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higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

QUANTITY SURVEYING N5

29 November 2019

This marking guideline consists of 9 pages.

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SECTION A

QUESTION 1

1.1

Length of 220 wls.

2 × 11.660 = 23.320
2 × 6.212 = 12.424
35.744
- 4 × 0.220 0.880
34.864
+ 6.212
41.076
-2 × 0.220 0.440
40.636
m

(3)

1.2

Length of 110 wals.

3.000
1.890
0.110
5.000
2.276
2.376
2 × 1.890 3.780
0.110
13.542 m

(3)

(1)

40.64
2.20

13.54
2.20

35.74
2.20

1.3

220 mm thk. bk. wl. in S.S. in ord. bks. in 1:4 c.m. mix

(2)

1.4

110 mm thk. bk. wl in S.S. ditto.

(2)

1.5

E.o. ord. bkwrk. for ext. fcgs.

(2)

[12]

(2)

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QUESTION 2

2.1

15 MPa concrete on the floor

6.00
5.77
0.08
3.00
3.38
0.08
3.00
2.28
0.08
1.89
2.28
0.08
1.89
2.37
0.08
1.89
0.90
0.08

(7)

2.2

DPC on walls with bituminous SABS 248 type 2

40.64
0.22
13.54
0.11

(3)

2.3

2 | 6.00 × 2.12
2 | 5.77 × 2.12
2.2 | 3.00 × 2.20

2 200
- 76
2 124

(3)

2 | 3.38 × 2.20
2.2.2 | 1.89 × 2.20
2.2 | 2.27 × 2.20
2 | 2.37 × 2.20
2 | 6.00 × 2.12
2 | 5.77 × 2.12
2.2 | 3.00 × 2.12
2 | 3.38 × 2.12
2.2.2 | 1.89 × 2.12
2.2 | 2.27 × 2.12
2 | 2.37 × 2.12
2 | 0.90 × 2.12

(4)

Continues from prev. page

2.4

Two coats of PVA paint on internal wall

.

(4)

[18]

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QUESTION 3

3.1

12 mm thick 1:4 cm to floor and PVC tile on internal floor

3.00 × 3.38
3.00 × 2.27
1.89 × 2.37
1.89 × 0.90

12 mm thick 1:6 cm to the floor finish

6.00 × 5.77

(5)

3.2

76 mm high grano turn up skirting

2 × 6.00
2 × 5.77

19 × 76 mm meranti skirting plugged to wall and quadrant and varnish on them

2.2 × 3.00
2 × 3.38
2 × 2.37
1.89
2.2.2
2 × 0.90

(5)

3.3

38 x 114 ceiling joints

6212-2 × 110
5 992

(5)

6.00 × 5.77
3.00 × 3.38
3.00 × 2.27
1.89 × 2.27
1.89 × 2.37
1.89 × 0.90

3 mm asbestos cement ceiling boards on including 38 × 38 brandering SSAP with H-section cover strips

(5)

3.4

2 × 6.00
2 × 5.77
2.2 × 3.00
2 × 3.38
2 × 2.37
2 × 2.27
2.2.2 × 1.89
2 × 0.90

75 mm coved gypsum plaster cornice

(5)

[20]

(6)

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QUESTION 4

4.1

			38 × 114 SSAP ceiling joints	2			75 mm coved gypsum plaster cornice
2					6.00	12.00	
	5.99	11.95		2			
					5.77	11.54	
				2.2			
					3.00	8.00	
			3 mm asbestos cement ceiling boards on including 38 × 38 SSAP brandering with H-section cover strips	2	3.38	6.76	
	6.00						
	5.77	34.62		2	2.37	4.74	
	3.00						
	3.38	10.14		2	2.27	4.54	
	3.00						
	2.27	6.81		6	1.89	11.34	
	1.89						
	2.27	4.29		2	0.90	1.80	
	1.89						
	2.37	4.47				60.70	
	1.89						
	0.90	1.70					
		61.98					

Mark allocation

Check side casts	1
Dims.	1
Multiply dims.	1
Check squaring	1
Transfers	1

(5)

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4.2

CEILING

CARPENTRY & JOINERY

M

38 × 114 SSAP ceiling joints

11,98 5

12 m

M²

38 x 38 mm S.S.A.P.
Brandering with H-section

61,98 5

62 m²

M

75 mm coved gypsum plaster cornice

60,72 6

61 m

Mark allocation	
Section	1
Trade	1
Unit	1
Page ref.	1
Reducing	1
Cols.	1
Transfers	1
	(7)

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4.3

	CEILING			
	BILL No. 1			
	CARPENTRY & JOINERY			
1	38 x 114 SSAP ceiling joints	M	12	
2	3 mm asbestos ceiling boards on including 38 x38 brandering SSAP with H-section	M^2	62	
3	75 mm coved gypsum plaster cornice	M^2	61	
	Carried to summary	R		

Mark allocation

Section	1
Bill No.	1
Trade	1
Item No.	1
Description	1
Unit	1
Quantity	1
Page summary	1
	(8)

[20]

TOTAL SECTION A: 70

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SECTION B

QUESTION 5

5.1 5.1.1 Earthworks
Measured in cubic metres

5.1.2 Masonry
Measured in metres

(2 × 2) (4)

5.2 5.2.1 These are specification notes at the beginning of a trade in the bills of quantities that state the quality of workmanship, quality of material and they reduce the length of item descriptions.

5.2.2 The net cost of goods supplied; only material such as ironmongery, sanitary fittings, etc.

(2 × 3) (6)
[10]

QUESTION 6

ORIGINAL ACCEPTED TENDER PRICE: **R 13 244 605,00**
LESS CONTINGENCIES: **- R10 000,00**

R 13 234 605,00✓

LESS: SAVINGS ON PROVISIONAL BILLS

1 Foundations
Omit: R120 000,00
Add: R90 100,00
= R29 900,00✓

2 Site Works
Omit: R135 300,00
Add: R130 720,00
= R4 580,00✓

- R34 480,00

= R13 200 125,00✓

ADD: EXTRAS ON PROVISIONAL BILLS

1 Plumbing and drainage
Add: R95 500,00
Omit: R55 350,00
= R40 150,00✓

2 Prime cost and prov. sums
Add: R162 155,00
Omit: R120 200,00
= R41 955,00✓

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3	Net extra on variation orders		
	Add:	= R11 200,00✓	
4	Increased costs		
	Add:	= R93 200,00✓	
		+R186 505,00	
TOTAL COST OF CONTRACT		**R13 386 630,00✓**	
LESS: Previous payment to contractor		-R1 005 110,00	
FULL FINAL PAYMENT TO CONTRACTOR		R12 381 520,00✓	**[10]**

QUESTION 7

- Strength and durability – gains strength over time
- Versatility – it is used in buildings, bridges, runways and even roads
- Low maintenance – concrete does not attract mould
- Affordability – highly in demand, therefore extremely affordable
- Fire resistance – it is highly effective to prevent fire from spreading **[10]**

TOTAL SECTION B: 30
GRAND TOTAL 100

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