

MARKING GUIDELINE

NATIONAL CERTIFICATE QUANTITY SURVEYING N6 13 August 2021

This marking guideline consists of 9 pages.

-2-QUANTITY SURVEYING N6

QUESTION 1

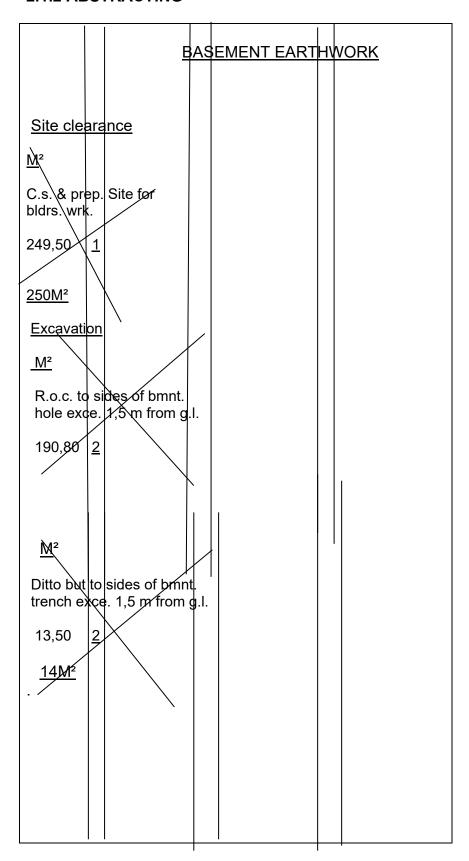
1.1.	 Construction progress Delays Weather reports Quality of workmanship Variation orders Design (drawings) Health and safety 	(Any 5 × 1)	(5)
1.2	 The duties of the chairperson are: Controlling order in the meeting Strictly following the agenda Calling site meetings Enabling discussions Calling for resolutions 	(Any 3 × 1)	(3)
1.3	Site meetingsDrawingsSite instructionsVariation orders	(Any 3 × 1)	(3)
1.4	 Site instructions are issued by the architect to the constructions are issued to carry out work all contract. Thus, there are no cost implications. 		
	 Variation orders are issued by the architect/enginee They make changes to the original contract. The quantity surveyor calculates the cost of a variate 		(4)
1.5	 Issues regarding site conditions Removal of unruly elements from site Storing of materials on site Maintenance of plant on site Clearing of the site 		(5)
1.6	 Arbitration is a process used in building contracts Arbitration is used to resolve disputes Disputes may occur between two parties Disputes are resolved outside a of court of law. 	(Any 3 × 1)	(3)
	 An arbitrator is a person appointed to mediate the p Appointment is approved by both parties to settle th Arbitrator's findings are final and to be accepted by 	e dispute.	(2) [25]

QUESTION 2

2.1.1 SQUARING

19,00		C.s. & prep. site for bldrs. wrk.	53,00 0,50	26,50	Exc. back from bsmnt. hole for w.s. n.e. 500 mm dp.
· ·	294,50	1000 - 350 = $650 \div 2$ = 0.325 m	0,00	20,50	
	4	15,000 x 11,500 2 x2m 4,000 4,000 19,000 x 15,500	53,00 1,00	53,00	Ditto, but exc. 500 mm n.e. 1,5 m dp.
		Excav. in ord. earth for bsmnt. Hole n.e. 2 m dp.	53,00 1,50	79,50	Ditto, but exc. 1,5 m n.e. 3 m
15,00 11,50 2,00 3	345,00		53,00 0,30	15,90	Ditto, but exc. 3 m n.e 4,5 m dp. 3,300-3,000=0,300m
15,00 11,50 1,30 2	224,25	Ditto, but exc. 2m n.e. 4 m dp. 2950+350=3300-2000 = 1,300 m	53,00 3,60	190,80	R.o.c to sides of bsmnt. Hole exc. 1,5 m dp. from g.l.
49,00 1,00 0,30 1	14,70	Excav. for bsmnt. Trench exc. 2 m n.e. 4 m from g.l. 2/15,000=30,000 2/11,500=23,000 53,000 Less 4/ 1,000 4,000 49,000 m	45,00 0,30	<u>13,50</u>	Ditto, but to int. sides of bsmnt. trench exc. 1,5 m dp. from g.l. 53,00- 8/1,000= 45,000 m
		(1)			(2)

2.1.2 ABSTRACTING



(4)

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2.1.3 BILLING

	<u>BASEMENT</u>				
	Bill No. 1				
	<u>EARTHWORKS</u>				
	Site clearance				
1.	Clear site and prepare site for builders work.	M²	250		
	Excavations				
2.	Risk of collapse exceeding 1,5 metres from ground level.	M²	191		
3.	Risk of collapse to sides of basement trench exceeding 1,5 metres from ground level.	M²	14		
	Carried to summary			R	

(7)

Working-up mark allocation

vvoiking-up mark anocation		1
<u>Squaring</u>		
Check everything	1	
Square dimensions	1	
Check squaring	1	
Transfers to abstract	1	(4)
Abstracting		
Section of work	1	
Trade	1	
Page referencing	1	
Transfers to bill	1	(4)
Billing		
Section of work	1	
Bill no.	1	
Trade	1	
Item no.	1	
Descriptions (no abbreviations)	1	
Units/quantities	1	
Summary	1	(7)

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2.2	ReduComMon	ncial cost control uctions of risk upetitive tendering thly valuations I accounts		
		ting of variations	(Any 4 × 1)	(4)
2.3	•	tity surveyor is a professional ✓ who specialises in estimater truction works and quantifying the various costs of building	•	(2)
2.4	2.4.1	A measuring list is a list of all the items✓ to be measure of work.✓	ed in a section	
	2.4.2	A taking-off list is a list of all the sections ✓ of work of a	a project.√ (2 × 2)	(4) [25]

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QUESTION 3.1

2 0,40 0,22 2 3,05 0,22 2 3,05 0,58 0,22 3,05	3,150 + 0,400 = 3,550 Less (0,350 + 0,150) = $3,050$ m \checkmark	21,12 0,22 0,35 3,56 0,22 0,35	25 Mpa reinf. Conc. in bms. \checkmark $2 \times 7,000 = 14,000$ $2 \times 4,000 = 8,000$ $22,000$ Less $4 \times 0,220$
2 1,2 ² 2 3,0 ⁸ 0,8 ⁸ 3,0 ⁸	4/0.220 = 0.880 m	21,12 	Frmwrk. to soffits of bms.✓
2 1,60 3,09			Ddt. Frmwrk. to soffits of slab a.b.✓
7,00 4,00 0,18	Incl. s.o. & c. nor. top surr.	22,00 2 0,15 21,12 2 0,35 3,56 0,35	Frmwrk. to sides of bms.✓
7,00			(20)

(20)

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QUESTION 3.2

<u>Item</u> •	Allow the provisio of R25 000,00 (tw thousand rand) ✓ reinf. supl. cut, be site and placed in	renty-five for st. <i>rod</i> ent del. to	
	Extra for attendar	ice.√	
	& Extra for profit. ✓		
	(5)		

(5) **[25]**

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QUESTION 4

4.1 A plaster mixture consists of a combination of cement, ✓ sand ✓ and water. ✓ (3)

4.2 2 pockets of cement will fill one wheelbarrow. Thus:

The ratio 1:4 represents:

1 = 2 pockets of cement ✓ = one wheelbarrow of cement. ✓

4 = 4 wheelbarrows of sand. ✓

4.3 Size of a standard brick is 220 × 110 × 75 mm ✓ each dimension (3)

4.4 11,000 × 1,800 = 19,800 m²✓

> Thus: $19,800 \times 55 \times 2 = 2178$ bricks. (5)

4.5 Concrete is a building material made from cement, ✓ sand ✓ and stone ✓ mixed with water, to be spread or cast into a mould.

4.6 Curing is the process to allow for the chemical reaction ✓ to take place for the setting and hardening ✓ of the concrete in the presence of water, ✓ and for it to (4)

reach the required strength.✓

4.7 Keep concrete wet by:

- Spraying
- · Covering with wet sacks
- Covering with plastic material
- Wet sand

Keeping formwork in place

[25]

(4)

(2)

(4)

TOTAL: 100