

External Mass Concrete Access Steps and FRP Handrails BOQ

Item	Description	Unit	Quantity	Rate	Amount
1,1	Preliminary and Generals	Sum	1,00		R -
1,2	SHEQ Requirements	Sum	1,00		R -
1,3	Environmental Requirements	Sum	1,00		R -
1,4	Quality Requirements	Sum	1,00		R -
	<u>Removal of Existing Work</u>				
	Break up and removing mass concrete and dispose				
2	Steps	m2	2,25		R -
	Site Clearance and Rehabilitation				
3	Clear and grub	m2	2,25		R -
	Remove and Stockpile Topsoil				
4	Remove and stockpile topsoil to a depth of	m2	2,25		R -
	Topsoiling				
5	Place topsoil to a depth of 150mm	m2	2,25		R -
	<u>Earthworks</u>				
6	Bulk excavation for staircase	m3	0,79		R -
7	Import G5 material compacted in layers not exceeding 100mm thickness compacted to 95% Mod AASHTO density	m3	0,68		R -
	<u>Concrete, Formwork and Reinforcement</u>				
	Blinding layer in 15Mpa/19mm concrete				
8	50mm thickness blinding	m3	0,11		R -
	15 Mpa/19mm concrete				
9	Risers and threads	m3	0,20		R -

10	Staircase waist	m3	1,22		R	-
	Wood-floated finishes to:					
11	Stairs	m2	2,25		R	-
	Smooth formwork to:					
12	Risers and edges	m2	1,62		R	-
13	Sloping stepped outer edge	m2	3,78		R	-
14	5x5mm high 5mm wide antistlip ridges formed into concrete step	m	9		R	-
	<u>Structural Steel work</u>					
15	Supply of Fibre Reinforced Plastic (FRP) handrails for chamber roof					
16	50x50mm Stanchion (painted)	No	16		R	-
17	Handrail/Knee rail 38x5mm (1.2m long) (painted)	No	8		R	-
18	Handrail/Knee rail 38x5mm (1.5m long) (painted)	No	8		R	-
19	Assembly of 2 x Stanchions and handrails/ knee rails	No	8		R	-
20	Anchors and bolts	No	32		R	-
21	Plastic peel rivets	No	32		R	-
22	All other requirements not stated above which may be required to complete unforeseen items as per engineer's instruction	Prov. Sum	1	R 50 000,00	R	50 000,00
	Sub-total					
	Add 15% VAT					R -
	TOTAL					R -