

Shahid Lakhan Rural Municipality
Office of Rural Municipal Executive
Ghairung Gorkha

Preliminary Cost Estimate

Project Name:Dhadbari Lifting Water supply Scheme

Location. Shahid Lakhan-2, Mankamana

F:Y:076/77

Shahid Lakhan Rural Municipality

Ghairung, Gorkha

Detailed Estimate Report

Project Name: Dhadbari Lifting Water supply Scheme

Palace: Shahid Lakhan-2, Mankamana

Fiscal Year 2076/77

S.N	Description	No	Length	Breadth	Height	Quantity	Unit	Rate	Amount	Remarks
1	Procurements of Pipelines									
	20mm Dia/ 10 Kg/cm2 HDPE Pipe	1	550.00			550.00	M	52.45	28,847.50	
	32mm Dia/ 6 Kg/cm2 HDPE Pipe	1	2500.00			2500.00	M	86.68	216,700.00	
	40mm Dia/ 6 Kg/cm2 HDPE Pipe	1	1500.00			1500.00	M	135.99	203,985.00	
	50mm Dia/ 6 Kg/cm2 HDPE Pipe	1	600.00			600.00	M	210.60	126,360.00	
	75mm Dia/ 6 Kg/cm2 HDPE Pipe	1	2000.00			2000.00	M	462.77	925,540.00	
2	Settling Basin	1	3.00	2.50	2.00	15.00	M	113282.70	113,282.70	
3	Taps	160				135.00	Job	21914.57	21,914.57	
4	Distribution Tank	1				1.00	No	99078.99	99,078.99	
5	Power House	1				1.00	Job	563179.70	563,179.70	
6	RCC 100M3 Tank	2				2.00	Job	1564087.87	3,128,175.74	
7	Intake Works	1				1.00	Cum	49184.30	49,184.30	
8	Transportation of Pipes	1				1.00	LS	40000.00	40,000.00	
9	Earthwork Excavation and filling in hard soil	1	5500.00	0.45	0.45	1113.75	Cum	576.80	642,411.00	
10	Fittings							100000.00	100,000.00	
11	Procurement of plumbing material and fitting works	1				1.00		2417789.32	2,417,789.32	
12	Fencing Works	1				200.00	M	3298.06	659,612.00	
13	RCC column	100				100.00	No	6554.66	655,466.00	
14	Electrical Works all complete	1				1.00	Job	1015000.00	1,015,000.00	
	Total Cost								11,006,526.82	

Prepared By :-

Checked By :-

Approved By :-

COST ESTIMATES OF RCC INTAKE WITH COLLECTION CHAMBER

Project Name:Dhadbari Lifting Water supply Scheme

Wall Height= 0.90

Wall thickness of Dam= 0.2

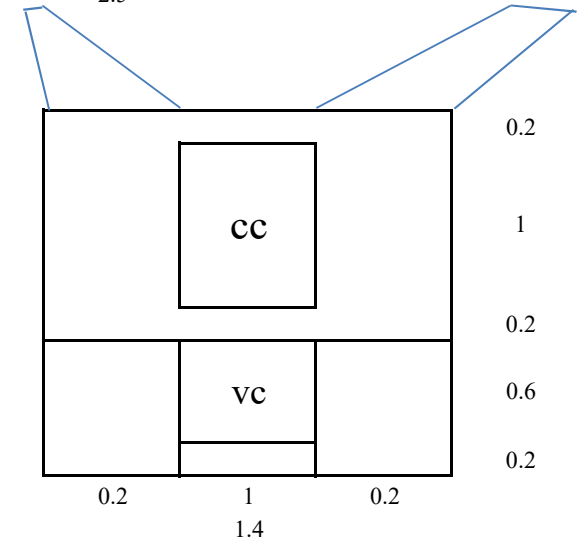
Wall Thickness of CC = 0.15

Dam length = 2.95

S N	Description of work	No	L (m)	B (m)	H (m)	QNTTY	Unit	Rate Rs	Amount Rs	norms no.
1	Site Clearance	1				1	job	1000	1000.00	LS
2	Excavation work in GBM soils									
	Dam weith catchment	1	2.95	0.00	0.90	0.00				
	Collection chamber	1	2.60	1.40	0.90	3.28				
	washout pipe trench	1	0.00	0.45	0.60	0.00				
						3.28	m ³	576.80	1891.90	2.14
3	Boulder Soling									
	Collection chamber	1	2.60	1.40	0.15	0.55				
						0.550	m ³	3224.45	1773.45	6.5b
4	PCC in (1:2:4) for									
	Catchment portion	1	2.60	1.40	0.10	0.36				
						0.360	m ³	15504.60	5581.66	7.2d
5	RCC in (1:2:4) for									
	Dam	1	2.95	0.20	0.90	0.531				
	C/C foundation	1	2.60	1.40	0.15	0.546				
	Wall portion of C/C	2	2.60	0.15	0.90	0.702				
	"	2	1.00	0.15	0.90	0.270				
	Slab portion of C/C	1	2.60	1.40	0.10	0.364				
						2.413	m ³	20835.52	50276.11	7.4a
6	MS bar for RCC works for				<u>kg/m</u>					
	Dam - 10mm	33	0.90		0.62	18.414				
	10mm ϕ horizontal bars	10	2.6		0.62	16.120				
	Base of C/C-	8	2.60		0.62	12.896				
	"	0	1.40		0.62	0.000				
	Wall of C/C- 10 mm	29	0.90		0.62	16.182				
	" " "	10	0.90		0.62	5.580				
	'10 mm	10	2.60		0.62	16.120				
	"	10	1.00		0.62	6.200				
	Slab-	0	1.40		0.62	0.000				
	10 mm ϕ bars	8	2.60		0.62	12.896				

Dam height= 1.1

2.5



COST ESTIMATES OF RCC INTAKE WITH COLLECTION CHAMBER

Project Name:Dhadbari Lifting Water supply Scheme

Dam height= 1.1

2.5

Wall Height= 0.90

Wall thickness of Dam= 0.2

Wall Thickness of CC = 0.15

Dam length = 2.95

						104.408	Kg	184.44	19257.01	7.5	
7	Formwork for concreting work for										
	Dam	2	2.95	0.90		5.310					
	C/C wall portion inside	1	4.00		0.90	3.600					
		1	3.20		0.90	2.880					
	C/C wall portion outside	1	2.80		0.90	2.520					
	Slab bottom	1	1.00		1.00	1.000					
	"	1	1.00		1.00	1.000					
	Sides of slab	1	2.8		0.10	0.280					
						16.590	m ²	816.02	13537.77	8.2a	
8	12.5mm plaster in 1:3 c/s mortar for										
	Dam	2	2.95		0.90	5.310					
	Top of dam	1	2.95		0.20	0.590					
	Floor portin of C/C	1	1.00	1.00		1.00					
	Wall portion of C/C	2	4.00		0.90	7.20					
	Outside of C/C	1	2.80		0.90	2.52					
						16.620	m ²	382.93	6364.30	12.1b	
9	3mm punning with 1:1 c/s mortar										
	Dam	1	2.95		0.90	2.655					
	Floor portin of C/C	1	1.00	1.00		1.00					
	Wall portion of C/C	1	4.00		0.90	3.60					
						7.26	m ²	277.56	2015.09	11.20	
12	Installation of Pipes & fittings					1	Job	3000.00	3000.00	ls	
13	60 cm ϕ Manhole cov	2				2	set	3500.00	7000.00	mh60	
	procuring, fixing at place,										
Total Basic Cost									111697.29		



COST ESTIMATES OF BARBED FENCING WITH MS ANGLE POLES (TYPE-1)

Project Name:Dhadbari Lifting Water supply Scheme

Fencing length (m) :

200

Spacing of Poles (m):

1.5

S N	DESCRIPTION	No	L (m)	B (m)	H (m)	QUANTT	Unit	Rate Rs	Amount Rs	norms no.
1	Site Clearance	1	200.00	1.00		200.00	m ²	95.58	19116.00	1.8
2	E/W in excavation in GBM s	135	0.35	0.35	0.60	9.92	m ³	576.80	5721.86	2.14
3	Boulder soling	135	0.35	0.35	0.10	1.65	m ³	3224.45	5320.34	6.5b
4	PCC (1:2:4) for anchor block	135	0.35	0.35	0.90	14.88	m ³	15504.60	230708.45	7.2d
6	MS Angle poles (ISA 40x40)	135	2.50	@ 6.58 kg/m		2119.50	kg	130.00	275535.00	isa406
7	Barbed wire fencing to Angle poles									
	horizontals	938	1.50			1407.00				
	diagonals	268	2.12			568.16				
						1975.16	m	62.38	123210.48	24.7
Total Basic Cost of Fencing									659612.13	
Basic Rate/metre of fencing									3298.06	

ANGLE POLE WITH GRILL GATE FOR FENCE

S N	DESCRIPTION	No	L (m)	B (m)	H (m)	QUANTT	Unit	Rate Rs	Amount Rs	norms no.
1	E/W in excavation in hard so	2	0.60	0.60	0.50	0.36	m ³	576.80	207.65	2.12
2	PCC (1:2:4) for anchor block	2	0.25	0.25	0.45	0.06	m ³	15504.60	930.28	7.2d
3	MS Angle poles (ISA 40x40x6) with welding & fixing of holdfast	2	2.50	@ 6.28 kg/m		31.40	kg	184.44	5791.42	isa406
4	25x25x3 Angle framed gate with all complete grill shutter (0.95x1.5m)	1				25	Kg	130.00	3250.00	gril
Total Basic Cost									10179.35	

PCC BLOCK PIPE ANCHORAGE

Project Name:Dhadbari Lifting Water supply Scheme

[illegible]

COST ESTIMATES FOR ELECTRIFICATION WORKS

Project Name:Dhadbari Lifting Water supply Scheme

S. No.	Description	Unit	Qty	Unit Rate	Ammount Rs.	Remarks Norms No
C	<u>Electro-Mechanical work</u>					
1	Supply of Submersible pump (20 HP,35stage) with all acessories	set	2	400000.00	800000.00	
8	Transportation & installation of generator with necessary equipment & accessories	Job	1	45000.00	45000.00	
	Sub - Total for 1 Pump Station				1015000.00	
	Total Cost				1065000.00	

Quantity Estimate & Abstract of Cost

Distribution Chamber

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2.00 m³

1.40 1.40 1.10 2.16

[illegible]

Detailed Estimate
Construction of public Taps

Project Name: Dhadbari Lifting Water supply Scheme

S.N	Description	No	Length	Breadth	Height	Quantity	Unit	Rate	Amount	Remarks
1	;fx f] k sf/sf] df6f]df hu vGg] sfd									
a	kn]6 km{ddf		1.65	1.95	0.35	1.13				
b	jf,cfp6		4.0	0.35	0.50	0.70				
	hDdf					1.83	3=ld=	576.80	1055.54	
2	9'+uf ;f]nL ^a ug]]{ sfd		1.65	1.95	0.20	0.64	3=ld=	3224.45	2063.65	
3	!M@M\$ sf] l;d]G6 d;nfn] lk=l;=l;=ug]]{ sfd									
	e"Odf		1.65	1.75	0.1	0.29				
	lsgf/fdf		4.05	0.1	0.10	0.04				
	jfndflysf] ;a}		1.65	0.45	0.05	0.04				
	hDdf					0.37	3=ld=	17242.19	6379.61	
4	9'Ëfsf] uf/f] l;d]G6 d;nf - !M\$_ df nufpg] sfd									
	8f]sf] /fVg] jfn		1.65	0.45	0.60	0.45				
	kf]i6df		0.35	0.45	1.0	0.16				
	hDdf					0.61	3=ld=	10576.00	6451.36	
5	!@=% dL=dL= l;d]G6 afn'jf -!M\$_ Knfi6/									
	kn]6 km{ddf		1.65	1.3		2.14				
	jfndflysf] ;a}		1.65		2.15	3.47				
	lsgf/fdf b'a}] efudf		4.05		0.10	0.41				
			1.6		1.0	1.60				
	hDdf					7.62	j=ld=	382.93	2917.9266	
6	# dL=dL= df]6fO{ d;Lgf] l;d]G6l;d]G6 afn'jf -!M!_df 3f]6\g] sfd									
	jfndfly		1.65		0.45	0.74				
	jfnf] cuffl8sf] efudf		1.65		0.65	1.07				
	kf]i6s rf/ efudf		1.6		1	1.60				
	hDdf					3.41	j=ld=	277.56	946.48	
7	dflg;å/f kfO{ksf] u'gf sf6\g] / hf]8g] sfd s"n hDdf					3.00	Dof,g	700.0	2100.0	
									21914.57	

Estimated by :-

Checked by :-

Approved by :-

Detailed Estimate

Project Name: Dhadbari Lifting Water supply Scheme

Intake

Palace: Shahid Lakhan-2, Mankamana

S.N	Description	No	Length	Breadth	Height	Quantity	Unit	Rate	Amount	Remarks
1	Earthwork Excavation in hard Soil									
			3.00	2.50	1.50	11.25				
	Total					11.25	m3	576.80	6,489.00	
2	Stone Soling Works		2.00	1.80	0.15	0.54	m3	3224.45	1,741.20	
3	PCC works 1:2:4 ratio									
	Intake Floor		2.00	1.80	0.08	0.29			-	
	Slab Cover		1.80	1.60	0.08	0.23				
	Total					0.52	m3	17242.19	8,965.94	
4	Stone Masonary in 1:4 C/S mortar								-	
	Intake		4.50	0.40	0.90	1.62			-	
	Total					1.62	m3	10576.00	17,133.12	
5	12.5mm Thick plaster Works								-	
	Intake floor		1.20	1.20		1.44			-	
	Inside wall		4.50		0.90	4.05			-	
	Outside wall		5.10		0.90	4.59			-	
	Total					10.08	m2	382.93	3,859.93	
6	Filling with boulder works		1.20	1.20	0.80	1.15	m3	3,224.45	3,708.12	
7	3mm thick 1:1 cement sand punning works									
	Intake floor	1	1.20	1.20		1.44				
	Inside wall	1	3.00		0.80	2.40				
	Total	Nos				3.84	m2	277.56	1065.83	
8	10mm dia Rebar		L	T.L	kg/m					
		17.00	1.60	27.2						
		17.00	1.60	27.2						
	Total			54.4	0.62	33.73	Kg	184.44	6221.16	
Total Cost of Intake Construction									49,184.30	

Prepared By :-

Checked By :-

Approved By :-

Project Name:Dhadbari Lifting Water supply Scheme

Project Name:Dhadbari Lifting Water supply Scheme

Project Name:Dhadbari Lifting Water supply Scheme

Total Basic Cost

Detailed Estimate

Project Name: Dhadbari Lifting Water supply Scheme

Sedimentation Tank

Palace: Shahid Lakhan-2, Mankamana

S.N	Description	No	Length	Breadth	Height	Quantity	Unit	Rate	Amount	Remarks
1	E/W excavation for foundation in GBM soils									
			3.00	2.50	2.00	15.00				
	Total					15.00	m3	576.80	8,652.00	
2	Stone Soling Works		3.00	2.50	0.15	1.13	m3	3224.45	3,643.63	
3	PCC works 1:2:4 ratio									
	Tintake Floor		3.00	2.50	0.08	0.60			-	
	Slab Cover		3.00	2.50	0.10	0.75				
	Total					1.35	m3	17242.19	23,276.96	
4	Stone masonry in 1:4 C/S mortar								-	
	Long Wall	2	4.00	0.50	0.90	1.80			-	
		2	4.00	0.40	1.10	1.76				
	Short wall	2	1.50	0.50	0.90	0.68				
		2	1.50	0.40	1.10	0.66				
	Side wall	1	1.50	0.40	2.00	1.20				
	Total					6.10	m3	10576.00	64,513.60	
5	12.5mm Thick plaster Works								-	
	Long Wall	4	2.60		0.90	2.34			-	
		4	2.60		1.10	2.86			-	
	Short wall	4	1.50		0.90	1.35				
		4	1.50		1.10	1.65				
	Side wall	2	1.50		1.50	2.25				
	Total					10.45	m2	382.93	4,001.62	
6	3mm thick 1:1 cement sand punning works									
	Tank Floor	1	2.60	1.50		3.9			-	
	Long Wall	2	2.60		1.10	2.86			-	
		2	2.60		1.10	2.86			-	
	Short wall	2	1.50		1.10	1.65				
		2	1.50		1.10	1.65				
	Side wall	2	1.50		1.50	2.25				
	Total					15.17	m2	0.00	-	
	Total	Nos				6.76	m2	277.56	1876.31	
7	10mm dia Rebar		L	T.L	kg/m					
		20.00	1.60	32						
		20.00	1.60	32						
	Total			64	0.62	39.68	Kg	184.44	7318.58	
Total Cost of setelling basin Construction									113,282.70	

Prepared By :-

Checked By :-

Approved By :-

COST ESTIMATES OF RCC RESERVOIR TANK

Project Name: Dhadbari Lifting Water supply Scheme

Palace: Shahid Lakhan-2, Mankamana

S	DESCRIPTION	No	Rad.	L	B	H	QNTTY	Unit	Rate	Amount
N			(m)	(m)	(m)	(m)			Rs	Rs
	Wall Height =	2.0			100				Wall Thickness =	
	Inside Dia. =	5.8		(Gross Volume =	58.9	Cum)			Dome Height =	
1	Site Clearance	1					1	job	5000	5000.00
2	Excavation work in GBM soils									
	VC	1		1.70	1.50	1.30	3.315			
	Tank	1	3.60			2.00	81.430			
	washout pipe trench	1		10.00	0.60	0.90	5.400			
							90.145	m ³	1048.13	94483.68
3	Back filling with loose soils	1				2.00	31.337	m ³	164.80	5164.34
										0.00
4	Boulder Soling with sand									
	VC	1		1.70	1.50	0.15	0.383			
	Tank	1	3.60			0.20	8.143			
	deduction for VC portion	1		1.70	0.40	0.20	-0.136			
							8.390	m ³	11880.08	99673.87
5	RRM in 1:6 c/s mortar in VC	1		3.00	0.35	0.60	0.630	m ³	13338.49	8403.25
6	PCC(1:3:6) work as Lean Concrete for floor	1	3.40			0.10	3.632	m ³	17001.62	61749.88
7	PCC (1:2:4) in RCC components									
	cover slab of VC	1		1.70	1.50	0.08	0.204			
	pipe embedment blocks	2		1.00	0.35	0.20	0.140			
	manhole cover	2	0.30			0.05	0.028			
	deduction for MH opening	1	0.30			0.10	-0.028			
							0.344	m ³	18667.83	6421.73
8	PCC (1:1.5:3) for RCC components									
	Base slab	1	3.40			0.25	9.079			
	Circular wall	1	3.10			2.00	7.791			
	Haunch at base	0.5		16.96	0.20	0.20	0.339			
	Circular dome beam	1		19.48	0.30	0.20	1.169			
	Conical roof slab	1	3.10				6.321			
	Deduction for Manhole cover	1	0.30				-0.057			
							24.643	m ³	24742.86	609738.30
9	Formwork for concreting work									
	bottom of cover slab of VC	1		1.00	0.80		0.800			
	sides of cover slab of VC	1		6.40		0.10	0.640			
	sides of base slab of tank	1	3.40	21.36		0.25	5.341			
	tank walls	2	3.40	21.36		2.00	85.451			
	soffit of conical roof slab	1	2.90				27.831			
	deduction for MH cover	1	0.30				-0.283			
							119.780	m ²	831.44	99589.88
10	Scaffolding work						1	job	25000.00	25000.00
	Wall Height =	2.0			0				Wall Thickness =	
	Inside Dia. =	5.8		(Gross Volume =	58.9	Cum)			Dome Height =	
11	Reinforcement work in RCC components					kg/m				
(1)	12mm @ 150 c/c both ways on both faces of b	155		4.35		0.89	598.525			

Palace: Shahid Lakhan-2, Mankamana

[illegible]

F/Y 2076/77

S.N.	Descriptions of Works	No.	Length	Breadth	Height	Quantity	Unit	Rate	Amount	Remarks
1	wf/fsf] lkml6 ^a									
	wf/fsf] lkml6 ^a									
	GI Pipe 1/2" dia	192	2.5			480.00	m	249.6	119808.0	
	GI Elbow 1/2 " dia	140				140.00	nos	54.6	7644.0	
	GI Socket 1/2" dia	140				140.00	nos	49.3	6902.0	
	Union 1/2 "	410				410.00	nos	272.9	111889.0	
	Brass tap 400 gm	140				140.00	nos	861.6	120624.0	
	Water Flow Meter	135				135.00	nos	1782.5	240637.5	
	Nipple 1/2"@4"	410				410.00	nos	1116.7	457847.0	
	1/2" Gate Valve	135				135.00	nos	58.7	7924.5	
	75x1/2" Schedule HDPE	4				4.00	nos	460.0	1840.0	LS
	50x1/2" Schedule HDPE	40				40.00	nos	431.3	17252.0	LS
	40x1/2" Schedule HDPE	40				40.00	nos	402.5	16100.0	LS
	32x1/2" Schedule HDPE	40				40.00	nos	345.0	13800.0	LS
	25x1/2" Schedule HDPE	15				15.00	nos	249.6	3744.0	LS
2	Og6]ssf] lkml6 ^a									
	Intake									
	GI Pipe 1.5"	1	3.00			3.00	m	220.80	662.40	
	Union 1.5"	5				5.00	nos	342.70	1713.50	
	Flangeset GI/HDPE	2				2.00	m	635.95	1271.90	
	Nipple 1.5"	9				9.00	nos	129.95	1169.55	
	GM Gate valve 1.5"	3				3.00	nos	4851.85	14555.55	
	GI Socket 1.5" dia	3				2.00	nos	175.95	351.90	
	hDdf									
3	d]gxf]n se/ -^)*^)_ +	2				2	nos	3500.00	7000	
4	;]l8d]G6;g 6]ssf] lkml6 ^a									
	GI Pipe 1.5" inlet/outlet over fl	3				3.00	m	631.56	1894.68	
	Gate Valve 1.5"	3				3.00	nos	1512.62	4537.86	
	GI Union 1.5" MC	2				2.00	nos	129.95	259.90	
	Flangeset 1.5" Gi/HDPE OD	1				1.00	nos	635.95	635.95	
	Nipple 2" HC 1.5"	4				4.00	nos	34.50	138.00	
	hDdf									
5	d]gxf]n se/ -^)*^)_ +	2				2	nos	4025.00	8050	
	RVT Fittings									
	GI Pipe 3"	1	2000.00			2000.00	m	428.95	857900	Dist. Rate
	Union 3"	4				1.00	nos	644.00	644	Dist. Rate
	Flangeset GI/HDPE	2				1.00	nos	120.75	120.75	Dist. Rate
	Nipple 3"	7				1.00	nos	117.30	117.3	Dist. Rate
	GM Gate valve 3"	2	0.70			1.40	m	428.95	600.53	Dist. Rate
	GI Socket 3" dia	3				2.00	nos	87.40	174.8	Dist. Rate
	4" Long Nipple 3"	9				9.00	nos	171.35	1542.15	Dist. Rate
	Gate Valve 3"	2				2.00		2371.30	4742.6	Dist. Rate
	GI Pipe 1/2" dia	1	6.00			6.00	m	428.95	2573.7	Dist. Rate
	G.I Socket3"	6				6.00	nos	1070.65	6423.9	Dist. Rate
	GI Elbow 3" dia	7				7.00	nos	1641.05	11487.35	Dist. Rate
	3" X 1/2 unequal TEE	2				2.00	nos	1427.15	2854.3	Dist. Rate
	G.I Socket 1/2"	3				3.00	nos	60.95	182.85	Dist. Rate
	GI Elbow 1/2 " dia	4				4.00	nos	67.85	271.4	Dist. Rate
	1/2" TEE	1				1.00	nos	104.65	104.65	Dist. Rate
	1/2" Union	3				3.00	nos			

Sahid Lakhan Rural Municipality

Gorkha

RATE ANALYSIS

2075/076

Item		Labour (L)				Materials (M)				Total (L+M)		
SN	Description	Category	m.d.	Rate	Cost	Type	Quantity	Unit Rate, Rs.	Cost, Rs.	Total Cost, Rs.	Unit	Norms
				per m.d.				Including	Including	Including		No.
				Rs.	Rs.			VAT	VAT	VAT (for UC)		DoLIDAR
a	ordinary soft soil- For 1 m ³	Unskill	0.50	700	350.00	Tools & Plant	3 % of labour cost		10.50	360.50		5.2-1.2.2(a)
b	Hard soil- For 1 m ³	Unskill	0.80	700	560.00	Tools & Plant	3 % of labour cost		16.80	576.80		5.2-1.2.2(b)
c	Soft Rock- For 1 m ³	Unskill	2.00	700	1400.00	Tools & Plant	3 % of labour cost		42.00	1442.00		5.2-1.2.2(c)
d	Medium Rock- For 1 m ³	Unskill	4.00	700	2800.00	Tools & Plant	3 % of labour cost		84.00	2884.00		5.2-1.2.2(d)
e	Hard Rock- For 1 m ³	Unskill	17.00	700	11900.00	Tools & Plant	3 % of labour cost		357.00	12257.00		5.2-1.2.2(e)
4	Stone Solling& Leveling	Unskill	1.25	700	875.00	Tools & Plant	3 % of labour cost		26.25	901.25		
						Blockstone	1.10	2112.00	2323.20	2323.20		
Total					875.00				2349.45	3224.45		49)17-6
5	Formworksof Local wood for Beam/Slab	Skill	0.150	980	147.00	Local Wood	0.0070	71085.60	497.60		m3	U/D+DoLIDAR
	For 1 Sq.m.	Unskill	0.200	700	140.00	Nails	0.25	125.66	31.42		kg	
Total					287.00				529.02	816.02		39)9.a
						Quantity of wood required for 1 sqm formwork = 0.0526 cum.						
						Wood can be used 6 times for the formwork and after then 25% cost						
						of the wood is recovered. So the quantity of wood required for 1 sqm = 0.00658 cum.						
6	Plain cement concrete work	Skill	1.00	980	980.00	Cement	0.22	20594	4530.68		MT	
	M10(P.C.C. 1:3:6)	Unskill	4.00	700	2800.00	Agg.40mm	0.65	5694.40	3701.36		cu.m	DoLIDAR
	and wall - For 1 m ³					Agg.20mm	0.24	5694.40	1366.66		cu.m	41.11A.a
						Sand	0.47	4523.20	2125.90		cu.m	
Total					3780.00				11724.60	15504.60		
7	Plain cement concrete work	Skill	1.00	980	980.00	Cement	0.32	20594	6590.08		MT	
	M15(P.C.C. 1:2:4)	Unskill	4.06	700	2842.00	Agg.40mm	0.52	5694	2960.88		cu.m	DoLIDAR
	and wall - For 1 m ³					Agg.20mm	0.22	5694	1252.68		cu.m	41.11A.b
						Agg.10mm	0.11	5694	626.34		cu.m	
						Sand	0.44	4523.20	1990.21		cu.m	
Total					3822.00				13420.19	17242.19		
8	Plain cement concrete work	Skill	1.00	980	980.00	Cement	0.40	20594	8237.60		MT	
	M20(P.C.C. 1:1 ¹ / ₂ :3) in foundation	Unskill	5.12	700	3584.00	Agg.20mm	0.57	5694.00	3245.58		cu.m	DoLIDAR
	and wall - For 1 m ³					Agg.10mm	0.29	5694.00	1651.26		cu.m	41.11B.b
						Sand	0.425	4523.20	1922.36		cu.m	

Item		Labour (L)				Materials (M)				Total (L+M)		
SN	Description	Catagory	m.d.	Rate	Cost	Type	Quantity	Unit Rate, Rs.	Cost, Rs.	Total Cost, Rs.	Unit	Norms
				per m.d.				Including	Including	Including		No.
				Rs.	Rs.		VAT	VAT	VAT(for VC)		DoLIDAR	
Total					4564.00				15056.80	19620.80		
10	Stone masonry work in 1:6 cement mortar - For 1 m³	Skill	1.50	980	1470.00	Cement	0.092	20594	1894.65		MT	38-8-A.d
		Unskill	3.29	700	2303.00	Sand	0.50	4523	2261.50		cu.m	
						Blockstone	1.00	2112	2112.00		cu.m	
						Bondsotne	0.10	2112	211.20		cu.m	
Total					3773.00				6479.35	10252.35	cu.m	
17	12.5 mm thick cement plaster in 1:3 cement sand mortar -For 1 m² Total	Skill	0.150	980	147.00	Cement	0.00463	20594	95.35		MT	37)7-13.2.b
		Unskill	0.135	700	94.50	Sand	0.01380	4523	62.42		cu.m	DoLIDAR
					241.50				157.77	399.27	m2	
18	12.5 mm thick cement plaster in 1:4 cement sand mortar -For 1 m² Total	Skill	0.15	980	147.00	Cement	0.00363	20594	74.76		MT	37)7-13.2.c
		Unskill	0.1359	700	95.13	Sand	0.01460	4523	66.04		cu.m	DoLIDAR
					242.13				140.80	382.93		
19	20 mm thick cement plaster in 1:4cement sand mortar -For 1 m² Total	Skill	0.14	980	137.20	Cement	0.0081	20594	166.81		MT	Urban Devent
		Unskill	0.19	700	133.00	Sand	0.0220	4523	99.51		cu.m	I 4. 12(4)b
					270.20				266.32	536.52		
20	3 mm thick cement punning in 1:1 cement sand mortar - For 1 m²	Skill	0.10	980	98.00	Cement	0.00532	20594	109.56		MT	Urban Devent
		Unskill	0.10	700	70.00	Sand	-	4523	0.00		cu.m	H20 11-20
					168.00				109.56	277.56		
21	Reinfocement for RCC work in position and binding of M.S. rod for R.C.C. works - For 1 M.T.	Skill	7.000	980	6860.00	M.S. Rod	1.05	89411	93882		MT	40.10
		Unskill	7.000	700	4900.00	Binding wire	10.00	114.84	1148.40		Kg	DoLIDAR
					89411.00				95030	184441.00		
For 1 Kg										184.44		

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Rate of Materials

F/Y:-2075/076

SN	Particular	Rate for Analysis (VAT+Trans.)	Rate for Analysis (WithTrans.)	Unit Rate	Unit	Vat @ 13%	Unit Weight	Rate/kg/km		Dist Km		Load /Unload	Transportation Cost		Remarks
								Tractor	Porter	Tractor	Porter		Tractor	Porter	
1	Skill Labour	980.00	980.00	980.00	md										
2	Unskill Labour	700.00	700.00	700.00	md										
	Excavator PC - 200	2610.30	2310.00	2310.00	per hr	300.30									
	vibrator roller upto10ton	56.50	50.00	50.00	per hr	6.50									
3	Painter	980.00	980.00	980.00	md										
4	Cement (OPC NS mark)	20594.00	18436.00	16600.00	mt	2,158.00	1000	0.048	2.92	20	0.30	0.00	960	876.00	
5	Sand	4523.20	4523.20	2200.00	m3		1600	0.048	2.92	12	0.30	0.00	921.6	1,401.60	
6	Aggrigate 40mm	5694.40	5694.40	2500.00	m3		2200	0.048	2.92	12	0.30	0.00	1267.2	1,927.20	
7	Aggrigate 20mm	5694.40	5694.40	2500.00	m3		2200	0.048	2.92	12	0.30	0.00	1267.2	1,927.20	
8	Aggrigate 10mm	5694.40	5694.40	2500.00	m3		2200	0.048	2.92	12	0.30	0.00	1267.2	1,927.20	
9	Stone	2112.00	2112.00	1500.00	m3		1800	0.048	2.92	1	0.10	0.00	86.4	525.60	
10	River Bed Material	3327.20	3327.20	1400.00	m3		2200	0.048	2.92		0.30	0.00	0	1,927.20	
11	Sal wood	175336.80	175336.80	174636.00	m3		800	0.048	2.92		0.30	0.00	0	700.80	
12	Local Wood	71085.60	71085.60	70560.00	m3		600	0.048	2.92		0.30	0.00	0	525.60	
13	Mud	350.00	350.00	350	m3		1600		2.92		0.30				
14	Bamboo	175	175	175	Nos				2.92		0.30				
15	Nail	125.66	111.36	110.00	kg	14.3	1	0.048	2.92	10	0.30		0.48	0.88	
16	Reinforcement Bar	89411.00	79336.00	77500.00	mt	10075	1000	0.048	2.92	20	0.30		960	876.00	
14	Brick(Chimney)	23.75	19.35	17.00	nos	2.21	2.50	0.047	2.92	20	0.30	2.19	2.35		
17	Binding wire(Black)	114.84	101.84	100.00	kg	13	1	0.048	2.92	20	0.30		0.96	0.88	
18	Snowcem Paint	69.64	61.84	60.00	kg	7.8	1	0.048	2.92	20	0.30		0.96	0.88	
19	White Cement	31.22	27.84	26.00	kg	3.38	1	0.048	2.92	20	0.30		0.96	0.88	
20	2X 500 gauge polythene	93.79	76.00	83.00	m2	10.79		0.048	2.92	20	0.30		0	-	
21	Chicken wire mesh	113.00	100.00	100.00	sq.m	13		0.048	2.92	20	0.30		0	-	
22	Plain wire mesh	216.54	191.84	190.00	Kg	24.7	1	0.048	2.92	20	0.30		0.96	0.88	
23	Barbed wire	120.49	106.84	105.00	Kg	13.65	1	0.048	2.92	20	0.30		0.96	0.88	
24	U hook	2.83	2.50	2.50	nos	0.325		0.048	2.92	20	0.30		0		
25	GI wire 10swg (Heavy Coated)	113.96	100.96	100.00	Kg	13	1	0.048	2.92	20	0.30		0.96		
26	GI wire 8swg (Heavy Coated)	113.96	100.96	100.00	Kg	13	1	0.048	2.92	20	0.30		0.96		
27	GI wire 12swg(Heavy Coated)	119.61	105.96	105.00	Kg	13.65	1	0.048	2.92	20	0.30		0.96		
28	Iron angled post (13 kg)	1419.42	1258.87	1235.00	nos	160.55	13	0.048	2.92	20	0.30		12.48	11.39	