



CONTRACT No. AE-102/2021-2022/HQ-C/W/48

FOR

**EXTENSION OF IZIZIMBA B AND IBINDO WATER SUPPLY SCHEME IN
KWIMBA DC AND REHABILITATION OF KAHANGARA WATER SUPPLY
SCHEMES IN MAGU DISTRICT- MWANZA REGION**

BETWEEN

RURAL WATER SUPPLY AND SANITATION AGENCY(RUWASA)

AND

M/S. PET COOPERATION LTD

DECEMBER, 2021

FORM OF CONTRACT

This Contract is made the 05 day of January 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, 40473 **DODOMA**, Tanzania (hereinafter called "**The Employer**") of the one part;

And

PET COOPERATION LTD having its principal place of business at P. O. Box 627, Kaham, (hereinafter called "**the Contractor**") of the other part.

Both the Employer and the Contractor shall collectively and jointly be known as "**Parties**".

WHEREAS:

- (a) The Employer 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 Contactor is a Class four local Company registered under the Laws of Tanzania which is responsible for Civil Works;
- (c) The Employer invited Tenders for Extension of Izizimba B and Ibindo water supply scheme in Kwimba Dc and rehabilitation of Kahangara water supply schemes in Magu Dc - Mwanza Region Tender No. **AE – 102/2020-2021/HQ-C/W/48** under the terms and conditions set forth in this Contract; and
- (d) The Contractor having represented to The Employer 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. DA.130/258/01.C/75 dated 17th December, 2021 awarded a Tender to the Contractor at the contract sum of **Tanzanian Shillings Seven Hundred Seventy three Million Seven Hundred Thirty four Thousand Five twenty one and Fifty cents only (773,734,521.50) VAT Exclusive**. (Hereinafter referred to as "**the Contract Price**"). The work to be completed within One Hundred Eighty (180) days (hereinafter called "**Contract Period**").

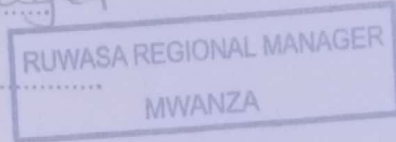
NOW THEREFORE the Parties hereby agree as follows:

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 Extension of Izizimba B and Ibindo water supply scheme in Kwimba Dc and rehabilitation of Kahangara water supply schemes in Magu Dc - Mwanza Region (**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 Seven Hundred Seventy three Million Seven Hundred Thirty four Thousand Five twenty one and Fifty cents only (773,734,521.50) VAT Exclusive**, at the times and in the manner prescribed in this Contract.

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 EMPLOYER:

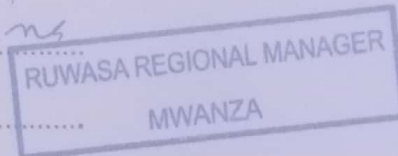
Signature: [Signature]
Name: Eng. Godfrey T. Sauga
Title: Regional Manager
Date: 05/01/2022



Seal:

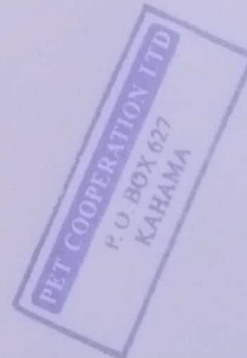
In the presence of:

Signature: [Signature]
Name: Eng. David F. Amhins
Title: Ag. DM - Magu
Date: 05/01/2022



FOR AND ON BEHALF OF THE CONTRACTOR:

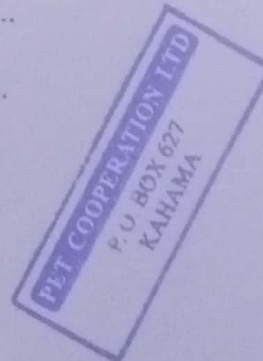
Signature: [Signature]
Name: Eng. Mwaipopo, Bahati
Title: Engineer
Date: 05 Jan, 2022



Seal:

In the presence of:

Signature: [Signature]
Name: ZUBERI MAMONDA
Title: FORMEN
Date: 05/01/2022



Seal:

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 style="text-align: center;">A. General</p> <p>The Employer is, RURAL WATER SUPPLY AND SANITATION AGENCY (RUWASA).</p> <p>The Adjudicator is National Construction Council of Tanzania.</p> <p>The Defects Liability Period is 365 days.</p> <p>The Project Manager is RUWASA Engineer.</p> <p>The Works consist of Construction of Pumped and Distribution Main;</p> <ul style="list-style-type: none"> • Supply and Install pipeline complete with fittings including laying trenches and backfill pipes, compaction, testing to engineers' satisfaction; • Excavate trenches for rising main and distribution network, 600mm average width and 1000mm average depth including site clearance • Stone blasting to trenches for rising main and distribution network, 600mm average width and 1000mm average depth including site clearance • Excavate for and construct Pipeline Manholes 1000mm x 1000mm x 1200mm deep with reinforced concrete floor, block work walls, reinforced cover slab and cast Iron manhole cover • Excavate for and construct Pipeline Manholes 1000mm x 1000mm x 1200mm deep with reinforced concrete floor, blockwork walls, reinforced cover slab and cast Iron manhole

		<p>cover</p> <ul style="list-style-type: none"> • Performing Quality control • Construction of on ground storage Tanks of 135m³, 9m raiser and 200m³ as per engineer's drawings and specifications including fencing; <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 Hundred Eighty (180).</p> <p>The Site is located at Izizimba and Ibindo Village - Kwimba District and Kahangara Village in Madu District, MWANZA Region.</p>
2.	2.2	Indicate whether sectional completion is specified not specified.
3.	2.3(10)	<p>List other documents that form part of the contract if any:</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 3197 MWANZA.</p> <p>Contractor's: PET Cooperation Limited P.O.Box 627 KAHAMA</p>
6.	12.1	Include the Schedule of Other Contractors, if any. N/A
7.	13.1	<p>Include the Schedule of Key Personnel.</p> <p>Site Engineer</p> <p>Technician</p> <p>Soil Engineer/Technician</p> <p>Land Surveyor</p>

		Foreman
8.	17.1	<p>The minimum insurance covers shall be;</p> <ul style="list-style-type: none"> a) The maximum deductible for insurance of the works and of plant and materials is Tshs.1,000,000.00 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 c) The maximum deductible for insurance of equipment is Tshs, 1,000,000.00 d) The minimum cover for loss or damage to equipment is Tshs, 2,000,000.00 e) The minimum cover for the personal injury or death insurance for the Sub-Contractors employees is Tshs. 2,000,000.00 <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> <ul style="list-style-type: none"> a. Minimizing the number of migrant workers employed on the project and household in the site camp b. Providing access to voluntary counseling and testing (VCT) c. Providing psychological support and health care including prevention and treatment of opportunistic infections for workers infected and affected, as well as their families d. Providing condoms (male and female) to workers
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

		[insert number of days] 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 [insert the responsible person for security of the site]
B. 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/-
C. Quality Control		
19.	44.1	The Defects Liability Period is 365 days.
D. Cost Control		
20	52.7	The minimum amount of interim payment certificate shall be 10% of contract price.
21	54.1	The currency of payment shall be Tanzanian Shillings.
22.	57	The contract "is not" subject to 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: Fifteen percent (15%) of the contract price. And it will be submitted to the Employer immediately after signing the contract in Certified Cheque, Bank Guarantee.
28	66.1	Contractor shall handover the site and the works to the Employer within 7 Days after Certificate of Completion.
		E. 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.

PRICE SCHEDULE (BOQ)

REVISED BOQ

BILL OF QUANTITIES FOR IBINDO AND IZIMBA "B" WATER SUPPLY PROJECTS- RUWASA KWIMBA PIPED SYSTEM AND CIVIL WORKS- SUMMARY					
Item	Description	Unit	Qty	Rate Tsh	Amount Tsh
1	Preliminaries and General				16,500,000.00
2	Pipe Works				53,675,000.00
3	Civil Works				254,291,221.50
	Sub-Total				324,466,221.50
	VAT 18%				58,403,919.87
4	Earth Work				111,058,000.00
	GRAND TOTAL				493,928,141.37
ITEM NO. 1: PRELIMINARY AND GENERAL					
Item	Description	Unit	Qty	Rate Tsh	Amount Tsh
1.1	GENERAL REQUIREMENTS				
1.1.1	Allow Costs of acquiring performance Bond	Sum	1	1,000,000.00	1,000,000.00
1.1.2	Allow cost for provision of Bank Guarantee	Sum	1	1,000,000.00	1,000,000.00
1.1.3	Mobilisation and demobilisation	Sum	1	5,000,000.00	5,000,000.00
1.1.4	Temporary office	Sum	1	1,000,000.00	1,000,000.00
1.1.5	Reporting	Sum	1	1,000,000.00	1,000,000.00
1.1.6	Provide sign board for the construction site including all of the required regulatory	Sum	1	500,000.00	500,000.00
1.2	TESTING OF WORKS – Quality Control				
1.2.1	Carry out Soil and all construction Material Laboratory Tests to verify conformity to Standards	Provisional Sum	1	3,000,000.00	3,000,000.00
1.2.2	Tensile Strength Tests on Reinforcement as per BS 4449	Provisional Sum	1	1,000,000.00	1,000,000.00
1.2.3	Compressive Strength Test on Concrete as per BS 5328	Provisional Sum	1	200,000.00	200,000.00
1.2.4	Hydrostatic Pressure Test on Pipes as per ISO 1452-2	Provisional Sum	1	200,000.00	200,000.00
1.2.5	Sieve Analysis Test on Aggregates and Sand as per BS 812-103.1	Provisional Sum	1	200,000.00	200,000.00
1.2.6	Flakiness Index and Elongation Index Tests on Aggregates as per BS 812-105 1 & BS 812-105 2	Provisional Sum	1	200,000.00	200,000.00
1.2.7	Soil Tests (Shear, Bulk density, Atterberg Limit, Natural moisture content, Linear shrinkage, Consolidation) as per BS 1377	Provisional Sum	1	500,000.00	500,000.00
1.2.8	Testing of all pipelines and storage tanks shall be subject to pressure and leakage tests after being laid and installed before commissioning, Pressure and Leakage tests shall be carried out simultaneously	Provisional Sum	1	500,000.00	500,000.00
1.3	RECORDS AND DOCUMENTS				
1.3.1	Photographical records of the site prior, during and after completion of works. Documentation is to be prepared as per Specifications	Sum	1	200,000.00	200,000.00
1.3.2	Provide As built drawings at the end of the project before Commissioning	Sum	1	1,000,000.00	1,000,000.00
	SUB TOTAL 1: CARRIED TO SUMMARY				16,500,000.00
ITEM 2: EARTHWORKS: IBINDO					
Item	Description	Unit	Qty	Rate Tsh	Amount Tsh
2.1	Trench excavation and backfilling				
2.1.1	Excavate trenches for rising main and distribution net work, 500mm average width and 1000mm average depth including site clearance	m	12,810	4,000.00	51,240,000.00
2.2	Hard/Loose Rocks				
2.2.1	Cut, break and excavate existing Hard/Loose Rock materials in pipeline route and backfilling, 500mm average width and 1000mm average depth including site clearance it as per Engineer's Satisfaction	m	1,000	8,000.00	8,000,000.00
2.3	Supply culvert, excavate road to a depth not exceeding 1.5m, lay culvert in trench and backfill, pass pipe line through culvert in accordance with section detail drawings for Road crossing				
2.3.1	400mm dia. 8m long concrete culvert	No	4	500,000.00	2,000,000.00
	SUB TOTAL 2: CARRIED TO SUMMARY				61,240,000.00
ITEM NO. 3: PIPE WORKS: IBINDO					
Item	Description	Unit	Qty	Rate Tsh	Amount Tsh
3.2	Supply GS Pipes				

ENG - ZUBEDA SADI
 BOQM - UKERAVE
 16/12/2021

3.2.1	GS pipe medium class -Heavy duty OD25mm	m	192	18,000.00	3,456,000.00
3.2.2	GS Medium class Heavy duty DN80	m	50	61,500.00	3,075,000.00
3.3	Supply and Install Compression Fittings and Specials for rising mains as per Specification				
3.3.1	GS Flanged threaded DN 90 PN16	PCS	2	80,000.00	160,000.00
3.3.2	GS Socket DN 90 PN16	PCS	15	50,000.00	750,000.00
3.3.3	GS Nipple DN90 PN16	PCS	4	30,000.00	120,000.00
3.3.4	Gate Valves DN 90 (PEX)	PCS	1	150,000.00	150,000.00
3.3.5	Non return valve DN 90 PN 16	PCS	1	200,000.00	200,000.00
3.3.6	Flanged Flow water meters DN 90 PN 16	PCS	1	350,000.00	350,000.00
3.3.7	GS long bend DN90	PCS	2	50,000.00	100,000.00
3.3.8	Pressure Gauge	PCS	1	100,000.00	100,000.00
3.3.9	Tee Reducing bush DN90X25	PCS	1	50,000.00	50,000.00
3.3.10	HDPE Male connector DN90	PCS	2	150,000.00	300,000.00
3.3.11	GS Union OD90mm	PCS	2	80,000.00	160,000.00
3.3.12	Bolt and nut with washer 24mm	No	36	3,000.00	108,000.00
3.3.13	Gasket sheet 1mX1m, 4mm	PCS	2	100,000.00	200,000.00
	Provisional of Air valve -Raising main				
3.3.14	HDPE Saddle Clamp OD90X32mm	PCS	1	50,000.00	50,000.00
3.3.15	GS Nipple OD32mm	PCS	2	3,000.00	6,000.00
3.3.16	GS Gate valve OD32mm PEX	PCS	1	40,000.00	40,000.00
3.3.17	GS Socket OD32mm	PCS	1	30,000.00	30,000.00
3.3.18	Air valve OD32mm	PCS	1	60,000.00	60,000.00
	Supply and Install Compression Fittings For Inlet, Outlet, overflow and washout from tanks				
	Inlet				
3.3.19	HDPE Sturb and GS flange OD90mm PN16	PCS	1	150,000.00	150,000.00
3.3.20	GS long bend flanged OD90mm PN16	PCS	1	200,000.00	200,000.00
3.3.21	GS flange and threaded OD90mm PN16	PCS	2	80,000.00	160,000.00
3.3.22	GS Pipe OD90mm heavy duty PN16 -6m length	PCS	2	350,000.00	700,000.00
3.3.23	GS Double flange pipe with puddle OD90mm PN16	PCS	1	300,000.00	300,000.00
3.3.24	GS Elbow OD90mm PN16	PCS	1	40,000.00	40,000.00
3.3.25	Bolt and Nuts and washer 34mm	PCS	16	3,000.00	48,000.00
3.3.26	Gasket Rubber sheet 1.0x1.0m	Sheet	2	100,000.00	200,000.00
	Outlet				
3.3.27	GS Double flange pipe with puddle OD160mm PN16	PCS	1	400,000.00	400,000.00
3.3.28	GS flange and threaded OD160mm PN16	PCS	2	100,000.00	200,000.00
3.3.29	GS Pipe OD160mm heavy duty PN16	PCS	2	500,000.00	1,000,000.00
3.3.30	GS Flanged long bend OD160mm PN16	PCS	1	200,000.00	200,000.00
3.3.31	GS Flanged Gate valve OD160mm PN16	PCS	1	400,000.00	400,000.00
3.3.32	GS Flanged Strainer OD160mm Y-Type PN16	PCS	1	900,000.00	900,000.00
3.3.33	GS Flanged Water Meter OD160mm PN16	PCS	1	900,000.00	900,000.00
3.3.34	HDPE Sturb and GS flange OD160mm PN16	PCS	2	200,000.00	400,000.00
3.3.35	Bolt and Nuts and washer 48mm	PCS	32	3,000.00	96,000.00
3.3.36	Gasket Rubber sheet 1.0x1.0m	Sheet	3	100,000.00	300,000.00
	Washout and Overflow				
3.3.37	GS Pipe OD90mm heavy duty	PCS	4	350,000.00	1,400,000.00
3.3.38	GS pipe flanged with puddle OD90mm	PCS	2	350,000.00	700,000.00
3.3.39	GS elbow bend OD90mm PN16	PCS	2	40,000.00	80,000.00
3.3.40	GS Equal Tee OD90mm PN16	PCS	3	600,000.00	1,800,000.00
3.3.41	GS Nipple OD90mm PN16	PCS	3	35,000.00	105,000.00
3.3.42	GS Socket OD90mm PN16	PCS	3	70,000.00	210,000.00
3.3.43	GS Gate valve PEX OD90mm PN16	PCS	1	20,000.00	20,000.00
3.4	Supply and Install Compression Fittings for Distribution Line				
	JUNCTION J-1				
3.4.1	HDPE Equal Tee OD 160x160mm PN16	PCS	1	500,000.00	500,000.00
3.4.2	HDPE Reducer OD 160X110 PN16	PCS	1	200,000.00	200,000.00
3.4.3	HDPE Reducer OD 140X110 PN17	PCS	1	180,000.00	180,000.00
3.4.4	HDPE Sturb and GS flanged OD 110	PCS	2	200,000.00	400,000.00
3.4.5	GS Gate valve flanged OD 110mm	PCS	1	450,000.00	450,000.00
3.4.6	HDPE Reducer OD 160X140 PN16	PCS	1	250,000.00	250,000.00
3.4.7	HDPE Sturb and GS flanged OD 140	PCS	2	300,000.00	600,000.00
3.4.8	GS Gate valve flanged OD 140mm	PCS	1	450,000.00	450,000.00
3.4.9	Bolts and Nuts 34mm	PCS	32	3,000.00	96,000.00
	JUNCTION 1 DP DISPENSARY, IBINDO PRIMARY AND DP				
3.4.10	HDPE Saddle clamp OD 140X50mm	PCS	3	70,000.00	210,000.00
3.4.11	GS Nipple 50mm	PCS	3	20,000.00	60,000.00
3.4.12	GS Gate Valve PEX OD 50mm	PCS	3	100,000.00	300,000.00
3.4.13	HDPE Male connector, OD 50mm	PCS	3	25,000.00	75,000.00

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3.4.14	HDPE Reducing Connector 50 x32mm PN16	PCS	3	30,000.00	90,000.00
3.4.15	HDPE Male connector, OD 32mm	PCS	3	23,000.00	69,000.00
3.4.16	GS R/Socket OD 32x25mm	PCS	3	15,000.00	45,000.00
3.4.17	GS Nipple OD 25mm	PCS	3	5,000.00	15,000.00
3.4.18	GS Gate Valve PEX OD 25mm	PCS	3	25,000.00	75,000.00
3.4.19	Flow Water Meter 25mm-B-Meters type	PCS	3	100,000.00	300,000.00
JUNCTION T1					
3.4.20	HDPE Reducing taper flanged OD 110X90mm	PCS	1	90,000.00	90,000.00
3.4.21	HDPE Sturb and GS flanged OD 110	PCS	2	250,000.00	500,000.00
3.4.22	GS Gate valve flanged OD 90mm	PCS	1	200,000.00	200,000.00
3.4.23	GS Flow meter OD 90mm flanged	PCS	1	600,000.00	600,000.00
3.4.24	HDPE Sturb with GS Flanged reducer OD90X75mm	PCS	1	200,000.00	200,000.00
JUNCTION T2, T3					
3.4.25	HDPE Tee reducer OD75X50mm	PCS	1	100,000.00	100,000.00
3.4.26	HDPE Male connector OD 50mm	PCS	9	18,000.00	162,000.00
3.4.27	GS Gate valve PEX OD 50mm	PCS	3	100,000.00	300,000.00
3.4.28	GS Socket OD 50mm	PCS	3	20,000.00	60,000.00
3.4.29	GS Plug OD 50mm	PCS	3	10,000.00	30,000.00
JUNCTION T4 DP DINNING HALL, DORMITORY					
3.4.30	HDPE Saddle clamp,OD 75X 50mm	PCS	1	90,000.00	90,000.00
3.4.31	GS Nipple 50mm	PCS	1	20,000.00	20,000.00
3.4.32	GS Gate Valve PEX,OD 50mm	PCS	2	100,000.00	200,000.00
3.4.33	HDPE Male connector, OD 50mm	PCS	2	180,000.00	360,000.00
3.4.34	HDPE Reducing connector OD 50X32mm	PCS	2	30,000.00	60,000.00
3.4.35	GS R/Socket 32x25mm	PCS	2	30,000.00	60,000.00
3.4.36	GS Nipple 25mm	PCS	2	5,000.00	10,000.00
3.4.37	GS Gate Valve PEX 25mm	PCS	2	250,000.00	500,000.00
3.4.38	Flow Water Meter 25mm B-Meters	PCS	2	100,000.00	200,000.00
JUNCTION J-3, J5, J6					
3.4.39	HDPE Equal Tee OD 90x90mm PN16	PCS	1	300,000.00	300,000.00
3.4.40	HDPE Reducer OD 110X90 PN16	PCS	1	100,000.00	100,000.00
3.4.41	HDPE Sturb and GS flanged OD90mm	PCS	2	100,000.00	200,000.00
3.4.42	GS Gate valve flanged OD 90mm	PCS	1	450,000.00	450,000.00
3.4.43	HDPE Saddle clamp,OD 90X 75mm	PCS	1	120,000.00	120,000.00
3.4.44	GS Nipple 75mm	PCS	1	80,000.00	80,000.00
3.4.45	Gate Valve PEX,OD 75mm	PCS	3	250,000.00	750,000.00
3.4.46	HDPE Male connector, OD 75mm	PCS	3	100,000.00	300,000.00
3.4.47	GS Socket OD 75mm	PCS	3	50,000.00	150,000.00
3.4.48	GS Plug OD 75mm	PCS	3	15,000.00	45,000.00
JUNCTION J-4,					
3.4.49	HDPE Equal Tee OD 90x90mm PN16	PCS	1	300,000.00	300,000.00
3.4.50	HDPE Reducer OD 90x63 PN16	PCS	1	100,000.00	100,000.00
3.4.51	HDPE Sturb and GS flanged OD90mm	PCS	2	90,000.00	180,000.00
3.4.52	GS Gate valve flanged OD 90mm	PCS	1	450,000.00	450,000.00
3.4.53	Gate Valve PEX,OD 63mm	PCS	1	240,000.00	240,000.00
3.4.54	HDPE Male connector, OD 63mm	PCS	3	30,000.00	90,000.00
3.4.55	GS Socket OD 63mm	PCS	1	60,000.00	60,000.00
3.4.56	GS Plug OD 63mm	PCS	1	14,000.00	14,000.00
JUNCTION J3					
3.4.57	HDPE Saddle clamp OD 90X 63mm	PCS	2	70,000.00	140,000.00
3.4.58	GS Nipple 63mm	PCS	2	40,000.00	80,000.00
3.4.59	Gate Valve PEX,OD 63mm	PCS	2	240,000.00	480,000.00
3.4.60	HDPE Male connector, OD 63mm	PCS	6	30,000.00	180,000.00
3.4.61	GS Socket OD 63mm	PCS	2	60,000.00	120,000.00
3.4.62	GS Plug OD 63mm	PCS	2	14,000.00	28,000.00
JUNCTION J4					
3.4.63	HDPE Reducer OD 90x63 PN16	PCS	1	100,000.00	100,000.00
3.4.64	HDPE Male connector, OD 63mm	PCS	1	30,000.00	30,000.00
3.4.65	GS Socket OD 63mm	PCS	1	60,000.00	60,000.00
3.4.66	GS Plug OD 63mm	PCS	1	14,000.00	14,000.00
HOUSE CONNECTIONS FITTINGS 50 houses					
3.4.67	HDPE male connector OD 32mm	PCS	50	8,000.00	400,000.00
3.4.68	IPS Reducing socket OD32x25mm	PCS	50	9,000.00	450,000.00
3.4.69	IPS Elbow OD25mm	PCS	300	2,000.00	600,000.00
3.4.70	IPS Nipple 25mm	PCS	150	2,000.00	300,000.00

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3.4.71	Gate Valve 25mm PEX OD 25mm	PCB	50	25,000.00	1,250,000.00
3.4.72	Flow meter OD25mm B Meters Type	PCB	50	89,000.00	4,450,000.00
3.4.73	Half Cork PEX OD25mm	PCB	50	39,000.00	1,950,000.00
SUB TOTAL 3: CARRIED TO SUMMARY : PIPE WORKS					
ITEM NO. 4: CIVIL WORKS: IBINDO					
Item	Description	Unit	Qty	Rate Tsh	Amount Tsh
4.1	Construction of Tank 135, 9m Raiser as per Engineer's drawings and specification including fencings	No	1		
4.1.1	Earth Work			500.00	112,500.00
4.1.1.1	Site clearance 25m x 25m and setting out	m ²	625.0	3,000.00	2,450,000.00
4.1.1.2	Excavation of foundations 1.5m depth	m ³	82.1	100,000.00	379,000.00
4.1.1.3	Hardcore laying 150mm thick		3.7		
4.1.2	Concrete Work			15,000.00	363,000.00
4.1.2.1	50mm cement/ sand (1:4 mix) lighting the hardcore	m ²	24.2	18,000.00	985,400.00
4.1.2.2	Blinding 50 mm thick cement/ sand (1:4 mix)	m ²	54.8	500,000.00	250,000.00
4.1.2.3	Applying bitumen/ other binder materials on top of foundation	m ³	0.5		
4.1.3	Reinforced Concrete C -25			360,000.00	7,920,000.00
4.1.3.1	Foundation	m ³	22	360,000.00	5,320,800.00
4.1.3.2	Bottom Floor slab	m ³	14.78	360,000.00	2,664,000.00
4.1.3.4	Roof slab	m ³	7.4	360,000.00	468,000.00
4.1.3.5	Beam for bottom slab	m ³	1.3	360,000.00	180,000.00
4.1.3.6	Beam for roof slab	m ³	0.5	360,000.00	
4.1.4	Formworking			45,000.00	2,406,000.00
4.1.4.1	Formwork for foundation	m ²	54.8	45,000.00	4,433,850.00
4.1.4.2	Formwork for suspended slab	m ²	98.5	45,000.00	783,500.00
4.1.4.3	Formwork for ring beam	m ²	17.4	45,000.00	72,600.00
4.1.4.4	Formwork for lintel	m ²	1.5	45,000.00	
4.1.5	Provide, Cut, Bend and Fix In Position Reinforced Steel Bar As per Drawing (Price should include tying wires)				
4.1.5.1	Reinforced Steel Bars 10 mm Diameter For Foundation	kg	817.0	3,500.00	2,859,500.00
4.1.5.2	Reinforced Steel Bars 12mm Diameter Foundation	kg	2592.5	3,500.00	9,073,750.00
4.1.5.5	Reinforced Steel Bars 16mm Diameter bottom slab	kg	1138.0	3,500.00	4,053,000.00
4.1.6	Construction of Raiser and Tank Wall (Solid concrete special blocks size (460x230x150)mm thick with grooves minimum compressive strength 7N/mm ² bedded and jointed in cement mortar (1:3). 230mm Thick Wall, reinforced curved irrespective of radius (Reinforcement measured separately)				
4.1.6.1	Concrete blockwork for raiser wall 460mm thick (Block mix 1:3:6 Mortar)	m ²	240.0	60,000.00	14,400,000.00
4.1.6.2	Concrete blockwork for tank wall 230mm thick (Block mix 1:3:6, Mortar mix)	m ²	91.5	120,000.00	10,980,000.00
4.1.7	Accessories and Finishing				
4.1.7.1	Apply 200mm thick Cement Screed on tank floor	m ²	49.27	40,000.00	1,970,800.00
4.1.7.2	Apply 50mm thick Cement Screed on roof slab	m ²	49.27	80,000.00	5,440,000.00
4.1.7.3	Apply internal plaster (200mm thick) in two coats with approved water proof mixture to a smooth finish (Cement Sand 1:3)	m ²	80.5	10,000.00	3,322,200.00
4.1.7.4	Apply External Plaster (Tank and Raiser) (15mm thick) cement and sand (1:4) render with approved plasticizer in two coats, steel trowelled to a smooth finish	m ²	332.22	10,000.00	2,005,500.00
4.1.7.5	Apply Internal Plaster (Tank Raiser) (15mm thick) cement and sand (1:4) render with approved plasticizer in two coats, steel trowelled to a smooth finish	m ²	200.56	10,000.00	2,005,500.00
4.1.7.6	Rendered walls	m ²		25,000.00	8,305,500.00
4.1.7.7	Painting outside tank and raiser with white weather guard with sky blue on roof and wall	m ²	332.22		
4.1.7.8	Construction of chambers as per drawing	No	2	500,000.00	1,000,000.00
4.1.7.9	Supply and install grided door complete with its frame handle and lock; size 900 x 2100mm	No	1	1,000,000.00	1,000,000.00
4.1.7.10	Supply and install manhole cover	No	2	120,000.00	240,000.00
4.1.7.11	Supply, install and fix internal and external ladder as per drawing and Specifications	No	2	1,500,000.00	3,000,000.00
4.1.7.12	Do plumbing Works as per drawing and Specifications	LS	1	5,000,000.00	5,000,000.00
4.1.7.13	Supply and Install Water level indicator	No	1	500,000.00	500,000.00
4.1.7.14	Supply and install floating ball valve on inlet pipe	No		500,000.00	

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4.1.7.15	Courtyard works including filling, levelling and planting of carpets	m ²	0.25	5,000.00	3,125,000.00
4.1.7.16	Fencing with chainlink 5m around the tank, 2m high properly anchored to the ground by concrete strip and poles including gate as per the drawing	m	71.68	700,000.00	14,336,000.00
4.1.7.17	Supply of material, installation and Construction of chlorination unit, equipped with all necessary fittings such as Gravity Chlorine Doser capable of discharging a solution at a rate of 3.0litres/hour, Plastic Dosing Tank of capacity 150 liters as per detailed storage tank drawings and engineers satisfaction	LS	1	3,000,000.00	3,000,000.00
SUB TOTAL 4: CARRIED TO SUMMARY					123,415,900.00
4.2	CONSTRUCTION OF PUMP HOUSE	no	1		
4.2.1	SUBSTRUCTURE (ALL PROVISIONAL)				
4.2.1.1	Site preparation				50,000.00
4.2.1.2	Site Clearance of site as per Engineer's Instructions	m ²	100	500.00	40,116.00
4.2.1.3	Excavate foundation trench commencing at stripped level and not exceeding 150m deep	m ³	13.372	3,000.00	44,574.00
4.2.1.4	Earth backfilling well ram and consolidate around foundations	m ³	8.9148	5,000.00	8,920.00
4.2.1.5	Remove surplus excavated materials from site	m ³	4.46	2,000.00	767,000.00
4.2.1.6	Approved gravel fill well rammed and consolidated to make up levels under floors	m ³	7.67	100,000.00	276,228.00
4.2.1.7	150mm bed levelled and blinded to receive polythene membrane (measured separately)	m ²	15.3	18,000.00	115,093.50
4.2.1.8	Aldrin 0.5% solution applied at a rate of litres per square metre to hardcore beds	m ²	7.7	15,000.00	
4.2.2	CONCRETE WORK				
	Plan in - situ concrete grade "15" nominal mix (1:3:6)				103,500.00
4.2.2.1	Blinding	m ³	0.414	250,000.00	476,100.00
4.2.2.2	Foundation concrete	m ³	1.9	250,000.00	225,000.00
4.2.2.3	100mm oversite concrete bed	m ³	1	250,000.00	
4.2.2.4	Sawn formwork to Vertical edge of bed over 75 but not exceeding 150mm high	m	12	30,000.00	360,000.00
	Blockwork				
	Solid concrete block to B:S 2028 type "A" in cement mortar 9:1:3)				264,000.00
4.2.2.5	230mm walls	m ²	13.2	20,000.00	240,000.00
4.2.2.6	Hessian based damp proof course to BS 743 type 5A 230mm wide laid horizontally to blockwork	m	12	20,000.00	264,000.00
4.2.2.7	12mm cement and sand (1:3) External rendering to walls	m ²	13.2	20,000.00	264,000.00
4.2.2.8	Prepare and apply two coats of bituminous paint on rendered surface externally	m ²	13.2	20,000.00	
4.2.3	WALLS				
	Sawn formwork to:				72,000.00
4.2.3.1	Sides and soffits of horizontal lintel	m ²	2.4	30,000.00	
	Concrete				90,000.00
4.2.3.2	Vibrated reinforced in - situ concrete grade "20" nominal mix (1:2:4)	m ³	0.36	250,000.00	
	Reinforcements				155,400.00
4.2.3.4	12mm diameter high tensile steel bars	kg	44.4	3,500.00	69,650.00
4.2.3.5	8mm diameter high tensile steel bars	kg	19.9	3,500.00	
	Blockwork				
4.2.3.6	Solid concrete blocks to B>S 2028 TYPES "A" in cement lime mortar (1:2:9)	m ²	42.51	30,000.00	1,275,300.00
4.2.3.7	150mm walls	m ²	1.5	30,000.00	45,000.00
4.2.3.8	150mm wall for Eaves filling 250mm high including necessary cutting				
4.2.4	ROOFING				
	Roofing structure				
	Wood work				
	Sawn softwood pressure impregnated with preservative				126,000.00
4.2.4.1	2x3" Purlins	m	25.2	5,000.00	424,000.00
4.2.4.2	2x4" Rafters, Kingpost, struts	m	53	8,000.00	160,000.00
4.2.4.3	1x8" Fascial/ barge board	m	16	10,000.00	
	Roof coverings				
	26 Gauge Corrugated galvanized iron roofing sheets as approved by engineer, lapped 150mm at joints,				907,200.00
4.2.4.4	1T5 -green color Roof covering sloping not exceeding 45 degrees from horizontal	m ²	20.16	45,000.00	
4.2.5	DOORS				
	Prime quality hardwood				1,000,000.00
4.2.5.1	40mm panelled door size 600x2100mm high double leaf shutter	Nr	1	1,000,000.00	400,000.00
4.2.5.2	1200x2500mm high Hardwood Frames and finishings	Nr	1	400,000.00	
	Ironmongery				

	Supply and fix the following iron mongery as UNION BRAND or other equal and approved by engineer to hard wood with matching screws					18,000.00
4.2.5.3	100mm Brass butt hinges	Pc	5	2,000.00		100,000.00
4.2.5.4	Three lever mortise lockset	Nr	1	100,000.00		
4.2.6	WINDOWS					
	Aluminium work and metal work					700,000.00
4.2.6.1	Galval window frame, Aluminium window with all necessary accessories including wire gauze frame 1440mmx1440mm	Nr	1	700,000.00		
4.2.7	FINISHINGS AND DECORATIONS					
	In situ Finishings					
	Cement and sand (1:3) render; steel troweled to a smooth finish					162,450.00
4.2.7.1	300mm x 300mm white ceramic Floor Tiles (including cement and sand (1:1) backing)	m ²	8 1225	20,000.00		880,000.00
4.2.7.2	Internal plastering, lime plaster in two coats; steel troweled to a smooth finish 15mm to walls	m ²	44	20,000.00		880,000.00
4.2.7.3	Prepare and apply one thinned coat and two full coats of plastic emulsion & washable paint on Plastered walls	m ²	44	20,000.00		880,000.00
4.2.7.4	Prepare and apply one thinned coat and two full coats of weather guard paint on rendered walls	m ²	44	20,000.00		
4.2.8	ELECTRICAL INSTALLATION (Provisional Sums)					1,000,000.00
4.2.8.1	Supply and install all necessary wiring for final sub-circuits, 3 PHASE Electric stabilizer and all accessories connections and fittings as per manufacturer's instructions and approved by Engineer	Provisional Sum	1	1,000,000.00		2,000,000.00
4.2.8.2	Supply and install all necessary fittings and fixtures (Distribution board, residual current device, main switch, lighting fittings, sockets, switches and the like), as approved by engineer	Provisional Sum	1	2,000,000.00		100,000.00
4.2.8.3	Provide adequate earthing for the entire installation	Provisional Sum	1	100,000.00		500,000.00
4.2.8.4	TANESCO connection charges	Provisional Sum	1	500,000.00		
	SUB TOTAL 5: CARRIED TO SUMMARY					15,443,531.80
4.2.9	CONSTRUCTION OF CONCRETE ANCHOR BLOCKS					
4.2.9.1	Excavate and construct reinforced concrete Anchor Blocks for pipelines support at stream or river under crossing as per directed by Engineer	No	15	20,000.00		300,000.00
4.3	OTHER PIPEWORK ASCILLARIES					
	Construction of Pipeline thrust blocks and makers, Valve markers					
4.3.1	Marker Post for Pipelines in accordance with standard drawings	No.	130	20,000.00		2,600,000.00
4.3.2	Construction of Manholes					
	Excavate for and construct Pipeline Manholes 1000mm x 1000mm x 1200mm deep with reinforced concrete floor, blockwork walls and cast iron manhole cover	No	10	50,000.00		500,000.00
4.4	CONSTRUCTION OF DOMESTIC POINTS					
4.4.1	Excavate for and construct Two-taps Domestic point with concrete platform, drainage channel connecting to soakway pit 700mm internal dia 1000mm deep, pipings and taps as per Typical Piped System Domestic Point drawings	No	5	1,000,000.00		5,000,000.00
	SUB TOTAL 6: CARRIED TO SUMMARY					8,400,000.00
	TOTAL FOR IBINDO WATER SUPPLY PROJECT					250,644,431.50
ITEM 2: EARTHWORKS: IZIZIMBA "B"						
Item	Description	Unit	Qty	Rate Tsh	Amount Tsh.	
2.1	Excavation and Backfilling	m	8,454	4000	33,816,000.00	
2.1.1	Excavate trenches for rising main and distribution net work, 500mm average width and 1000mm average depth including site clearance					
2.2	Hard/Loose Rocks	m	2,000	8000	16,000,000.00	
2.2.1	Cut, break and excavate existing Hard/Loose Rock materials in pipeline route and backfilling it as per Engineer's Satisfaction					
	SUB TOTAL 1				49,816,000.00	
ITEM NO. 3: PIPE WORKS: IZIZIMBA "B"						
Item	Description	Unit	Qty	Rate Tsh	Amount Tsh	
3.2	Supply and Install Compression Fittings and Specials for rising mains and Distribution mains as per Specification required to complete the pipeline installation (All PN Fittings Should be of Greater PN than of Pipes)					
3.2.1	INLETS					

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3.2.1.1	HDPE Equal Tee OD 110mm PN15	PCS	1	4,000.00	4,000.00
3.2.1.2	HDPE Reducer OD 110x50mm PN15	PCS	1	150.00	150.00
3.2.1.3	HDPE Sturb and GS Flanged OD 50mm PN15	PCS	2	90.00	180.00
3.2.1.4	GS Flanged Gate Valve DN80 PN15	PCS	1	270.00	270.00
3.2.1.5	GS Flanged Water meter DN80 PN15	PCS	1	40.00	40.00
3.2.1.6	Gasket sheet 1mx1m	PCS	1	100.00	100.00
3.2.1.7	Bolts and Nuts 24mm	PCS	32	3.00	96.00
3.2.1.8	GS Flanged Threaded DN80	PCS	1	70.00	70.00
3.2.1.9	GS Nipple DN80	PCS	1	60.00	60.00
3.2.1.10	GS Elbow threaded DN80	PCS	2	50.00	100.00
3.2.1.11	Steel Tape	PCS	20	1.00	20.00
3.2.2	OUTLETS				
3.2.2.1	Flanged threaded DN100	PCS	1	90.00	90.00
3.2.2.2	GS Flanged Strainer Y-type DN100	PCS	1	650.00	650.00
3.2.2.3	GS Flanged Gate Valve DN100 PN15	PCS	1	800.00	800.00
3.2.2.4	GS Flanged Water Meter DN100 PN15	PCS	1	900.00	900.00
3.2.2.5	HDPE Sturb and GS Flanged DN100mm PN15	PCS	1	280.00	280.00
3.2.2.6	Bolts and Nuts 24mm	PCS	48	3.00	144.00
3.2.2.7	Gasket sheet 1mx1m	PCS	1	100.00	100.00
3.2.2.8	Steel Tape	PCS	20	1.00	20.00
3.2.3	WASHOUT AND OVERFLOWS				
3.2.3.1	GS Elbow threaded DN80	PCS	2	70.00	140.00
3.2.3.2	GS Gate valve Flanged DN100	PCS	1	600.00	600.00
3.2.3.3	GS Flanged Threaded DN100	PCS	2	90.00	180.00
3.2.3.4	Steel Tape	PCS	20	1.00	20.00
3.2.4	DISTRIBUTION LINE FITTINGS				
3.2.4.1	HDPE Reducer OD110x90mm	PCS	1	100.00	100.00
3.2.4.2	HDPE Reducer OD90x75mm	PCS	1	90.00	90.00
3.2.4.3	HDPE Reducer OD75x63mm	PCS	1	85.00	85.00
J1 TO DP1, J2 TO DP2 ITABANYA					
3.2.4.4	HDPE Saddle clamp OD110x32mm	PCS	2	70.00	140.00
3.2.4.5	GS Nipple OD32mm	PCS	2	5.00	10.00
3.2.4.6	GS Gate valve OD 32mm	PCS	2	30.00	60.00
3.2.4.7	HDPE Male connector OD32mm	PCS	4	18.00	72.00
3.2.4.8	GS Reducing socket OD32x25mm	PCS	2	5.00	10.00
3.2.4.9	GS Gate valve OD25mm PEX	PCS	2	25.00	50.00
3.2.4.10	GS Nipple OD25mm	PCS	2	5.00	10.00
3.2.4.11	GS Water Meter B-Meters	PCS	2	80.00	160.00
3.2.4.12	GS Barb cork OD25mm PEX	PCS	2	25.00	50.00
J3 TO DP3 KANISANI, J4 TO DP4 IZIZIMBA B P5					
3.2.4.13	HDPE Saddle clamp OD90x32mm	PCS	2	70.00	140.00
3.2.4.14	GS Nipple OD32mm	PCS	2	5.00	10.00
3.2.4.15	GS Gate valve OD 32mm	PCS	2	32.00	64.00
3.2.4.16	HDPE Male connector OD32mm	PCS	4	18.00	72.00
3.2.4.17	GS Reducing socket OD32x25mm	PCS	2	5.00	10.00
3.2.4.18	GS Gate valve OD25mm PEX	PCS	2	25.00	50.00
3.2.4.19	GS Nipple OD25mm	PCS	2	5.00	10.00
3.2.4.20	GS Water Meter B-Meters	PCS	2	80.00	160.00
3.2.4.21	GS Barb cork OD25mm PEX	PCS	2	25.00	50.00
J5 TO DP5 MABOGO A, J6 TO DP6 MABOGO B, DP7					
3.2.4.22	HDPE Saddle clamp OD75x32mm	PCS	2	70.00	140.00
3.2.4.23	GS Nipple OD32mm	PCS	3	5.00	15.00
3.2.4.24	GS Gate valve OD 32mm	PCS	3	30.00	90.00
3.2.4.25	HDPE Male connector OD32mm	PCS	6	18.00	144.00
3.2.4.26	GS Reducing socket OD32x25mm	PCS	3	10.00	30.00
3.2.4.27	GS Gate valve OD25mm PEX	PCS	3	25.00	75.00
3.2.4.28	GS Nipple OD25mm	PCS	3	5.00	15.00
3.2.4.29	GS Water Meter B-Meters	PCS	3	80.00	240.00
3.2.4.30	GS Barb cork OD25mm PEX	PCS	3	25.00	75.00
3.2.4.31	HDPE Male connector OD63mm	PCS	1	30.00	30.00
3.2.4.32	GS Reducing socket OD63x32mm	PCS	1	40.00	40.00
3.2.4.33	Seal 100g Provisional of Air Valve at 4930m from tank	PCS	40	1.00	40.00
3.2.4.34	HDPE Saddle clamp OD 110x63mm	PCS	1	70.00	70.00
3.2.4.35	GS Nipple OD63mm	PCS	2	8.00	16.00
3.2.4.36	GS Gate valve OD63mm	PCS	1	100.00	100.00
3.2.4.37	GS Air valve OD63mm	PCS	1	200.00	200.00
SUB TOTAL 3					11,533.00
ITEM NO. 4: CIVIL WORKS: IZIZIMBA "B"					
4.1	CONSTRUCTION OF CIRCULAR CONCRETE BLOCK WATER STORAGE TANK OF 135m3 ONGROUND				
4.1.1	Earth work		625.0	500	312,500.00
4.1.1.1	Clear site of small trees, bushes, scrub, undergrowth, and the like including grubbing up their roots and dispose as directed by Supervising Engineer	m2			
4.1.1.2	Excavate oversite average 150 mm deep to remove vegetable soil, cart away and deposit in spoil heaps	m3	337.5	500	168,750.00

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4.1.1.3	Excavate foundation pit for tank commencing at stripped level and not exceeding 1.50 metres deep	m3	119.2	2000	238,400.00
4.1.1.4	Extra over all kinds of excavations for breaking up rock, and the like (PROVISIONAL)	m3	119.2	5000	598,000.00
4.1.1.6	Earth backfilling well rammed and consolidated around foundations	m3	63.6	2000	127,180.00
4.1.1.8	250 mm blinded hardcore bed	m2	12.3	40000	493,200.00
4.1.3	Concrete Work				
4.1.3.1	50mm cement/ sand (1:4 mix) Blinding	m3	2.5	250000	625,000.00
4.1.3.2	Foundation slab concrete Mix ratio 1:2:4	m3	4.0	300000	1,200,000.00
	Reinforced Insitu concrete class 25				
4.1.3.3	Base /Foundation strip	m3	18.0	300000	5,400,000.00
4.1.3.4	Beam	m3	3.0	300000	1,000,000.00
4.1.3.5	Column	m3	0.3	300000	100,000.00
4.1.3.6	Floor slab/bottom slab	m3	17.0	300000	5,100,000.00
4.1.3.7	Roof slab	m3	17.0	300000	5,100,000.00
4.1.4	Provide, Cut, Bend and Fix in Position Reinforced Steel Bar As per Drawing (Price should include tying wires) for foundation slab, floor slab, roof slab, beams and tank walls				
4.1.4.1	12 mm bars	kg	9,190.0	3,500.00	21,655,000.00
4.1.4.2	16mm	kg	513.0	3,500.00	2,145,500.00
4.1.4.3	8mm	kg	200.0	3,500.00	700,000.00
4.1.5	Provide and Fix Formwork				
4.1.5.1	Foundation Slab	m2	14.0	45000	630,000.00
4.1.5.2	Floor slab	m2	14.0	45000	630,000.00
4.1.5.3	Walls	m2	26.0	45000	1,170,000.00
4.1.5.4	Roof slab	m2	56.0	45000	2,520,000.00
4.1.6	CONCRETE AND BLOCKS WORK				
4.1.6.1	Provide and apply Mortar 1:4 mix ratio for plain concrete blocks 460mmx230x150mm made by concrete 1:3:6 mix ratio for cement, sand, and aggregates chippings of 6mm and 12mm in size for foundation walling	m2	47	120000	5,640,000.00
4.1.6.2	Provide and apply Reinforced Mortar 1:3 mix ratio for grooved concrete blocks 460mmx230x150mm made by concrete 1:3:6 mix ratio for cement, sand, and aggregates chippings of 6mm and 12mm in size for tank walling	m2	132	80000	10,560,000.00
4.1.6.3	Accessories and Finishing				
4.1.6.4	Apply internal surface of tank wall by water resistance compound with sand water mortar mixing ratio 1:3 two coats to be approved by the Engineer	m2	77.00	80000	6,160,000.00
4.1.6.5	Apply internal surface of tank Floor by water resistance compound with sand water mortar mixing ratio 1:3 two coats to be approved by the Engineer	m2	49.00	60000	2,940,000.00
4.1.6.6	Apply External surface of tank by sand water mortar with mixing ratio 1:4 to be approved by the Engineer	m2	98.00	40000	3,920,000.00
4.1.6.7	Prepare prime paints and apply one undercoat to screeded roof tank and plastered walls	m2	98.0	25000	2,450,000.00
4.1.6.8	Prepare weather guard paints and apply two finishing coats and sky blue paint to screeded roof tank and plastered walls	m2	98.0	10000	980,000.00
4.1.6.9	600x600mm heavy duty Galvanised mild steel manhole flat cover with locks and frame fixed as per Engineer's specification.	No	1.0	120000	120,000.00
4.1.6.10	GS pipe ladder fixed with galvanised rawl plugs in accordance to the engineering drawing and specifications, (inside and outside ladder)	No	1.0	1500000	1,500,000.00
4.1.6.11	Supply and Install Water level indicator	No	1.0	500000	500,000.00
4.1.6.12	Supply and install floating ball valve on inlet pipe 200mm Dia	No	1.0	500000	500,000.00
	SUB TOTAL 5				88,388,790.00
4.1.7	Construction of Domestic Points				
4.1.7.1	Excavate for and construct Two-laps Domestic point with concrete platform, drainage channel connecting to soakway pit 700mm internal dia, 1000mm deep, pipings and laps as per Typical Piped System Domestic Point drawings	No	7	1,000,000.00	7,000,000.00
4.1.8	OTHER PIPEWORK ASCILLARIES				
4.1.8.1	Supply and install markers as per maker's detailed drawing	Nr	102	20,000.00	2,040,000.00
4.1.8.2	Excavate for and construct Pipeline Manholes 1000mm x 1000mm x 1200mm deep with reinforced concrete floor, blockwork walls, reinforced cover slab and cast iron manhole cover	Nr	18	500,000.00	9,000,000.00
4.1.8.3	Excavate and Construct reinforced concrete anchor blocks as per directed by Engineers (Provisional)	No	20	20,000.00	400,000.00
4.1.8.4	Supply and fix 400mm diameter, 8m long concrete culvert	No	2	100,000.00	200,000.00

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					18,640,000.00
	SUB TOTAL 6				189,377,195.00
	TOTAL FOR IZIZIMBA "B"				419,022,221.50
	GRAND TOTAL: IBINDO AND IZIZIMBA "B"				

REVISED B/L

BILL OF QUANTITIES - BILL NO. 1: REHABILITATION OF KAHANGARA SCHEME PIPED SYSTEM AND CIVIL WORKS: SUMMARY					
Item	Description				Amount Tshs
1	TESTING OF WORKS				2,000,000
2	RECORDS AND DOCUMENTS				1,500,000
3	PIPE WORKS				118,682,000
4	CIVIL WORKS				128,030,300
5	WORKING TOOLS				1,000,000
	TOTAL				251,212,300
	VAT 18%				45,218,214.00
6	EARTHWORKS				87,000,000
	GRAND TOTAL				383,430,514
ITEM NO. 1: PRELIMINARY AND GENERAL					
Item	Description	Unit	Qty	Rate Tsh	Amount Tsh
1.2.3	TESTING OF WORKS				
1.2.4	Testing of materials; concrete test cubes; samples and methods of testing as per Specifications	Sum	1	1,000,000	1,000,000
1.2.5	Testing of all pipelines shall be subject to pressure and leakage tests after being laid and installed before commissioning.	Sum	1	1,000,000	1,000,000
	SUB TOTAL				2,000,000
1.2.4	RECORDS AND DOCUMENTS				
1.2.4.1	Photographical records of the site prior, during and after completion of works. Documentation is to be prepared as per Specifications	Sum	1	500,000	500,000
1.2.4.2	Provide 'As built drawings at the end of the project before Commissioning.	Sum	1	1,000,000	1,000,000
	SUB TOTAL				1,500,000
	EARTHWORKS				
2.1	Excavation and Backfilling				
2.2	Excavate, Backfill trenches, fuse and lay pipes for rising main and distribution net work, 500mm average width and 1000mm average depth including site clearance	m	8,000	4,000	32,000,000
2.2	Hard/Loose Rocks				
2.2.1	Cut, break and excavate existing Hard/Loose Rock materials in pipeline route and backfilling it as per Engineer's	m	5000	8,000	40,000,000
2.2.4	ROAD CROSSING				
2.2.5	Horizontal drilling crossing the terma road	Item	1	15,000,000	15,000,000
	SUB TOTAL				87,000,000

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2.3	Supply and install pipe line complete with fittings including laying trenches and backfill pipes, compaction, testing to engineers satisfaction and The pipes shall be installed in accordance with the manufacturer's installation instructions				
2.3.1	Rising mains				71,250,000
2.3.1	Steel pipe OD 200mm PN 25	m	250	285,000	520,000
2.3.1	Sturb flange DN 200mm PN 25	pcs	1	400,000	2,400,000
2.3.1	Flange steel 200mm PN 25	pcs	6	1,800,000	3,600,000
2.3.1	Sluice valve DN 200mm PN 25	pcs	2	1,500,000	3,000,000
2.3.1	Bend flange 90 DN 200mm	pcs	2	250,000	500,000
2.3.1	Bend flange 45 DN 200mm	pcs	2	3000	216,000
2.3.1	Bolts and Nuts 24mm	pcs	72	100,000	400,000
2.3.1	Gusgate sheet	rol	4	400,000	400,000
2.3.1	Tee Flange 200mm x 100 mPN 25	pcs	1	320,000	320,000
2.3.1	Flow meter 200mm PN 25	pcs	1	600000	600,000
2.3.1	Flanged air valves 63mm PN 25	pcs	1		
2.3.1	Wash out and over flow				800,000
2.3.1	Flange steel 200mm PN 25	pcs	2	400,000	24,000
2.3.1	Bolts and Nuts 24mm	pcs	8	3000	84,030,000
	SUB TOTAL				
2.4	Distribution Mains (Kahangara)				
2.5	Supply and Install Compression Fittings				
2.5.1	Bend 90 degree flange DN 200 PN 20	pcs	1	500,000	500,000
3.5	Sluice valves 200mm PN 25	pcs	1	1,800,000	1,800,000
2.5.2	Flow meter 200mm PN 25	pcs	1	3,200,000	3,200,000
4.5	Tee flange 200mm x90mm PN25	pcs	1	380,000	380,000
2.5.3	Sluice Valve DN 90 PN 25	pcs	1	500,000	500,000
2.5.4	Bolts and nuts 24mm	pcs	80	3,000	240,000
6.5	Steel flange 200mm PN 25	pcs	3	520,000	1,560,000
2.5.5	Tee flange 200x100mm PN 25	pcs	1	480,000	480,000
7.5	Tapper flange DN 200 X 160 PN 25	pcs	1	480,000	480,000
2.5.6	Tee flange 160X90mm	pcs	2	500,000	1,000,000
8.5	Sluice valve 90mm PN 25	pcs	3	600,000	1,800,000
2.5.7	Sturb flange DN 110 PN 25	pcs	4	400,000	1,600,000
9.5	Sadlle clamp DN 110 X 32	pcs	1	200,000	200,000
2.5.8	Sturb flange DN 90mm PN 25	pcs	4	180,000	720,000
10.5	Bolts and Nuts 12mm	pcs	80	3,000	240,000
2.5.9	Male connector OD 63mm PN 25 (Fish)	pcs	1	160,000	160,000
11.5	Reducing connector 75 x63mm PN 25	pcs	1	160,000	160,000
2.5.10	Flange Steel DN 150 PN 20	pcs	15	300,000	4,500,000
13.5	Tee GS DN 90x90mm PN20	pcs	2	180,000	360,000
2.5.12	Reducing socket 32 x 25mm PN 20 (Fish)	pcs	40	80,000	3,200,000
14.5	Tee connector DN 75 x 50 mm PN 25	pcs	1	90,000	90,000
2.5.13	Nipple GS 63mm	pcs	1	80,000	80,000
15.5	Gate valve Pex 63mm	pcs	1	160,000	160,000
2.5.14	Male connector 32mm	pcs	2	12,000	24,000
2.5.15	Reducing connector 63 x32mm	pcs	2	50,000	100,000
2.5.16	Plain socket 25mm PN 25	pcs	20	10,000	200,000
2.5.17	Gate valve Pex 25mm	pcs	10	25,000	250,000
20.5	Reducing connetor 90x63mm N 2 (Fish)	pcs	1	120,000	120,000
2.5.19	Tee connetor 110mm 63mm PN 25	pcs	1	180,000	180,000

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22.5	Sturb flange DN 200mm PN 25	pcs	3	400,000	1,200,000
2.5.21	Taper flange 160x90mm	pcs	1	320,000	320,000
23.5	Sturb flange DN 160mm PN 25	pcs	4	320,000	1,280,000
2.5.23	Tee flange DN 160X 160 mm PN 25	pcs	1	320,000	320,000
2.5.24	Tee connector DN 90mm x63mm PN 25	pcs	1	240,000	240,000
26.5	Tapper flange DN 160X 90 mm PN 25	pcs	2	240,000	480,000
2.5.27	Tee equal x32mm PN 20	pcs	10	30,000	300,000
2.5.28	Saddle clamp 110x32mm PN 20	pcs	1	180,000	180,000
31.5	Male connector 50mm	pcs	1	18,000	18,000
32.5	Sturb flange 90mm PN 25	pcs	1	180,000	180,000
34.5	Reducing connector 90 x 50mm	pcs	1	120,000	120,000
2.5.33	Reducing connector 90 cx 50mm	pcs	1	120,000	120,000
35.5	Reducing connector 90 x 75mm PN 25	pcs	2	140,000	280,000
2.5.39	Water meter OD 25mmPN 10	pcs	10	80,000	800,000
42.5	Reducing connector DN 50 X 32 pn 25	pcs	1	60,000	60,000
2.5.41	Gate valve GS Pex 25mm PN 10	pcs	10	30,000	300,000
43.5	Bib corks GS Pex 25mm PN 20	pcs	20	40,000	800,000
2.5.42	GS pipe medium 32mm PN 20	pcs	9	250,000	2,250,000
44.5	GS pipe medium 25mm PN 20	pcs	4	180,000	720,000
2.5.43	Reducing connector 63 cx 32mm	pcs	5	40,000	200,000
2.5.45	Protective safety gears	Sum	1	200,000	200,000
	SUB TOTAL				34,652,000
	Total for Pipe works				118,682,000

ITEM NO. 4: CIVIL WORKS						
2.6	CONSTRUCTION OF CIRCULAR WATER STORAGE TANK OF 200m³ ON GROUND					38,500
2.6.1	Site clearance 25m x 25m and Setting out	m ²	77	500		74,000
3.6	Excavation of foundations	m ³	37	2,000		1,500,000
2.6.2	Hardcore laying 250mm thick	m ³	15	100,000		1,116,000
4.6	50mm cement/ sand (1:4 mix) tighting the hardcore	m ²	62	18,000		5,700,000
2.6.3	Blinding concrete mix 1:3:6	m ³	19	300,000		6,480,000
5.6	Bottom Floor slab Concrete grade C-25	m ³	18	360,000		3,900,000
2.5.7	Concrete block wall for tank wall 230mm thick (Block mix 1:3:6 mortal mix 1:4)	m ²	65	60,000		4,500,000
2.5.8	Concrete block wall for tank wall 230mm thick (Block mix 1:3:6 mortal mix 1:4)	m ²	75	60,000		4,680,000
2.5.9	Reinforced Concrete for roof C-25	m ³	13	360,000		4,402,800
2.5.10	Formwork for suspended slab	m ²	98	45,000		4,320,000
2.5.11	Outside plastering (Roof and wall) mix 1:4	m ²	108	40,000		8,160,000
2.5.12	Internal rendering with water proof mixture (cement:sand 1:3)	m ²	102	80,000		2,700,000
2.5.13	Painting outside tank with white weather guard and sky blue paint on roof and wall	m ²	108	25,000		3,115,000
2.5.14	10mm steel bars for Foundation slab (bottom slab)	kg	890	3,500		7,854,000
2.5.15	12mm steel bars for walls	kg	2244	3,500		2,310,000
2.5.16	16mm steel bars for roof slab	kg	660	3,500		240,000
2.5.17	Manhole cover	nos	2	120,000		1,200,000
2.5.18	Steel Ladder as per indicated in the	m	8	150,000		1,000,000
2.5.19	Supply of special fittings and Plumbing	Sum	1	1,000,000		1,800,000
2.5.20	Supply and install Bulk water meter	nos	1	1,800,000		500,000
2.5.21	Supply and Install Water level indicator	nos	1	500,000		500,000
2.5.22	Supply and install floating ball valve on inlet pipe	nos	1	500,000		2,280,000
2.5.23	Compound works including filling, levelling compaction and planting grasses	m ²	114	20,000		14,560,000
2.5.24	Fencing with chainlink 3m around the tank, 2m high properly anchored to the ground by concrete strip and poles including gate as per the drawing	m	52	280,000		82,930,300
sub total						

2.7	CONSTRUCTION OF DOMESTIC POINTS (DP)				
2.7.1	Excavate for and construct Two-taps Domestic point with concrete platform, drainage channel connecting to soakway pit 700mm internal dia. 1000mm deep, pipings and taps including piped System as per Domestic Point drawings	No	10	1,000,000	10,000,000
2.7.2	CROSSINGS				
2.7.3	Stream./road / River under crossing	Sum	1	2,000,000	2,000,000
2.7.4	ANCHOR BLOCKS				
2.7.4	Excavate and Construct reinforced concrete anchor blocks as per directed by	No	70	30,000	2,100,000
	OTHER PIPEWORK ASCILLARIES				
	Construction of valve chambers as per engineers drawing	No	40	700,000	28,000,000
2.7.5	Marker Post for Valves in accordance with standard drawings	No.	50	20,000	1,000,000
2.7.6	Marker Post for Pipelines in accordance with standard drawings	No.	100	20,000	2,000,000
	SUB TOTAL				45,100,000
	Total Civil works				128,030,300
	ITEM NO.6: SUPERVISION				
2.8	Working tools	ls	1	1,000,000	1,000,000
2.8.2					
2.8.3					1,000,000
	SUB TOTAL				
	GRAND TOTAL				

16/12/2021

THE UNITED REPUBLIC OF TANZANIA

MINISTRY OF WATER



RURAL WATER SUPPLY AND SANITATION AGENCY

MAJI HOUSE, Balewa Street, P.O. Box 3197, Mwanza,

Tel: +255 28 2501369, Website: www.ruwasa.go.tz,

Email: mwanzarm@ruwasa.go.tz



In response, please quote:

Ref. No. DA.130/258/01.C/75

17th December, 2021

PET COOPERATION LTD.

P. O. BOX 627

KAHAMA.

RE: AWARD FOR TENDER NO. AE-102/2021-2022/HQ-C/W/48 FOR EXTENSION OF IZIZIMBA B AND IBINDO WATER SUPPLY SCHEME IN KWIMBA DC AND REHABILITATION OF KAHANGARA WATER SCHEME IN MAGU DISTRICT- MWANZA REGION.

Reference is made to your bid dated 01st December 2021 regarding the mentioned tender

Following the decision made by tender board through circular resolution of 16th December 2021 and pursuant to Regulation 58(1,2&3) of the Public Procurement Regulations, 2013 GN. No. 446 together with the Amendments of 2016, I am pleased to inform that you have been awarded the said Tender at evaluated and negotiated price of **Tanzania Shillings Eight Hundred Seventy seven Million Three Hundred fifty six Thousand six fifty five and Thirty seven cents only (Tshs 877,356,655.37) VAT inclusive** for the contract period of six months (6).

Upon receipt of this notification, you are required to confirm your acceptance in writing to the undersigned for further action and also come on 05st January 2021 for contract signing.

Eng. Godfrey T. Sanga

Ag. Regional Manager

MWANZA.