

TSS INSULATION WORKSHOP AND SHELTERED STORE

DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SECTION 1				
CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
Contractor's general obligations				
(a) Fixed obligations	L/sum	1		
(b) Value-related obligations	L/sum	1		
(c) Time-related obligations	Month	4		
(d) Health and Safety obligations	Month	4		
Environmental Management				
(a) Environmental Compliance Officer	Month	4		
OVERHAUL				
Overhaul on material hauled in excess of 1,0 km (ordinary overhaul)	m ³ -km	10600		
SECTION 1200: GENERAL REQUIREMENTS AND PROVISIONS				
The Contractor's obligations in respect of Local and other Labourers:				
(d) Provision for Medical Examination for Local Labourers	PC Sum	1.00	R 30 000.00	R 30 000.00
COVID 19 Requirements for the team as per WHO standards	PC Sum	1.00	R 30 000.00	R 30 000.00
Advertisizing signboards				
Supply, transport to site and erect contract signboards	No	1		
Excavation for the exposing of , or searching of services				
Works cleaning and clearing (B11.7) Fixed	Item			
Value Related	Item			
Time Related	Item	1		
Instruction manuals and guarantees (B11.10) Fixed	Item			
Value Related	Item			
Time Related	Item			
As built information (B11.11) Fixed	Item			
Value Related	Item			
Time Related	Item	1		

SECTION NO.2		
BUILDING WORK		

BILL NO.1		
FOUNDATIONS		
EARTHWORKS		
FILLING UNDER FLOORS, ETC		
Approved G6 filling supplied and carted by the contractor and compacted in layers not exceeding 150mm to 95% Mod AASHTO density		
Under floors, steps, paving etc.	m3	280
Compaction of surfaces		
Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density		
	m2	3200
Prescribed density tests on filling		
Modified AASHTO Density test	No	42
SOIL POISONING		
Soil insecticide		
Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming		
	m2	1600
CONCRETE, FORMWORK AND REINFORCEMENT		
REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES		
Bases	m3	70
CONCRETE, FORMWORK AND REINFORCEMENT		
UNREINFORCED CONCRETE		
20MPa/19mm concrete		
Surface beds cast in panels on waterproofing.(L)	m3	125
Aprons cast in panels to falls (L)	m3	14
Ramps(L)	m3	3
Extra over concrete for thickening size 150mm deep 200mm top and tapering to 100mm at bottom including all excavation to 100mm backfilling etc.(L)		
	m	121
REINFORCED CONCRETE		
30MPa/19mm concrete		
Slabs including beams and inverted beams	m3	55
Stairs including landings, beams and inverted beams	m3	3
CONCRETE SUNDRIES		
Finishing top surfaces of concrete smooth with a steel Trowel		
Surface beds, slabs, etc	m2	24
Finishing top surfaces of concrete smooth with a power float		
Surface beds, slabs, etc	m2	940
Ramp to falls	m2	25
Finishing top surfaces of concrete smooth with a wood float		
Aprons to falls	m2	25
FORMWORK		
SMOOTH FORMWORK		
Smooth formwork to sides		
Concrete base	m2	50
Smooth formwork on soffits		
Slabs not exceeding 250mm thick, propped up exceeding 3.5m and not exceeding 5m high		
	m2	26
Sloping Slabs	m2	3
Sloping and stepped outer edges of stairs not exceeding 400mm high extreme		
	m	57
Slabs with sloping soffits, propped up between 2m and 4m high		
	m2	

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ROUGH FORMWORK (DEGREE OF ACCURACY II)		
Rough formwork to sides		
Edges, risers, ends and reveals not exceeding 300mm high or wide	m	121
TEST CUBES		
Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith. (Provisional)	Sets	16
Saw cut joints		
Saw cut joints in top of concrete (Provisional)	m	600
REINFORCEMENT		
Mild / High tensile steel reinforcement to structural concrete work		
Mild steel reinforcement to structural concrete work		
All Diameters	t	1.81
High tensile steel reinforcement to structural concrete work		
All Diameters	t	8.5
Steel Reinforcement		
Type 395 fabric reinforcement in concrete surface beds, slabs, etc(LI)	m2	940
MASONRY		
SUPERSTRUCTURE		
Brickwork of NFP bricks in class II mortar		
Half brick walls	m2	
Half brick walls in beamfilling.	m2	
One brick walls	m2	100
One brick in parapet walls	m2	
One brick gable walls	m2	29
Joint forming material in movement joints:		
12mm Bitumen impregnated fibre board built in vertically between brick skins not exceeding 300mm wide.	m2	
Brickwork reinforcement		
75mm Wide reinforcement built in horizontally	m	
150mm Wide reinforcement built in horizontally	m	439
Turning pieces		
230mm Wide turning piece to lintels etc	m	
Allied Concrete prestressed fabricated lintels		
110 x 75mm Lintels in lengths not exceeding 3m (Provisional)	m	
FACE BRICKWORK		
Face bricks (Purchase price of R 6 500,00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints		
Extra over brickwork for face brickwork	m2	69
Clean and wash face brick including removals of cement mortar on brick with acid brick clean or spirit of salt chemicals diluted with water as manufacturer's instruction and etc.		
Face brickwork	m2	900
QUARRY TILES		
152 x 152 x 16mm quarry tiles on brickwork with continuous joints in both directions and pointed on all exposed surfaces		
150mm Wide sills of one row of tiles set flat and slightly projecting	m	
NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS		
Nutec window internal sill, size 150mm x 15mm thick, manufactured in accordance with SANS 803:2005 and installed below window with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in Class II mortar with plastic slip joints at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations.		
15mm x 150mm Wide sills set flat and slightly projecting	m	

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WATERPROOFING**DAMP-PROOFING OF WALLS AND FLOORS**

One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"

Under surface beds m2 940

CARPENTRY AND JOINERY**DOORS, ETC**

Hardwood fire escape door with concealed hardwood edges and 4mm thick masonite covering on both sides hung to steel frame and galvanised sheeting on both sides

40mm Door 813 x 2032mm high. No 2

Semi Solid doors with concealed hardwood edges and 4mm thick masonite covering on both sides hung to steel frame

40mm Door 900 x 2125mm high (D02). No 3

IRONMONGERY**LOCKS**

Solid

Code 460/313 Blesbok four lever lockset No 5

DOOR CLOSERS AND FLOOR SPRINGS

Dorma

Dorma DPH301C 150 x 19mm stainless steel "D" shaped straight bolt-through pull handle (Sv/Steel) Pairs 5

METALWORK**STAINLESS STEEL BALUSTRADING**

Purpose made steel balustrade

1000mm High balustrade. m 9

STEEL WINDOWS, DOORS, ETC

Standard Residential steel residential windows burglar bars to all sashes

5 Panel mild steel window, size 1600 x 1445mm high. No 10

2 Panel mild steel window, size 1800 x 1200mm high. No 3

STEEL ROLLER SHUTTERS ETC

Thermoteck or Equal Approved Industrial roller shutters fixed to brickwork or concrete

Industrial roll up shutter door to suit opening size 4500 x 3000mm high button or remote operated, including roller box and opening mechanism, rubber weather strips, handles, Roll-A-Guides, hinges, fixing bolts, tracks, 2 no bolts and pad locks, etc, fixed to brickwork or concrete with a minimum of 100mm side room and 350mm headroom and pre-paint to match roof sheeting.. No 1

Industrial roll up shutter door to suit opening size 4500 x 3500mm high button or remote operated with pedestrain door, including roller box and opening mechanism, rubber weather strips, handles, Roll-A-Guides, hinges, fixing bolts, tracks, 2 no bolts and pad locks, etc, fixed to brickwork or concrete with a minimum of 100mm side room and 350mm headroom and pre-paint to match roof sheeting.. No 1

Industrial roll up shutter door to suit opening size 4500 x 4500mm high button or remote operated with pedestrain door, including roller box and opening mechanism, rubber weather strips, handles, Roll-A-Guides, hinges, fixing bolts, tracks, 2 no bolts and pad locks, etc, fixed to brickwork or concrete with a minimum of 100mm side room and 350mm headroom and pre-paint to match roof sheeting.. No 2

INDUSTRIAL GUTTER AND DOWN PIPE

Industrial Roof Gutter

150 x 150 mm Industrial gutter m 75

Down pipe

3000mm x 100 x 75mm Down pipe including shoes, projection and etc. No 18

PLASTERING**SPECIALIST PLASTER, WALL COVERINGS, FLOOR COATINGS, ETC.**

Industrial heavy traffic rough epoxy resin floor

On floors including 100mm high against walls m2 940

INTERNAL PLASTER

Cement plaster on brickwork

On walls(LI) m2 160

GLAZING				
GLAZING TO STEEL WITH PUTTY				
4 mm Clear float glass				
Panes exceeding 0,5 m2 and not exceeding 2m2	m2	90		
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PAINTWORK				
PAINTWORK ETC TO NEW WORK				
ON FLOATED PLASTER				
Plascon Wall & All Suede Sheen Finish to interior new cement plaster. Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer with an overcoating time of 16 hours and finish with two coats of Plascon Wall & All Suede Sheen Finish with 1 hour drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.				
On internal walls(LI)	m2	160		
ON SMOOTH CONCRETE				
Prepare surfaces and remove all loose material, and rinse. Apply flexible crackfiller to holes and cracks, one coat plaster primer and two coats Plascon Professional Copolymer Acrylic paint				
On ceilings, beams, walls and columns(LI)	m2	26		
ON METAL				
Plascon Velvago Satin to exterior new mild steel (NW 683). Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to S13 of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvago Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.				
On steel windows(both sides measured)	m2	55		
On roof trusses	m2	90		
ON WOOD				
Plascon Velvago Satin to interior new wood (NW 571). Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat of Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats of Velvago Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.				
On doors(LI)	m2	16		
				-
SECTIONAL SUMMARY BUILDING WORKS				
Foundations	Page			-
Concrete, Formwork and Reinforcement	Page			-
Masonry	Page			-
Waterproofing	Page			-
Capentry and Joinery	Page			-
Ironmongery	Page			-
Metalwork	Page			-
Plastering	Page			-
Glazing	Page			-
Paintwork	Page			-
				-

PAVING (PROVISIONAL)				
BILL NO. 1				
INTERLOCKING PAVING IN ROADS				
Pavers				
Concrete paving blocks				
80mm Thick class 25Mpa plain concrete interlocking paving blocks	m2	700		
20mm River sand				
Under concrete pavers	m3	35		
Approved weed killer				
Hyvar X or other equally approved soil herbicide at a rate of 50 gram/m2 unc	m2	650		
Precast concrete kerbs:				
Kerb (SABS 927 fig 9b) 330 x 300mm x 175mm high with 150 x 150 x 300mm Class 15/19 unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	140		
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PROVISIONAL SUMS				
SUPPLEMENTARY PREAMBLES				
NOTE: Tenderers are referred to the definition of general attendance on nominated sub-contractors given in Clause 9 of the Preliminaries				
NOTE: Under no circumstances may any Prime Cost - Provisional Amount, etc be extended at an amount lower than the amount given in the Bill				
<p>THE FOLLOWING PROVISIONAL SUMS ARE FOR WORK TO BE EXECUTED BY SELECTED SUBCONTRACTORS. The following Provisional Sums are for specialists work to be executed by a selected Sub-contractor who upon appointment in terms of the Conditions of Contract shall be deemed to be a Domestic Sub-Contractor to the Contractor. A Selected Sub-Contractor shall be a Sub-contractor executing work for which a sum of money is provided for in the Bills of Quantities or a Sub-contractor executing additional specialist work which arises as a result of an instruction by the Principal Agent/Engineer. Tender documents for such work shall be prepared by the Principal Agent/Engineer in consultation with and to the approval of the Contractor and such tender document shall be issued by the Principal Agent/Engineer to a list of tenderers agreed upon between the Principal Agent/Engineer and Contractor. Tenders shall be submitted to the Principal Agent/Engineer. The Selected Sub-contractor shall be chosen by the Principal Agent/Engineer and the Contractor, and the Contractor shall satisfy himself that such selected sub-contractor can meet the requirements of the Sub-Contract agreement and the Contractor shall inform the Principal Agent/Engineer accordingly. The procedure relating to the method of selection, obtaining of tenders, adjudication thereof and the appointment of the Selected Sub-contractor shall not create any contractual relationship between the Client and the Selected Sub-contractor.</p>				
Electrical installation, etc				
Provide the sum of R 200 000,00 (two Hundred Thousand rands) for electrical installation by Specialists	Item	1	200 000.00	200 000.00
Allow for giving every facility to Specialists as described	Item	1	5 000.00	5 000.00
Mechanical Installation, etc				
Supply and installation for HVAC units as per the drawings and provide shopdrawings	Lumps um	1		
Plumbing and Drainage, etc				
Provide the sum of R 70 000,00 (sixty Thousand rands) for plumbing and drainage installation by Specialists	Prov sum	1	70 000.00	70 000.00
FINAL SUMMARY				
PRELIMINARIES	Page			-
BUILDING WORKS	Page			-
PAVING	Page			-
PROVISIONAL SUMS	Page			
Sub Total - A	ST			
CONTINGENCY SUM				
Allow the amount of R 150 000,00 (One hundred and Fourty Thousand Rands) for contingencies for building work, to be used as directed by the Principal Agent and deducted in whole or in part if not required.	Item	1	150 000.00	150 000.00
Sub Total - B	ST			
Add: Value Added Tax at 15%	TAX	15%		
ESTIMATED CONSTRUCTION COST (INCLUDING VALUE ADDED TAX)				
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