

higher education & training

Department: Higher Education and Training REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE QUANTITY SURVEYING N6 13 APRIL 2018

This marking guideline consists of 8 pages.

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QUANTITY SURVEYING N6

QUESTION 1

1.1	1.1.1 1.1.2 1.1.3 1.1.4	Square metres Square metres Cubic metres Metres	
	1.1.5 1.1.6 1.1.7	Square metres Metres Square metres	
	1.1.8	Metres (8 × 1)	(8)
1.2	1.2.1	 Such quantities will be described in the bills of quantities as provisional. These are quantities temporally allowed for work that could not be measured at tender stage. 	

- The work will be measured as the work proceeds.
- The contract amount will be adjusted using the rates supplied at tender stage.

(5)

These are quantities for work that could not be established due

- 1.2.2 Subcontractor is appointed by the architect or engineer.
 - He is a subcontractor that does specialist work.
 - He will supply all materials and labour to the site.
 - He works under the supervision of the main contractor.
 - Main contractor may allow for attendance and for profit upon subcontractor.

(5)

- 1.3 Descriptions should contain the information required by the Standard System of Measuring Building Work.
 - Descriptions must be clear, concise, precise and unambiguous.
 - Descriptions must be consistent both in their wording and the order in which details and sizes are given.
 - Good grammar and punctuation are essential.

to its difficult nature.

- Descriptions must be as brief as possible and repetitive words must be avoided.
- The word 'ditto' must be used carefully as it is difficult to understand.
- The order of the trades and items in the Standard System of Building Work (7) must reflect in the bills of quantities. [25]

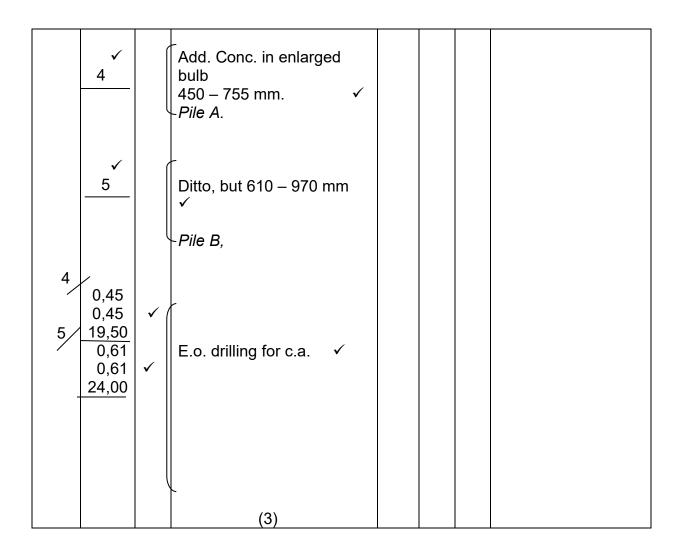
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QUESTION 2

Reinforced concrete piles

Allow to establish plant on site. 4 4 4 50 5 5 5 5 5 5 5 5			/			
9 Setting up plant at pile positions 4+5+ = 9 No. 12 mm dia. h.s. reinf. Pile A 16 mm dia. h.s. reinf. Pile B. 9 10,00 Aug. drill 450 - 710 mm Dia. in firm grnd. n.e 10 m. Pile A,B, 9 5,00 Ditto, but exce. 20 n.e. 25 m. Pile B 24,000 - 20,000 = 4,000 E.o. drilling for under-Reaming for piles \(\frac{4}{50} - 770 \) mm dia. Pile A,B. 25 MPa reinf. conc. in 450 mm dia. pile. Pile A. 19,500 + 0,300 = 19,800 m Ditto, but exce. 10 n.e. 15 m. Pile A,B, 9 5,00 Ditto, but exce. 10 n.e. 15 m. Pile A,B,			plant on site. ✓ &			n.e. 20 m. <i>Pile A</i> Pile B 19,500 – 15,000 =
(1)	4 6 20,0 5 6 24,0 9 10,0	0	Setting up plant at pile positions 4+5+ = 9 No. 12 mm dia. h.s. reinf. Pile A 16 mm dia. h.s. reinf. Pile B. Aug. drill 450 – 710 mm Dia. in firm grnd. n.e 10 m. Pile A,B, Ditto, but exce. 10 n.e. 15 m. Pile A,B,	4/	9	Ditto, but exce. 20 n.e. 25 m.

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[25]

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QUESTION 3

2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	1,61 0,90	√ (Timber casement window All × 2 FRAME 56 × 44 mm Meranti tbr. once rebated & once grooved. ✓ -Head & cill -stile	2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	1,61 0,14 0,90 0,14 0,90 0,20 1,61 0,20		Two cts. clear varnish to tbr. surfaces. ✓ -Head, cill -stiles -Mullion -Canopy Girths Stile, head & cill
2/2	<u> ,0,90</u>	√ (56 x 44 mm Meranti tbr. ✓ twice rebated. – <i>Mullion</i>				$2 \times 0.044 + 0.056$ = 0.144 m \checkmark Mullion $2 \times 0.044 + 2 \times 0.056$ = 0.200 m \checkmark
2	5,02		Prime backs of tbr. frame.				<u>Canopy</u> 0,018 + 0,022 = <u>0,202</u> m
2	1,61		$2 \times 1,611 = 3,222$ $2 \times 0,900 = 1,800$ - Canopy $5,022$ m \checkmark				✓ CASEMENTS
2	<u>⁄1,61</u>		18 × 22 mm tbr. once grooved. ✓ -Canopy	2/2	2	√	406 × 812 mm tbr. casement w. 32 × 44 mm stiles, top rail & bot. rails, once rebated.
				/2	0,41 0,81		Two cts. clear varnish to tbr. surfaces of casement. ✓
			(1)				(2)

2/2/		GLAZING	
	0,34	3 mm thick clr. float glass ✓ exce. 0,1 n.e 0,5 m² ✓	
		Sizes (casements) 406 – 2 x 32= 0,342 m ✓ 812 – 2 x 32= 0,748 m ✓	
2/(0,62 0,83	Ditto, but exce. 0,5 n.e. 2 m²√	
		Fixed light $603 + 2 \times 10 = 0,623 \text{ m}$ \checkmark $812 + 2 \times 10 = 0,832 \text{ m}$	
		IRONMONGERY	
2	4	32 mm concealed brass hinge.	
2	2	✓ 300 mm brass stay and pins.	
		(3)	

[25]

QUESTION 4.1: OMISSIONS

2/2/	19,86 2,59 0,33 2,59	✓	E.o. bkwrk. for fcgs.✓		
2	0,91 2,13	✓	Ddt. E.o ord. bks. for fcgs.		
2/2/	0,06 2,13	✓	Ditto, but in reveals. ✓		
2/	0,06 0,91	✓	Ditto, but to hor. soffits. ✓		
					(9)

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QUESTION 4.2: ADDITIONS

2 / 2 / 2 /	19,86 2,59 0,33 2,59	\[\left\) \[\left\]	15 mm thick vert. pls. 1:4 c.m. mix. ✓	2,	0.06 0,91	✓	15 mm thick pls, to hor. bk. wl. in n.w. n.e. 300 mm wide.
			One undercoat & two cts. pva pt. to vert. pls. wls. Adjustments				& One ct. undercoat & two. cts. pva pt. to hor.surf. n.e. 300 mm wide
2/	0,91 2,13	✓	<u>Ddt.</u> 15 mm thick a.b. ✓				
			Ddt. One ct. undercoat & two cts. pva a.b.				
2/2/	0,06 2,13	✓	Add √ 15 mm thick pls. to reveals n.e. 300 mm wide.				
			& V One ct. undercoat & two cts. pva pt. to vert. pls. wls. n.e. 300 mm wide				(16)

[25]

TOTAL: 100