

Wangi General Enterprises (U) Ltd

Delers in: Building, Construction works and General Supplies.

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	Email: wangigeorge@yahoo.com	n			3		
	BOQ FOR 6 - STANCE SEPTIC TOILETS WITH V	VASI	HROOM	<u> </u>			
No	Description	Unit	Qty	Rate	Ushs		
1	PRELIMINARIES						
1.1	Mobilization and demobilization of equipment, tools, personnel to and from the site	Sum	1.00	200,000	200,000		
1.2	Clear site of shrub, Trees etc. and excavate over site to remove top vegetable soil average depth of 300mm, remove the tree stumps, cart away to atleast 30M from site.	m2	55.00	4,000	220,000		
	Total Carried to Summary>>>>>>>						
2	EXCAVATION AND EARTH WORKS						
2.1	Excavate for the latrine pit commencing at reduced level to depth not exceeding 4.03mm i.e 8.5m long, 2.3m wide and 3.5m deep and not less than 1.5m above the water table including all earth work support, keeping the excavation free from water and spreading excavated materials away.	m3	68.50	5,000	342,500		
2.2	Provide form work support to ditto	m2	78.00	4,000	312,000		
2.3	Excavate for foundations Plinth walling, curtain wall and washroom to a firm level not exceeding 1.0M deep return refill and ram.	m3	19.60	8,000	156,800		
2.4	Load wheel and deposit surplus excavated materials and deposit at distance not less than 30M from the site as directed by site Engineer.	item	1.00	52,000	52,000		
	Total Carried to Summary>>>>>>>>>				863,300		
3	SUB-STRUCTURE						
3.1	Provide anti-termite treatment to sides of excavation and at intervals of every 300mm layer during back filling	sum	1.00	21,000	21,000		
3.2	Cast 200mm thick concrete (1:3:6/38mm) 450mm wide as strip foundation for washroom and curtain wall.	m3	2.70	140,000	378,000		
3.3	200mm thick hardcore stone, well spread and Leveled, consolidated and blinded with crushed stone at the bottom of the containment pit.	m2	16.00	15,000	240,000		
3.4	200mm thick concrete (1:3:6/38mm aggregates) cast on ditto	m3	3.20	36,000	115,200		
3.5	230mm thick well burnt clay brick walls approved by engineer with metal strips at every 3 courses bedded in cement/sand mortar 1:4 and atleast 200mm well above ground on ditto (detailed in drawing) to be used as containment for Latrine.	m2	69.10	28,000	1,934,800		
3.6	230x230 reinforced colunms (1:2:4/19mm reinforced using 4Y12 using R6 at spacing of 150mm styrups) and provided with reinforced concrete base 600mmx690x230mm.	m3	1.30	240,000	312,000		
3.7	230X230mm reinforced concrete beam (1:2:4/19mm reinforced using 4Y12 using R6 at a spacing of 150mm as styrups) at mid height ditto	m3	8.60	240,000	2,064,000		
3.8	25mm thick cement/sand (1:4) plaster applied in two layers and finished with a steel float applied to the internal surface of containment pit	m2	68.70	12,000	824,400		
3.9	230X230mm reinforced concrete (1:2:4/19mm aggregate) beam reinforced with 2Y16 at bottom and 2Y12 at the top in a spanning welded mesh fabric (10.3mx3.6m x100mm) including urinal and ramp as per provided drawings approved by engineer.	m3	12.65	250,000	3,162,000		
3.10	Supply and instal 1000mm gauge Polythene sheeting as tanking to the excavated pit	m3	85.00	2,500	212,500		
3.11	100mm thick reinforced concrete(1:2:4/19mm aggregates and Y12 at 200C/C) for floor slab with squat holes, 450X450mm inspection chambers (as detailed in drawings). Squate holes should incline towards the pit for easy cleansing and finished smooth.	m3	4.00	35,000	140,000		
	Form work support to the side and sofit of slab						

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3.12	300 x 25mm wide timber boards	m2	17.00	5,000	85,000
3.13	Eucalyptus 3.5m long to act as supports to ditto.	Sum	1.00	36,000	36,000
3.14	Provide 450mmX450mm an air tight precast concrete covers to the access chamber with with 2NO. Mild steel Lifting rings 8mm diameter bar or as directed by engineer.	No.	1.00	65,000	65,000
3.15	150mm imported hardcore, well spread. Leveled, ramped and blinded under the floor slab for the portion not covered by pit, in the washroom, in the walk way and apron.	SM	23.00	7,000	161,000
3.16	Monolithic concrete (1:2:4/19mm) floor finish to ditto using a steel float	SM	23.00	12,000	276,000
3.17	Erect 1:2 mortar as for APC, 20mm thick ready to received DPC	SM	31.00	12,000	372,000
3.18	Lay 150mm wide bituminous felt or other approved materials as DPC to the precast concrete slabs. Overlaps of 200mm.	m2	31.00	6,000	186,000
	Total Carried to Summary>>>>>>>>>>				10,584,900
4	SUPER STRUCTURE				
4.1	150mm thick wall of well burnt clay bricks with metal strips placed every three course in cement mortar mix 1:4 including screen walls and Wash room to the specified heights with metal strip placed at every third course	m2	65.80	12,000	789,600
4.2	Ditto but including a 230mm x230mm pillar halfway of curtain wall	m2	0.35	13,000	4,485
4.3	Approved Kajjansi burnt clay vent bricks or equivalent in cement mortar 1:4	Pcs	30.00	4,000	120,000
4.4	150X150mm reinforced concrete (1:2:4/19mm aggregates) beam with y-12 bars fixed as per the drawings for the front wall, also to be used as wall plate.	m3	0.46	270,000	125,145
4.5	Provide 6"X1" formwork as shuttering to ditto.	LM	33.00	5,000	165,000
4.6	Provide props for supporting bottom of form work at opennings	LM	22.50	2,000	45,000
	Total Carried to Summary>>>>>>>>>				1,249,230
5	ROOFING CONSTRUCTION				
5.1	Well treated 100x50mm rafters at 2M C/C.	LM	14.14	8,000	113,120
5.2	Ditto but 50 x 75mm purlins	LM	28.42	8,000	227,360
5.3	Well treated 25 x 200mm treated fascia board	LM	26.40	12,000	316,800
5.4	30 Gauge prepainted corrugated roofing iron sheets as per drawings - maroon in colour	m2	30.72	38,000	1,167,360
5.5	Supply and install PVC gutters including drop down pipes to deliver water to hand washing facility infront and washroom tank at the rear	LM	10.00	8,000	80,000
5.6	Supply and installed 100mm diameter uPVC vent pipe complete with cap, fly screen and painted black. Allow to pass over roof covering by 1M.	No.	5.00	8,000	40,000
	Total Carried to Summary>>>>>>>>>>				1,944,640
6	DOORS				
6.1	Provide and fix 900mm x 2400mm Metallic steel panels with 1.2 mm thick plates include 3 hinges, 2.5", comprising 300mm high steel louvred vent for full width: door shutter size 900 x 2100mm high, tricycle locks size 265 with 3 spare keys. The frames for all the doors should be mullion section of 11.2mm thickness and approved by engineer before fitting	No.	6.00	200,000	1,200,000
6.2	Ditto but 1000mm wide for disabled room	No.	1.00	280,000	280,000
6.3	Include 1200x1500mm metall grilled door to walk ways fitted with locking provision, made from 25x25mm hollow section as shown in the drawing and directed by engineer.	No.	2.00	40,000	80,000
	Total Carried to Summary>>>>>>>				1,560,000
7	FINISHES				
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7.1	35mm cement sand floor screed (1:3) finished smooth.	m2	31.00	8,000	248,000

7.2	12mm cement ,lime and sand (1:2:9) wall plaster in two coats steel trowled hard and smooth on walls internally.	m2	68.60	8,000	548,800
7.3	12mm cement ,lime and sand (1:2:9) skirting 150mm high on plastered walls in two coats steel troweled hard and smooth on walls internally and externally.	m2	70.00	8,500	595,000
7.4	Inverted V shape copping to be done top of the curtain wall	LM	14.20	4,000	56,800
7.5	Ditto but rough cast rendered walls externally side, rear and curtain walls to height of 1.5m from skirting level. Provide a 1000mm x 1000mm space for hygiene massage as per drawing	m2	15.00	4,000	60,000
7.6	Apply tiles in the bathroom	m2	18.00	20,000	360,000
7.7	Supply and fix scorting toilets	No.	4.00	140,000	560,000
	Total Carried to Summary>>>>>>>>>>				2,428,600
8	OTHER EXTERNAL WORK				
8.1	Construct 300mm wide splash apron using 150mm masonry brick wall using 1:4 cement mortar on 50mm blinding, Fill with 100m hardcore, Place and compact 75mm plain insitu concrete 1:3:6. Finished smooth with cement grout	LM	27.80	11,500	319,700
8.2	Fill ramp and compact selected approved excavated materials to make up level ready to receive concrete.	m2	10.00	6,000	60,000
8.3	Vibrated concrete mix reinforced with welded mesh fabric to ramp on the PWD access to slope of 1 in 20, 4m long (1m is landing) by 1.3m wide C20/40 Concrete Ramp finished rough (Provisional). Allow for installation of hand-rails (m/s). Actual direction and maximum length of ramp will be determined by existing ground levels.	m3	1.00	265,000	265,000
8.4	Construct tank base plus 500Litre plastic tank placed on base and connected to the gutters at the rear including connection by 1' GI pipe to tap inside the washroom, washout & overflow as per drawings and as directed by engineer.	Sum	1.00	200,000	200,000
8.5	Construction a concrete stand for bathing basin in the washroom complete with all the drainage system including PVC Gully trap, floor trap as ARMITAGE SHANKS complete with accessories; include 500 x600x900mm deep including 50mm thick pre-cast concrete cover with 2NO. Mild steel lifting rings 8mm diameter bar	Sum	1.00	220,000	220,000
8.6	Excavation soak pit 2m diameter and 1.5 m deep and fill in clean selected hard core, cover with polythene sheeting and backfill for the urinal complete with 110mm PVC heavy gauge pipe work buried to a fall of 1:60 complete with excavation, bedding, backfilling and all accessories	Sum	1.00	200,000	200,000
8.7	Fabricate and Install the PWD standard supports (support hand rails and internal hand support) etc as provided annex to drawings to the satisfaction of engineer	Sum	1.00	60,000	60,000
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	Engrave the school latrine blocks using marble slates on the latrines with dimensions and writings as directed by the engineer.	LS	1.00	80,000	80,000	
8.9	Clear the site of all construction debris and level the site	Sum	1.00	40,000	40,000	
	Total Carried to Summary>>>>>>>>>				1,444,700	
9	PAINTING					
9.1	Prepare surface & paint one under coat and two coats of white weather guard on fascia boards and copping	m2	15.00	3,500	52,500	
9.2	Prepare, prime and paint one undercoat and 2 subsequent coats of silk vinyl oasis blue sodolin paint on all plastered interior walls above 1500mm	m2	17.00	3,500	59,500	
9.3	Prepare, prime and paint one undercoat and 2 subsequent coats of smoke grey gloss paint on all plastered interior walls up to a level of 1500mm above the the skirting including the washroom.	m2	30.00	3,500	105,000	
9.4	Prepare, prime and paint one undercoat and 2 subsequent coats of black gloss paint up to 200mm above the floor as skirting	m2	4.50	3,500	15,750	
9.5	Prepare, prime and paint one undercoat and 2 subsequent coats of oasis blue weather guard paint on all rendered walls above 1500, (above roughcast) and the front	m2	33.00	3,500	115,500	
9.6	Prepare, prime and paint one undercoat and 2 subsequent coats of beetle nut weather guard paint over rough cast including the front and internal of curtain wall up to 1500m above skirting	m3	32.10	3,500	112,350	
9.7	Prepare, prime and paint an undercoat and three coats of smoke grey gloss paint on the door surface including metal grill doors and hand rails	m2	2.00	3,500	7,000	
	Total Carried to Summary>>>>>>>>					
10	TANK BASE					
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	Construct tank base, Supply and install 10,000 Litre HDPE water tank including transportation to site and construction	no	1	3,640,000	3,640,000	
	1	no	1	3,640,000	3,640,000 <b>3,640,000</b>	
	transportation to site and construction	no	1	3,640,000		
1	transportation to site and construction	no	1	3,640,000		
1 2	transportation to site and construction  Total Carried to Summary>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	no	1	3,640,000	3,640,000	
	transportation to site and construction  Total Carried to Summary>>>>>>>  SUMMARY TO BOQ	no	1	3,640,000	<b>3,640,000</b> 420,000	
2	transportation to site and construction  Total Carried to Summary>>>>>>>  SUMMARY TO BOQ  PRELIMINARIES	no	1	3,640,000	<b>3,640,000</b> 420,000 863,300	
2	transportation to site and construction  Total Carried to Summary>>>>>>>  SUMMARY TO BOQ  PRELIMINARIES  EXCAVATION AND EARTH WORKS	no	1	3,640,000	3,640,000 420,000 863,300 10,584,900	
2 3 4	transportation to site and construction  Total Carried to Summary>>>>>>>>  SUMMARY TO BOQ  PRELIMINARIES  EXCAVATION AND EARTH WORKS  SUB-STRUCTURE	no	1	3,640,000	3,640,000 420,000 863,300 10,584,900 1,249,230	
2 3 4 5	transportation to site and construction  Total Carried to Summary>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	no	1	3,640,000	3,640,000 420,000 863,300 10,584,900 1,249,230 1,944,640	
2 3 4 5	transportation to site and construction  Total Carried to Summary>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	no	1	3,640,000	3,640,000 420,000 863,300 10,584,900 1,249,230 1,944,640 1,560,000	
2 3 4 5 6 7	transportation to site and construction  Total Carried to Summary>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	no	1	3,640,000	3,640,000 420,000 863,300 10,584,900 1,249,230 1,944,640 1,560,000 2,428,600	
2 3 4 5 6 7 8	transportation to site and construction  Total Carried to Summary>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	no	1	3,640,000	3,640,000 420,000 863,300 10,584,900 1,249,230 1,944,640 1,560,000 2,428,600 1,444,700	
2 3 4 5 6 7 8 9	transportation to site and construction  Total Carried to Summary>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	no	1	3,640,000	3,640,000 420,000 863,300 10,584,900 1,249,230 1,944,640 1,560,000 2,428,600 1,444,700 467,600	

Prepared by: