

WALL NO.	<u>LOCHINDORB CASTLE</u> <u>STABILISING, TAMPING & POINTING WALLS</u>	TONNES	RATE	TOTAL
1	<u>REBUILDING VOIDS</u> Cement (BS12) (ex yard) 2.2 Sand (d/d site) 4.8 <u>TAMPING</u> Cement (BS12) 3.5 Sand 7.8 <u>POINTING</u> Lime (Hydraulic) (ex yard) 2.1 Sand 6.9		£70 15 £70 15 £125 15	154.00 72.00 245.00 117.00 262.50 103.50
TOTAL OF WALL NO. 1				£ 954.00
2	<u>REBUILDING VOIDS</u> Cement 0.2 Sand 0.5 <u>TAMPING</u> Cement 1.3 Sand 2.9 <u>POINTING</u> Lime 0.8 Sand 2.5		£70 15 £70 15 £125 15	14.00 7.50 91.00 43.50 100.00 37.50
TOTAL OF WALL NO. 2				£ 293.50
3	<u>REBUILDING VOIDS</u> Cement 0.3 Sand 0.7 <u>TAMPING</u> Cement 0.8 Sand 1.7 <u>POINTING</u> Lime 0.5 Sand 1.4		£70 15 £70 15 £125 15	21.00 10.50 56.00 25.50 62.50 21.00
TOTAL OF WALL NO. 3				£ 196.50

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 33 ACADEMY STREET
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WALL NO.		TONNES	RATE	TOTAL
4	<u>REBUILDING VOIDS</u>			
	Cement (BS12) (ex yard)	0.9	£70	63.00
	Sand (d/d site)	2.0	15	30.00
	<u>TAMPING</u>			
	Cement (BS12)	1.7	£70	119.00
	Sand	3.7	15	55.50
	<u>POINTING</u>			
	Lime (Hydraulic) (ex yard)	1.0	£125	125.00
	Sand	3.3	15	49.50
	TOTAL OF WALL NO. 4		£	442.00
5	<u>REBUILDING VOIDS</u>			
	Cement	0.5	£70	35.00
	Sand	0.9	15	13.50
	<u>TAMPING</u>			
	Cement	1.1	£70	77.00
	Sand	2.5	15	37.50
	<u>POINTING</u>			
	Lime	0.7	£125	87.50
	Sand	2.2	15	33.00
	TOTAL OF WALL NO. 5		£	283.50
6	<u>REBUILDING VOIDS</u>			
	Cement	2.4	£70	168.00
	Sand	5.4	15	81.00
	<u>TAMPING</u>			
	Cement	2.4	£70	168.00
	Sand	5.3	15	79.50
	<u>POINTING</u>			
	Lime	1.4	£125	175.00
	Sand	4.7	15	70.50
	TOTAL OF WALL NO. 6		£	742.00

WALL NO.		TONNES	RATE	TOTAL
7	<u>REBUILDING VOIDS</u>			
	Cement (BS12) (ex yard)	0.6	£70	42.00
	Sand (d/d site)	1.1	15	16.50
	<u>TAMPING</u>			
	Cement (BS12)	0.2	£70	14.00
	Sand	0.6	15	9.00
	<u>POINTING</u>			
	Lime (Hydraulic) (ex yard)	0.2	£125	25.00
	Sand	0.5	15	7.50
	TOTAL OF WALL NO. 7		£	114.00
8	<u>REBUILDING VOIDS</u>			
	Cement	1.2	£70	84.00
	Sand	2.6	15	39.00
	<u>TAMPING</u>			
	Cement	2.4	£70	168.00
	Sand	5.3	15	79.50
	<u>POINTING</u>			
	Lime	1.4	£125	175.00
	Sand	4.7	15	70.50
	TOTAL OF WALL NO. 8		£	616.00
9	<u>REBUILDING VOIDS</u>			
	Cement	2.0	£70	140.00
	Sand	4.4	15	66.00
	<u>TAMPING</u>			
	Cement	1.5	£70	105.00
	Sand	3.4	15	51.00
	<u>POINTING</u>			
	Lime	0.9	£125	112.50
	Sand	3.0	15	45.00
	TOTAL OF WALL NO. 9		£	519.50

WALL NO.		TONNES	RATE	TOTAL
10	<u>REBUILDING VOIDS</u> Cement (BS12) (ex yard) 1.1 Sand (d/d site) 2.4 <u>TAMPING</u> Cement (BS12) 2.5 Sand 5.5 <u>POINTING</u> Lime (Hydraulic) (ex yard) 1.4 Sand 4.8 TOTAL OF WALL NO. 10		£70 15 £70 15 £125 15	77.00 36.00 175.00 82.50 175.00 72.00 £ 617.50
11	<u>REBUILDING VOIDS</u> Cement 1.6 Sand 3.5 <u>TAMPING</u> Cement 1.0 Sand 2.1 <u>POINTING</u> Lime 0.6 Sand 1.9 TOTAL OF WALL NO. 11		£70 15 £70 15 £125 15	112.00 52.50 70.00 31.50 75.00 28.50 £ 369.50
12	<u>REBUILDING VOIDS</u> Cement 1.4 Sand 3.1 <u>TAMPING</u> Cement 1.0 Sand 2.3 <u>POINTING</u> Lime 0.6 Sand 2.1 TOTAL OF WALL NO. 12		£70 15 £70 15 £125 15	98.00 46.50 70.00 34.50 75.00 31.50 £ 355.50

WALL NO.		TONNES	RATE	TOTAL
13	<u>REBUILDING VOIDS</u>			
	Cement (BS12) (ex yard)	0.7	£70	49.00
	Sand (d/d site)	1.3	15	19.50
	<u>TAMPING</u>			
	Cement (BS12)	0.3	£70	21.00
	Sand	0.7	15	10.50
	<u>POINTING</u>			
	Lime (Hydraulic) (ex yard)	0.2	£125	25.00
	Sand	0.7	15	10.50
	TOTAL OF WALL NO. 13			135.50
			£	
14	<u>REBUILDING VOIDS</u>			
	Cement	0.9	£70	63.00
	Sand	2.0	15	30.00
	<u>TAMPING</u>			
	Cement	2.0	£70	140.00
	Sand	4.4	15	66.00
	<u>POINTING</u>			
	Lime	1.2	£125	150.00
	Sand	4.0	15	60.00
	TOTAL OF WALL NO. 14			509.00
			£	
15	<u>REBUILDING VOIDS</u>			
	Cement	0.8	£70	56.00
	Sand	1.8	15	27.00
	<u>TAMPING</u>			
	Cement	0.7	£70	49.00
	Sand	1.4	15	21.00
	<u>POINTING</u>			
	Lime	0.3	£125	37.50
	Sand	1.2	15	18.00
	TOTAL OF WALL NO. 15			208.50
			£	

WALL NO.	<u>REBUILDING VOIDS</u>	TONNES	RATE	TOTAL
16	Cement (BS12) (ex yard) Sand (d/d site)	- -	£70 £15	- -
	<u>TAMPING</u>			
	Cement (BS12) Sand	0.4 1.1	£70 15	28.00 16.50
	<u>POINTING</u>			
	Lime (Hydraulic) (ex yard) Sand	0.2 1.0	£125 15	25.00 15.00
	TOTAL OF WALL NO.16			£ 84.50
17	<u>REBUILDING VOIDS</u>			
	Cement Sand	1.8 4.0	£70 15	126.00 60.00
	<u>TAMPING</u>			
	Cement Sand	1.2 2.6	£70 15	84.00 39.00
	<u>POINTING</u>			
	Lime Sand	0.7 2.3	£125 15	87.50 34.50
	TOTAL OF WALL NO.17			£ 431.00
17A	<u>REBUILDING VOIDS</u>			
	Cement Sand	0.3 0.7	£70 15	21.00 10.50
	<u>TAMPING</u>			
	Cement Sand	0.2 0.6	£70 15	14.00 9.00
	<u>POINTING</u>			
	Lime Sand	0.2 0.4	£125 15	25.00 6.00
	TOTAL OF WALL NO. 17A			£ 85.50

WALL NO.		TONNES	RATE	TOTAL
18	<u>REBUILDING VOIDS</u> Cement (BS12) (ex yard) 0.9 £70 63.00 Sand (d/d site) 2.0 15 30.00 <u>TAMPING</u> Cement (BS12) 1.2 £70 84.00 Sand 2.6 15 39.00 <u>POINTING</u> Lime (Hydraulic) (ex yard) 0.7 £125 87.50 Sand 2.3 15 34.50 TOTAL OF WALL NO. 18			<hr/> £ 338.00
19	<u>REBUILDING VOIDS</u> Cement 5.9 £70 413.00 Sand 12.9 15 193.50 <u>TAMPING</u> Cement 3.1 £70 217.00 Sand 6.7 15 100.50 <u>POINTING</u> Lime 1.8 £125 225.00 Sand 5.9 15 88.50 TOTAL OF WALL NO. 19			<hr/> £ 1237.50
20	<u>REBUILDING VOIDS</u> Cement 0.4 £70 28.00 Sand 0.9 15 13.50 <u>TAMPING</u> Cement 0.8 £70 56.00 Sand 1.7 15 25.50 <u>POINTING</u> Lime 0.4 £125 50.00 Sand 1.4 15 21.00 TOTAL OF WALL NO. 20			<hr/> £ 194.00

Lochindorb Castle

Shore Jetty

Materials Required

N.B. Mr. Corbitt's Drawing has been used for everything but the decking where Mr. McKellar (of McKellar Engineering Grantown) has given his expert advice.

GABIONS

As indicated on Drawing with square mesh fabric on bottom and four sides; complete with bolts, nuts and washers for connecting together on site (to be purchased ready fabricated)

no 20 £30 600 00

STONE FILLING

to be provided by Cawdor Estates (squared face stones) and collected locally (internal fill)

Transport only for approximately 50 Tonnes

say } 250 00

STONE STEPS

To be provided by Cawdor Estates

Transport only

TIMBER

100x50mm Decking joists (preserved larch)

36 @ 1120mm
8 @ 620mm

m 46 75p 34 50

120x20mm dressed grooved preserved larch decking boards spaced 12.5mm apart each 2000mm long

no 76 110p 83 60

Drive screws for fixing boards to joists

no 700 20 00

Forward.....£ 988 10

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	Forward.....£		988	10
100x50mm larch fender	m	13	75p	9 75
2 @ 5200mm				
1 @ 2000mm				
12mm dia x 100mm bolts for fixing fenders to gabions complete with washers and nuts	no	30	50p	15 00
15mm steel rods for fixing decking joists together; 750mm long threaded on both ends 40mm long and having two washers and two nuts per rod	no	10	£5	50 00
Decking clamps consisting of 450x75x10mm plate; having (2) 15mm rods 800mm long welded to plate 60mm apart; rods threaded at top and having 100x50x10mm loose top plate twice holed for 15mm rods; 2 washers and 2 nuts	no	40	£10	400 00
Handrail to Jetty (strongly recommended by Mr. McKellar)				
Allow	m	20	£40	800 00
<u>Fencing protecting shore end of Jetty</u>				
Angle iron fencing posts with line wires and chain link mesh attached; barbed wire on top (?)	m	20	£15	300 00
Lockable gate to do.	no	1		125 00
Path from road to end of jetty steps approximately 4m ² (Materials for this included in Car Park)				
<u>Car Park (14.00 x 18.00 = 252m²)</u>				
Quarry brash 100 thick = m ³ 25 =	Tonnes	40	£10	400 00
10mm Gravel 50-thick = m ³ 12½ =	Tonnes	20	£20	400 00
Stob & wire fence with chain link mesh round "moor" side of car park (Requirement of Mr. Laing)	m	60	£10	600 00
			£	4087 85

Pontoon Jetty at Island

To be purchased as a complete unit with mooring arrangements (McKellar Engineering, Grantown)

1000 00

Concrete Anchor Points on Shore (No. 3)

Say 750x750x750mm (sunk into ground)

= 1.27 m³ of concrete

which requires

Aggregate 2.00 Tonnes £10 20 00

Sand 1.00 Tonnes £15 15 00

Cement 0.30 Tonnes £70 21 00

Mild steel staples set into concrete to take mooring shackles

no 3 £ 5 15 00

Hardcore base to pathway from jetty to castle wall 150mm deep

Tonnes 5 £10 50 00

10.00 x 2.00 x 0.15
= m³ 3

Gravel topping to pathway 50mm deep

Tonnes 1½ £20 30 00

= m³ 1

Suggest risers could be formed with stones

£ 1151 00

Scaffolding

Assume an area of 7.00 x 7.00m (Equivalent to a square scaffold high enough to reach the top of the East Curtain Wall)

i.e. 49m² say 50m²

Rental of 1m² for 1 month

3 75

Add 11 months @ 20p

2 20

5 95

Add for staging; planks etc. 50% say

3 05

£

9 00

m² 50

£9

450 00

Suggest 2 scaffolds like this

Allow

£

900 00