

**QUANTITY SCHEDULE**

**30 SOW UNIT**

<b>Project Name: Watch P</b>	<b>Coordinates:</b>
<b>District: Dr.Kenneth Kaunda</b>	<b>S: 26° 46' 13"</b>
	<b>E: 27° 02' 20"</b>

Background/Deliberation: This is a supply deliver and construct invite.Plan and quantity schedule must be read together as the project is required to be functionally installed.Contractors must familiarise with site conditions and availability of electricity and water - or none availability as this will be the responsibility of contractor to provide for during the construction period.Take note of Clay bricks that will not be plastered and bricks on inner side that will be plastered.As effluent dam is not allowed the sow unit must be cleaned manually with shovel and wheelbarrow and solids must be discarded or thrown in windrows as per piggery production manual.House can be cleaned with high pressure hose on mist setting twice a week in order to minimize effluent run - off water

NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A1	Site establishment and removal and OHS is contractors responsibility	Count	1		
A2	Clear and Grub - as alluded,captured and specified during site briefing	Count	1		
A3	Backfill:- Suitable G 5 Backfill material will only be paid on proof of invoice.	m³	200		
<b>1</b>	<b>CONCRETE - 25 mPa for all concrete after 28 days</b>				
1.1	Foundation for I - sections (500mm x 500mm x 500mm)(22 positions)	m³	2.75		
1.2	Foundations for double brick wall - 300mm deep x 600mm wide x 108m	m³	19		
1.3	Foundation for double brick wall - inner partitioning - 300mm wide by 200mm deep x 250m - it is inclusive of feeding troughs	m³	15		
1.4	75mm Floorslab - >400m² (actuals as walls are not included)	m³	30		
1.5	75mm Concrete shoulders at main entrance - 2.0m x 11m x (2)	m³	3.5		
1.6	75mm concrete channel - 1m wide x 100m + P trap positions	m³	7.5		
1.7	400 x 400 for 100mm vertical pipe uprights - refer to gates - 56 positions	m³	3.5		
<b>2</b>	<b>FOOTPLATE AND "STARTER BAR" - 11 pillars per side</b>				
	Welded on IPE Pillar and bolted on to the foundation block				
2.1	250mm x 250mm x 10mm	count	22		
2.2	Starter Bar - Quantify all steel as per section view drawing and quote all inclusive price per position	count	22		
3	PILLARS - Refer to section AA - IPE - 120mm x 64mm x 8.36kg/m	m	48		
4	BEAMS - Refer to section AA - IPE - 120mm x 64mm x 8.36kg/m	m	103		
5	WEB-CUTS - Refer to section AA - IPE - 120mm x 64mm x 8.36kg/m	m	33		
6	RIDGE CONSTRUCTION - 18 lengths of 3m each - 0.5mm-0.6mm galvanized ridge	count	18		
7	RAFTER - Lipped channel rafters - with 250mm overhang each side - 150mm x 50mm x 20mm x 2mm (4,32kg/m)	m	505		
8	INSULATION - Under lipchannel - (allow overlapping)				
8.1	* Bubble foil D10 - thermal resistance 1,71 m². KW - foil both sides installed under lipped channel	m²	450		
8.2	* Silicon tubes - to seal overlaps	count	10		
8.3	* Galvanized binding wire 2mm	rolls	2		
8.4	* Galvanized perforated strap 20mm X 0,5mm - attach insulation to lipped channels	m	100		

NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
9	ROOF - 150 sheets of 5m each - 0.5mm Corrugated roof sheets	count	150		
10	TEKSCREWS - Roof to lipchannel attachment - 75 mm tek screws	count	3000		
11	WASHERS - Tek screw washers - 19mm bonded washers	count	3000		
12	DAMPCOURSE- Before bricklaying may commence				
12.1	Double	m	400		
12.2	Single	m	400		
12.3	30m x 3m DPC rolls - 250um	count	5		
13	BRICKS - Clay Brick - (prior approved by Regional Engineer)				
13.1	Face bricks - Outside and none plastered positions - Mottled Rustic or Similar	count	30000		
13.2	FBX or NFP - will be plastered	count	35000		
* Care must be taken to understand that the outer building will be built with Mottled rustic Clay Face bricks or similar quality and esthetical appearance and that the inner part of the building will be built with plastered bricks (Face brick extra or None Face Plastered) except for the inner wall part that is not being plastered and that will be all bricks above the 1.2m height from the floor level. If contractor makes a mistake on this aspect the expectation is that everything will be plastered at contractors expense.					
14	BRICKFORCE - Each and every fourth layer of bricks				
14.1	SABS - double	m	1000		
14.2	SABS - single	m	800		
15	WELDED MESH- Galvanized - Refer to northern sideview on drawing				
15.1	1.5m x 25mm x 13mm x 1.6mm mesh	m	70		
15.2	Hiltees 40mm X 6mm - to attach welded mesh to wall - every 0,5m	count	100		
15.3	Tek screws 16mm X 8mm - to attach welded mesh to lipped channel and IPE	count	150		
16	BINDING WIRE - Galvanized mesh attachment				
16.1	3.15mm galv.binding wire	m	250		
16.2	1,6mm Galvanized binding wire (5kg/roll)	count	1		
17	WIND RE-INFORCING - 12mm cross bracing - Refer to northern sideview on drawing				
17.1	12mm threaded rod	m	50		
17.2	M12 nut and washer	count	16		
17.3	50 x 8mm flatbar	m	1		
18	BUILDMIX- Bricklaying purpose				
18.1	Buildingsand	m <sup>3</sup>	39		
18.2	Cement (50kg)	count	195		
19	PLASTERMIX - All inner walls needs to be plastered from floor to height of 1.2m (nominal) - finish must be steel "smoothed" = ± 800 m <sup>2</sup>				
19.1	Plastersand	m <sup>3</sup>	25		
19.2	Cement (50kg)	count	125		

NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>20</b>	<b>LINTELS</b>				
20.1	Single doors 1.2m each	count	20		
20.2	Windows 4.5m each	count	24		
<b>21</b>	<b>DOORS</b>				
	900mm x 2032mm sliding door complete with rails and wheel hangers - 1.6mm plate on 25mm sq tube frame and handles	count	5		
<b>22</b>	<b>FEEDER - Refer to plan</b>				
22.1	Manual feeders - purpose built 6mm steelplate	count	55		
22.2	<b>If this items is accomodated via shelve items - give the total "unit" price</b>	count	1		
<b>23</b>	<b>HEATER - Gas heater installation can also be quoted as all inclusive unit price as per your suppliers quote.</b>				
23.1	DRM ceramic heater 250 watt - complete with reflector,generator,cable, plugs,switches and hanging hook (175 watt lamp is acceptable)separate specified quote from agents registered SAQCC	count	8		
	Systems as provided for on plan according to Health & Safety Act 85 for 1993				
	SANS 10087 Portion 3 - complete installation with heaters				
23.2	SBM 6 ZRS with variable regulators - (gas heater)	count	6		
23.3	Gas cylinder - 48kg	count	4		
23.4	Regulators	count	2		
23.5	Gas pipe - pexpipe16/20	m	60		
23.6	Expanded metal cages - to secure 48kg gas cylinders [roll bolts]	count	4		
23.7	Manifold - gas Double 2 Vapor	count	2		
23.8	2 shut off valves - one inside and one outside	count	2		
23.9	Certificate of compliance to be handed in with completion of LPG Gas installation Act 2009 Spec 17.3	count	1		
<b>24</b>	<b>WATER SUPPLY - EXTERNAL</b>				
<b>6m Tankstand must be built according to departmental plan.If not, it must be procured as shelve item via registered company able to give engineering approval.Concrete for tankstand pillars or Foot must be according to prior approved plan.</b>					
24.1	Legs: Angle iron 60mm x 70mm x 6mm - inclusive of offcut for foot legs	m	30.4		
24.2	Support beam: Channel iron 100mm x 50mm x 11kg/m - 2 lengths of 1738mm each	m	3.476		
24.3	Carrier beam: Channel iron 100mm x 50mm x 11kg/m - 3 lengths of 2200mm each	m	6.6		
24.4	Platform: Lipchannel 100mm x 75mm x 20mm x 2mm (4,32kg/m) (10 of them)Must be 2.2m to accommodate tank diameter	m	22		
24.5	Cross braces: Angle iron 50mm x 50mm x 5mm - 28 lengths of 1738mm each	m	48		
24.6	Tie rods: 10mm rod (alternative is 20mm x 3mm flatbar) - flatbar can be bolted	m	108		
24.7	Bolts: M10 bolts - inclusive of nuts and washers -	count	124		

NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
24.8	Foundation: Concrete 1:4:4 (cement:sand:stone)	m <sup>3</sup>	1.6		
24.9	Concrete slab 2.5m x 2.5m x 0.075m	m <sup>3</sup>	0.5		
24.91	Tank: JoJo or similar drinkwater (outlet 50mm) - 10 000l	count	1		
24.92	Red oxide - 2 layers	l	10		
24.93	Galvanized paint - 2 layers	l	10		
<b>25</b>	<b>DRINKER SYSTEM</b>				
25.1	2 Inline and 1 outlet at tankstand (valves) - 40mm one way ball valve	count	3		
25.2	15mm stainless steel drinker nipples	count	37		
	<b>(Farrow crates must come readily equipped with their drinker nipples)</b>				
25.3	Galvanized pipe - 25mm - 9@380mm and 29@450mm NGL - standard items placed on outside, - functional installation	count	37		
25.4	Wall brackets 15 x 25mm x 15° bend:	count	37		
25.5	Inclusive of all fittings - thread tape with galv fittings - complete	count	1		
25.6	External water supply (complete) - tank to building - measure on site	count	1		
25.7	Galvanize pipe - internal distribution - 20mm	m	120		
<b>26</b>	<b>ELECTRICAL - Separate specified quote from agents</b>				
26.1	ESCOM/Municipal connection - refer to your site and quantify in order to quote	count	1		
26.2	External electrical supply - Main DB - 16mm <sup>2</sup> Ø underground cable - L(m) to be surveyed - complete installation as per your electrician	count	1		
26.3	20w Single Led 1.5 complete unit - as indicated on plan	count	20		
26.4	Surflex cable - 2.5mm <sup>2</sup>	m	150		
26.5	Sub-distribution box - DB1, DB2, DB3, DB4	count	1		
26.6	S 11 weatherproof plug - S 11 weathertight wallplug - placement confirmed on site	count	9		
26.7	Mainswitch (60amp) - in sub-DB box	count	1		
26.8	Earthswitch circuitbreaker (60amp) - earthbreaker in sub-DB box	count	1		
26.9	Earthcable & copper rod	count	1		
26.91	Circuitbreaker - lights (20amp) - place in sub-DB box	count	1		
26.92	Circuitbreaker - plugs (15amp) - placed in sub-DB box	count	1		
26.93	Cable ties	count	100		
26.94	Energy saving led flood lights - both sides of building - 50w equivalent	count	2		
26.95	Lightswitches - complete	count	4		
<b>27</b>	<b>COC - Certificate of compliance to be handed in with completions (Electricity installation)</b>	count	1		

NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
28	<b>SAIL/CURTAIN</b> - Inclusive and complete according to suppliers specification				
	*contractor must familiarise with existing approved project in order to functionally install - copy and paste of already approved installation via site eng.recommendation.				
28.1	Hollow steel tubing 20mm X 2mm - install in top seam of curtains	m	70		
28.2	PVC Sail (Tarpaulin) 550g/m <sup>2</sup> - 2 of 25m x 1.8m and 1 of 9m and 1 of 10m	count	4		
28.3	Screws (Hiltees) - also for sail to wall fitment - 40mm X 6mm	count	100		
28.4	Washers dia 30mm - Hole must be small enough that Hiltee does not go through	count	100		
28.5	Tarpaulin 200mm x 500mm - Envelopes 2m - 550g/m <sup>2</sup>	count	4		
28.6	Double 200mm Pelmit - 550g/m <sup>2</sup>	count	4		
28.7	Nylon belt 50mm - 2m intervals (straps) - for total length of 70m	m	80		
29	<b>WINDOWS</b> - E4 - burglar proofed - complete with glass	count	12		
30	<b>WINCH</b>				
30.1	Winch 750kg - gear ration 3:1 with counter gear	count	4		
30.2	Steel plate 250mm x 250mm x 5mm - with support welded on to IPE - Winch secured with bolts & nuts	count	2		
30.3	Bolts M10	count	8		
30.4	Nuts M10 + washers	count	8		
30.5	Cable dia 5mm	m	80		
30.6	Cable dia 3mm	m	70		
30.7	Nylon swivel pully - 40mm	count	28		
30.8	Gate wheel pully - 80mm	count	2		
30.9	Crosby clamps 3mm - tie 3mm to 5mm cable (x2)	count	50		
30.91	Aliminium farrel - tie 3mm cable to pipe in sail	count	28		
30.92	Washer 50mm with 10mm hole - to secure eye bolts	count	28		
30.93	Eye bolts - 8mm x 150mm - supplier must include 2 nuts per bolt	count	28		
30.94	Nuts 8mm	count	50		
31	<b>BOAR/SOW CAGES and GATES</b> - Refer to detail drawing 30 - 33				
31.1	25mm x 2.5mm pipeframe	m	150		
31.2	12mm rod	m	300		
31.3	100 x 50 x 10 Flat iron	m	4		
31.4	M16 x 60mm Rawl bolt	count	25		
31.5	If this items is accomodated via shelve items - give the total "unit" price	count	1		
31.6	100mm x 2.5mm x 1.5m circular tube - vertical gate posts	count	60		

NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
32	FARROWING CRATES - Complete farrowing crates (shelve item) - inclusive of feeder and drinker nipple - complete ,functional installation - water via galvanize pipe	count	8		
33	<b>EXCAVATION -</b>				
33.1	Foundations - Building and gate posts	m <sup>3</sup>	45		
33.2	Excavation - electrical and backfilling -	m <sup>3</sup>	18		
33.3	Excavation - water supply -	m <sup>3</sup>	12		
34	<b>LOADING RAMP</b>				
34.1	Foundation excavations - 400mm x 300mm x 19,6m	m <sup>3</sup>	2.5		
34.2	Concrete foundations	m <sup>3</sup>	2.5		
34.3	Bricks (columns + side walls) - according to layout plan - Face brick - claybrick , mottled rustic or similar prior approved	count	3000		
34.4	Floor - 75mm x 25 mPa (12mm stone)	m <sup>3</sup>	1		
34.5	Backfilling material - appropriate backfill material - prior approved	m <sup>3</sup>	10.5		
34.6	Gates Functional installation on vertical posts - all inclusive as per plan	count	3		
35	<b>EFFLUENT - WC exit , 4500 Litres Septic tank and Absorption trench - Refer to drawing 1 and 2 on A4 for purpose of 4 x septic tanks</b>				
35.1	Pipe - 110mm pipe for purpose effluent waste water management	m	150		
35.2	95 Plain bend - uPVC elbow -	count	4		
35.3	Junction access 45 degree - refer to site	count	2		
35.4	Junction single plain 135°	count	2		
35.5	Bend plain 22.5 - refer to plan view	count	2		
35.6	Square junction - refer to section drawing	count	2		
35.7	Rodding eye 45° - refer to plan view	count	4		
35.8	Single socket - purpose of pipe joining	count	20		
35.9	PVC solvent cement 500 ml - purpose of pipe joining	count	4		
35.91	Excavations - 4 x 6m x 1.84m x 1.54m - septic tank	m <sup>3</sup>	70		
35.92	Concrete - 4 x 5.15m x 1.54m x 0.1m - septic tank floor (mix 1:2:3)	m <sup>3</sup>	4		
35.93	Concrete - 1.5m x 0.3m x 0.15m - septic tank precast slabs (17 slabs) x 4 tanks	m <sup>3</sup>	8		
35.94	10mm steel rod - re-in forcing for slabs	m	200		
35.95	Bricks - 12.1m x 1.74m - running meter x height / 110	count	10000		
35.96	Sand - 13m x 1.74m x 0.01m - purpose of plastering	m <sup>3</sup>	2		
35.97	Build sand - purpose of bricklaying	m <sup>3</sup>	4		

NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
35.98	42.5n - All purpose cement - brickwork	count	30		
35.99	42.5n - All purpose cement - plasterwork	count	8		
36	P - Trap, functionally installed - complete with steel grid over the plastic grid.Refer to site briefing explanation as each drop off point or outflow area must be indicated per individual site - refer to site engineer explanation.	count	2		
37	Bosal pipe - Cover cable at transformer and building - refer to site inspection	m	6		
38	Contractor must allow for 40mm hdpe class 6 from nearest indicated source towards building.This distance must be determined at site briefing session.Contractor must quote all inclusive price for fitting ,joints ,elbows,valves and for pipe being installed at minimum 400mm depth.	m	100		
39	12mm and 8mm steel reinforcing for purpose of concrete foundation strengthening.	count	1		
40	Refer to Fence drawing and quote all inclusive price for the establishment of 40m fence inclusive of 4 corner post positions and 2 pedestrian gates that will be placed nearest to building corners.Refer to site briefing explanation.	count	1		
41	Others: - as depicted during site briefing - indicate zero if none is indicated.	count	1		

<b>NB:All prices must be inclusive of transport and labour costs</b>				TOTAL	
* Completion of quantity schedule is subject to compulsory site inspection			ADD 10% CONTINGENCIES		
* This quote is for complete functional installation			SUBTOTAL		
* Exacts will be quantified at site briefing - where applicable			15% VAT		
* Only actuals will be paid			GRANDTOTAL		

CARRY AMOUNT OVER TO SBD

Constr. period in order to complete the project (working days)				
Compulsory site inspection	Yes			

Name of Company:

Contact - Name and Tel.nr"s

Date:

Signature:

\* This is a supply,deliver and construction.Attending the site briefing is compulsory. Item "others" only if depicted during site briefing.Indicate "zero" if none is prescribed during site briefing.This is functional turn key implementation.