

THE UNITED REPUBLIC OF TANZANIA
MINISTRY OF WATER

CONSTRUCTION OF TRANSMISSION MAIN FROM
KIVERENGE RESERVOIR (MWANGA) TO SAME TOWN
CONTRACT NO. AE/033/2020-2021/W/28

PROJECT PHASE -1 – LOT-2,
CONSTRUCTION PACKAGE II (CONTRACT IV)

Construction Progress Report from Beginning of the Project
to July 2023

Date of report: 14th July. 2023



The following tables below shows the overall progress of work on site up to July 2023.

1. Construction and Installation of Truss bridges

CONSTRUCTION AND INSTALLATION OF TRUSS BRIDGES WORKS EXECUTION SUMMARY DETAILS												
SN	PIPE DIA.	SPAN	LOCATION	Bridge Fabrication	Excavation for Structure	PCC	Base Concrete	Column Concrete	Bridge Installation	Backfilling of Columns Concrete	Pipe Installation	
1	DI 800mm	12.5	Before DV-4	100%	100%	100%	100%	100%	98%	100%	40m	
2	DI 800mm	12.5	Ishinde	100%	100%	100%	100%	100%	98%	100%	33m	
3	DI 800mm	17	Ishinde	100%	100%	100%	100%	100%	98%	100%	54m	
4	DI 800mm	12.5	After AV-17	100%	100%	100%	100%	100%	95%	100%	60m	
5	DI 800mm	12.5	Kavambugu	100%	100%	100%	100%	100%	0	50%	22m	
6	DI 800mm	12.5	Before Same Main Tank	100%	0	0	0	0	0	0	22m	
7	HDPE 630mm	30	After Same Main Tank	11%	100%	100%	100%	100%	0	0	70m	
8	DI 500mm	12.5	Before Same 2 Tank	100%	100%	100%	100%	50%	0	0	22m	
Total Bridges span (m)		122									Total Length of pipe work remain	323m

SUMMARY OF BRIDGES FABRICATION TO CURRENT			
SN	FABRICATED LENGTH(m)	REMAIN	PROGRESS
1	95.3	21.89	78.11%

2. Construction of Air valve chambers and Wash (Drain) valve chambers

CONSTRUCTION OF AIR VALVES & DRAIN CHAMBERS EXECUTION SUMMARY										
SN	DN	Element ID	Fittings Installation(Tees&flanged pcs)	Pipe Installation (m)	Excavation for Structure	PCC	Base Concrete	Wall Concrete	Covers Concrete	Backfilling
1	900mm	AV-1	to be procured	5.5	-	-	-	-	-	-
2	800mm	AV-1	installed	done	done	done	done	-	-	-
3	800mm	DV-01	to be procured	-	need cleaning	-	-	-	-	-
4	800mm	AV-2	Installed	done	done	done	done	done	done	done
5	800mm	AV-3	installed	done	done	done	done	-	-	-
6	800mm	AV-4	installed	done	done	done	done	-	-	-
7	800mm	DV-02	to be procured	-	need cleaning	-	-	-	-	-
8	800mm	AV-5	-	-	-	-	-	-	-	-
9	800mm	AV-6	installed	done	done	done	done	-	-	-
10	800mm	AV-7	installed	done	done	done	done	Casted 2 sides	-	-
11	800mm	AV-8	on progress	done	done	done	done	Casted 2 sides	-	-
12	800mm	AV-9	installed	done	done	done	done	done	done	done
13	800mm	AV-10	installed	done	done	done	-	-	-	-
14	800mm	DV-3	to be procured	30	done	done	done	-	-	-
15	800mm	AV-11	installed	done	done	done	done	Casted 2 sides	-	-
16	800mm	AV-12	-	30	done	done	done	-	-	30
17	800mm	AV-13	-	11	-	-	-	-	-	11
18	800mm	DV-04	to be procured	5.5	-	-	-	-	-	5.5
19	800mm	DV-05	to be procured	22	done	done	-	-	-	22
20	800mm	AV-14	-	30	-	-	-	-	-	30
21	800mm	AV-15	-	70	done	done	done	Casted 2 sides	-	70
22	800mm	AV-16	-	22	done	done	done	Casted 2 sides	-	22
23	800mm	AV-17	-	5.5	done	done	done	Casted 2 sides	-	5.5
24	800mm	AV-18	-	5.5	-	-	-	-	-	40

25	800mm	DV-06	-	11	-	-	-	-	-	22
26	800mm	AV-19	-	16.5	done	done	done	-	-	25
27	800mm	AV-20	-	-	-	-	-	-	-	5.5
28	800mm	DV-07	-	-	need cleaning	-	-	-	-	14
29	800mm	AV-21	-	11	-	-	-	-	-	25
30	630mm HDPE	AV-01	-	-	done	-	-	-	-	-
31	630mm HDPE	AV-02								
32	630mm HDPE	DV-02								
33	630mm HDPE	AV-03								
34	500mm DI	AV-04	-	5.5	done	-	-	-	-	5.5
Total Length of pipe to be installed				275.5				Total length of un-backfilled section		333

SUMMARY OF EXECUTED WORKS			
SN	EXECUTED	REMAINING	PROGRESS
1	15	34	44%

3. Install ductile iron/HDPE piping. (Pipe work)

a) Reinforced concrete surrounding, backfilling

CONCRETE ENCASMENT SECTIONS DETAILS								
SN	DN	ENCAS. LENGTH(m)	LOCATION	Pipe Installation/Rectification (m)	Excavation for Structure	PCC	Concrete Works	Backfilling
1	900mm	12	Before AV-1 for DI DN900mm	100%	100%	100%	100%	100%
2	800mm	12	Butu road	100%	100%	100%	100%	100%
3	800mm	11.6	Tembo road	100%	100%	100%	100%	100%
4	800mm	11.6	Black cotton	100%	100%	100%	100%	100%
5	800mm	10	Chicken road	100%	100%	100%	100%	100%
6	800mm	10	3rd Encasement btn AV-7&AV-8	100%	100%	100%	100%	100%
7	800mm	10	2nd Encasement btn AV-7&AV-8	100%	100%	100%	100%	100%
8	800mm	15	1st Encasement btn AV-7&AV-8	100%	100%	100%	100%	100%
9	800mm	12	njoro after AV-13	100%	100%	100%	100%	50%
10	800mm	15	after take off to njoro	-	-	-	-	-
11	800mm	7	eroded section	-	-	-	-	-
12	800mm	12	Before take off	-	-	-	-	-
13	800mm	12	before Bridge no.2	-	-	-	-	-
14	800mm	12	Ishinde road	-	-	-	-	-
15	800mm	7	after bridge no.4	-	-	-	-	-
16	800mm	10	before AV-18	-	-	-	-	-
17	800mm	10	near DV-6 before AV-19	-	-	-	-	-

18	800mm	10	after AV-19	-	-	-	-	-
19	800mm	10	after 45 degree bend	-	-	-	-	-
20	HDPE 630mm	12	after Same main Tank on HDPE 630mm	-	-	-	-	-
21	500mm	12	Before Hard rock excavation	-	-	-	-	-
22	500mm	12	After Hard rock excavation	-	-	-	-	-
23	500mm	12	Before DV-3 for DI DN500mm	-	-	-	-	-
Total Length		257.2						

SN	SUMMARY OF ENCASEMENT WORKDONE TO CURRENT		
1	DI 900mm	12	
2	DI 800mm	92.2	
3	HDPE 630mm	0	
4	DI 500mm	0	
Total length		104.2	Overall Progress 41%

4. Install ductile iron/HDPE piping. (Pipe work)

- a) Excavate, bedding, pipe laying, backfilling
- b) Rock excavation, bedding, pipe laying, and backfilling using imported materials

PIPELINE WORK SUMMARY EXECUTED TO CURRENT						
S/N	Pipe size	Activity	Total Length required (m)	EXECUTED WORKS		
	(Ø) mm			PREVIOUS	CUMULATIVE	REMAINING
1	900/800/500	Excavation	19,803.00	14,674.50	18,286.50	1,516.50
2	900DI	Uprooting	770.00	770.00	770	-
3	900DI	Pipe laying	1,259.50	572.00	572	714.50
4	800DI	Pipe laying	15,051.50	12,452.00	12,468.50	2,484.00
5	500DI	Pipe laying	2,200.00	1,485.00	1,793.00	407.00
6	630HDPE	Pipe laying	360.00	-	0	360.00
7	500HDPE	Pipe laying	932.00	-	0	932.00
8	900/800/500	Partial Backfill	19,803.00	12,007.00	12,531	7,272.00
	TOTAL	Pipe laying	19,803.00	14,509.00	14,833.50	4,895.50

5. Road/Railway Crossing by HDD

SN	Road Crossing sections by HDD	units	Qty	Executed	Remaining	Percentage completed
16.1	DN125	No.	2	2	0	100%
16.2	DN150	No.	1	1	0	100%
16.3	DN250	No.	3	3	0	100%
16.4	DN315	No.	0	0	0	0%
16.5	DN355	No.	3	3	0	100%
16.6	DN500	No.	2	2	0	100%
16.7	DN 90	No.	1	1	0	100 %
	Sub-total 1	No	11	11	0	100%
17	Railway crossing by HDD a.b.d 16m long a.b.d					

17.2	DN180	No.	1	1	0	100%
17.3	DN250	No.	1	1	0	100%
17.4	DN355	No.	1	0	1	0%
17.5	DN500	No.	2	1	1	50%
	Sub-total 2	No	5	2	3	
	Total No.	No	17		Progress	88.23%
	Executed	No	15			

2. Manpower on Site for the Month of July 2023

S. No	Name	Skilled	Unskilled
1.	Project Manager	0	
2.	Site Engineer	01	
3.	Site Supervisor	02	
4.	Surveyor	01	
5.	HSE Representative	01	
6.	Operator for crane and excavator	0	
7.	Concrete Mixer Operator	01	
8.	Mechanic	01	
9.	Storekeeper	01	
10.	Auto-electrician	0	
11.	Driver	02	
12.	Cleaner	01	
13.	Casual Labor	0	0
14.	Excavation / Backfilling Labor	0	10
15.	Pipeline Joints	0	0
16.	Security Guard	04	

3. Equipment on Site for the month of July 2023

Description	Qty
Excavator	0
Truck mounted Crane	0
30 Ton Crane	0
Tipper 16 m3	1.00
Pick Up	1.00
HDPE Machine	1.00
Plate Compactor	1.00
Backhoe Loader	00
Truck 3.3 m3	00
Concrete Mixer	2.00

SITE PROGRESS PHOTOGRAPHS:

Backfilling



Pipe laying



Bridge Fabrication



Bridge Transportation and Installation



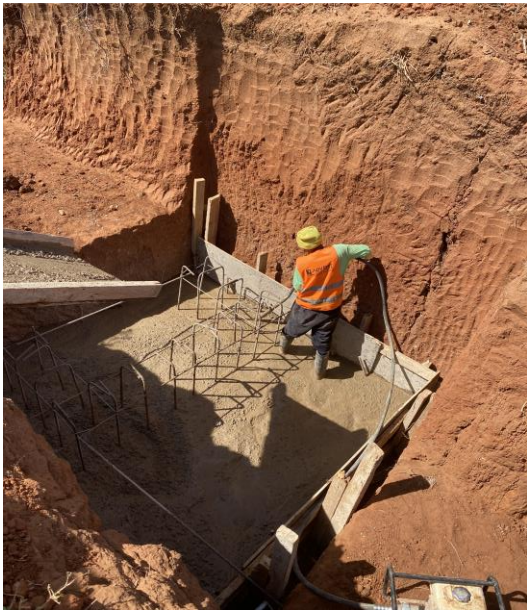
Hard Rock Excavation



Horizontal Drilling and HDPE work



Concrete Works



Shuttering and Deshuttering of Formworks



Steel Preparation and Steel Fixing



Manual Trench Excavation



Footing Excavation for Bridge



*** END REPORT ***