



**higher education
& training**

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

QUANTITY SURVEYING N6

14 AUGUST 2019

This marking guideline consists of 8 pages.

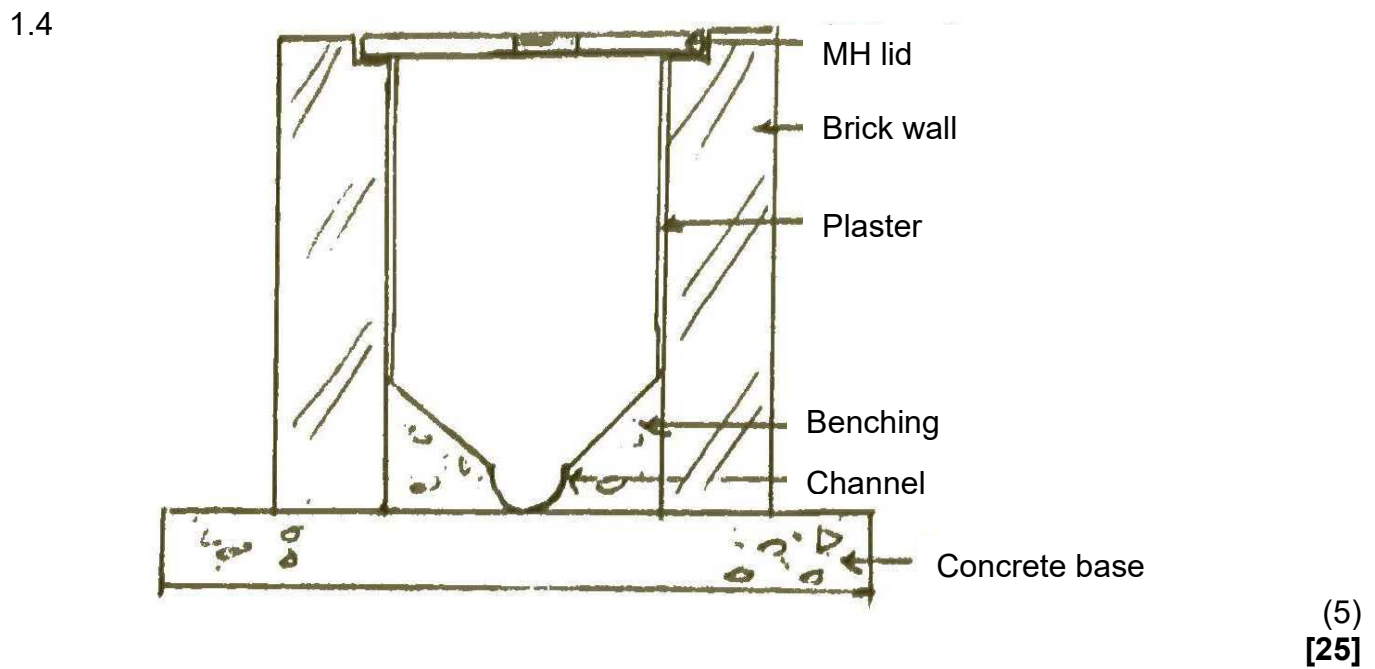
QUESTION 1

- 1.1 1.1.1 Number
 - 1.1.2 Tons
 - 1.1.3 Square metres (m²)
 - 1.1.4 Cubic metres (m³)
 - 1.1.5 Square metres (m²)
 - 1.1.6 Metres (m)
- (6 × 1) (6)

- 1.2 1.2.1 Drawn up by the measurer (taker-off)✓ of the work section that needs to be measured✓
 - 1.2.2 Rounding off✓ of decimal quantities to the nearest full quantity.✓
- (2 × 2) (4)

- 1.3 1.3.1 Amount of money allowed in the bill of quantities.✓ for specialist work to be carried out by a specialist subcontractor✓ on a supply and fixing of material contract.✓ The final cost for the work will be established by the quantity surveyor✓ who will adjust the amount originally allowed in the bill of quantities. (5)

- 1.3.2 Amount of money✓ allowed in the bill of quantities. For the supply only✓ of specialist materials or units✓ by a specialist supplier.✓ The final cost is adjusted by the quantity surveyor in the final account.✓ (5)



QUESTION 2

	5,38 0,60 0,52	✓	Excav. in firm grd. for s.t. n.e. 2m dp. from g.l. ✓ $0,600 - 0,220 = 0,380 \div 2$ $= \underline{0,190 \text{ m}} \checkmark$ $5,000 + 2/0,190$ $= \underline{5,380 \text{ m}} \checkmark$ $0,300 + 0,220 = \underline{0,520 \text{ m}}$	3,50 5,00 0,08	✓	15Mpa. mass conc. in s.b incl. s.o. & c. hor. top surface. ✓	
2	5,38			5,00			
2	0,52	✓	R.o.c. to sides of s.t. n.e. 1,5m dp. ✓	2	2,63	19mm Thk. pls. to ext. vert bk wl. ✓	
	0,60 0,52	✓		0,22 2,63	✓		2,400 + 0,075 + 2/75 = <u>2,625 m</u> ✓
	5,00 2,78	✓	220 mm Thk. bk. wl. in pls. bks. in 1:4 c.m. mix. ✓ $2,400 + 0,075 + 0300$ $= \underline{2,775 \text{ m}} \checkmark$	5,00	✓	114 × 38 mm S.S.A.P. tbr. w.p. ✓	
2	5,38			5,00			
2	0,30	✓	B/fill to sides of bk. wl. ✓	0,30	✓	Treat tbr. w.p. before fixing. ✓ $2/0,038 + 2/0,114$ $= \underline{0,296 \text{ m}} \checkmark$	
	0,22 0,19 0,30	✓					
	3,50 5,00 0,15	✓		Filling under conc. s.b. ✓			
			(1)			(2)	

5	5	✓	{	Single mono plate-nailed tbr. roof truss, 3,5 m span, 0,5 m rise, two diag. struts and 300 mm eave projection. ✓	5,00	✓	{	I.b.r. steel roof shts. ✓								
					3,61											
	5	✓			}	Wrought ends of tbr. ✓ rafters.			5,00	✓	}	Waterproof flashing @ rf. & wl. intersection. ✓				
													&			
	5	✓							}	Extra for vert. plumb cut. ✓					}	250 × 38 mm W.S.A.P. tbr. fascia brd. ✓
5,00	✓	}	150 × 75 mm Tbr. w.p. ✓ Incl. fixing steel brackets.	1			✓	}					100 × 100 mm Pvc ✓ Plastic incl. brackets screwed to tbr. fascia.			
5	✓			}	76 × 50 mm Tbr. purlin on tbr. rafters. ✓	3,15	✓				}	75 Dia. pvc downpipe. ✓				
5,00	✓															
										0,600 swanneck						
										<u>0,150</u> shoe						
							<u>3,150</u> m ✓									

(50 ÷ 2) [25]

QUESTION 3

			<u>Door</u>				
	1	✓	3-Pan. meranti dr. size 864 × 2 019 mm ✓	2,88 0,27	✓	2 Cts. clr. varnish to tbr. frame. ✓	
			2,080 -(76-15) = 2,019 m ✓ 0,925-0,061 = 0,864 m ✓			Girth 2 x 76 = 0,152 + 0,114 0,266 m ✓	
	0,91 2,06	✓	2 Cts. clr. varnish to tbr. dr. ✓			<u>Adjustments</u>	
			2,019 × 0,864 + 0,044 0,044 2,063 × 0,908 ✓			<u>Ddt</u>	
	3	✓	100mm H.d brass butt hinge. ✓	0,93 2,18	✓	270 mm Thk. cav. bk. wl. a.b. ✓	
						2,080 + 0,100 = 2,180 m ✓	
	1	✓	3-Lever mortise lock. ✓			&	
			<u>Frame</u>			<u>Ddt.</u>	
	5,09	✓	76 × 114 mm meranti tbr. in dr.frame once reb. incl. bldg. in. ✓			E.o ord. bkwrk. for fcgs. a.b. ✓	
			2 × 2,080 = 4,160 + 0,925 5,085 m ✓	0,93 2,08	✓	<u>Ddt</u>	
			&			Int. pls. to vert. bk. wl. a.b. ✓	
			Prime backs of frame. ✓			&	
						<u>Ddt</u>	
						2 Cts. pva pt. a.b. ✓	
			(1)			(2)	

	0,93	✓	<u>Ddt.</u> 76 mm Meranti sktg. ✓		0,93	✓	Ditto, but to opening head. ✓
			&		0,08	✓	
			<u>Ddt.</u> 2 Cts. clr. varnish to tbr. sktg. ✓	2 /	0,08	✓	Pls. to vert. bk. wl. in n.w. n.e. 300 mm wide. ✓
					2,08	✓	
			<u>Add.</u> 15 Mpa mass conc. in s.b. ✓ a.b. in thres.				&
	0,93 0,27 0,10	✓					2 Cts. pva. pt. in n.w. n.e. 300 mm wide. ✓
	0,93 0,27	✓	Pls. screed in thres. a.b. ✓		0,93 0,08	✓	Pls. to hor. bk. soffit a.b. ✓
							&
4 /	0,93	✓	Brk. reinf. in bldg. solid cav. in bkwrk. over dr. opening. ✓	2 /	0,08	✓	76 mm Meranti sktg. in reveals. ✓
2 /	2,08	✓	Bldg. solid cav. to sides of tbr. frame. ✓				&
2 /	2,08 0,08	✓	E.o. ord. bkwrk. for fcgs. in reveals. ✓				2 Cts. clr. varnish to tbr. sktg. ✓
			(3)				(4)

(50 ÷ 2) [25]

QUESTION 4.1 **OMISSIONS**

4 / 6	20,00	✓	12 mm Dia. h.s. reinf. ✓				
4 / 5	19,80	✓	25 Mpa reinf. conc. in 450 mm dia. pile. ✓				
5 / 4	24,30	✓	25 Mpa reinf. conc. 710 mm dia. pile. ✓				
	4	✓	Add. conc. a.b.in enlarged bulb 450 – 755 mm. ✓				
	5	✓	Add. conc. in enlarged bulb 610 – 970 mm ✓				

(10)

QUESTION 4.2 ADDITIONS

✓ 4 / 6	✓ 20,00	✓	✓ 16 mm Dia. hs reinf. ✓				
✓ 4 /	✓ 19,80	✓	✓ 30 Mpa. reinf. conc. in 450 mm dia. pile. ✓				
✓ 5 /	✓ 24,30	✓	✓ Ditto, ditto but in 710 mm dia. pile. ✓				
	4	✓	✓ Add. Conc. a.b. in enlarged bulb 450 – 755 mm dia. ✓				
	5	✓	✓ Add. Conc. a.b. in enlarged bulb 610 – 970 mm dia. ✓				

(15)
[25]

TOTAL: 100