

PLATE No.

District: Kirehe	
Sector: Nyamugari Mahama	
Water Source: Mayizi, Cyanyirayonza	Type: Spring
Structure	Data
1. Water Collecting Weir	Existing Water Collecting Weir to be Rehabilitated Number : 2 nos
2. Water Conveyance Pipe	Material: uPVC(PN10) Dia.: D63mm, Length: L=104m Dia.: D50mm, Length: L=108m
3. Transmission Pipe	Material: uPVC(PN16) Dia.: D75mm, Length: L=543m Dia.: D63mm, Length: L=844m Dia.: D50mm, Length: L=1,142m Dia.: D40mm, Length: L=2,116m Material: uPVC(PN10) Dia.: D75mm, Length: L=1,697m
4. Distribution Reservoir	Material: Reinforced Concrete (New) Volume: 62.50m <sup>3</sup> x 1 no Existing Distribution Reservoir to be Rehabilitated Number : 8 nos
5. Distribution Pipe	Material: uPVC(PN10) Dia.: D110mm, Length: L=1,497m Dia.: D50mm, Length: L=186m
6. Public Tap Stand	3 taps x 1 4 taps x 2 Existing Stand to be Rehabilitated x 30

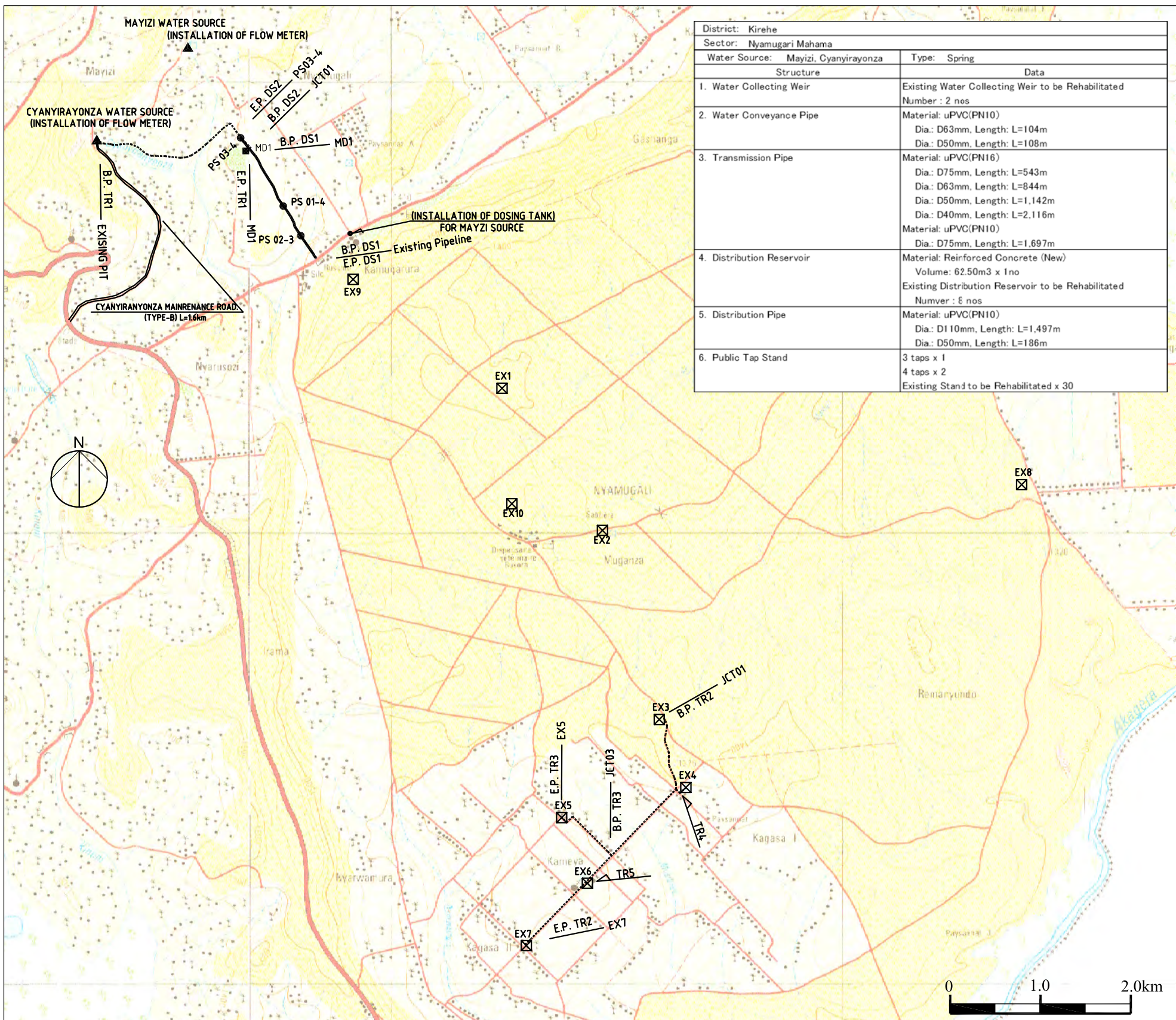
	LOCATION	COORDINATES		DIA. (m)	HEIGHT (m)	PIPE DIA.		REHABILITATION	
		East	North			Inlet	Outlet	INLET	OUTLET
Ex.01	Bukora I	252,650	9,746,203	6.3	3.4	DN50	DN50	V, S, FV	V, M
Ex.02	Bukora I (Health Center)	253,757	9,744,627	3.3	2	DN25	DN20	V, S, FV	V, M
Ex.03	Bukora II	254,407	9,742,546	7.4	2.5	DN50	DN50	V, S, FV	V, M
Ex.04	Kagasa Center	254,694	9,741,780	3.7	1.4	DN25	DN25	V, S, FV	V, M
Ex.05	Kameya	253,320	9,741,442	3.8	1.4	DN20	DN20	V, S, FV	V, M
Ex.06	Kameya Primary School	253,615	9,740,717	3.8	1.8	DN20	DN20	V, S, FV	V, M
Ex.07	Kameya	252,940	9,740,010	3.7	1.4	DN20	DN20	V, S, FV	V, M
Ex.08	Bukora III	258,411	9,745,134	6.9	2.7	DN50	DN50x2	V, S, FV	V, M
Ex.09	Kamugurura	251,004	9,747,407	REC. 2x2	1.8	DN50 DN80	DN80	V, S, FV	V, M
Ex.10	Bukora I	252,727	9,744,847	4.7	2.1	DN50	DN50	V, S, FV	V, M
Ex. CY	Cyanyirayonza Source	248,077	9,749,015	3	2	-	DN50	-	V, M
Ex. MY	Mayizi Source	248,900	9,746,009	REC. 2.7x1.5	1	-	DN80	-	V, M

NOTE: DOSING TANK SHALL BE INSTALLED BOTH OF MD1 AND EX.MY.

Pipe Route: Nyamugari Mahama

PIPE LINE NAME	B.P.	E.P.	PIPE DIAMETER / LENGTH
<b>WATER CONVEYANCE PIPE</b>			
CO1	CYANYIRAYONZA W.S.	DISTRIBUTION TANK	DN50, L=46m
CO2	CYANYIRAYONZA W.S.	DISTRIBUTION TANK	DN50, L=62m
CO3	DISTRIBUTION TANK	DISTRIBUTION PIT	DN63 L=109m
<b>TRANSMISSION PIPE</b>			
TR1	DISTRIBUTION PIT	TANK MD1	DN75-uPVC/PN16 L=543m DN75 L=1,697m
TR2	JCT01	EX7	DN63 uPVC/PN16, L=844m
			DN50 uPVC/PN16, L=1,142m
			DN40 uPVC/PN16, L=1,318m
TR3	JCT02	EX5	DN40 uPVC/PN16, L=742m
TR4	JCT03	EX4	DN40 uPVC/PN16, L=51m
TR5	JCT04	EX6	DN40 uPVC/PN16, L=5m
<b>DISTRIBUTION PIPE</b>			
DS1	TANK MD1	JCT02	DN110 L=1,497m
DS2	JCT01	PS03-4	DN50 L=186m

(if there is no class, it means uPVC PN10)



LEGEND

- DISTRIBUTION PIPE
- - - TRANSMISSION PIPE
- ▲ WATER SOURCE
- PUBLIC STAND
- DISTRIBUTION TANK
- ⊗ EXISTING TANK
- ⊕ BENCH MARK

PUBLIC STAND					
NO.	No. of TAPs	ZONE	EASTING (m)	NORTHING (m)	ELEVATION (mAMSL)
1	4	36M	250,217	9,748,218	1427
2	3	36M	250,413	9,747,890	1400
3	4	36M	249,745	9,748,973	1451

Note: Coordinates are indicating the points of branch on main pipe.

BENCH MARK				
NO.	ZONE	EASTING (m)	NORTHING (m)	ELEVATION (m: Nyamugari Local)
BM E-01	36M	249,626.00	9,749,142.36	1444.98
BM E-02	36M	249,836.49	9,748,838.44	1457.79
BM E-03	36M	250,569.69	9,747,647.53	1406.00

Note: Ellipsoid: WGS1984

PROJECT NAME IMPLEMENTATION REVIEW STUDY ON THE PROJECT FOR RURAL WATER SUPPLY				
CLIENT MINISTRY OF INFRASTRUCTURE RWANDA		JAPAN INTERNATIONAL COOPERATION AGENCY		
TITLE NYAMUGARI MAHAMA WATER SUPPLY SCHEME		GENERAL PLAN OF NYAMUGARI MAHAMA SCHEME		
DATE March 2010	SCALE 1:50000	APPROVE	DESIGN	DRAWING NO. NY_GN_010

Figure 2-6 General Layout Map of Nyamugari Mahama Site