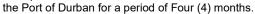




TRANSNET

PART 2: PRICING DATA

Document reference	Title	No of pages
C2.1	Pricing instructions: Option B	1-5
C2.2	The bill of quantities	1-5





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 11 and defined

terms

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.

Description of the Works: For the renovations at workshop 24 offices Bayhead precinct -Building B4/145 in

the Port of Durban for a period of Four (4) months.



1.2. Function of the Bill of Quantities

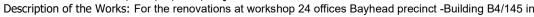
Clause 55.1 in Option B states, "Information in the Bill of Quantities is not Works Information or Site Information". This confirms that instructions to do work or how it is to be done are not included in the Bill, but in the Works Information. This is further confirmed by Clause 20.1 which states, "The *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.

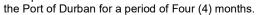
1.3. Guidance before pricing and measuring

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
I	litre
m	metre
mm	millimetre
m ²	square metre
m²-pass	square metre pass
m³	cubic metre
m³-km	cubic metre-kilometre
MN	meganewton
MN.m	meganewton-metre



the Port of Durban for a period of Four (4) months.



MPa	megapascal
No.	number
Prov sum ¹	provisional sum
PC-sum	prime cost sum
R/only	Rate only
sum	Lump sum
t	ton (1000kg)
W/day	Work day

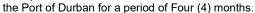
2.2. **General assumptions**

- 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.

CPM 2020 Rev 01 PAGE 4 Part C2: Pricing Data

¹ 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





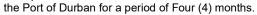


- 2.2.5. An item against which no Price is entered will be treated as covered by other Prices or rates in the *bill of quantities*. If a number of items are grouped together for pricing purposes, this will be treated as a single lump sum.
- 2.2.6. The quantities contained in the Bill of Quantities may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

2.3. Departures from the *method of measurement*

2.4. Amplification of or assumptions about measurement items

For the avoidance of doubt the following is provided to assist in the interpretation of descriptions given in the *method of measurement*. In the event of any ambiguity or inconsistency between the statements in the *method of measurement* and this section, the interpretation given in this section shall be used.

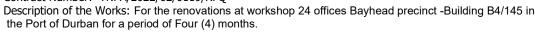


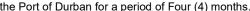


C2.2 The bill of quantities

PAYMENT REF.	DESCRIPTION	UNI T	QT Y	RATE	Total
1	PRELIMINARY & GENERAL, SAFETY AND LABOUR				
1.1	<u>Preliminary and general</u>	Sum	1		
1.2	SHERQ Obligations	Sum	1		
1.3	Safety File	Sum	1		
1.4	Site establishment	Sum	1		
1.5	Site de-establishment	Sum	1		
2	Other fixed obligations				
	Roof				
2.1	Remove all existing roof accessories i.e. facia boards,		120		
	barge boards, gutters and downpipes and discard	m			
2.2	Remove existing roof sheeting and discard at a suitable dump site.	m²	540		
2.3	Install industrial box Profile Seamless Gutters 150mm O.G industrial and industrial spreaders	m	120		
2.4	Install industrial 100x75mm downpipes	No.	15		
2.5	Install "Sisalation FR430" heavy industrial grade reinforced aluminium foil insulation. Insulation laid taut over purlins (at approximately 1000mm centres) and fixed concurrent with roof covering, including galvanised steel straining wires.	m²	540		
2.6	Replace the sheeting with 0.9mm 'Hula Span A7 Profile' aluminium sheeting with mill finish on one side and 'Cloud Grey PVDF' paint coating to other side including the accessories fixed to the purlins	m²	540		
2.7	Install plain fascia board, size 300 x 0.9mm thick including galvanized steel H-profile joiners.	m	120		
2.8	Install 90 degree L-shaped barge board size 275 x 0.9mm thick including H-profile joiners	m	120		
3	Carport				
3.1	Supply and install carport sheeting(IBR)	m²	100		



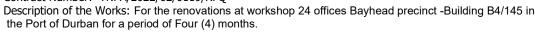






3.2	Supply and install Poles for the carport sheeting and all necessary fitting,	No.	10	
3.3	Supply and install seamless gutter and fascia board in the		20	
	carport	m	20	
3.4	Supply and install downpipes and industrial spreaders	No.	4	
4	Office3			
4.1	Prepare walls and paint with 2 coats Polvin paint code EPL 437 Calico	m²	44	
4.2	Supply and install ceiling board panel with 600x1200mm ceiling tiles	No.	10	
4.3	Widow seal			
4.4	Scrap and paint burglar guard	No.	2	
4.5	Paint doors (match existing)	No.	2	
4.6	Replace exit door with the hard wood door and paint	No.	1	
5	Office 4			
5.1	Prepare walls and paint with 2 coats Polvin paint code EPL 437 Calico	m²	45	
5.2	Supply and install ceiling board panel with 600x1200mm ceiling tiles	No.	10	
5.3	Widow seal	No.	1	
5.4	Cover electric box make it accessible with super wood cupboard	m²	10	
5.5	Scrap and paint burglar guard	No.	2	
5.6	Paint doors (match existing)	No.	2	
5.7	Replace exit door with the hard wood door and paint	No.	1	
6	Office 5			
6.1	Prepare walls and paint with 2 coats Polvin paint code EPL 437 Calico	m²	70	
6.2	Supply and install ceiling board panel with 600x1200mm ceiling tiles	No.	12	
6.3	Widow seal	No.	2	
6.4	Scrap and paint burglar guard	No.	1	
6.5	Paint door (match existing)	No.	1	
6.6	Replace exit door with the hard wood door and paint	No.	1	
7	Office 6			
7.1	Prepare walls and paint with 2 coats Polvin paint code EPL 437 Calico	m²	48	
7.2	Supply and install ceiling board panel with 600x1200mm ceiling tiles	m²	2	
7.3	Widow seal	No.	2	
7.4	Scrap and paint burglar guard	No.	2	
7.5	Paint doors (match existing)	No.	2	
7.6	Replace exit door with the hard wood door and paint	No.	1	
	<u> </u>		1	 1

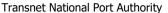


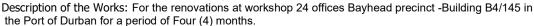




TRANSNET

8	Office 7			
8.1	Prepare walls and paint with 2 coats Polvin paint code EPL 437 Calico	m²	58	
8.2	Supply and install ceiling board panel with 600x1200mm ceiling tiles	m²	15	
8.3	Widow seal	No.	2	
8.4	Scrap and paint burglar guard	No.	1	
8.5	Paint doors (match existing)	No.	2	
8.6	Replace exit door with the hard wood door and paint	No.	1	
9	Office 8			
9.1	Prepare walls and paint with 2 coats Polvin paint code EPL 437 Calico	m²	100	
9.2	Supply and install ceiling board panel with 600x1200mm ceiling tiles	m²	16	
9.3	Widow seal	No.	2	
9.4	Scrap and paint burglar guard	No.	2	
9.5	Paint doors (match existing)	No.	2	
9.6	Replace exit door with the hard wood door and paint		1	
10	Office 9			
10.1	Prepare walls and paint with 2 coats Polvin paint code EPL 437 Calico	m²	60	
10.2	Supply and install ceiling board panel with 600x1200mm ceiling tiles	m²	10	
10.3	Widow seal	No.	2	
10.4	Scrap and paint burglar guard	No.		
10.5	Paint doors (match existing)	No.	2	
10.6	Replace exit door with the hard wood door and paint	No.	1	
11	Office 10			
11.1	Prepare walls and paint with 2 coats Polvin paint code EPL 437 Calico	m²	60	
11.2	Prepare walls and paint with vanish	m²	20	
11.3	Supply and install ceiling board panel with 600x1200mm ceiling tiles	No.	10	
11.4	Remove the wall mounted cupboard and supply and install new cupboard an shelves	No.	1	
11.5	Widow seal	No.	2	
11.6	Scrap and paint burglar guard	No.	1	
11.7	Paint doors (match existing)	No.	2	
11.8	Replace exit door with the hard wood door and paint	No.	2	
12	Office 11			



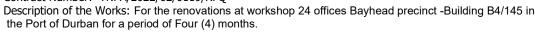


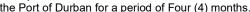




12.1 Install new kitchen super wood cupboards (900x800) with 1 all external surfaces covered with maple laminate and No granite counter to (Drakensburg black).L shape 12.2 Install new Franke single bowl stainless steel sink 1 including basin mixer with cast fixed outlet – 2 1/2" female No iron 400mm long flexible hoses 3294ST 12.3 Install all fittings and piping required for complete 1 No functionality (plumbing) 22mm copper pipe, 12.4 Prepare walls and paint with 2 coats Polvin paint code EPL 86 m² 437 Calico 12.5 Replace wall tiles in the bathroom with Fabian Bone 55 m² 300x500 (Beige/Cream 12.6 Install water proofing in the bathroom same height as 55 m² wall tiles 12.7 1 Supply and install shower door include new frame No. 12.8 10 Remove sliding door and prepare wall to paint m² 12.9 Paint office door 1 No. 12.10 Supply and install ceiling board panel with 600x1200mm 8 No. ceiling tiles 12.11 2 Supply and install door lockers No 12.12 Supply and fit vaal hibiscus WC including 15mm cobra 1 No angle valves, B2 toilet seat including adaptor for waste 12.13 Supply and fit vaal hibiscus basin including fixation bolts, 1 waste, cobra CP bottle trap, 15mm angle valve & 15mm No. stella taps 12.14 2 Replace exit door with the hard wood door and paint No. 13 Office 12 13.1 Prepare walls and paint with 2 coats Polvin paint code EPL m² 60 437 Calico 13.2 Supply and install ceiling board panel with 600x1200mm 5 No ceiling tiles 13.3 Widow seal No 1 13.4 2 Scrap and paint burglar guard No 13.5 Paint doors (match existing) No 2





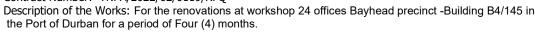




13.6	Replace exit door with the hard wood door and paint	No.	1	
14	Office 13	No		
14.1	Prepare walls and paint with 2 coats Polvin paint code EPL 437 Calico	m²	44	
14.2	Supply and install ceiling board panel with 600x1200mm ceiling tiles	m²	5	
14.4	Widow seal		1	
14.5	Scrap and paint burglar guard	No.	1	
14.6	Paint doors (match existing)	m²	1	
14.7	Replace exit door with the hard wood door and paint	No.	1	
14.8	Replace floor tiles – Famous Black 300x300, dove grey grout and 60mm skirting	m²	30	
14.9	Replace wall tiles in the bathroom with Fabian Bone 300x500 (Beige/Cream	m²	20	
14.10	Install new Franke single bowl stainless steel sink including basin mixer with cast fixed outlet – 2 ½" female iron 400mm long flexible hoses 3294ST	No.	1	
14.11	Install all fittings and piping required for complete functionality (plumbing) 22mm copper pipe,	No.	1	
15	Office 14			
15.1	Prepare walls and paint with 2 coats Polvin paint code EPL 437 Calico	m²	43	
15.2	Supply and install ceiling board panel with 600x1200mm ceiling tiles	m²	5	
15.3	Widow seal	No.	2	
15.4	Scrap and paint burglar guard	No.	1	
15.5	Paint doors (match existing)	No.	2	
15.6	Replace exit door with the hard wood door and paint	No.	2	
16	Office 15			
16.1	Prepare walls and paint with 2 coats Polvin paint code EPL 437 Calico	m²	43	
16.2	Supply and install ceiling board panel with 600x1200mm ceiling tiles	m²		
16.3	Widow seal	No.	1	

Transnet National Port Authority

Contract Number: TNPA/2022/02/0119/RFQ





16.4	Scrap and paint burglar guard	No.	1	
16.5	Paint doors (match existing)	No.	1	
16.6	Replace exit door with the hard wood door and paint	No.	1	
16.7	Supply and install awning	No.	5	
16.8	Safety file	No.	1	
	Total excluding VAT			

Part C2: Pricing Data CPM 2020 Rev 01