higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

QUANTITY SURVEYING N5

16 April 2020

This marking guideline consists of 9 pages.

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SECTION A

QUESTION 1

1.1

5,500
+2 × 0,190 = 0,380
5,880 m

(1)

1.2

5,88
0,60
0,52

Excav. in earth for s.t. n.e. 2 m dp. from g.l.

0,300 + 0,220 = 0,520 m

(2)

1.3

2 / 5,88
0,52
2 / 0,60
0,52

R.o.c. to sides of s.t. n.e. 1,5 m from g.l.

(2)

1.4

5,88
0,60
0,22

25 MPa mass conc. in fdn.

(2)
[7]

QUESTION 2

2.1

5,50
2,78

220 mm thick bk. wl. in ord. bks. blt. in s.b.

Height = 2,400
0,075
0,300
2,775 m

2.2

2 / 5,88
0,19
0,30
2 / 0,22
0,19
0,30

Backfill to sides of wl.

2.3

5,50
2,40

Bag bk. wl. with c.m. mix

2.4

5,50
2,63

19 mm thk. plaster to vert. bk. wl.

2,400 + (3 × 0,075) = 2,625 m
Or + (2 × 0,085 + 0,075)= 2,645 m

2 / 0,22
2,63

Ditto, but in n.w. n.e. 300 mm wide

(4 × 2) **[8]**

QUESTION 3

3.1

5,50 — 75 × 150 mm S.S.A.P. tbr. w.p.

3.2

5,50 — 38 × 114 mm S.S.A.P. tbr. w.p.

3.3

5 / 3,97 — 38 × 150 m S.S.A.P. tbr. exce. 3,9 n.e. 6,6 m

3.4

5,50 — 38 × 250 mm fascia brd.

3.5

5,50
4,02 — I.B.R. roof shtg

3,965 + 0,050 = 4,015 m

(5 × 2) **[10]**

QUESTION 4

4.1

5,50 — 100 × 100 mm PVC gutter incl. Brackets screwed to tbr. fascia

(2)

4.2

1 — Extra for outlet

2 — Extra for stopped ends

(4)

4.3

3,23 — 75 mm dia. downpipe

2,475 + 0,600 + 0,150= 3,225 m

(2)

4.4

1 — Extra for swan neck

&

Extra for shoe

(2)

4.5

1 — 150 mm dia. p.c. conc. water channel. 1 m long

(2)

[12]

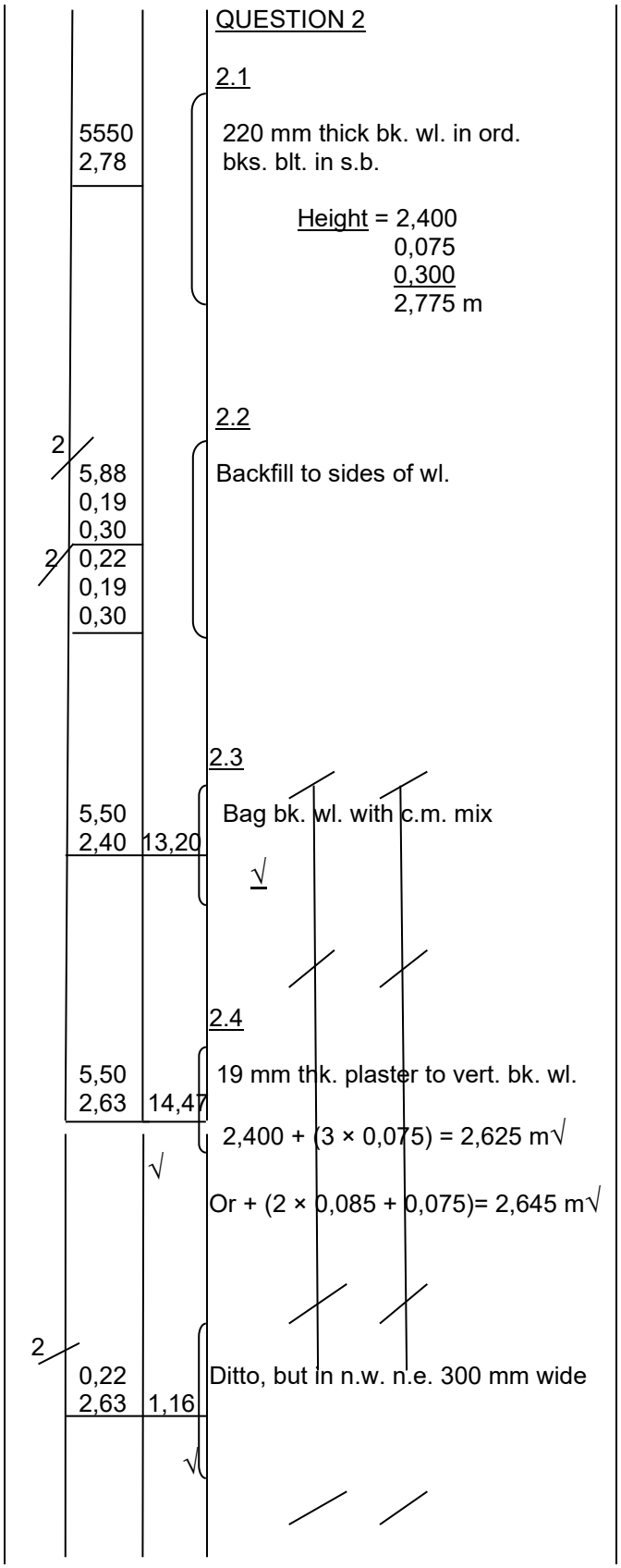
QUESTION 5

	5.1		
3,46 5,50	Reduce g.l. 150 mm ave. depth		
	5.2		
3,46 5,50 0,15	Clean filling well compacted under conc. S.b.		
	5.3		
5,50 3,68	D.p. shtg. under conc. s.b. 3,461 + 0,220 = 3,681 m		
	5.4		
3,46 5,50 0,15	15 MPa mass conc. in s.b. incl. s.o. & c. hor. top surface		

(4 × 2) **[8]**

QUESTION 6

6.1



Check side casts	1
Dimensioning	1
Multiply dimensions	1
Check answers	1
Transfers	1

(5)

6.2

LEAN-TO ROOF CONSTRUCTION√

PLASTERING√

√

M²

19 mm thick pls. to ext. vert. bk. wl.

14,47 4

√

√

15 M²

Bag int. vert. bk. wl with c.m. mix

13,20 4

13 M²

√

√

M²

19 mm thick pls. to ext. vert. bk. wl. In n.w. n.e. 300 mm wide.

1,16 4

M² 1

Section	1
Trade	1
Unit	1
Columns	1
Page reference	1
Reducing	1
Transfers	1

(7)

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6.3

	LEAN-TO ROOF CONSTRUCTION√				
	BILL NO. 1√				
	PLASTERING√				
			√		
1.	19 mm thick plaster to vertical external brick wall.		M²	15	
2.	Bag internal vertical brick wall with cement mortar mixture.		M²	13	
3.	19 mm thick plaster to external vertical brick wall in narrow widths not exceeding 300 mm wide√		M²	1	
√					
				√	
	Total carried to summary√				
	R				
	Section	1			
	Trade	1			
	Bill number	1			
	Item number	1			
	Description	1			
	Unit	1			
	Quantities	1			
	Summary	1			(8)
					[20]

TOTAL SECTION A: 65

SECTION B

QUESTION 7

7.1
7.1.1 Sets
7.1.2 NO
7.1.3 M2
7.1.4 M3
7.1.5 M3
7.1.6 Tons
7.1.7 M
7.1.8 NO
7.1.9 M2
7.1.10 NO

(10 × 1) (10)

7.2
- Open tender
- Selective tender or negotiated tender (2)

7.3
- Specification
- Bill of quantities
- Conditions of contract
- Working drawing (Any 3 × 1) (3)

[15]

QUESTION 8

Preliminaries:	2/10 × R150 000,00	R30 000,00	✓
Earthworks:	100% × R85 300,00	R85 300,00	✓
Concrete:	10% × R550 220,00	R55 020,00	✓
Masonry:	5% × R220 500,00	R11 030,00	✓
Plumbing and drainage:		R7 000,00 R188 350,00	✓
Add material on site:		R15 000,00 R203 350,00	✓
Less 10% retention:		R20 340,00	✓
Total for second valuation:		R183 010,00	✓
Less amount previously paid:		R75 000,00	
Amount due to contractor:		R108 010,00	✓✓

[10]

QUESTION 9

9.1 speculation
9.2 recommendation
9.3 reputation
9.4 arrangement
9.5 negotiation
9.6 tender
9.7 open tender
9.8 closed tender
9.9 prime cost amount
9.10 provisional amount

(10 × 1) **[10]**

TOTAL SECTION B: 35
GRAND TOTAL: 100

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