

# BILL OF QUANTITIES

## PROJECT

PROPOSED SINGLE STOREY STORE

COUNCIL WAREHOUSE  
AT GA. MAAMENDHOO

JULY, 2022

SUMMARY OF BILL OF QUANTITIES

Proposed single story store, Council Warehouse

Bill No	Description	Material	Labor	Amount
1	PRELIMINERIES			
2	GROUND WORK			
3	CONCRETE			
4	MASONRY, PLASTERING AND FLOORING			
5	STEEL & WOOD WORKS			
6	DOORS AND WINDOWS			
7	PAINTING			
8	ROOFING			
9	ELECTRICAL			
GRAND TOTAL				

Item	Description	Unit	Qty	Material		Labor		Total
				Rate	Amount	Rate	Amount	
	<b>BILL No: 01</b> <b>PRELIMINARIES</b>							
1.1	<b>General Notes</b>							
(1)	<b>Abbreviations</b>							
	m - metre							
	No - numbers							
	m <sup>3</sup> - cubic metre							
	m <sup>2</sup> - square metre							
	Lm - Linear metre							
	t - tonnes							
	incl - including							
	mm - millimetre							
	dia - diameter							
	SS - Stainless steel							
	GI - Galvanized iron							
1.2	<b>Site Management Costs</b>							
(1)	Allow for all on and off site management cost including costs of forman and assistants, temporary services, telephone, fax, hoardings and similar	item	1.00					
1.3	<b>Sign Board</b>							
(1)	Allow for sign boards	item	1.00					
1.4	<b>Clean-up</b>							
(1)	Allow for clean-up of completed works and site upon completion.	item	1.00					
BILL No: 01 - PRELIMINERIES TOTAL OF BILL No: 01 - Carried over to summary								

Item	Description	Unit	Qty	Material		Labor		Total
				Rate	Amount	Rate	Amount	
<b>BILL No: 02</b>								
<b>GROUND WORKS</b>								
2.1	<b>General</b> (a) Rates shall include for: levelling, Grading, Trimming, Compacting to faces of excavation, keeping sides plumb, backfilling, consolidating and disposing surplus soil.							
2.2	<b>Site Clearing</b> (1) Demolition of existing structure including trees less than 0.5m girth complete with stumps and roots	item	1.00					
2.3	<b>Excavation</b> (a) Excavation quantities are measured to the faces of concrete members. Rates shall include for all additional excavation required to place the formwork. Excavation for							
	(1) Foundation Pad F1	m <sup>3</sup>	2.19					
	(2) Foundation Beam	m <sup>3</sup>	3.96					
2.4	<b>Back filling</b> (a) Rates shall include for levelling, grading, trimming and compacting. (2) Minimum 300mm thick hardcore on compacted ground	m <sup>3</sup>	38.70					
BILL No: 02 - GROUND WORKS								
TOTAL OF BILL No: 02 - Carried over to summary								

Item	Description	Unit	Qty	Material		Labor		Total
				Rate	Amount	Rate	Amount	
	<b><u>BILL No: 03</u></b> <b><u>CONCRETE</u></b>							
3.1	<b><u>General</u></b> (a) Rates shall include for: placing in position; making good after removal of formwork and casting in all required items to conform to structural and excavated tolerances (b) Rates shall include supply of all formwork item including form oil, timber, plywood, nails etc. (c) Mix ratio for reinforced concrete shall be 1:2:3 and lean concrete shall be 1:2:6 by volume.							
(1)	Allow for concrete testing	item	1.00					
3.2	<b><u>Preparation for Foundation</u></b> (a) Quantity is measured to the edges of concrete foundation members. Rates shall be inclusive of any additional concrete required to place the formwork.							
3.2.1	50mm thick lean concrete to bottom of							
I Narrow	<b><u>Foundation Pad</u></b>	m <sup>3</sup>	0.84					
	Cement	bags	5.00					
	River sand	bags	10.00					
	Coarse aggregate	bags	40.00					
3.3	<b><u>Reinforced Concrete</u></b> In-situ reinforced concrete to:							
3.3.1	<b><u>Footing (F1) 450x450x250, 14 Nos</u></b>	m <sup>3</sup>	0.91					
	Cement	bags	5.00					
	River sand	bags	10.00					
	Coarse aggregate	bags	40.00					
	<b><u>Reinforcement</u></b>							
	10mm. dia, 6m. high tensile steel bar	nos	27.00					
	<b><u>Formwork</u></b>							
	12mm thick plywood	nos	2.63					
	50mm x 50mm timber	m3	0.16					
	Nails	Kgs	0.38					
	Binding wire	Kgs	0.80					
	Mould oil	litres	1.00					
3.4	<b><u>Foundation Beam</u></b>							
	<b><u>FB 200mmx300mmx66m</u></b>	m <sup>3</sup>	3.96					
	Cement	bags	36.00					
	River sand	bags	72.00					
	Coarse aggregate	bags	216.00					
	<b><u>Reinforcement</u></b>							
	12mm. dia, 6m. high tensile steel bar	nos	70.71					
	<b><u>Formwork</u></b>							
	12mm thick plywood	nos	13.75					
	50mm x 50mm timber	m3	0.83					
	Nails	Kgs	1.98					
	Binding wire	Kgs	2.09					
	Mould oil	litres	2.00					
3.4	<b><u>Slump</u></b>							
	<b><u>Slump 200x200mmx300mm, 14 Nos</u></b>	m <sup>3</sup>	0.216					
	Cement	bags	2.00					
	River sand	bags	4.00					
	Coarse aggregate	bags	12.00					
	<b><u>Formwork</u></b>							
	12mm thick plywood	nos	0.08					
	50mm x 50mm timber	m3	0.01					
	Nails	Kgs	0.01					
	Mould oil	litres	1.00					
	Bolt 16mm (600mm Depth) with nut and washer	nos	4.00					

3.5	<b>Ground Slab</b>					
	<u>Slab 16.7x8.6mmx100mm, 1 Nos</u>	m <sup>3</sup>	14.362			
	Cement	bags	130.00			
	River sand	bags	260.00			
	Coarse aggregate	bags	780.00			
	<u>Reinforcement</u>					
	10mm. dia. 6m. high tensile steel bar	nos	330.00			
	<u>Formwork</u>					
	12mm thick plywood	nos	3.54			
	50mm x 50mm timber	m3	0.21			
	Nails	Kgs	0.51			
	Mould oil	litres	1.00			
3.6	<b>Other concrete works</b>					
	(a) Rates shall include for: concrete, formwork, reinforcement & finish as specified and shown on the drawings.					
3.6.1	<b>Water proofing</b>					
	Rates shall include for: dressing around and sealing to all penetrations					
(1)	Apply 2 coat slurry type water proofing to all surfaces of concrete below ground level in accordance with manufacturer's instructions.	m <sup>2</sup>	39.30			
<b>BILL No: 03 - CONCRETE WORKS</b>						
<b>TOTAL OF BILL No: 03 - Carried over to summary</b>						

Item	Description	Unit	Qty	Material		Labor		Total
				Rate	Amount	Rate	Amount	
<b>BILL No: 04</b>								
<b><u>MASONRY, PLASTERING AND FLOORING</u></b>								
4.1	<b><u>GENERAL</u></b>							
	(a) Rates shall include for: cleaning out cavities, forming rebated reveals and pointing and cleaning down to reveals where necessary; fractional size blocks, all necessary machine cutting, cutting or forming chases or edges of floor slabs, cutting or leaving holes and openings as recesses for and building in pipes, conduits, sleeves and similar as required for all trades; leaving surfaces rough or raking out joints for plastering and flashings, bedding frames or plates, building in joists, bearers or similar, temporary supports to openings, templates, reinforcement in walls and for all necessary making good							
4.2	<b><u>Cement blockwork</u></b>							
4.2.1	150mm wide solid blocks, laid on and incl. mortar, tie rods, compression joint gap filler, plastic wire mesh as specified							
(1)	Ground Floor	m <sup>2</sup>	69.00					
	Cement blocks 300x150x150mm	nos	1,533.33					
	Cement for block placing	bags	21.00					
	River Sand	bags	105.00					
4.3	<b><u>Plastering</u></b>							
	(a) Cement plastering on walls and concrete surfaces as specified incl. wire mesh at the joints of concrete surfaces and walls and water proofing additives / admixtures for all surfaces							
4.3.1	<b><u>Plaster on exterior surfaces of walls (2 coat)</u></b>							
(1)	External walls	m <sup>2</sup>	69.00					
	Cement for plastering	bags	30.36					
	River sand for plastering	bags	151.8					
4.3.2	<b><u>Plaster on interior surfaces of walls (1 coat)</u></b>							
(1)	Internal walls	m <sup>2</sup>	69.00					
	Cement for plastering	bags	15.18					
	River sand for plastering	bags	75.90					
4.4	<b><u>Cement Screed</u></b>							
4.4.1	35mm thick rough screed slab. Rates shall include for water proofing for toilet floor areas and terrace floor in addition to concrete water proofings.							
(1)	Ground, First & Second Floor	m <sup>2</sup>	124.00					
	Cement for screed	bags	36.00					
	River sand for screed	bags	180.00					
<b>BILL No: 04 - MASONRY, PLASTERING AND FLOORING</b>								
<b>TOTAL OF BILL No: 04 - Carried over to summary</b>								

Item	Description	Unit	Qty	Material		Labor		Total
				Rate	Amount	Rate	Amount	
<b>BILL No: 05</b>								
<b><u>STEEL &amp; WOOD WORK</u></b>								
5.1	<b>General</b>							
	(a) Rates shall include for: all labour in framing, notching and fitting around projections, pipes, light fittings, hatches, grilles and similar and complete with cleats, packers, wedges and similar and all nails and screws.							
5.2	<b>Steel Structure</b>							
5.2.1	<b>GI Columns</b>							
	Steel GI pipe 100mm	no	18.00					
	16mm diameter anchor bolts (600mm depth)	m	68.40					
	16mm diameter nuts	no	72.00					
	16mm diameter washers	no	144.00					
	16mm diameter washer	no	72.00					
	12mm thick base plate 200x200mm	no	18.00					
	<b>Painting</b>							
	Red Oxide	l	20.00					
	Aluminum	l	20.00					
	Thinner	l	10.00					
5.2.3	<b>Wall Clidding Exterior</b>							
	Lysaght zinc alume roofing sheet	m <sup>2</sup>	390.00					
	Timber 50x50	ft	774					
	Screw	m	156.00					
	Flashing	nr	3,096.00					
		m	12.00					
BILL No: 05 - WOOD WORK								
TOTAL OF BILL No: 05 - Carried over to summary								



Item	Description	Unit	Qty	Material		Labor		Total
				Rate	Amount	Rate	Amount	
<b>BILL No: 06</b>								
<b><u>DOORS AND WINDOWS</u></b>								
6.1	<u>General</u>							
	(a) Rates shall include for locks, latches, closers, push plates, pull handles, bolts, kick plates, hinges and all door & window hardware.							
	(b) Rates shall include for door frames and window frames, mullions, transoms, trims, glazing, tinting, timber panels,boardings, framing, lining, fastenings and all fixings and insallation.							
	(c) Glazing marked as Powder coated Aluminium to be with 60 micron anodised aluminium in metallic silver finish with 6mm green tinted clear glass as specified in the drawing.							
	(d) Rates shall include for door and window jamb as specified in the drawing							
	(e) All doors and windows shall be as specified in the drawing							
	(f) Rates shall include for all painting as specified							
	(g) All fire doors shall have at least 1hr fire rating							
6.3	<u>Aluminum Door Units</u>							
(1)	RS1	no	1.00					
BILL No: 06 - DOORS AND WINDOWS								
TOTAL OF BILL No: 06 - Carried over to summary								

Item	Description	Unit	Qty	Material		Labor		Total
				Rate	Amount	Rate	Amount	
	<u>BILL No:07</u>							
	<u>PAINTING</u>							
	<b>7.1 General</b>							
	(a) Rates shall include for: the provision, erection and removal of scaffolding, preparation, rubbing down between coats and similar work, the protection and / or masking floors, fittings and similar work, removing and replacing door and window, furniture.							
	(b) All painting work shall be in accordance with the specifications							
	<b>7.2 Walls</b>							
	7.2.1 Emulsion paint finish on plastered (exterior walls)							
	(1) Ground Floor							
		m <sup>2</sup>	69.00					
	Primer / Base coat for painting	litres	16.00					
	Weather shield Emulsion paint	litres	22.00					
	7.2.2 Emulsion paint finish on plastered (interior walls)							
	(1) First Floor & Second							
		m <sup>2</sup>	69.00					
	Primer / Base coat for painting	litres	16.00					
	Weather shield Emulsion paint	litres	22.00					
	Putty	kg	13.00					
BILL No: 07 - PAINTING								
TOTAL OF BILL No: 07 - Carried over to summary								

Item	Description	Unit	Qty	Material		Labor		Total
				Rate	Amount	Rate	Amount	
	<b>BILL No: 08</b>							
	<b>ROOFING</b>							
	(a) Rates shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories							
	<b>8.1 Roofing Frames</b>							
	Built up GI truss welded in GI columns in adherence with the drawing.							
	(1) GI Steel Truss - TR1 (6 Nos x 28m)	m	168.00					
	(2) GI Steel Truss - TR2 (20 Nos x 3.3m)	m	66.00					
	(3) Steel GI pipe 50mm	m	456.00					
	(4) Steel GI pipe 40mm	m	171.00					
	(5) GI Rectangular Hollow Structure (RHS) 50x150mm @600c/c	m	238.00					
	(6) Timber fascia board 25x225mm	m	17.00					
	<i>Painting</i>							
	Red Oxide	l	350.00					
	Aluminum	l	350.00					
	Thinner	l	250.00					
	Welding Rod	kg	50.00					
	<b>8.2 Roof Cover &amp; Accessories</b>							
	Corrugated roofing sheets, fixed in accordance to manufacturer's instruction, inclusive of all necessary accessories.							
	(1) Lysaght zinc alum roofing sheet	m <sup>2</sup>	134.31					
	(2) Rockwool insulation with mesh	ft	812.00					
	(3) 200 x 200mm Gutter	m <sup>2</sup>	134.31					
	(4) 200 x 200mm Gutter	m	17.00					
	(4) Gutter Clips	nr	51.00					
	(5) Down spouts	nr	2.00					
	(6) Screw	nr	3,248.00					
	(7) Flashing	m	34.20					
	<b>8.3 Gutter Connection</b>							
	PVC Pipe connection, fixed in accordance to manufacturer's instruction, inclusive of all necessary accessories.							
	(1) PVC Pipe Ø75	Lot	1					
	(2) PVC Elbow Ø75	m	13.00					
		no	6.00					
<b>BILL No: 08 - ROOFING</b>								
<b>TOTAL OF BILL No: 08 - Carried over to summary</b>								

Item	Description	Unit	Qty	Material		Labor		Total
				Rate	Amount	Rate	Amount	
	<b>BILL No:09</b> <b><u>ELECTRICAL</u></b>							
9.1	<b><u>Electrical installation</u></b>  (a) Rates shall include for: the Supply and Installation of conduits, pipes, boxes, trays for fittings & fixtures encased in concrete shall be executed as described in drawings and conformance to local regulation. Rates shall include for screws, nails, bolts, nuts, brackets, straps, rivets, plugs and all incidental accessories; rovision, erection and removal of scaffolding,  <b><u>Controls and Fixtures</u></b> Distribution boards Linear Led Pendant Light Weatherproof metal halide light, 250 watt Emergency light One way switch, Single gang, complete with box  Circuit breaker, 6A Circuit breaker, 10A MCB ECB  2.5mm2 Eletrical Wire (Blue) 2.5mm2 Eletrical Wire (Red) 2.5mm2 Eletrical Wire (Green) 2.5mm2 Eletrical Wire (Black)  Electric Conduit Pipe (Flexible) 20mm 2 way Junction Box 20mm 3way Junction Box 20mm 4way Junction Box 20mm Joint Socket 25mm dia Conduit Clip Electrical Tape							
		nr	1.00					
		nr	5.00					
		nr	3.00					
		nr	1.00					
		nr	8.00					
		nr	4.00					
		nr	2.00					
		nr	1.00					
		nr	1.00					
		roll	5.00					
		roll	5.00					
		roll	3.00					
		roll	5.00					
		roll	5.00					
		nr	5.00					
		nr	5.00					
		nr	5.00					
		nr	5.00					
		nr	20.00					
		nr	35.00					
BILL No: 09 - ELECTRICAL								
TOTAL OF BILL No: 09 - Carried over to summary								