

(14)

B. LTM 2/242/2213/42

20-9-89



# A/S NOREMCO CONSTRUCTION

Civil engineering and building contractors

Ref. No. 82/1401/89/DEC/mm

D'Salaam, 20 September 1989

Norwegian People's Aid  
P.O. Box 3381  
Dar es Salaam.

For the attention of Mr. C. Knudsen

Dear Sir

## ADDITIONAL WORKS DAKAWA AND MAZIMBU

Further to Items 1.7, 2.6 and 2.8 we will enclose the following cost estimates for work required under these headings.

### Dakawa

1. Temporary water supply from a point in SOC to a point to the existing line. 1000 metre length assumed and corrections each end. TAS 6,741,800.00 = NOK 376,129.00 50m ie well/cancelled to SOC
- (c) 2. Hook up water supply from I3 to Main Central Area. TAS 21,285,320.00 = NOK 1,170,166.00 (+)
- (d) 3. Hook up sewage from I3 to Main Central Area. TAS 13,365,720.00 = NOK 734,784.00 (-)
- (e) 4. Mains water pipe parallel to Main Road. TAS 26,668,040.00 = NOK 1,466,082.00 (+)
- (f) 5. As regards item 1.7 our quotation for aggregate raised by standby generator is an additional NOK 20.- per m3 produced at source. We reserve the right to amend this figure should there be increases in fuel, oil, maintenance and service charges from present day levels.

Mazimbu

- (g) 6. 208 metres for Trenching and backfilling for water main.

TAS 1,355,368.00 = NOK 74,512.00

{ to reduce the price due to the works ie just laying the pipes. }

The following assumptions are made.

1. (a) Client supplied pipes for costs at Items 1 and 6.
- (b) Contractor supplied pipes for costs at Items 2, and 4.

Sketches and details from drawing No. A103-410 are used.

All trenches for sewage are assumed at depths of 1.50 - 2.00 m deep (PR 4/13/F of water/sewage scheme MCA). All trenches for Mains Water supply are assumed at a depth of 1.00 m a new is fixed. Rates for manholes are based on a typical 1.70 m deep manhole (PR 4/15/A) actual measurements to be made on completion of design and implementation.

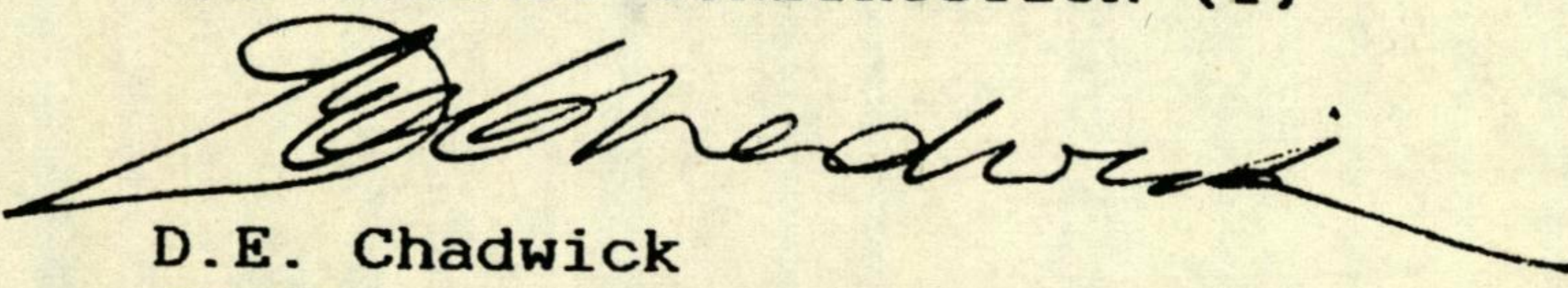
The foregoing is therefore only an indication of costs with related preliminary and general matters such as bonds, insurances, testing etc. added.

The scale of these works would obviously necessitate the negotiation of revised contract periods if given as a variation to existing contracts or establishment of new contract periods if let as individual contracts.

All rates used are from the existing current contracts with a modest update for inflation in Norway and based on payments of 100% Forex at current contract exchange rate.

All conditions applying to the current contracts in respect of advance payments, continuing use of facilities at Dakawa and Mazimbu shall apply.

Yours faithfully  
A/S NOREMCO CONSTRUCTION (T)

  
D.E. Chadwick  
SENIOR QUANTITY SURVEYOR

c.c. Dakawa Site  
N.P.A. Dakawa - Attn. Mr. E. Eriksen  
IFS/KR

Cost estimate for the following items:-  
based on Drawing A103-410.

DAKAWA

- 2.6.1. Temporary water supply based on previous proposal from NOREMCO and NORPLANS sketches for infiltration trenches.
- 2.6.2. I.3 Hook up water of supply from Main Central Area.
- 2.6.3. Mains water pipe along main road.
- 2.6.4. I.3 Hook up sewage main from Main Central Area.

MAZIMBU

- 2.8.1. 208 metres of pipelaying and trenching

DAKAWA

- 1. Temporary water supply (based on 1000m length)

A.	Excavate backfill etc. single pipe trench.	m	1000	3,290.00	3,290,000.00
B.	Assumed manholes for inspection/pressure test.	No	2	141,900.00	283,800.00
C.	Additional works in road crossings	No	2	300,000.00	600,000.00

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4,173,800.00

Preliminaries and General  
matters.

2,568,000.00

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6,741,800.00  
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2	Hook-up of water supply I3/MCA				
A.	Excavate <sup>backfill</sup> single pipe trench etc. (water)	m	800	3,290.00	2,632,000.00
B.	Supply and fix 225mm. diameter P.V.C pipe in trench. (NEW RATE)	m	800	15,360.00	12,288,000.00
C.	Assumed manholes etc.	No	2	141,900.00	283,800.00
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					15,203,800.00
Preliminaries and General matters.					6,081,520.00
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					21,285,320.00
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3.	Hook-up of mains Sewage I3/MCA				
A.	Excavate backfill etc. single pipe trench.	m	800	6,000.00	4,800,000.00
B.	Supply and fix 160mm. diameter P.V.C pipe in trench. (NEW RATE)	m	800	5,820.00	4,656,000.00
C.	Assumed manholes	No	2	141,900.00	283,800.00
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					9,739,800.00
Preliminaries and General matters.					3,895,920.00
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					13,635,720.00
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4. Main water supply (based on 1700m length)

A.	Excavate backfill etc. single pipe trench.	m	1700	3,290.00	5,593,000.00
B.	Supply and fix 225mm. diameter P.V.C pipe in trench. (NEW RATE)	m	800	15,360.00	12,288,000.00
C.	Assumed manholes inspec- tion pressure test	No	4	141,900.00	567,600.00
D.	Additional works in road crossings	No	2	300,000.00	600,000.00

Preliminaries and General  
matters.

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19,048,600.00

7,619,440.00

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26,668,040.00  
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MAZIMBU

6. Hook of water mains  
based on 208 metres.

A. Excavate backfill etc.  
single pipe trench

m

208

3,290.00

684,320.00

B. Assumed manholes

No

2

141,900.00

283,800.00

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968,120.00

Preliminaries and General  
matters.

387,248.00

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1,355,368.00

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COLLECTION  
DAKAWA

1

6,741,800.00

2

21,285,320.00

3

26,668,040.00

4

13,635,720.00

MAZIMBU

6

1,355,368.00

TOTAL WORKS DAKAWA/MAZIMBU

TAS

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69,686,248.00

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