SCHOOL VENTILATED IMPROVED PIT LATINE (VIPL) CONSISTING OF ONE UNIT

#	SPECIFICATIONS	UNIT	QTY	RATE (KES)	AMT (KES)
A	**Preliminaries**				
1	Provide for mobilization & demobilization to & from site materials, storage and	Ls	1		
2	Allow for insurance necessary in accordance with contract conditions	Ls	1		
3	Allow water for construction and curing	Ls	1		
4	Provide all signage necessary to warn pupils, on-lookers and for project visibility	Ls	1		
	Subtotal 1 carried to summary				
B	**Substructure**				
1	Excavate 6.0m deep X 1.2 m X 1.95m commencing from existing ground in to rock formation	CM	21		
2	Escavate for a soak away pit 2m by 2m to a depth of 1m and fill with natural absorbent stone as approved by engineer	CM	4		
3	Cart away excavated material	CM	25		
	Subtotal 2 carried to summary				
C	**Reinforced concrete & Lining**				
1	Block lining four courses (1.2m) natural stones in cement sand mortar (1:3)	SM	12		
2	Slab 150 mm (1:2:4)	CM	3		
3	Vibrated reinforced concrete 1:2:4- 20 mix ratio - 150 X 200 mm thick lintel	CM	0.3		
4	Reinforcement Y10 in slab and ground beam	Kg	200		
5	Reinforcement Y8 in lintel	Kg	30		
6	Formwork on sides and soffits of beams	SM	50		
	Subtotal 3 carried to summary				
D	**Ramp & pathway**				
1	Provide a lean concrete ramp with a gradient of 1:12, minimum width of 1200mm, and non-slip finish	CM	1		
2	Provide handrails (both sides) of the ramp at a height of 850mm	LM	30		
	Subtotal 4 carried to summary				
E	**Walling**				
1	150 thick building stones in cement sand mortar joint (1:3)	SM	20		

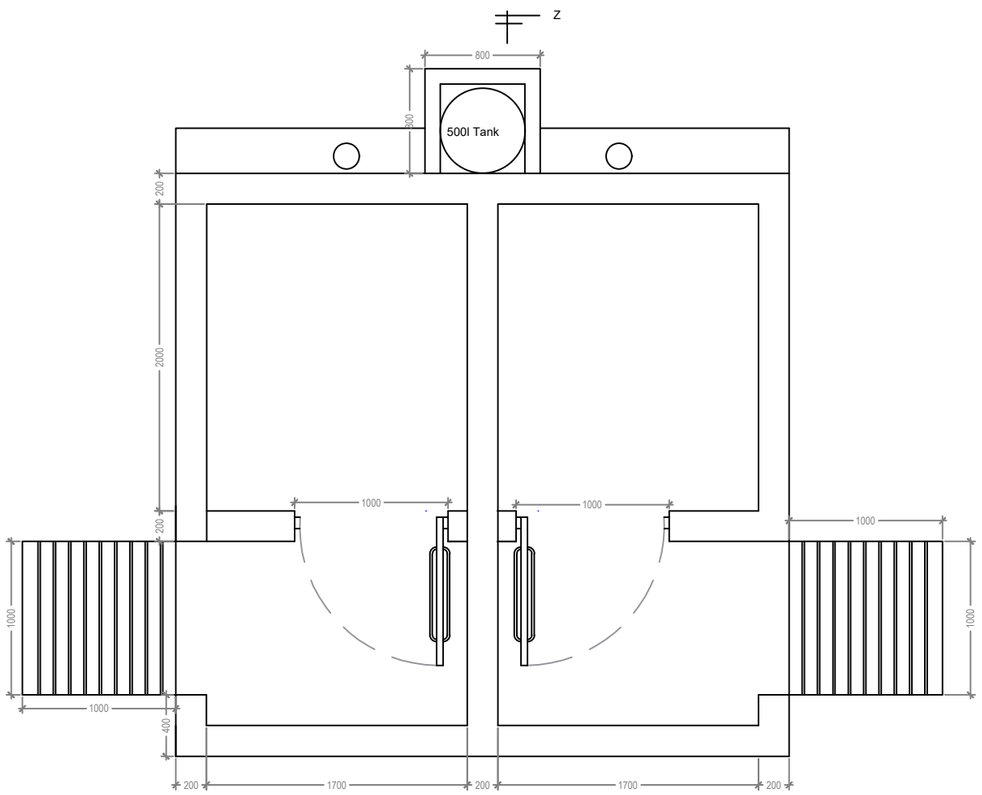
2	Cement and sand (1:3) mix ratio, 13 mm thick with steel float finish to masonry	SM	60		
3	Accessories e.g. barbed wire, nails	Ls	1		
	Subtotal 5 carried to summary				

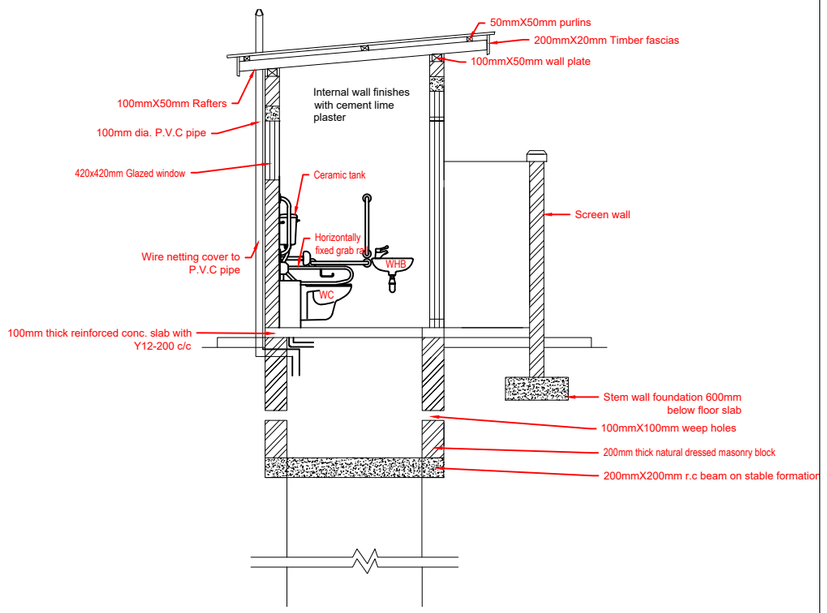
#	SPECIFICATIONS	UNI T	QTY	RATE (KES)	AMT (KES)
F	**Toilet and Bathroom fittings**				
1	Supply and install water closet (WC) with hand flush or low-force lever flush mechanism at 450mm above the floor level	No	2		
2	Supply handwashing station with a basin installed at 850mm height, equipped with a soap dispenser and tap operable with minimal force.	No	2		
3	Firmly fix using a screw a horizontal/vertical stainless steel grab bars on both sides of the toilet seat/shower and Hand Wash Basin at 700mm height.	Pcs	12		
4	accessibility with foldable shower seat & handheld showerhead for seated use. Install operable knob 700-850mm from ground.	LS	1		
5	Provide for raised platform for 500 Litres capacity tank and proper plumbing for drainage of wastewater to adjuscent soak away pit (Pipe materials MUST be ppr or equivalent)	LS	1		
6	Install emergency assistance cord or bell within easy reach	No	2		
7	Install fabricated metallic gutter and all fittings for rainwater harvesting	LM	5		
	Subtotal 6 carried to summary				
G	**Flooring**				
1	Provide for non-slip flooring for fall prevention on the outside part of the latrine. Ensure slight gradient on the floor to drain the water away	SM	20		
2	Supply and install 300x300mm rough textured floor tiles internal floor as approved by engineer	SM	20		
3	Supply and install 300x200mm rough textured wall tiles to 1500mm height of internal wall surface as approved by engineer	SM	22		
4	Install a 150mm floor trap to drain away to soak pit	No	2		
	Subtotal 7 carried to summary				
H	**Roofing**				

1	100 X 50 mm timber rafters at 1000 mm c/c	LM	20		
2	75 X 50 mm purling at 500 mm c/c	LM	22		
3	Gauge 30 galvanized corrugated sheets (maroon) fixed to timber purling	SM	20		
4	Fascia board 200 mm by 25mm	LM	18		
	Subtotal 8 carried to summary				

#	SPECIFICATIONS	UNIT	QTY	RATE (KES)	AMT (KES)
I	**Openings and vent**				
1	Supply and install outward opening metallic door overall size 1000 X 2100 mm fabricated using square /rectangular section and flat sheet 1.5mm thickness as approved by the engineer	No	2		
2	Install door hinges and easy to use handles. The door lock should be operable using one hand at height of 850mm	No	2		
3	Provide for 420mm square half-way upward opening window made of metallic frame with translucent glass 4mm thickness	No	2		
4	100 mm diameter golden brown pipe fixed to external walling with and including galvanized mosquito screen/mesh and holder bats (vent pipe)	LM	8		
	Subtotal 9 carried to summary				
J	**Finishing**				
1	Allow for undercoat on render finished Fascia board	LM	18		
2	Plaster walls internally to receive the two coats of matt paint or equivalent as approved by the engineer	SM	5		
3	Painting prepare and apply three coats on walls/doors/skirt/floor as instructed by the engineer	SM	100		
	Subtotal 10 carried to summary				
	Summary				
	Subtotal 1 carried to summary				
	Subtotal 2 carried to summary				
	Subtotal 3 carried to summary				
	Subtotal 4 carried to summary				
	Subtotal 5 carried to summary				
	Subtotal 6 carried to summary				
	Subtotal 7 carried to summary				

	Subtotal 8 carried to summary		
	Subtotal 9 carried to summary		
	Subtotal 10 carried to summary		
	Subtotal		
	TOTAL FOR FOUR (2) VIPL		
	16% V.A.T		
	GRAND TOTAL		





VERTICAL SECTION Z-Z

NOTES

- Only Selected Typical Elements Shown
- All dimensions are in milimeter unless otherwise stated
- Apply three coats of silk and matt or equivalent paints on the internal and external surfaces as approved by the engineer
- Allow for branding of the project as approved by the engineer
- WC denotes Water closet
- WHB denotes Wash Hand Basin

PROJECT TITLE:

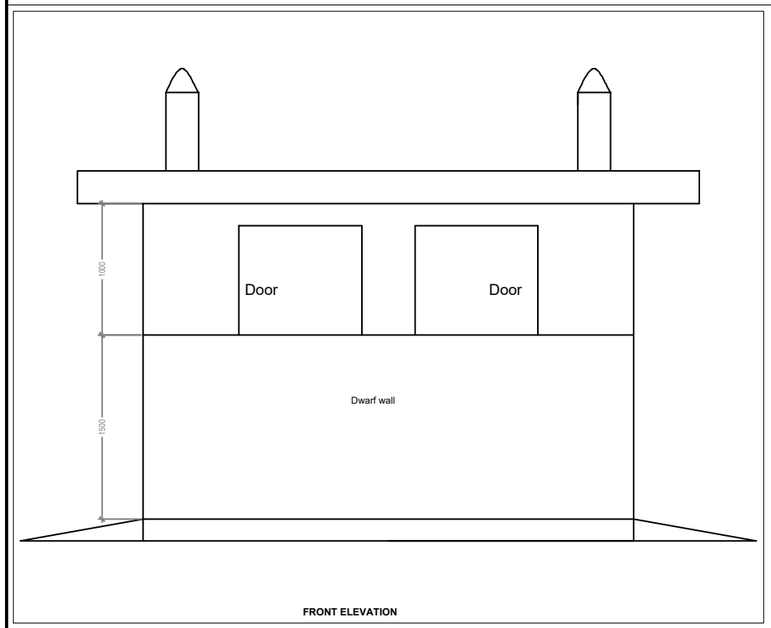
PROPOSED VENTILATED IMPROVED PIT LATRINE WITH BATH AREA ACCESSIBLE FOR PLWD

DRAWING TITLE:

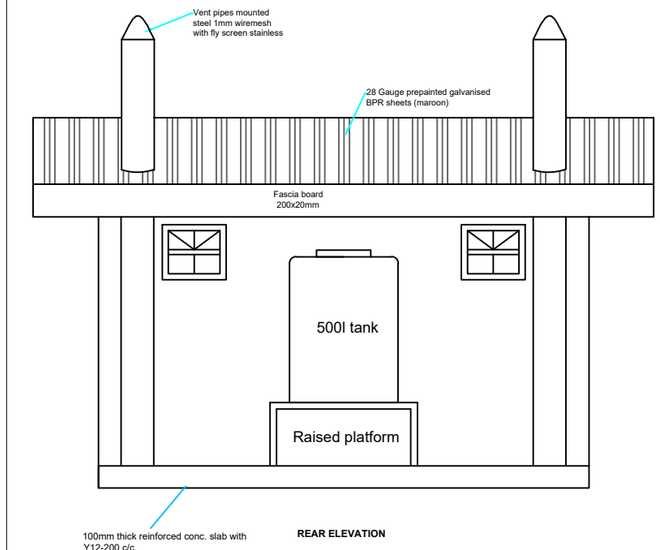
GENERAL LAYOUT AND SECTION DETAILS

CLIENT:

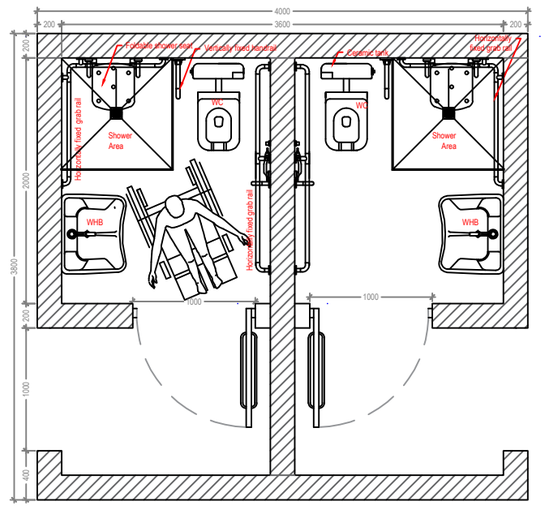
CATHOLIC DIOCESE OF MARSABIT
CARITAS MARSABIT
P. BOX 62-60500
MARSABIT, KENYA



FRONT ELEVATION



REAR ELEVATION



SCALE: 1:50

	NAME	SIGNATURE	DATE
Designed	Wako		
Drawn	Wako		
Checked			

DRG No.
VIPL-002/2025

Revision Suffix
01