



RUWASA
Rural Water Supply and Sanitation Agency

CONTRACT NO. AE-102/2021-2022/HQ-C/W/53

FOR

**CONSTRUCTION OF MADOPE WATER SUPPLY PROJECT AND
REHABILITATION OF LUDEWA TOWN WATER SUPPLY SCHEME IN
LUDEWA DC-NJOMBE REGION**

BETWEEN

**RURAL WATER SUPPLY AND SANITATION AGENCY (RUWASA)
(The Employer)**

AND

**M/s NYAGAWA TRADERS JV.Y.N INVESTMENT COMPANY LIMITED
(Contractor)**

DECEMBER, 2021

FORM OF CONTRACT

This Contract is made the 30th day of DECEMBER, 2021.

Between

The Rural Water Supply and Sanitation Agency (RUWASA), having its physical address at NBC Bank, Mazengo Branch, Kuu Road, P.O. Box 412, **DODOMA**, Tanzania (hereinafter called "**The Employer**") of the one part;

And

M/s Nyagawa Traders JV.Y.N Investment Company Limited, having its Physical address at **Magomeni Usalama Street**, P.O. Box 1020, **Dar es Salaam**, Tanzania (hereinafter called "**the Contractor**") of the other Part.

Both the Procuring Entity and the Supplier shall collectively and jointly be known as "**Parties**".

WHEREAS:

- (a) The Procuring Entity is a Government Agency established under the Water Supply and Sanitation Act No. 5 of 2019 which is responsible for development and sustainable management of rural water supply and sanitation projects and the provision of water supply and sanitation services in rural areas;
- (b) The Contractor is a **Class Five** Local Company registered under the Laws of Tanzania which is responsible for Civil Works;
- (c) The Employer invited Tenders for **Construction of Madope water supply project and Rehabilitation of Ludewa Town water supply scheme in Ludewa District-Njombe Region** Tender No. **AE-102/2021-2022/HQ-C/W/53** - under the terms and conditions set forth in this Contract; and
- (d) The Contractor having represented to the Procuring Entity that it has the required professional skills, expertise and technical resources, the Employer through the Letter of Notification of Award of Tender with Ref. No. **TB.37/419/14/42** dated **December 12nd, 2021** awarded a Tender to the Supplier at the contract sum of **Tanzanian Shillings Three Hundred Thirty-Nine Million Four Hundred Seventy-Five Thousand, Five Hundred Forty-two (Tsh. 339,475,542.00) VAT Exclusive** (Hereinafter referred to as "**the Contract Price**"). The work to be completed within One Hundred Eighty (120) days (hereinafter called "**Contract Period**").

NOW THEREFORE the Parties hereby agree as follows:

1. In this contract, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.



2. The following documents shall be deemed to form and be read and construed as an integral part to this contract, and shall be taken as complementary and mutually explanatory of one another but in the event of ambiguities, inconsistency or discrepancies within the Contract, the documents shall take precedence/prevail in the order set out below:

- (a) Form of Contract;
- (b) Special Conditions of Contract;
- (c) General Conditions of Contract;
- (d) Notification of Award of Tender;
- (e) Letter of Acceptance;
- (f) Price Schedule (BOQ);
- (g) Anti – bribery Memorandum;
- (h) Technical Specifications;
- (i) Drawings; and,
- (j) APPENDICES
 - (i.) Forms of Securities;
 - (ii.) Registered Power of Attorney; And
 - (iii.) Minutes of Negotiation Meeting.

3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute the proposed **Construction of Madope water supply project and rehabilitation of Ludewa town water supply scheme in Ludewa District-Njombe Region** for Madope and Ludewa Town Water Supply Project in Ludewa District (**hereinafter called "the Works"**) and to remedy defects therein in conformity in all respects with the provisions of the Contract.

4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the works, the sum of **Tanzanian Shillings Three Hundred Thirty-Nine Million Four Hundred Seventy-Five Thousand, Five Hundred Forty-two (Tsh. 339,475,542.00) VAT Exclusive**, at the times and in the manner prescribed in this Contract.

5. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects wherein the Contract Price as follows:

- a. 15% Advance Payment; and shall be paid to the contractor not later than **30 Days after submission of a claim supported by an acceptable Bank Guarantee of the same amount.**



- b. The rest of the payments shall be made upon submission and Acceptance of Certificate and it shall be paid to the Contractor within twenty-eight (28) days after the date of the acceptance certificate by The Employer.
- 6. The Contract price shall be paid in **Tanzanian Shillings** as stipulated under Clause 20 of the SCC.
- 7. The contract shall be executed for the period of **One Hundred Twenty (120) (120) days** which shall immediately commence from the date of site handling.

IN WITNESS whereof the parties hereto have caused this Contract to be executed in accordance with their respective laws the day and year first above written.

FOR AND ON BEHALF OF THE PROCURING ENTITY:

Signature: [Signature]

Name: Eng. SADICK CHAKKA

Title: REGIONAL MANAGER

Date: 30/12/2021



Seal:

In the presence of: [Signature]
Signature:

Name: Eng. ENOCK NJOMBE

Title: MR - LUDEWA WSSK

Date: 30th / DEC / 2021

FOR AND ON BEHALF OF THE CONTRACTOR:

Signature: [Signature]

Name: SAB Y. NYAGAWA

Title: DIRECTOR

Date: 30 DEC 2021

Seal:



In the presence of:
Signature: [Signature]

Name: SHABANI MTAMBE

Title: DIRECTOR

Date: 30 DEC 2021

Seal:

[Signature]

SPECIAL CONDITIONS OF CONTRACT (SCC)

SPECIAL CONDITIONS OF CONTRACT (SCC)

The following Special Conditions of Contract shall supplement the General conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract.

SCC Clause	GCC Clause	Description
1	1.1	<p>General</p> <p>The Employer is, RURAL WATER SUPPLY AND SANITATION AGENCY (RUWASA).</p> <p>The Adjudicator National Construction Council of Tanzania</p> <p>The Contractor is: M/s Nyagawa Traders JV.Y.N Investment Company Limited P.O.Box 5927, Dar es Salaam.</p> <p>The Defects Liability Period is 365 days.</p> <p>The Project Manager is: Mlinge N Lupetuilo District Engineer</p> <p>The name and identification number of the Contract is TENDER NO. AE-102/2021-2022/HQ-C/W/53 for Construction of Madope water supply project and rehabilitation of Ludewa town water supply scheme in Ludewa District-Njombe Region for Madope and Ludewa Town Water Supply Project in Njombe District.</p> <p>The Works consist of Madope Madope Water Project:</p> <ol style="list-style-type: none"> 1. Construction of Break Pressure Tank-2 No 2. Construction of main pipes Distribution and Main 12.0Km 3. Construction of Domestic water points-18No <p>The Works consist of ^{Ludewa Town} Madope Madope Water Project:</p> <ol style="list-style-type: none"> 1. Construction of an Intake-1No

Oh

		<p>2. Rehabilitation of Storage Tank-1No</p> <p>3. Construction of Kiosk-4NO.</p> <p>4. Construction of main pipes 16.56Km</p> <p>The Start Date shall be; Seven days after site possession.</p> <p>The Intended Completion Date for the whole of the Works shall be One Twenty (120) days.</p> <p>The site is located at Madope Village and Ludewa Town- Ludewa District, Njombe Region.</p>
2.	2.2	Indicate whether there is section completion is specified to be advised N/A
3.	2.3(10)	<p>List other documents that form part of the contract:</p> <p>A valid Business License.</p> <p>A valid VAT and TIN certificate.</p> <p>A copy of certificate of Board Registration.</p> <p>CRB Registration.</p>
4.	4.1	<p>The language of the Contract documents is English</p> <p>The law that applies to the Contract is the Laws of Tanzania</p>
5.	8.1	<p>Address for communication</p> <p>Employer's: Rural Water Supply and Sanitation Agency, P. O. Box 412, DODOMA.</p> <p>Contractor's: Nyagawa Traders JV.Y.N Investment Company Limited P.O.Box 5927, Dar es Salaam.</p>
6	12.1	Include the Schedule of Other Contractors, if any. N/A
7.	13.1	<p>Include the Schedule and availability of Key Personnel.</p> <p>Site Engineer: Bakarii Bundala</p> <p>Technician: Athanasius Lembu</p> <p>Soil Engineer/Technician: Eng Peter James</p> <p>Land Surveyor: Arthur Zakaria Komba</p> <p>Foreman: Hamis Issa Kirama</p>
8.	17.1	The minimum insurance covers shall be;

		<p>a) The maximum deductible for insurance of the works and of plant and materials is Tshs. 1,000,000.00</p> <p>b) The minimum cover for insurance of the works and of plant and materials in respect to the Engineer faulty design is Tshs. 1,000,000.00</p> <p>c) The maximum deductible for insurance of equipment is Tshs, 1,000,000.00</p> <p>d) The minimum cover for loss or damage to equipment is Tshs, 2,000,000.00</p> <p>e) The minimum cover for the personal injury or death insurance for the Sub-Contractors employees is Tshs. 2,000,000.00</p> <p>The evidence of the insurance and relevant policies shall be provided within 7days before commencement date.</p>
9.	18.1	Site Investigation Reports available to the Bidder are: N/A
	25.1	Unless otherwise state tax payment status.....
10.	26.4	<p>The other measures include:</p> <p>(a) Minimizing the number of migrant workers employed on the project and household in the site camp</p> <p>(b) Providing access to voluntary counseling and testing (VCT)</p> <p>(c) Providing psychological support and health care including prevention and treatment of opportunistic infections for workers infected and affected, as well as their families</p> <p>(d) Providing condoms (male and female) to workers</p>
11.	28.1	The Site Possession Date shall be: Seven days (7) after signing the contract
12.	32.2	If either Party is dissatisfied with the Adjudicator's decision may, refer the dispute for arbitration within 30 days.
13	31.1	Appointing Authority for the Adjudicator: National Construction Council of Tanzania
14.	32.3	Arbitration will take place at Dar Es Salaam in accordance with rules and regulations published by National Construction Council of Tanzania

15.	35.1	Otherwise, state [<i>insert the responsible person for security of the site</i>]
A. Time Control		
16.	36.1	The Contractor shall Submit a Programmer for the works within Seven (7) days after signing the Contract.
17.	36.2	The period between Programmer updates is 28 days.
18.	36.2	The amount to be withheld by the Project Manager in the case the contractor does not submit an updated work programmer is: TZS 5,500,000 /-
B. Quality Control		
19.	44.1	The Defects Liability Period is 365 days.
C. Cost Control		
20	52.7	The minimum amount of interim payment certificate shall be 10% of contract price.
21	54.1	The currency of all payments shall be Tanzanian Shillings.
22.	57	The contract price is not price adjustment in accordance with Clause 50 of the General Conditions of Contract.
23.	58.1	The amount of retention is 10% of value of works of Interim Payment Certificate'. Limit of retention will be 10% of contract price.
24.	59.1	The amount of liquidated damages is <i>0.1 percent of contract price per day</i> . The maximum amount of liquidated damages must be equivalent to the amount of the performance security 10%
25.	60.1	The bonus for early completion is N/A
26.	61.1	The amount of advance payment shall be 15% of the Contract price and shall be paid to the contractor not later than 30 Days after submission of a claim supported by an acceptable Bank Guarantee of the same amount. Monthly Recovery of Advance Payment: 15% of interim payments Certificate
27.	62.1	The Performance Security shall be: Ten percent (10%) of the contract price. And it will be submitted to the Employer



		immediately after signing the contract in Certified Cheque, Bank Guarantee or Insurance Bond.
28	66.1	Contractor shall handover the site and the works to the Employer within 7 Days after Certificate of Completion.
		D. Discharge of the Contract
29.	68.1	As built drawings shall be supplied by the contractor by: Within twenty-eight (28) days after practical completion date. Operating manual shall be supplied by the contractor by: Within 14 days after practical completion date.
30.	68.2	The amount to be withheld by the Project Manager in case the contractor does not submit as built drawings is: 5,500,000/- The amount to be withheld by the Project Manager in case the contractor does not submit operating manual is: 0.1% of the Contract Sum
31.	69.2(i)	Number of days for which the maximum amount of liquidated damages can be paid is: 100 days.
32.	70.1	The percentage to apply to the value of the work not completed, representing the Employer's additional cost for completing the Works, is 10% of the balance works.

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STANDARD POWER OF ATTORNEY

TO ALL WHOM IT MAY CONCERN

THAT BY THIS Power of Attorney given on the 1st Day of December 2021, We undersigned SAID YASIN NYAGAWA and HAMISI ISSA KIRAMA being directors of NYAGAWA TRADERS of P.O. Box 5927, DAR ES SALAAM and IDDI YASINI and JULIUS NYANDINDI being directors of YN INVESTMENT CO. LTD of P.O BOX 25133 DAR ES SALAAM by virtue of authority conferred to us by the Board resolution No 02 of 30th day of NOVEMBER, 2021 do hereby ordain nominate and appoint SAID YASIN NYAGAWA of P.O BOX 5927 Dar es salaam to be our true lawful attorney and agent with full power and authority, for us and in our names, and for our accounts and benefit to do any, or all of the following acts, in the execution of Quotation No. AE-102/2021-2022 /HQ-C/W/53 that is to say:

To act for the company and do any other or things incidental for Tender No. AE-102/2021-2022/HQ-C/W/53 of construction of Madope water supply project and rehabilitation of Ludewa town water supply scheme in Ludewa district-Njombe region, for regional manager rural water supply and sanitation agency, p.o. box 634 Njombe;

AND provided always that this power of attorney shall not revoke or in any manner effect any future power of attorney given to any other persons for such other power or powers shall remain and be of the same force and effect as if this deed has not been executed.

AND we hereby undertake to ratify everything, which our Attorney or any substitute or agents appointed by him under this power on his behalf herein before contained shall do or purport to do in virtue of this Power of Attorney.

SEALED with the common seal of the said NYAGAWA TRADERS and YN INVESTMENT CO. LTD and delivered in the presence of us this 1st Day of December, 2021.

IN WITNESS whereof we have signed this deed on this day of 1st December, 2021, at Dar es Salaam for and on behalf of NYAGAWA TRADERS and YN INVESTMENT CO. LTD.

SEALED with the common seal of NYAGAWA TRADERS in our presence this 23rd day of December 2021



Signature: *[Handwritten Signature]*
Postal Address: 5927 Asim

Qualification: DIRECTOR
Signature: *[Handwritten Signature]*
Postal Address: 5927 Dm

Qualification: DIRECTOR
[Handwritten Signature]



SEALED with the common seal of
Y.N INVESTMENT CO.LTD in our
presence this day
of 2021

PRINCIPALS' SEAL

Signature: *[Handwritten Signature]*

Postal Address: *Box 25133*
D'SALAAM

Qualification: *MANAGING DIRECTOR*

Signature: *[Handwritten Signature]*

Postal Address: *25133*
D. Salaam

Qualification: *DIRECTOR*

SIGNED and DELIVERED by the said
SAID YASIN NYACAWA who is known to
me personally, identified to me by.

the later being known to me personally,
in my presence this day of
2021.

Name: *AGATHON A. KOMBA*

Signature: *[Handwritten Signature]*

Postal Address: *Box 9203*
DAR-ES-SALAAM

Qualification: *ADVOCATE*

Qualification:

[Handwritten Signature]

DONEE



[Handwritten Initials]

TANGANYIKA STAMP DUTY ACT
Stamp Duty Shs: 500/- Paid
Receipt No: 921357085308280
of: 23/12/2021
Stamp Duty Officer

TANGANYIKA
REGISTRY OF DOCUMENTS
DAR ES SALAAM
Presented 23/12/2021 at 1.00
Registered on Folio No. V.182926
Serial No. 18966/31 of the National
Register Fee Shs. 50,000/- Paid
Vide Receipt No. 921357085308280
of 23/12/2021
Sen. Asst. Registrar of Documents

7
7
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JAMHURI YA MUUNGANO WA TANZANIA

WIZAYA MAJI



WAKALA WA MAJI NA USAFI WA MAZINGIRA VIJIJINI

Mtaawa SIDO, S. L. P 634, NJOMBE,
Simu:+255 (0) 262782185, Tovuti:www.ruwasa.go.tz,
Baruapepe: njomberm@ruwasa.go.tz

Kumb. Na. TB.37/419/14/41

H/M
Shughulika
Abdulla
RM - 18/12/21

18.12.2021

MENEJA RUWASA (M)
S. L. P. 634,
NJOMBE

Yah: KUWASILISHA TAARIFA YA MAJADILIANO MRADI WA MAJI MADOPE NA UKARABATI WA MRADI LUDEWA MJINI.

Tafadhali husika na mada tajwa hapo juu pamoja na barua yako yenye kumb. Na TB.37/419/14/40 ya tarehe 16.12.2021 inayohusu kufanya majadiliano juu ya gharama za mradi ili kukidhi ujenzi wa mradi huo.

Timu ya majadiliano imefanya kazi hiyo na muhtasari umeambatanishwa.

Kwa barua hii naomba kuwasilisha taarifa ya majadiliano kwa hatua zaidi.

Eng. Wilson Novath

Mwenyekiti

Timu ya Makubaliano

**TAARIFA YA MAJADILIANO YA MKATABA WA MRADI WA MAJI LUDEWA MJINI
(IMPROVEMENT OF LUDEWA TOWNSHIP WATER SUPPLY PROJECT LOT II)
TAREHE 18 DISEMBA 2021**

WALIOHUDHURIA

A. RUWASA MKOA WA NJOMBE

1. Eng Wilsonn B Novath-Ofisi ya RUWASA MKOA –M/KITI
2. Eng. Lupyana Haule-Ofisi ya RUWASA MKOA-Katibu
3. Eng. Enock W Ngoyinde-Mjumbe
4. Said Y.Nyagawa Mkurugenzi Nyagawa Traders
5. Hamis Issa TD

AGENDA ZA KIKAO

1. Kufungua Kikao
2. Mkaubaliano kuhusu Agenda
3. Makubaliano juu ya Punguzo la Gharama za Mradi
4. Muda wa utekelezaji Mradi
5. Mengineyo
6. Kufunga kikao

MUHT NA. 1/18/12/2021 KUFUNGUA KIKAO

Kikao kilifunguliwa na Mwenyekiti Saa 4.30 Asubuhi, Mwenyekiti alitoa nafasi ya Utambulisho kwa kila Mjumbe ambapo kila mjumbe alijitambulisha kwa Jina na nafasi yake/cheo chake

MUHT NA. 2/18/12/2021 MAKUBALIANO KUHUSU AGENDA

Katibu aliwasomea wajumbe agenda. Mwenyekiti alitoa mwongozo wa majadiliano ya agenda na wajumbe wote kwa pamoja walikubaliana agenda zijadiliwe

MUHT NA. 3/18/12/2021 MAKUBALIANO JUU YA PUNGUZO LA GHARAMA ZA MRADI

Mwenyekiti alianza kwa kutoa mwongozo juu ya makubaliano haya kwa kushauri kuwa majadiliano yajikite kuanzia kipengele cha Kwanza mpaka cha Mwisho kwa mradi wa Ludewa Mjini, Majadiliano hayo ni kama yanavyoonekana hapo chini

Kipengele Na.3.1.1

Katika kipengele hicho idadi ya mita ilipunguzwa kutoka mita 18,606 mpaka mita 14,256 na gharama ilipungua kutoka Tshs 3,349,080 mpaka Tshs 2,566,080.00

Kipengele Na.3.2.1

Katika kipengele hicho idadi ya mita ilipunguzwa kutoka mita 13,166 mpaka mita 10,034 na gharama ilipungua kutoka Tshs 65,830,000 mpaka Tshs 50,169,600.00

Kipengele Na. 3.5.2.

Katika kipengele hicho idadi ya mita ilipunguzwa kutoka mita 5256 mpaka mita 3456

Kipengele Na. 3.5.1, 3.5.2, 3.5.3, 3.5.4, 3.5.5

Katika vipengele hivyo jumla gharama za mradi zilipunguzwa kutoka Tshs 85,536,000 mpaka Tshs 42,768,000.00

Kipengele Na. 3.6.1

Katika kipengele hicho kazi ya ununuzi wa bomba la GS (PN16, DN 250) kazi imeondolewa na hivyo itatekelezwa kupitia mradi wa *National water Fund*

Baada ya Majadiliano hayo gharama ya mkandarasi ilipungua kutoka shilingi milioni Mia tatu na nne, Miamoja na hmsini elfu miatano kumi na nane bila senti (Tshs 304,150,518.00), mpaka shilingi milioni miambili na nane miatatu na hamsini na sita elfu na shilingi sabini na nane bila senti (Tshs 208,356,078.00)

MUHT NA. 4/18/12/2021 MUDA WA UTEKELEZAJI MRADI

Wajumbe walibainisha kuwa muda wa utekelezaji wa kazi utakuwa ni kipindi cha miezi minne na kazi itakamilika tarehe 30 Aprili 2022.

MUHT NA. 5 /18/12/2021 MENGINEYO

Mkandarasi ameomba swala la Msamaha wa kodi kufanyiwa kazi mapema ili aweze kununua vifaa mapema pindi mkataba utakaposainiwa.

MUHT NA. 6 /18/12/2021 KUFUNGA KIKAO

Mwenyekiti alifunga kikao kwa kuwashukuru wajumbe kwa kuchangia vyema katika kikao na kufunga saa 7:00 Mchana

Kwa niaba ya RIJWASA-Mkoa wa Njombe

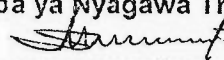
Sahihi: 

Jina: Wilson B. Nwachi

Cheo: Mwenyekiti

Tarehe: 18/12/2021

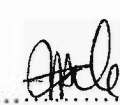
Kwa niaba ya Nyagawa Traders

Sahihi: 

Jina: SAID Y. NYAGAWA

Cheo: Mkurugenzi Mtendaji

Tarehe: 18-12-2021

Sahihi: 

Jina: LUPYANA HAUKE

Cheo: Katibu

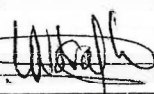

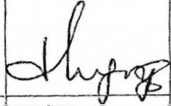
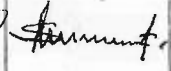

Tarehe: 18/12/2021





MAHUDHURIO YA KIKAO CHA MAJADILIANO YA ZABUNI YA KAZI YA UJENZI WA MRADI WA MAJI
MADOPE NA LUDEWA MJINI

TENDA NA. AE-102/2021-2022/HQ-C/W/54

NA.	JINA	CHEO	KAMPUNI/TAASISI	NAMBA YA SIMU	SAHIHI
1	Br. Wilson B. Nwally	M/Kiti	RURWA	0718640772	
2	Eng. Lupyana Haula	Katibu	RURWA	0756-529336	
3	Eng. Enoch NGOTINDE	MD-LUDUWA Member	LUDUWA	0752-502504	
4	Said Y. NYAGAWA	M. KURUGENZI	NYAGAWA TRADERS	071.3.5.30970	
5	Hamisi ISSA	TD	NYAGAWA TRADERS	0784475402	





IMPROVEMENT OF LUDEWA TOWNSHIP WATER SUPPLY PROJECT LOT II

BILL OF QUANTITY

Item	Description	Unit	Qty	Rate (Tshs)	Amount(Tshs)
1.0	PRELIMINARIES AND GENERAL ITEMS				
1.1.0	Contractual Items				
1.1.1	Insurance of the works, third party liability, accident or injury to workman, Contactor's equipment, materials in transit to site with vehicles.	LS	1	3,000,000.00	3,000,000.00
1.1.2	Performance Guarantee	LS	1	3,000,000.00	3,000,000.00
1.2.0	General Requirements				
1.2.1	Facilities the Contractors to establish the Contractor's camp(s), store and offices, including mobilization of all required plant at site	LS	1	8,000,000.00	8,000,000.00
1.3.0	Method related charges				
1.3.1	Electricity, Water and Security	LS	1	2,000,000.00	2,000,000.00
1.4.0	Temporary Works				
1.4.1	Provide, erect and maintain sign board for main construction sites 2x2m and according to engineer approval	NO.	1	800,000.00	800,000.00
1.5.0	Testing and inspection of Materials by Third Party as directed by the Engineer.				
1.5.1	Testing of construction materials	LS	1	1,800,000.00	1,800,000.00
	Subtotal Bill No.1 for Preliminaries and General				18,600,000.00
2.0.0	Bill No. 2 For supply and Installing Various pipes Fittings as per specifications				
2.1.0	Sluice valves				
2.1.3	DN 150 DCI Flanged Sluice valve	PCS	1	364,800.00	364,800.00
2.1.6	Disc flange				
2.1.9	CI Flange DN 250	PCS	12	336,000.00	4,032,000.00
2.1.12	Clamp Saddles				
2.1.15	Clamp saddle 6"/2"	PCS	2	28,800.00	57,600.00
2.1.18	Clamp saddle 6"/1 1/2"	PCS	5	28,800.00	144,000.00
2.1.21	Clamp saddle 4"/2"	PCS	5	14,400.00	72,000.00
2.1.24	Clamp saddle 4"/1 1/2"	PCS	5	14,400.00	72,000.00
2.1.27	Clamp saddle 3"/1 1/2"	PCS	5	11,520.00	57,600.00
2.1.30	Clamp saddle 2"/2"	PCS	5	14,400.00	72,000.00
2.1.33	Gate valve				
2.1.36	DN80 Brass Gate valve (Pex-3")	PCS	3	192,000.00	576,000.00
2.1.39	DN50 Brass Gate valve (Pex-2")	PCS	3	67,200.00	201,600.00
2.1.42	DN40 Brass Gate valve (pex-1 1/2")	PCS	3	43,200.00	129,600.00
2.1.45	Male connectors				
2.1.48	Male connector PN10, DN 90	PCS	5	24,000.00	120,000.00
2.1.51	Male connector PN10, DN 63	PCS	10	11,520.00	115,200.00
2.1.54	Male connector PN10, DN 50	PCS	12	7,680.00	92,160.00
2.1.57	Couplings PN 10				
2.1.60	Coupling PN 10, DN 90	PCS	10	36,480.00	364,800.00
2.1.63	Coupling PN 10, DN 75	PCS	10	28,800.00	288,000.00
2.1.66	Coupling PN 10, DN 63	PCS	27	16,800.00	453,600.00
2.1.69	Coupling PN 10, DN 50	PCS	26	11,520.00	299,520.00
2.1.72	Nipple				
2.1.75	Nipple 3"	PCS	10	24,000.00	240,000.00
2.1.78	Nipple 2"	PCS	15	9,600.00	144,000.00
2.1.81	Nipple 1 1/2"	PCS	15	6,720.00	100,800.00

2.18.41	Supply and Installation of Domestic Flow meters (Strainers and non return valve) incl.all required accessories as per given drawing & specifications				
2.1.87	Supply and Installation of Fire Hydrants				
2.1.90	DN 100 fire Hydrants	PCS	1	400,000.00	400,000.00
2.1.93	Set Valves keys				
2.1.96	Supply of valves and hydrants universal keys	PCS	1	100,000.00	100,000.00
2.1.99	Bolts, nuts with washers 16mm	PCS	180	4,200.00	756,000.00
	Sub total bill No. 2: Supply of Fittings				9,253,280.00
3.0.0	PHYSICAL WORK FOR DISTRIBUTION AND RETICULATION OF PIPE NETWORK				
3.1.0	Pipe route alignment,trench excavation,pipe fussion,pipe laying and fixing and pipe back filling with accordance to specifications and site engineer instructions				
3.1.1	Pipe route alignment	m	14,256	180.00	2,566,080.00
3.2.0	Trench Excavation				
3.2.1	Trench Excavation in normal soil below ground level for steel/uPVC/HDPE pipes to a depth not less than 1.2m for DN>100mm and width of 60cm. Trench excavation shall be carried out in accordance to specifications.	m ³	10,034	5,000.00	50,169,600.00
3.2.2	E.O. Items for excavation in hard rock	m ³	86	4,500.00	388,800.00
3.2.3	Ditto.but, excavation across unsurfaced roads (Grave road), including surface reinstatement	m ³	99	7,200.00	712,800.00
3.2.4	E.O. Items for excavation across surfaced roads (pavement areas), including surface reinstatement	m ³	81	9,000.00	729,000.00
3.3.0	Fussing of HDPE Pipes				
3.3.1	OD 160mm HDPE,PN 10 in 12m length	Joint	200	9,000.00	1,800,000.00
3.3.2	OD 110mm HDPE, PN 10 in 12m length	Joint	438	7,000.00	3,066,000.00
3.5.0	Laying and backfilling of pipes for distribution and reticulation network (uPVC,HDPE ,Steel) with push in socket/spigot , rubber gaskets and lubrication including fixing of all valves,bends as per specifications				
3.5.1	OD 160mm HDPE,PN 10 in 12m length	m	2400	3,300.00	7,920,000.00
3.5.2	OD 110mm HDPE, PN 10 in 12m length	m	3456	3,300.00	11,404,800.00
3.5.3	OD 63mm HDPE, PN 10 in 150m length	m	4800	3,300.00	15,840,000.00
3.5.4	OD 50mm HDPE, PN 10 in 150m length	m	3300	3,300.00	10,890,000.00
3.5.5	uPVC Pipes DN 250mm, PN 10 with its rubber seal	m	300	3,300.00	990,000.00
3.6.0	Supply of offtake and Joinary pipes for Storage Tank				
3.6.1	Supply of GS Pipes Medium (PN 16) DN 250	m	36		
	Sub total bill No. 3:Physical work For distribution and reticulation network				106,477,080.00
	Sub total bill No. 1-3: Distribution network				134,330,360.00

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4.0.0	REHABILITATION OF GRAVITY MAINS FOR MAPETU 1, MKONDACHI AND MDONGA PIPES.				
4.1.1	Mkondachi (1500m)				
4.1.2	Supply of DN50 CI Threaded Single Air Valve	PCS	2	100,000.00	200,000.00
4.1.3	Supply of Clamp saddle 6"/2"	PCS	2	28,800.00	57,600.00
4.1.4	Supply of Gate valve (pex) 2"	PCS	2	67,200.00	134,400.00
4.1.5	Mapetu 1- (750m)				-
4.1.6	Supply of DN50 CI Threaded Single Air Valve	PCS	2	100,000.00	200,000.00
4.1.7	Supply of Clamp saddle 6"/2"	PCS	2	28,800.00	57,600.00
4.1.8	Supply of Gate valve (pex) 2"	PCS	2	67,200.00	134,400.00
4.1.9	Mdonga (300m)				-
4.1.10	Coupling 3"	PCS	4		
4.1.11	Labour Work				-
4.1.12	Pipe uprouting and excavation for Mkondachi, Mapetu 1, and Mdonga gravity mains	m	1500	5,000.00	7,500,000.00
4.1.13	Pipe laying for Mkondachi, Mapetu 1 and Mdonga gravity mains	m	750	2,000.00	1,500,000.00
4.1.14	Trench backfilling for Mkondachi, Mapetu 1 and Mdonga gravity mains	m	300	3,000.00	900,000.00
4.1.15	Installation of Air Valve for Mkondachi, Mapetu 1 and Mdonga gravity main	No	4	15,000.00	60,000.00
	Sub total bill No. 4 : Rehabilitation of Gravity mains				10,744,000.00
5.0.0	CIVIL WOK				
5.1.1.	Construction of water KIOSK at Ludewa Stand, Ludewa District Market, Ludewa Disctric Hospital and Ludewa Primary School	No	4	2,400,000.00	9,600,000.00
5.1.1.	Re-Construction of Mdonga Intake	LS	1	10,000,000.00	10,000,000.00
5.1.1.	Construction of 6 chambers for control valve, Washout and Air valves as shown on the drawings.	No	8	720,000.00	5,760,000.00
5.1.1.	Rehabilitation of Kilimahewa Stone Storage Tank 240m ³ (Rectangular tank)	LS	1	5,000,000.00	5,000,000.00
5.1.1.	Major rehabilitation of Block work Storage Tank 200m ³ (Round) at Kilimahewa which include demolishen of nine column inside the tank, Casting of reinforced concrete column of 40cm diameter, casting of reinforced concrete top cover ,replastering internaly/externaly, painting in three coat and Pipe connections	LS	1	23,000,000.00	23,000,000.00
	Sub Total bill no.5				53,360,000.00
	Sub total bill No 1-5				198,434,360.00
	Add 5% Contingency		5%		9,921,718.00
	GRAND TOTAL				208,356,078.00

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SECTION VIII: BILL OF QUANTITIES

BILL OF QUANTITIES FOR CONSTRUCTION OF MADOPE VILLAGE WATER SUPPLY PROJECT (COVID 19)					
ITEM NO.	DESCRIPTIONS	UNIT	QUANTITY	RATE (TZS)	AMOUNT (TZS)
BILL 1	PRELIMINARIES AND GENERAL ITEM				
1.0	Contractual requirements				
1.1	Allow for compliance with all clauses of the conditions of contract and specifications and contractors obligations not covered elsewhere.	sum	1.00	1,200,000	1,200,000
1.2	Provide for the performance bond, in accordance with the condition of contract	sum	1.00		
1.3	Provide for insurance of the works	sum	1.00	1,200,000	1,200,000
1.4	Provide for third party insurance	sum	1.00	1,200,000	1,200,000
1.5	Provide for establishment and removal of project sign boards	sum	2.00	600,000	1,200,000
1.6	General requirements				
1.7	Allow for testing of Gravity main and distribution mains	sum	1.00	3,000,000	3,000,000
	Total of Bill 1 Carried to Summary: Preliminaries and General Item				7,800,000.00
Bill 2	PIPES AND FITTINGS FOR MADOPE WATER SUPPLY PROJECT - SUPPLY ONLY				
	(DO NOT INCLUDE PRICE OF HDPE PIPES SINCE THEY HAVE BEEN PROCURED BY RUWASA) Only quote for trench excavation, laying of Pipes and Fittings and back filling in a trenches not less than 1m depth and 0.6m wide.				
2.1	Transmission main and Distribution	m	12004	6000	72,024,000
2.2	SUPPLY OF GS pipes Medium Class				
2.2.1	DN 100, medium class @length 5.8m	PC	Not Applicable		
2.2.2	DN 80, medium class	PC	Not Applicable		

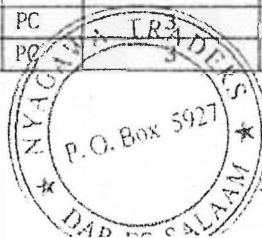


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	@length 5.8m				
2.2.3	DN 20, medium class @length 5.8m	PC	Not Applicable		
2.3	STRAINER				
2.3.1	DN 100 perforated strainer	PC	1	336,000	336,000
2.4	FLAP/NON RETURN VALVE				
2.4.1	DN 100 double flanged flap valve	PC	2	384,000	768,000
2.4.2	DN 150 double flanged flap valve	PC	2	576,000	1,152,000
2.5	AIR VALVE				
2.5.1	DN 75 Single Air Valve and its components	PC	4	249,600	998,400
2.5.2	DN 75 Washout and its components	PC	4	432,000	1,728,000
2.6	NIPPLE				
2.6.1	DN 75 Single Air Valve and its components	PC	4	250,000	1,000,000
2.6.2	DN 75 Washout and its components	PC	4	432,000	1,728,000
2.6.3	DN 75 Single Air Valve and its components	PC	4	250,000	1,000,000
2.6.4	DN 75 Washout and its components	PC	4	480,000	1,920,000
2.7	SLUICE/GATE VALVE				
2.7.1	DN 100 double flanged sluice valve	PC	2	240,000	480,000
2.7.2	Gate valve uk pex DN 65mm	PC	6	672,000	4,032,000
2.7.3	Gate valve uk pex DN 50mm	PC	5	43,200	216,000
2.8	MALE CONNECTOR				
2.8.1	OD 50 HDPE PN 20 male connector	PC	7	11,520	80,640
2.8.2	OD 32 HDPE PN 20 male connector	PC	4	3,840	15,360
2.8.2	OD 25 HDPE PN 20 male connector	PC	12	2880	34,560
2.9	FLOW METER				
2.9.1	DN 100 double flanged flow meter	PC	2	364,200	729,600
2.10	BAYLAN METER				
2.10.1	Installation of Water Baylan meters(1/2")	No	18	E.3,600	2,764,800
2.11	FLANGE				
2.11.1	DN 100 double flanged GS	PC	15	50,000	750,000
2.12	STAB/REDUCER				
2.12.1	OD 110 x 90	PC	3	76,800	280,400
2.12.2	OD 90 x 75	PC	3	67,200	201,600
2.12.3	OD 75 x 63	PC	2	57,600	115,200
2.12.4	OD 63 x 50	PC		48,000	144,000
2.12.5	OD 32 x 25	PC		38,400	115,200

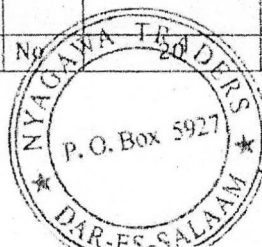


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2.13	STRAIGHT COUPLING				
2.13.1	HDPE PN 25 OD 25	PC	16	5760	92,160
1.13.2	HDPE PN 20 OD 32	PC	18	6720	120,960
2.13.2	HDPE PN 20 OD 50	PC	15	14,400	216,000
1.13.3	HDPE PN 20 OD 63	PC	15	24,000	360,000
2.13.3	HDPE PN 20 OD 75	PC	8	33,600	268,800
2.14	TEE CONNECTOR				
2.14.1	Double flanged equal Tee DN 100	PC	1	96,000	96,000
2.14.2	Double flanged equal Tee DN 75	PC	2	38,400	76,800
2.14.3	Tee poly equal male 100mm	PC	2	96,000	192,000
2.14.4	GS equal Tee DN 20	PC	20	2,700	54,000
2.15	TAPPING CLAMP				
2.15.1	Saddle clamp OD 110 x 75 mm	PC	2	48,000	96,000
2.15.2	Saddle clamp OD 90 x 75 mm	PC	2	28,800	57,600
2.15.3	Saddle clamp OD 110 x 63mm	PC	3	14,400	43,200
2.15.4	Saddle clamp OD 50x25mm	PC	15	5,760	86,400
2.15.5	Saddle clamp OD 63 x 32 mm	PC	10	6,720	67,200
2.16	SOCKET				
2.16.1	DN100 GS socket	PC	9	33,600	302,400
2.16.2	DN 80 GS socket	PC	10	24,000	240,000
2.17	ELBOW/BEND				
2.17.1	GS Elbow bend 30°DN 110mm	Nos	4	24,000 / 15	96,000
2.18	UNION				
2.18.1	DN 100 hexagon union	PC	2	67,200	134,400
2.18.2	DN 80 hexagon union	PC	2	43,200	115,200 86,400
2.19	REDUCING BUSH				
2.19.1	DN 110x75 mm	PC	4	33,600	134,400
2.19.2	DN 90 x 75 mm	PC	4	28,800	115,200
	Sub total for bill 2 Pipes and fittings				95,499,680.00
Bill 3	CONSTRUCTION OF BREAK PRESSURE TANKS AND DPs				
3.1	Construct break Pressure Tanks as instructed by Engineer /representative and as shown in the Drawing, rate including excavations,backfilling, formworks and installation of all fittings.	No.	2	1,152,000	2,304,000
3.2	Construction of Domestic Water points, according to drawings	nr	18	900,000	16,200,000
3.3	Supply Installtion Water	No		153,600	3,072,000

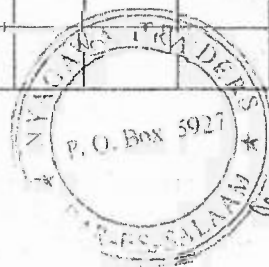


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	Baylan meters(1/2")			
	Sub total for Bill 3Break Pressure tank and Dostic water points			21,576,000.00
MADOPE WATER SUPPLY PROJECT - SCHEDULES				
Bill 1:				
	Preliminaries and General Items			7,800,000.00
Bill2:				
	Pipework-Pipes and fittings - Supply and Install			95,499,680.00
Bill 3:				
	Break Pressure Tank and Domestic water point works			21,576,000.00
	Subtotal of all Bills			124,875,680.00
	Add Contingency 5%			6,243,784
	Grand Total			131,119,464.00

IMPROVEMENT OF LUDEWA TOWNSHIP WATER SUPPLY PROJECT LOT II					
BILL OF QUANTITY					
Item	Description	Unit	Qty	Rate (Tshs)	Amount (Tshs)
1.0	PRELIMINARIES AND GENERAL ITEMS				
1.1.0	Contractual Items				
1.1.1	Insurance of the works, third party liability, accident or injury to workman, Contractor's equipment, materials in transit to site with vehicles.	LS	1	3,000,000	3,000,000
1.1.2	Performance Guarantee	LS	1	3,000,000	3,000,000
1.2.0	General Requirements				
1.2.1	Facilities the Contractors to establish the Contractor's camp(s),store and offices, including mobilization of all required plant at site	LS	1	8,000,000	8,000,000
1.3.0	Method related charges				
1.3.1	Electricity, Water and Security	LS	1	2,000,000	2,000,000
1.4.0	Temporary Works				
1.4.1	Provide, erect and maintain sign board for main construction sites 2x2m and according to engineer approval	NO.	1	800,000	800,000
1.5.0	Testing and inspection of Materials by Third Party as directed by the Engineer.				
1.5.1	Testing of construction materials	LS	1	1,800,000	1,800,000
	Subtotal Bill No.1 for Preliminaries and General				18,600,000
2.0.0	Bill No. 3 For supply and Installing Various pipes Fittings as per specifications				



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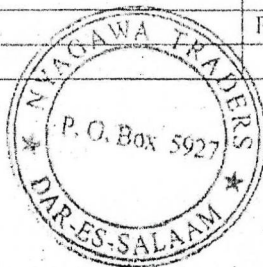
2.1.0	Sluice valves				
2.1.3	DN 150 DCI Flanged Sluice valve	PCS	1	364,800	364,800
2.1.6	Disc flange				
2.1.9	CI Flange DN 250	PCS	12	336,000	4,032,000
2.1.12	Clamp Saddles				
2.1.15	Clamp saddle 6"/2"	PCS	2	28,800	57,600
2.1.18	Clamp saddle 6"/1/2"	PCS	5	28,800	144,000
2.1.21	Clamp saddle 4"/2"	PCS	5	14,400	72,000
2.1.24	Clamp saddle 4"/1 1/2"	PCS	5	14,400	72,000
2.1.27	Clamp saddle 3"/1 1/2"	PCS	5	11,520	57,600
2.1.30	Clamp saddle 2"/2"	PCS	5	14,400	72,000
2.1.33	Gate valve				
2.1.36	DN80 Brass Gate valve (Pex-3")	PCS	3	192,000	576,000
2.1.39	DN50 Brass Gate valve (Pex-2")	PCS	3	67,200	201,600
2.1.42	DN40 Brass Gate valve (pex-1 1/2")	PCS	3	43,200	129,600
2.1.45	Male connectors				
2.1.48	Male connector PN10, DN 90	PCS	5	24,000	120,000
2.1.51	Male connector PN10, DN 63	PCS	10	11,520	115,200
2.1.54	Male connector PN10, DN 50	PCS	12	7,680	92,160
2.1.57	Couplings PN 10				
2.1.60	Coupling PN 10, DN 90	PCS	10	36,480	364,800
2.1.63	Coupling PN 10, DN 75	PCS	10	28,800	288,000
2.1.66	Coupling PN 10, DN 63	PCS	27	16,800	453,600
2.1.69	Coupling PN 10, DN 50	PCS	26	11,520	299,520
2.1.72	Nipple				
2.1.75	Nipple 3"	PCS	10	24,000	240,000
2.1.78	Nipple 2"	PCS	15	9,600	144,000
2.1.81	Nipple 1 1/2"	PCS	15	6,720	100,800
2.1.8	Supply and Installation of Domestic Flow meters (Strainers and non return valve) incl all required accessories as per given drawing & specifications				
2.1.87	Supply and Installation of Fire Hydrants				
2.1.90	DN 100 fire Hydrants	PCS	1	400,000	400,000
2.1.93	Set Valves keys				
2.1.96	Supply of valves and hydrants universal keys	PCS	1	100,000	100,000
2.1.99	Bolts, nuts with washers 16mm	PCS	180	4,200	756,000
	Sub total bill No. 2: Supply of Fittings				9,253,280.00
3.0.0	PHYSICAL WORK FOR DISTRIBUTION AND RETICULATION OF PIPE NETWORK				
3.1.0	Pipe route alignment, trench excavation, pipe fusion, pipe laying and fixing and pipe back filling with accordance to specifications and site engineer instructions				
3.1.1	Pipe route alignment	m	18,606	180	3,349,680
3.2.0	Trench Excavation				



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3.2.1	Trench Excavation in normal soil below ground level for steel/uPVC/HDPE pipes to a depth not less than 1.2m for DN> 100mm and width of 60cm. Trench excavation shall be carried out in accordance to specifications.	m ³	13,166	5,000	65,830,000
3.2.2	E.O. Items for excavation in hard rock	m ³	86	4500	387,000
3.2.3	Ditto.but, excavation across unsurfaced roads (Grave road), including surface reinstatement	m ³	99	7200	712,800
3.2.4	E.O. Items for excavation across surfaced roads (pavement areas), including surface reinstatement	m ³	81	9000	729,000
3.3.0	Fussing of HDPE Pipes				
3.3.1	OD 160mm HDPE, PN 10 in 12m length	Join t	200	9000	1,800,000
3.3.2	OD 110mm HDPE, PN 10 in 12m length	Join t	438	7000	3,066,000
3.5.0	(DO NOT INCLUDE PRICE OF HDPE PIPES SINCE THEY HAVE BEEN PROCURED BY RUWASA) Only quote for trench excavation Laying and backfilling of pipes for distribution and reticulation network (uPVC,HDPE,Steel) with push in socket/spigot, rubber gaskets and lubrication including fixing of all valves,bends as per specifications				
3.5.1	OD 160mm HDPE,PN 10 in 12m length	m	2400	6000	14,400,000
3.5.2	OD 110mm HDPE, PN 10 in 12m length	m	5256	6000	31,536,000
3.5.3	OD 63mm HDPE, PN 10 in 150m length	m	4800	6000	28,800,000
3.5.4	OD 50mm HDPE, PN 10 in 150m length	m	3300	6000	19,800,000
3.5.5	uPVC Pipes DN 250mm, PN 10 with its rubber seal	m	300	7000	2,100,000
3.6.0	Supply of Offtake and Joinary pipes for Storage Tanks				
3.6.1	Supply of GS pipes medium (PN 16) DN 250	m	36	700,000	25,200,000
	Sub total bill No. 3:Physical work For distribution and reticulation netwaork				197,709,830.00
	Sub total bill No. 1-3: Distribution netwaork				225,568,100.00
4.0.0	REHABILITATION OF GRAVITY MAINS FOR MAPETU 1, MKONDACHI AND MDONGA PIPES.				
4.1.1	Mk ondachi (1500m)				
4.1.2	Supply of DN50 CI Threaded Single Air Valve	PCS	2	100,000	200,000
4.1.3	Supply of Clamp saddle 6"/2"	PCS	2	28,800	57,600
4.1.4	Supply of Gate valve (pex) 2"	PCS	2	67,200	134,400
4.1.5	Mapetu 1- (750m)				
4.1.6	Supply of DN50 CI Threaded Single Air Valve	PCS	2	100,000	200,000
4.1.7	Supply of Clamp saddle 6"/2"	PCS	2	28,800	57,600
4.1.8	Supply of Gate valve (pex) 2"	PCS	2	67,200	134,400
4.1.9	Mdonga (300m)				



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4.1.10	Coupling 3"	PCS	4		
4.1.11	Labour Work				
4.1.12	Pipe uprouting and excavation for Mkondachi, Mapetu 1, and Mdonga gravity mains	m	1500	5,000	7,500,000
4.1.13	Pipe laying for Mkondachi, Mapetu 1 and Mdonga gravity mains	m	750	2,000	1,500,000
4.1.14	Trench backfilling for Mkondachi, Mapetu 1 and Mdonga gravity mains	m	300	3,000	900,000
4.1.15	Installation of Air Valve for Mkondachi, Mapetu 1 and Mdonga gravity main	No	4	15,000	60,000
	Sub total bill No. 4 : Rehabilitation of Gravity mains				10,744,000.00
5.0.0	CIVIL WOK				
5.1.1.	Construction of water KIOSK at Ludewa Stand, Ludewa District Market, Ludewa District Hospital and Ludewa Primary School	No	4	2,400,000	9,600,000
5.1.1.	Re-Construction of Mdonga Intake	LS	1	10,000,000	10,000,000
5.1.1.	Construction of 6 chambers for control valve, Washout and Air valves as shown on the drawings.	No	8	720,000	5,760,000
5.1.1.	Rehabilitation of Kilimahewa Stone Storage Tank 240m ³ (Rectangular tank)	LS	1	5,000,000	5,000,000
5.1.1.	Major rehabilitation of Block work Storage Tank 200m ³ (Round) at Killimahewa which include demolishen of nine column inside the tank, Casting of reinforced concrete column of 40cm diameter, casting of reinforced concrete top cover, replastering internally/externally, painting in three coat and Pipe connections	LS	1	23,000,000	23,000,000
	Sub Total bill no.5				52,360,000
	Sub total bill No 1-5				289,667,160.00
	Add 5% Contingency		5%		14,483,358
	GRAND TOTAL				304,150,518.00



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