

PART 2: PRICING DATA

ECC3 Option B

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C2.1 Pricing assumptions: Option B

1. How work is priced and assessed for payment

Clause 11 in NEC3 Engineering and Construction Contract (ECC3) 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.

(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.

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 specifications and descriptions of the work or any constraints on 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.

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 Guidance Notes before preparing the *bill of quantities* or before entering rates and lump sums into the *bill*.

There is no general provision in Option B for payment for materials on Site before incorporation into the *works*. If secondary Option X14 Advanced payment has not been used then the tendering contractor may obtain the same effect by inserting appropriate items in the method related charges where the *method of measurement* allows, or alternatively making allowance in the rates of the *bill of quantities* for the financing of Plant and Materials until they are incorporated in the *works*.

When compensation events arise, the default position is that the Bill of Quantities is not used to calculate the cost effect of the event. Defined Cost and the resulting Fee is used and Defined Cost includes all components of cost which the *Contractor* is likely to incur, including so called P & G items. Rates and lump sums from the Bill of Quantities, or from any other source, may be used instead of Defined Cost and the Fee only if the *Contractor* and *Project Manager* agree. If they are unable to agree, then Defined Cost

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plus Fee is used.

4. Measurement and payment

4.1. 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 ²	square metre
m ² -pass	square metre pass
m ³	cubic metre
m ³ -km	cubic metre-kilometre
MN	meganewton
MN.m	meganewton-metre
MPa	megapascal
No.	number
sum	Lump sum
t	tonne (1000kg)

4.2. General assumptions

- 4.2.1. Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance has been made in the quantities for waste.
- 4.2.2. 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.
- 4.2.3. An item against which no Price is entered will be treated as covered by other Prices or rates in the *bill of quantities*.
- 4.2.4. 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.
- 4.2.5. The short descriptions of the items of payment given in the *bill of quantities* are only for the purposes of identifying the items. Detail regarding the extent of the work entailed under each item is provided in the Works Information.

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4.3. Departures from the *method of measurement*

4.3.1. Not applicable

4.4. Amplification of or assumptions about measurement items

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.

4.4.1. All measured items will be priced and paid in the currency of the contract (ZAR) with no adjustments for foreign exchange variations.

C2.2 the *bill of quantities*

PRICE LIST FOR GCD OFFICES ROOF CANOPY AND MISCELLANEOUS WORKS					
Item	Description	Uom	Qty	Rate	Amount
1	WATERPROOFING AND ROOF CANOPY				
1.1	EXCAVATIONS				
1.1.1	Excavations not exceeding 1m deep for column bases	m3	35		R
1.1.2	Extra over for hardrock	m3	10		R
1.1.3	Backfill excavation in 150 mm thick layers compacted to 95% MOD AASHTO at moisture content -2 to +2% of OMC,	m3	14		R
1.2	CONCRETE				
1.2.1	Supply and cast in situ concrete foundations for columns, 35MPa concrete, Rate to include all shuttering and 50mm blinding layer	m3	18		R
1.2.2	Procure, supply and construct two (2) Ready-made/Precast rainwater gully with 110mm diameter solid HDPE pipe.	no	2		R
1.2.3	Supply and install 110mm diameter HDPE pipe	m	7		R
1.3	REINFORCEMENT				
1.3.1	Supply and install Mesh 888 for concrete	t	0.1		R

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1.4	ROOF CANOPY (as per works information)				
1.4.1	Supply and Install 0.6mm thick IBR Roof Sheeting.	m2	1036		R
1.4.2	Ridge	m	153		R
1.4.3	Structural Steel Columns	sum	1		R
1.4.4	Structural Steel Beams	sum	1		R
1.5	WATERPROOFING				
1.5.1	Waterproofing of prefabricated office park homes as per works information and drawings	sum	1		R
1.6	DRYWALL PARTITIONS AND LIGHTS				
1.6.1	Supply and install new partition wall to the new office	m2	20		R
1.6.2	Supply and install new door in a new partition wall	no	1		R
1.6.3	Supply and install external lights (3 Solar LED flood lights, 100Watts)	no	3		R
1.6.4	Remove and install existing florescent lighting	sum	1		R
1.6.5	Relocate a lighting switch to a new area	no	1		R
1.6.6	Supply and install a new lighting switch to the new office	no	1		R
1.6.7	Supply and install skirting on both sides of the partion wall	m	10		R
1.6.8	Provide Certificate of Compliance (CoC) for new installations	sum	1		R
1.7	PAVING				

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1.7.1	Remove approximately fifty-four(54m2) square meters of the existing paving bricks with edge beams. The paving bricks, sand and edge beams shall be carefully dismantled and unpacked for reused later. Adjust backfill by lifting at the back by approximately 100mm sloping to old existing manholes using G5 material and compact. Procure and install 0.25-micron DPC plastic. Spread 25mm of bedding sand and repack the paving bricks to prevent stormwater ponding. Place the kerbs, haunching and backfilling. For further details refer to sketch 4.	m2	54		R
2	REPAIRS TO THE HARDSTAND CANAL				
2.1	EXCAVATIONS				
2.1.1	Excavations not exceeding 1m deep for hard stand canal	m3	5		R
2.1.2	Backfill excavation in 150 mm thick layers compacted to 95% MOD AASHTO at moisture content -2 to +2% of OMC,	m3	3		R
2.2	CONCRETE				
2.2.1	Supply and cast in situ concrete for hardstand canal 30MPa concrete (Fill geocell)	m3	5		R
2.2.2	Remove old broken concrete and dispose off at a licensed disposal facility within 100km radius.	m3/km	5		R
2.2.3	Supply and install geocells according to the specifications	m2	50		R
	Sub total				R
3	Preliminary and General				

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3.1	Provide designs for Roof Canopy	sum	1		R
3.2	Contractors Site Establishment	sum	1		R
3.3	SHEQ Requirements	sum	1		R
3.4	Medical assessment of staff	sum	1		R
3.5	Induction of staff	sum	1		R
3.6	Transport	sum	1		R
3.7	Accommodation	sum	1		R
3.8	Tools and Equipment	sum	1		R
3.9	Contractor's de-establishment	sum	1		R
	Sub total				R
	Total excl VAT				R
	VAT			15%	R
	Total incl VAT				R