

**Major Refurbishment and Additions to the existing  
Galeshewe Day Hospital  
in Kimberly**

Item No		Quantity	Rate	Amount R
	<p><b><u>SECTION NO.2</u></b></p> <p><b><u>BUILDING WORK</u></b></p> <p><b><u>BILL NO.3</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said Model Preambles.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Cost of tests:</u></b></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).</p> <p><b><u>Formwork:</u></b></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.</p> <p align="center"><b>Carried to Trade Summary</b></p> <p>BUILDING WORKS Bill No. 3 CONCRETE, FORMWORK AND REINFORCEMENT <i>DARK HORSE PROJECTS &amp; INVESTMENT GROUP (PTY) Ltd</i></p>			
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Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described

Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described.

Unless otherwise agreed as being measurable in terms of the foregoing paragraph, formwork necessitated by irregularly excavated faces or for other reasons decided upon by the contractor (e.g. over excavation) is not separately measurable. The cost thereof shall be deemed to be included in the contractor's allowance for concrete cast against excavated surfaces.

Provisional quantities allowing for the formwork described above together with the associated excavation for working space, have been measured in these Bills of Quantities. In the final account, these provisional quantities will be omitted and formwork to be measured will be determined by the initial prescription and/or subsequent authorised instructions of the structural engineer, together with formwork determined by the quantity surveyor as being necessary as defined above

For tendering purposes, the structural engineer has indicated that, for design purposes, he will require formwork to all the sides of the following concrete elements below ground level:

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks.

**Carried to Trade Summary**

BUILDING WORKS

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	The structural engineer reserves the right to vary the above requirements at any time during the construction period at his discretion				
	<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
	<b><u>10 Mpa/19mm Concrete.:</u></b>				
2/3/1	Surface blinding under bases, beams, footings, etc. (Provisional).	m <sup>3</sup>	313		
	<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
	<b><u>25 Mpa/19mm Concrete:</u></b>				
2/3/2	Strip footings.	m <sup>3</sup>	534		
	<b><u>REINFORCED CONCRETE</u></b>				
	<b><u>25 Mpa/19mm Concrete.:</u></b>				
2/3/3	Surface beds on waterproofing.	m <sup>3</sup>	812		
2/3/4	Slabs, including beams and inverted beams	m <sup>3</sup>	3 496		
2/3/5	Walls	m <sup>3</sup>	448		
2/3/6	Bases.	m <sup>3</sup>	884		
2/3/7	Lift pit bases.	m <sup>3</sup>	3		
2/3/8	Isolated beams	m <sup>3</sup>	30		
2/3/9	Stairs including landings, beams and inverted beams.	m <sup>3</sup>	31		
2/3/10	Ramps	m <sup>3</sup>	227		
2/3/11	Bottoms and sides of isolated gutter beams	m <sup>3</sup>	14		
	<b><u>30 Mpa/19mm Concrete.:</u></b>				
2/3/12	Columns.	m <sup>3</sup>	230		
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2/3/25	Beams.	m <sup>2</sup>	1 289		
2/3/26	Beams circular exceeding 1m radius	m <sup>2</sup>	83		
2/3/27	Isolated beams	m <sup>2</sup>	183		
2/3/28	Sloping and stepped outer edges of stairs not exceeding 400mm high extreme	m	166		
	<b><u>Rough formwork to circular columns</u></b>				
2/3/29	440mm Diameter column average 3790mm high	No	106		
2/3/30	440mm Diameter column average 800mm high in foundations (Provisional)	No	61		
	<b><u>Rough formwork to soffits</u></b>				
2/3/31	Slabs not exceeding 250mm thick, propped up exceeding 1500mm and not exceeding 3500mm high	m <sup>2</sup>	1 284		
2/3/32	Slabs not exceeding 250mm thick, propped up exceeding 3500mm and not exceeding 5000mm high	m <sup>2</sup>	22		
2/3/33	Slabs exceeding 250mm and not exceeding 500mm thick, propped up exceeding 1500mm and not exceeding 3500mm high	m <sup>2</sup>	10 760		
2/3/34	Slabs exceeding 250mm and not exceeding 500mm thick, propped up exceeding 3500mm and not exceeding 5000mm high	m <sup>2</sup>	349		
2/3/35	Slabs sloping exceeding 250mm and not exceeding 500mm thick, propped up exceeding 3500mm and not exceeding 5000mm high	m <sup>2</sup>	385		
2/3/36	Beams exceeding 1500mm high not exceeding 3500mm high.	m <sup>2</sup>	388		
2/3/37	Beams circular exceeding 1m radius propped up not exceeding 1.5m high	m <sup>2</sup>	41		
2/3/38	Isolated beams propped up exceeding 1.5m and not exceeding 3.5m high	m <sup>2</sup>	44		
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2/3/39	Stairs with sloping soffits	m <sup>2</sup>	145		
2/3/40	Landings exceeding 250mm and not exceeding 500mm thick	m <sup>2</sup>	37		
	<b><u>Boxing in rough formwork to form</u></b>				
2/3/41	100 x 50mm Horizontal grooves along bottom edges	m	96		
	<b><u>Boxing in smooth formwork to form</u></b>				
2/3/42	20 x 20mm Chamfers along top or bottom edges	m	96		
	<b><u>MOVEMENT JOINTS ETC.</u></b>				
	<b><u>Saw cut joints.:</u></b>				
2/3/43	40 x 3mm Saw cut joint in top of concrete.	m	550		
	<b><u>'Sondo Jointex' or equal and approved joint forming material in movement joints between horizontal concrete and brick surfaces including 10mm expanded Polystyrol Bondbreaker:</u></b>				
2/3/44	10mm Joints not exceeding 300mm wide.	m	1 388		
	<b><u>Expansion joints with softboard between vertical concrete and brick surfaces</u></b>				
2/3/45	10mm Joints not exceeding 300mm high along edges of surface beds	m	1 052		
	<b><u>REINFORCEMENT (PROVISIONAL)</u></b>				
	<b><u>High tensile steel reinforcement to structural concrete work.:</u></b>				
2/3/46	High tensile steel bars of varying diameter.	t	874.23		
	<b><u>Mild steel reinforcement to structural concrete work.:</u></b>				
2/3/47	Mild steel bars of varying diameter.	t	154.79		
	<b>Carried to Trade Summary</b>				
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2/3/48	<p><b><u>Fabric reinforcement.:</u></b></p> <p>Type 245 fabric reinforcement in concrete surface beds, slabs, etc.</p>	m <sup>2</sup>	5 411		
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