step	2	6.35		0.95	12.07		
7.7	In the outside wall 2nd step	2	5.35		0.95	10.17		
7.8	In the outside top of slab	1	6.70	5.70		38.19		
						114.23	m²	
8	Cement punning in 1:1							
8.1	In the inner long wall of RVT	2	6.00		1.45	17.40		
8.2	In the innerShort wall of RVT	2	5.00		1.45	14.50		
8.3	For RVT inside floor	1	6.00	6.00		36.00		
						53.40	m²	
9	Re. bar 10mm dia for RVT							
9.1	For slab cover Longitudinaly	0	6.70	@	0.62	0.00		
9.2	For Transversely	0	5.70	@	0.62	0.00		
						0.00	Kgs	
10	Form work for shuttering							
10.1	For out side	2	24.80	0.10		4.96		
10.2	Slab inside	1	6.00	5.00		30.00		
						34.96	m²	
11	60cm dia man hole cover round					1.00	Sets	
12	Nails 4"					1.50	Kgs	
C	Barabed wire finishing work for puping tank							
1	Earth work excav.n in foundation							
1.1	For iron gate pole	4	0.45	0.45	0.50	0.41		
1.2	For iron angle pole	40	0.30	0.30	0.45	1.62		
1.3	For pipe ancorage blucks	67	0.40	0.40	0.40	4.30		
						6.33	m3	
2	Stone solling work in Iron gate pole	4	0.45	0.45	0.15	0.12		
						0.12	m3	
3	PCC work in 1:2:4							
3.1	In the iron gate pole	4	0.45	0.45	0.08	0.06		
3.2	In the iron angle pole	40	0.30	0.30	0.45	1.62		
3.3	In the pipe ancorage blucks	67	0.30	0.30	1.00	6.05		
						7.73	m3	
4	Stone masonry work in 1:4 c/m							
4.1	In the iron gate pole	4	0.40	0.40	1.85	1.18		
						1.18	m3	

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5	Cement Plaster in work in 1:4							
5.1	In the gete wall	16	0.40		1.50	9.60		
5.2	In the gete wall top	4	0.40	0.40		0.64		
						10.24	m2	
6	Barabed wire	6	60.00	@	0.22	79.87		
7	lorn angle pole	40			7.50	300.00	Kgs	

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SUMMARY SHEET

Name of Project : Bage Solar Pumping irrigation Project

Location : Runtigadhi 7, Bage Rolpa

Year : 079/080

SN	Description	Unit	Qty	Remarks
1	Materials			
A	Nonlocal materials			
1	Cement 53 gred opc	Bags	206.00	
3	10 mm dia ms rod	kg	87.14	
4	22gauge binding wire	kg	5.00	
5	2 1/2" nails	kg	2.50	
6	60 cm dia main holcover	Set	2.00	LS
7	Barabed wire finishing	Kgs	79.87	
8	Iron angle pole	Kgs	300.00	40 Nos LS
9	Iron get 3'*5' pipe mould	Nos	1.00	LS
B	Pipe			
	Main line			
1	63mm dia PN - 16 HDPE pipe NS - 40	m	160.60	
2	50mm dia GI pipe NS	m	334.40	
			495.00	
C	RVT			
1	2" dia GI nipple 45cm long	Pc	6	
2	2 1/2" GI Nipple 2.15m long	Pc	1	
3	2 1/2" GI Nipple 4" long	Pc	3	
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 Flange set	Pc	6	
8	2" dia GI nipple 3" long	Pc	2	
9	2" dia G I Cap	Pc	3	
10	2" GM gatevalve	Pc	1	
	Sub total			
	13% VAT			
	Total amaunt with VAT (A+B+C+D)			
D	Solar items for pumping (15HP)			
D.A	Supply of Vat able Materials (without VAT)			
1	Submersible water pump (Model: TPSLPW 660R/ 22 Three phase Or Equivalent -	Nos.	1	2 years
2	INVT (Controller) 7.50 KW (Model GD100-018G-4-PV Or Equivalent) 11 KW	Nos.	1	2 years
3	3 Core Submersible PVC insulated Power Cable 10 mm2,	M	10	
4	2 Core Submersible PVC insulated Power Cable 10 mm2,	M	115	
5	Solar Panel Mounting Structure Complete set (MS angle frame, squire & Circular pipe, J hook, U hook, Pipe Clamp Cable tie etc)	Set	30	
6	Installing materias Hardware items for fitting pump to delivery pipeline including Non return valve, elbow, sockets, Gat valve, Nipple Flange Set &Tochan Wire	Job	1	
7	Grounding Earthing System For Panel & Pump, Inverter	Set	1	

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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 Supporting of Solar panel	Job	1	
12	Miscellaneous (Insulation Tap ,Submersible Tap, Yam seal, Glue, Water Tape	LS	1	
13	Installation of Earthings set, Pumps and Solar Panels with all hardware component as per necessary and Testing & Commissioning and Field verification	Job	1	
14	HDEP Cashing Pipe-PN 6, 250mm-13 Feet With Fitting Items and Earthwork excavation in back filling in Foundation, Complate works As per Direction, Inculding	Nos	1	
Sub Total Amount Without VAT				
			VAT @ 13%	
Total Amount With VAT(EA)				
D.B	Supply of Non-Vat able Materials & Installation			
1	Solar PV module RETS Certified (25 years Warranty) - 325 WP 48 Pcs	KW	15.60	25 Years
Total Amount Without VAT (EB)				
Total Amount (DA+DB)				
2	Local materils			
2.1	Stone	M ³	32.56	
2.2	Sand	M ³	21.20	
2.3	Aggregate	M ³	15.18	
2.4	Wood for form work	M ³	2.28	
Sub Total				
3	Labours			
3.1	Skill	Md.	100.06	
3.2	Unskill	Md.	393.45	
Sub Total				
4	2" dia GI pipe joining & wilding work	Nos	61	
5	Transportation			
5.1	Nonlocal materials Ghorahi to site	Trip	2.00	
5.2	Solar items for pumping Ghorahi to site	Trip	1.00	
Sub total				
6	Information board	Job	1.00	
Total amount of (2+3+4+5+6)				
All total amount of (1+2+3+4+5+6)				
Miscellaneous 2.5%				
In%				

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