higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

QUANTITY SURVEYING N5

12 August 2021

This marking guideline consists of 8 pages.

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SECTION A

QUESTION 1

✓			
4	0,40	✓	25 mpa reinf conc in cols.
	0,40		✓
	3,50	✓	Height=3,000✓
✓			+ 0,50✓
4			3,500✓
4	0,40	✓	✓
	3,50	✓	Formwork to sides cols n.e 3,5 m above bearing level
	Or		
4	1,60		
	3,50		
			25 mpa conc in slab ✓
	6,00		2 × 2,450 = 4,900✓
	5,00	✓	2 × 0,400 = 0,800✓
	0,15	✓	0,300
			6,000 m✓
			✓
2	4,20	✓	Formwork to soffit of slab n,e 3,5 m frm f,l
	2,45	✓	

[20]

QUESTION 2

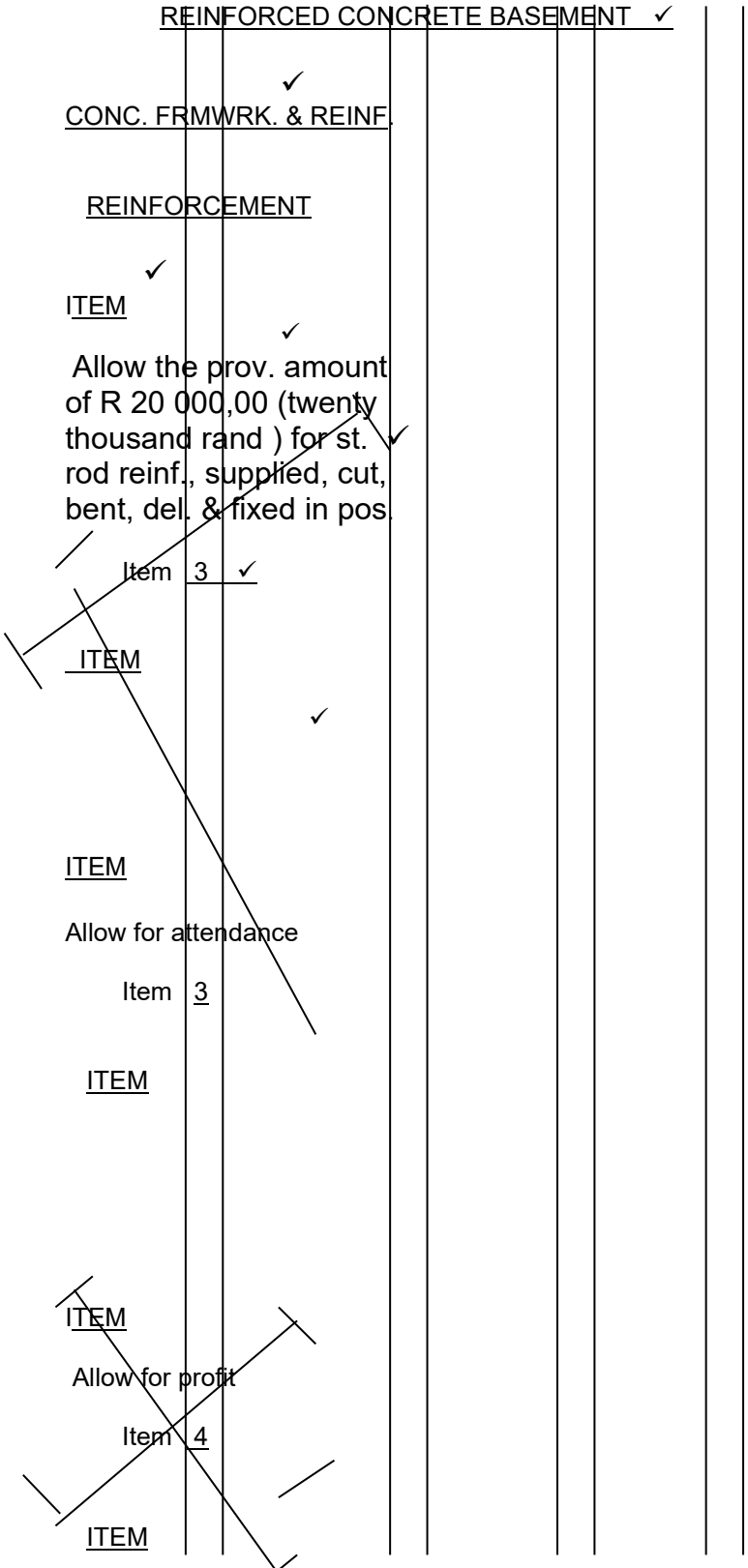
			Center line
			2 × 6,000 = 12,000✓
			2 × 5,000 = 10,000 ✓
			22,000✓
			- 4 × 0,400 = 1,600✓
			20,400 m
			✓
			✓
	20,40		Formwork to soffits bms.
	0,40		
	4,20	✓	
	0,30		
	22,00		Formwork to sides of bms ✓
	0,15		
		✓	
2	20,40		
	0,45		
2			
	4,20		
	0,35		
			✓
	20,40	✓	25 mpa rein conc in bms
	0,40		
	0,45	✓	0,600 - 0,150 = 0,450✓
	4,20	✓	
	0,30		
	0,35	✓	

							(2)
	✓ item		(1) ✓ Allow the prov. amount of R 20 000,00 (twenty ✓ thousand rand) for steel rod reinf. supplied, cut, bent,del.& fixed in position. & Allow for attendance. ✓ & Allow for profit. ✓ **[20]**				
			(3)				(4)

QUESTION 3: SQUARING

	✓ Item	Item	Allow the prov. amount of R 20 000,00 (twenty thou- sand rand) for steel rod reinf. supplied, cut, bent, del. & fixed in position. ✓ ✓ & ✓ Allow for attendance. ✓ & ✓ Allow for profit.				NOTE: Vertical transfer lines must be different colours indicating different checkers. Marks Check side casts 1 Dims 1 Multiply dims. 1 Check squaring 2 Transfers 1 (6) (6)
			(5)				

QUESTION 3: ABSTRACTING



MARK ALLOCATION

Section	1	
Trade	1	
Unit	1	
Col.	1	
Page reference	1	
Transfers	2	= 7

Note:
Diagonal lines must be different colours indicating different checkers.

QUESTION 3: BILLING

	✓ REINFORCED CONCRETE BASEMENT			
	✓ BILL No. 1			
	✓ CONCRETE FORMWORK & REINFORCEMENT			
	REINFORCEMENT			
✓ 1	✓ Allow the provisional amount of R20 000,00 (twenty thousand rand) for steel rod reinforcement, supplied, cut, bent, delivered and fixed in position.	Item	✓ 20 000 00	
2	Allow for attendance.	Item		
3	Allow for profit.	Item		
	TOTAL CARRIED TO SUMMARY ✓		R	

MARK ALLOCATION

Section	1	
Trade	1	
Bill no.	1	
Item no.	1	
Description	1	
Units	1	
Summary	1	= (7)

(20 × 1) **[20]**

TOTAL SECTION A: 60

SECTION B

QUESTION 4

4.1
- Unavailability of equipment
- Change in scope
- Change of schedule
- Client's financial problems
- Client's stubborn nature
- Shortage of skilled manpower
- Poor workmanship
- Change in specification by the client
- Inadequate detail in working drawings
- Contractor's financial problems (Any 5 × 1) (5)

4.2
- Analysing the tender invitation
- Attending pre-tender meeting
- Completing tender documents
- Cost planning
- Preparing the priced bills of quantities
- Assisting when negotiating for a contract
- Inspecting the work site with the client's quantity surveyor (Any 5 × 1) (5)

[10]

QUESTION 5

Preliminaries:	2/11 × R130230,00	R23680,00	✓
Earthworks:	100% × R98 241,33	R98 240,00	
Concrete:	14% × R75 500,40	R10 570,00	✓
Masonry:	7% × R106 321,69	R7 440,00	✓
Plumbing and drainage:		R3700,00	✓
		R143630,00	✓
Add material on site:		R8400,00	✓
		R152030,00	✓
Less 10% retention:		R15200,00	✓
Total claim to date:		R136830,00	✓
LESS previous payment		R66080,00	
Claim for SECOND payment:		R70750,00	✓

[10]

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QUESTION 6

6.1
- Bill of quantities
- Scope of work
- Special conditions
- Agreement
- Drawing
- General conditions
- Construction schedule
- Specifications (Any 5 × 1) (5)

6.2 6.2.1 Competing with other builders by submitting a quote (1)

6.2.2
- Open or public invitation
- Selective or closed tendering
- Negotiated tendering
- Tendering on B.O.Q
- Schedule rate (Any 4 × 1) (4)

6.3
- It carries a low risk✓ for the client.✓
- The construction costs✓ are fixed.✓
- It limits✓ variation orders.✓
- The price is known✓ by the client before the work commences.✓
- It encourages the contractor to complete the project✓ as quick as possible.✓
- The contractor will maximise production and performance.
- Construction can start before the design is completed. (Any 5 × 2) (10)

[20]

TOTAL SECTION B: 40
GRAND TOTAL: 100

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