

MNQUMA LOCAL MUNICIPALITY

TENDER NUMBER: MNQ/SCM/05/23-24

SUB-CONTRACTING FOR CONSTRUCTION OF THALA TO QINA ACCESS ROAD

CONTRACTPART 2 (OF 4) : PRICING DATA

- C2.1 Pricing Instructions**
- C2.2 Bill of Quantities**
- C2.3 Summary Page for Bill of Quantities**

C2.1 : PRICING INSTRUCTIONS

C2.1.1 PREAMBLE TO THE BILL OF QUANTITIES

1) The conditions of contract, the contract data, the specifications (including the project specifications) and the issued drawings shall be read in conjunction with the bill of quantities.

2) The bill comprises items covering the contractor's profit and costs of general liabilities and of the construction of temporary and permanent works.

although the tenderer is at liberty to insert a rate of his own choosing for each item in the bill, he should note the fact that the contractor is entitled, under various circumstances, to payment for additional work carried out and that the engineer is obliged to base his assessment of the rates to be paid for such additional work on the rates the contractor inserted in the bill. Clause 8 of each standardized specification, and the measurement and payment clause of each particular specification, read together with the relevant clauses of the project specifications, all set out which ancillary or associated activities are included in the rates for the specified operations.

3) Descriptions in the bill of quantities are abbreviated and may differ from those in the standardized and project specifications. No consideration will be given to any claim by the contractor submitted on such a basis. The bill has been drawn up generally in accordance with the latest issue of civil engineering quantities. Should any requirement of the measurement and payment clause of the appropriate standardized or project specification(s) be contrary to the terms of the bill or, when relevant, to the civil engineering quantities, the requirement of the appropriate standardized, project, or particular specification as the case may be, shall prevail.

4) Unless stated to the contrary, items are measured net in accordance with the drawings without any allowance having been made for waste.

5) The amounts and rates to be inserted in the bill of quantities shall be the full inclusive amounts to the employer for the work described under the several items. such amounts shall cover all the costs and expenses that may be required in and for the construction of the work described, and shall cover the costs of all general risks, profits, taxes (but excluding value-added tax), liabilities and obligations set forth or implied in the documents on which the tender is based.

6) An amount or rate shall be entered against each item in the bill of quantities, whether or not quantities are stated. An item against which no amount or rate is entered will be considered to be covered by the other amounts or rates in the bill.

The tenderer shall also fill in a rate against the items where the words "rate only" appear in the amount column. Although no work is foreseen under these items and no quantities are consequently given in the quantity column, the tendered rates shall apply should work under these items actually be required.

should the tenderer group a number of items together and tender one sum for such group of items, the single tendered sum shall apply to that group of items and not to each individual item, or should he indicate against any item that full compensation for such item has been included in another item, the rate for the item included in another item shall be deemed to be nil.

The tendered rates, prices and sums shall, subject only to the provisions of the conditions of contract, remain valid irrespective of any change in the quantities during the execution of the contract.

7) The quantities of work as measured and accepted and certified for payment in accordance with the conditions of contract, and not the quantities stated in the bill of quantities, will be used to determine payments to the contractor. The validity of the contract shall in no way be affected by differences between the quantities in the bill of quantities and the quantities certified for payment. Ordering of materials is not to be based on the bill of quantities.

8) For the purposes of this bill of quantities, the following words shall have the meanings hereby assigned to them:

Unit: the unit of measurement for each item of work as defined in the standardized, project or particular specifications

Quantity: the number of units of work for each item

Rate: the payment per unit of work at which the tenderer tenders to do the work

Amount: the quantity of an item multiplied by the tendered rate of the (same) item

Sum: an amount tendered for an item, the extent of which is described in the bill of quantities, the specifications or elsewhere, but of which the quantity of work is not measured in units

9) The units of measurement described in the Schedule/Bill of Quantities are metric units. Abbreviations used in the Schedule/Bill of Quantities are as follows :

mm	=	millimetre	h	=	hour
m	=	metre	kg	=	kilogram
km	=	kilometre	t	=	ton (1 000 kg)
m ²	=	square metre	No.	=	number
m ² .pass	=	square metre-pass	sum	=	lump sum
ha	=	hectare	MN	=	MegaNewton
m ³	=	cubic metre	MN.m	=	
		MegaNewton-metre			
m ³ .km	=	cubic metre-kilometre	P C sum	=	Prime Cost
sum			Prov sum	=	Provisional
ℓ	=	litre			
sum					
kℓ	=	kilolitre	%	=	per cent
MPa	=	MegaPascal	kW	=	kilowatt

10) Expanded public works programme (EPWP) implications

Those parts of the contract to be constructed using labour-intensive methods have been marked in the schedule of quantities or bill of quantities with the letters li in a separate column filled in against every item so designated. works, or parts of the works so designated are to be constructed using labour-intensive methods only. The use of plant to provide such works, other than plant specifically provided for in the scope of work, is a variation to the contract. The items marked with the letters li are not necessarily an exhaustive list of all the activities which must be done by hand, and this clause does not over-ride any of the requirements in the generic labour intensive specification in the scope of works.

Payment for items which are designated to be constructed labour-intensively (either in this schedule or in the scope of works) will not be made unless they are constructed using labour intensive methods.

Any unauthorised use of plant to carry out work which was to be done labour-intensively will not be condoned and any works so constructed will not be certified for payment.

11) The cost of all samples and tests as may be required to ascertain and check the quality of materials and workmanship or any part of the works are deemed to be included in the relevant rates in the bill of quantities. The contractor shall at his/her own expense take levels and prepare cross sections as required for the measurement and computation of excavation and fill quantities etc.

12) Value added tax (vat) shall not be included in the individual rates but is to be added as a total at the end of the summary.

13) All materials to be provided by the contractor will be SABS, ISO OR JASWIC approved where such a specification exists, whether specifically stated in the schedule or not.

14) Where a particular make of item is specified, the words "or similar approved" shall mean approval by the engineer in writing.

15) The quantities set out in the Schedule/Bill of Quantities are the estimated quantities of the Contract Works, but the Contractor will be required to undertake whatever quantities may be directed by the Engineer from time to time. The Contract Price for the completed contract shall be computed from the actual quantities of work done, valued at the relevant unit rates and prices.

16) The prices and rates to be inserted in the Schedule/Bill of Quantities are to be the full inclusive prices for the work described under the several items. Such prices and rates shall cover all costs and expenses that may be required in and for the execution of the work described, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the documents on which the tender is based, as well as overhead charges and profit. Reasonable prices shall be inserted as these will be used as a basis for assessment of payment for additional work that may have to be carried out.

17) A price or rate is to be entered against each item in the Schedule/Bill of Quantities, whether the quantities are stated or not. An item against which no price is entered will be considered to be covered by the other prices or rates in the Schedule.

18) Except where rates only are required, the Tenderer shall insert all amounts to be included in his total tendered price in the "Amount" column and show the corresponding total tendered price.

19) All prices or rates inserted in the Bill of Quantities shall be Excluding VAT. Provision has been made on the Summary Page, of the Bill of Quantities, for the addition of VAT.

20) Arithmetical errors of responsive tenders will be corrected in the following manner:

- Where there is a discrepancy between an amount shown in figures, and the corresponding amount stated in words, the amount stated in words shall take preference.
- In the Bill of Quantities, if there is an error in the line item total resulting from the product of the quantity and the unit rate, the line item total shall govern, and the rate shall be corrected. Where there is a misplacement of the decimal point in the unit rate, the line item total shall govern and the unit rate will be corrected.
- Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern and the tenderer will be asked to revise selected item prices (and their rates in the Bill of Quantities) to achieve the tendered total of the prices.

- Should a tenderer be unwilling to make the corrections ordered by the Project Engineer, the tender may be disqualified.

- 21) The quantities set out in the Price Schedule are the estimated quantities of the Works, but the Contractor will be required to undertake whatever quantities as may be directed by the Engineer from time to time. The Contract Price for the completed contract shall be computed from the actual quantities of work done, valued at the relevant unit rates and prices.
- 22) A price or rate is to be entered against each item in the Price Schedule, whether the quantities are stated or not. An item against which no price is entered or where a word or phrase such as "included" or "provided elsewhere" will be accepted as a rate of nil (R0,00) having been entered against such items and covered by the other prices or rates in the Schedule.

Note: Any work executed to which such a pay item applies, shall be measured under the appropriate items in the Price Schedule and valued at a rate of nil (R0,00). The rate of nil shall be valid irrespective of any change in the quantities during the execution of the Contract.

CORRECTION OF ENTRIES MADE BY TENDERER

Any entry made by the Tenderer in the Price Schedule, forms, etc, which the tenderer desires to change, shall not be erased or painted out. A line shall be drawn through the incorrect entry and the correct entry shall be written above in black ink and the full signature of the Tenderer shall be placed next to the correction.

NOTE

Tenderers are to refer to the Scope of Works and in particular the Specification Data when pricing the Bills of Quantities. Certain clauses in the Standard Specifications and the Particular Specifications have been omitted, amended or added to and these changes must be taken into account when pricing the tender.

As it is not always practical or possible to cross reference every change to the Specifications, the onus rests on the tenderer to ensure that he is aware of the changes and to structure his rates accordingly.

C2.2 : BILL OF QUANTITIES

Is to be in line with the Standard Specifications for Road and Bridge Works.

Sub-Contracting for Construction of Thala to Qina Access Road

SECTION 1300

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1300	<u>CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS</u>				
13.01	The Contractor's general obligations:				
	The Contractor's general obligations:				
(a)	Fixed obligations	Lump Sum	1,00		
(b)	Value-related obligations	Lump Sum	1,00		
(c)	Time-related obligations	Month	1,00		
NB	The combined total tendered for subitems (a), (b) , (c) shall not exceed 15% of the Tender sum				
1300	TOTAL CARRIED TO SUMMARY				

Sub-Contracting for Construction of Thala to Qina Access Road

SECTION 2200

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2200	<u>PREFABRICATED CULVERTS</u>				
22.01	Excavation:				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0 m up to 1,5 m	m ³	1,00		
	(ii) 1,5 m up to 3,0 m	m ³	1,00		
	(b) Extra over subitem 22.01(a) for excavation in hard material, irrespective of depth	m ³	1,00		
22.02	Backfilling:				
	(a) Using the excavated material	m ³	1,00		
	(b) Using imported selected material	m ³	1,00		
22.03	Concrete pipe culverts:				
	(a) On class D bedding:*				
	1) 600mm dia	m	1,00		
22.17	Manholes, Catchpits, Inlet and Outlet Structures complete;				
	<u>rate includes</u>				
	19/20MPa Concrete Splinter block (0.27m ³)				
	19/20MPa Concrete slab (2.628m ³)				
	Gabion reno mattresses on outlets (0,6m ³)				
	Mesh-wire: Ref 193 (21.52m ²)				
	Brickwork.incl brickforce placed every 3rd course (5.332m ²)				
	Plaster/Mortar at ratio 1: 2,5 (10.664m ²)				
	(c.) Inlet and Outlet Structures (as per drawing)	No.	1,00		
22.26	Hand excavation to determine the positions of existing services	m ³	1,00		
2200	TOTAL CARRIED TO SUMMARY				

Sub-Contracting for Construction of Thala to Qina Access Road

SECTION 2300

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2300	<u>CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS</u>				
23.08	Concrete lining for open drains;				
	(a) Cast in situ concrete lining (20Mpa V-drain)	m ³	1,0		
	(b) Class U2 surface finish to V-drain	m ²	1,0		
23.09	Formwork to cast in situ concrete lining for open drains (class F2 surface finish)				
	(a) To sides with formwork on the the internal face only	m ²	1,00		
23.10	Sealed joints in concrete linings of open drains (10mm soft-board)	m	1,00		
23.12	Steel reinforcement				
	(c.) Welded steel fabric REF 245	m ²	1,00		
2300	TOTAL CARRIED TO SUMMARY				

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Part C2: Pricing Data

Sub-Contracting for Construction of Thala to Qina Access Road

SECTION 5100

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5100	PITCHING, STONework AND PROTECTION AGAINST EROSION				
51.01	Stone Pitching				
(c)	Groute 2000m x 1m wide stone pitching on a concrete bed (125 mm) (Including Preparation ,Excavation, form work and back filling)	Prov Sum	1,00		
5100	TOTAL CARRIED TO SUMMARY				

Sub-Contracting for Construction of Thala to Qina Access Road

SECTION 5200

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5200	<u>GABIONS</u>				
52.01	Foundation trench excavation and backfilling:				
	(b) In all other classes of material	m ³	1,00		
52.02	Surface preparation for bedding the gabions	m ²	1,00		
52.03	Gabions:				
	(a) Galvanized gabion boxes (1m x 1m x 4m, 4mm galvanised nominal diameter of mesh wire and 50mm x 50mm x 4mm galvanised mesh)	m ³	1,00		
	(c) Galvanized gabion mattresses (1m x 100mm x 4m, 4mm galvanised nominal diameter of mesh wire and 50mm x 50mm galvanised mesh)	m ³	1,00		
52.03	Filter fabric	m ²	1,00		
52.05	Concrete class 15/19 in blinding layer	m ³	1,00		
5200	TOTAL CARRIED TO SUMMARY				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
56.00	<u>ROAD SIGNS</u>				
56.01	Road sign boards complete with supports with Class 1 retro-refeective background. Symbols and lettering in semi-matt black . Borders in Class 1 retro-reflective material, where the sign board is constructed from; (c) Pre-painted galvanised steel plate (chromadek or approved equivalent) (i) 900mm diameter Round or Stop signs - R 1 - R 201 (ii) 900mm Triangular signs -W326 (iii) 150mm X 600mm Harzard Marker signs -W201	No No No No No	1,00 1,00 1,00 1,00 1,00		
56.03	Road sign support (a) Timber treated (i) 100mm diameter	m	1,00		
56.05	Excavation and backfilling for road sign support (a) Excavation for sign support	m ³	1,00		
56.07	Extra-over for 56.06 for cement treated backfill	m ³	1,00		
5600	TOTAL CARRIED TO SUMMARY				

Sub-Contracting for Construction of Thala to Qina Access Road

SECTION 7100

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7100	<u>CONCRETE PAVEMENTS</u>				
7.1	Concrete Pavement 19/25 Mpa and 150mm thick concrete in panels of 3m incl. required excavations and trimming, Ref 395 Mesh wire, rough formwork and surface finishing (hard-broom finish). 1050m² coverage area	Prov Sum	1,00		
7100	TOTAL CARRIED TO SUMMARY				

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Sub-Contracting for Construction of Thala to Qina Access Road

SUMMARY OF SCHEDULE OF QUANTITIES

SECTION		SCHEDULED
1300	CONTRACTOR'S ESTABLISHMENT ON SITE	
2200	PREFABRICATED CULVERTS	
2300	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS	
5100	PITCHING, STONWORK AND PROTECTION AGAINST EROSION	
5200	GABIONS	
5600	ROAD SIGNS	
7100	CONCRETE PAVEMENTS	
	TOTALS FOR WORKS	
	CONTIGENCIES 0%	
	SUB-TOTAL A	
	VALUE ADDED TAX 15%	
	TOTAL TENDER OFFER	

The undersigned, who warrants that he / she is duly authorised to do so on behalf of the enterprise, confirms that the contents of this schedule are within my personal knowledge and are to the best of my belief both true and correct.

Signed Date

Name Position

Tenderer