

## PART 2: PRICING DATA (AMENDED)

Document reference	Title	No of pages
C2.1	Pricing instructions: Option B	5
C2.2	The <i>bill of quantities</i>	6

## C2.1 Pricing instructions: Option B

### 1 The *conditions of contract*

#### 1.1 How the contract prices work and assesses it for progress payments

Clause 11 in NEC3 Engineering and Construction Contract, June 2005 and 2013 (ECC) Option B states:

**Identified  
and defined  
terms**

11

11.2

(21) The Bill of Quantities is the *bill of quantities* as changed in accordance with this contract to accommodate implemented compensation events and for accepted quotations for acceleration.

(22) Defined Cost is the cost of the components in the Shorter Schedule of Cost Components whether work is subcontracted or not excluding the cost of preparing quotations for compensation events.

(28) The Price for Work Done to Date is the total of

- the quantity of the work which the *Contractor* has completed for each item in the Bill of Quantities multiplied by the rate and
- a proportion of each lump sum which is the proportion of the work covered by the item which the *Contractor* has completed.

Completed work is work without Defects which would either delay or be covered by immediately following work.

(31) The Prices are the lump sums and the amounts obtained by multiplying the rates by the quantities for the items in the Bill of Quantities.

This confirms that Option B is a re-measurement contract and the bill comprises only items measured using quantities and rates or stated as lump sums. Value related items are not used. Time related items are items measured using rates where the rate is a unit of time.

## 1.2 Function of the Bill of Quantities

Clause 55.1 in Option B states, "Information in the Bill of Quantities is not Works Information or Site Information". This confirms that instructions to do work or how it is to be done are not included in the Bill, but in the Works Information. This is further confirmed by Clause 20.1 which states, "The *Contractor* Provides the Works in accordance with the Works Information". Hence the *Contractor* does **not** Provide the Works in accordance with the Bill of Quantities. The Bill of Quantities is only a pricing document.

## 1.3 Guidance before pricing and measuring

Employers preparing tenders or contract documents, and tendering contractors are advised to consult the sections dealing with the bill of quantities in the NEC3 Engineering and Construction Contract (June 2005) Guidance Notes before preparing the *bill of quantities* or before entering rates and lump sums into the *bill*.

Historically bill of quantities-based contracts in South Africa have been influenced by the different approaches of the civil engineering and building sectors of the industry through their respective discipline based standard forms of contract and methods of measurement. This is particularly apparent in the approach to the Preliminary and General bill. On the other hand, because ECC caters for a number of disciplines in the same contract, including electrical works, a different approach not currently found in local methods of measurement to the Preliminary & General bill items may have been used.

The NEC approach to the P & G bill assumes use will be made of method related charges for Equipment applied to Providing the Works based on durations shown in the Accepted Programme, fixed charges for the use of Equipment that is required throughout the construction phase, time related charges for people working in a supervisory capacity for the period required, and lump sum charges for other facilities or services not directly related to performing work items typically included in other parts of the bill.

## 2 Measurement and payment

### 2.1 Symbols

The units of measurement described in the Bill of Quantities are metric units abbreviated as follows:

Abbreviation	Unit
%	percent
H	hour
Ha	hectare
Kg	kilogram
Kl	kilolitre
Km	kilometre
km-pass	kilometre-pass
kPa	kilopascal
kW	kilowatt
L	litre
M	metre
Mm	millimetre
m <sup>2</sup>	square metre
m <sup>2</sup> -pass	square metre pass
m <sup>3</sup>	cubic metre
m <sup>3</sup> -km	cubic metre-kilometre
MN	meganewton
MN.m	meganewton-metre
MPa	megapascal

No.	number
Prov sum <sup>1</sup>	provisional sum
PC-sum	prime cost sum
R/only	Rate only
Sum	Lump sum
T	ton (1000kg)
W/day	Work day

## 2.2 General assumptions

2.2.1 Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance has been made in the quantities for waste.

2.2.2 The Prices and rates stated for each item in the Bill of Quantities shall be treated as being fully inclusive of all work, risks, liabilities, obligations, overheads, profit and everything necessary as incurred or required by the Contractor in carrying out or providing that item.

2.2.3 Clause 63.13 in Option B provides that these rates and Prices may be used as a basis for assessment of compensation events instead of Defined Cost.

2.2.4 Where this contract requires detailed drawings, designs or other information to be provided, and no rates or prices are included in the bill specifically for such matters, then the Contractor is deemed to have allowed for all costs associated with such requirements within the tendered rates and Prices in the Bill of Quantities.

2.2.5 An item against which no Price is entered will be treated as covered by other Prices or rates in the bill of quantities. If a number of items are grouped together for pricing purposes, this will be treated as a single lump sum.

2.2.6 The quantities contained in the Bill of Quantities may not be final and do not necessarily represent the actual amount of work to be done. The quantities of work assessed and certified for payment by the Project Manager at each assessment date will be used for determining payments due and not the quantities given in the Bill of Quantities.

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<sup>1</sup> Provisional Sums should not be used unless absolutely unavoidable. Rather include specifications and associated bill items for the most likely scope of work, and then change later using the compensation event procedure if necessary. This is because tenderers cannot programme effectively for unknown scopes of work

2.2.7 The short descriptions of the items of payment given in the bill of quantities are only for the purposes of identifying the items. More detail regarding the extent of the work entailed under each item is provided in the Works Information.

## C2.2 The *bill of quantities*

Item	Description	Qty	Unit of measures	Rate Excl. VAT (ZAR)	Total Excl. VAT (ZAR)
<b>1. HOBBS HILL RTO HIGH SITE</b>					
1.1	Site establishment	1	Sum		
1.2	Site clearing at Hobbs Hill High Site as per project specification	1	Sum		
1.3	Supply, deliver & installation of the fence at Hobbs Hill High Site as per project specification	1	Ea		
1.4	Supply, deliver & installation of the gate & locking system at Hobbs Hill High Site as per project specification	1	Ea		
1.5	Supply, deliver & installation of the locking protection system for container storage at Hobbs Hill High Site as per project specification	1	Ea		
1.6	Application of the coating system for container storage at Hobbs Hill High Site as per project specification	1	Ea		
1.7	Site de-establishment	1	Sum		
<b>Total Excluding Vat for Hobbs Hill RTO High Site to be carried over to the final summary page 6</b>				Total Excl. VAT	R

Item	Description	Qty	Unit of measures	Rate Excl. VAT (ZAR)	Total Excl. VAT (ZAR)
<b>2. DOHNE PEAK RTO HIGH SITE</b>					
2.1	Site establishment	1	Sum		
2.2	Site clearing at Dohne Peak High Site as per project specification	1	Sum		
2.3	Supply, deliver & installation of the fence at Dohne Peak High Site as per project specification	1	Ea		
2.4	Supply, deliver & installation of the gate & locking system at Dohne Peak High Site as per project specification	1	Ea		
2.5	Supply, deliver & installation of the locking protection system for container storage at Dohne Peak High Site as per project specification	1	Ea		
2.6	Application of the coating system for container storage at Dohne Peak High Site as per project specification	1	Ea		
2.7	Site de-establishment	1	Sum		
<b>Total Excluding Vat for Dohne Peak RTO High Site to be carried over to the final summary page 6</b>				Total Excl. VAT	R



Item	Description	Qty	Unit of measures	Rate Excl. VAT (ZAR)	Total Excl. VAT (ZAR)
<b>3. MADEIRA RTO HIGH SITE</b>					
3.1	Site establishment	1	Sum		
3.2	Site clearing at Madeira High Site as per project specification	1	Sum		
3.3	Supply, deliver & installation of the fence at Madeira High Site as per project specification	1	Ea		
3.4	Supply, deliver & installation of the gate & locking system at Madeira High Site as per project specification	1	Ea		
3.5	Supply, deliver & installation of the locking protection system for container storage at Madeira High Site as per project specification	1	Ea		
3.6	Application of the coating system for container storage at Madeira High Site as per project specification	1	Ea		
3.7	Site de-establishment	1	Sum		
<b>Total Excluding Vat for Madeira RTO High Site to be carried over to the final summary page 6</b>				Total Excl. VAT	R

Item	Description	Qty	Unit of measures	Rate Excl. VAT (ZAR)	Total Excl. VAT (ZAR)
<b>4. LOPPERSBERG RTO HIGH SITE</b>					
4.1	Site establishment	1	Sum		
4.2	Site clearing at Loppersberg High Site as per project specification	1	Sum		
4.3	Supply, deliver & installation of the fence at Loppersberg High Site as per project specification	1	Ea		
4.4	Supply, deliver & installation of the gate & locking system at Loppersberg High Site as per project specification	1	Ea		
4.5	Supply, deliver & installation of the locking protection system for container storage at Loppersberg High Site as per project specification	1	Ea		
4.6	Application of the coating system for container storage at Loppersberg High Site as per project specification	1	Ea		
4.7	Site de-establishment	1	Sum		
<b>Total Excluding Vat for Loppersberg RTO High Site to be carried over to the final summary page 6</b>				Total Excl. VAT	R

Item	Description	Qty	Unit of measures	Rate Excl. VAT (ZAR)	Total Excl. VAT (ZAR)
<b>5. COLESBERG RTO HIGH SITE</b>					
5.1	Site establishment	1	Sum		
5.2	Site clearing at Colesberg High Site as per project specification	1	Sum		
5.3	Supply, deliver & installation of the fence at Colesberg High Site as per project specification	1	Ea		
5.4	Supply, deliver & installation of the gate & locking system at Colesberg High Site as per project specification	1	Ea		
5.5	Supply, deliver & installation of the locking protection system for container storage at Colesberg High Site as per project specification	1	Ea		
5.6	Application of the coating system for container storage at Colesberg High Site as per project specification	1	Ea		
5.7	Site de-establishment	1	Sum		
5.8	Health and Safety File accounts for all 5 RTO High Sites)	1	Sum		
<b>Total Excluding Vat for Colesberg RTO High Site to be carried over to the final summary page 6</b>				Total Excl. VAT	R

## FINAL SUMMARY

Item No	Description	Price Excluding Vat
1.	Total Excluding Vat for Hobbs Hill RTO High Site	R
2.	Total Excluding Vat for Dohne Peak RTO High Site	R
3.	Total Excluding Vat for Madeira RTO High Site	R
4.	Total Excluding Vat for Loppersberg RTO High Site	R
5.	Total Excluding Vat for Colesberg RTO High Site	
Total of Prices (Excluding Vat) must be carried over to C1.1 Form of Offer		R

**Note: Prices to be fixed and firm for the duration of the contract.**

Signed \_\_\_\_\_ Date \_\_\_\_\_

Name \_\_\_\_\_ Position \_\_\_\_\_

Tenderer \_\_\_\_\_