



**WATER RESOURCES DEPARTMENT,**

**MINISTRY OF LAND, WATER AND ENVIRONMENT**

**THE PROJECT FOR URBAN WATER SUPPLY IN DEBUB REGION**

Project Name: The Project for Urban Water Supply in Debub Region (Debarwa)  
The Client: Water Resources Department, Ministry of Land, Water and Environment  
The Consultant: Nippon Koei Co., Ltd.  
The Contractor: Dai Nippon Construction

**1. Project Implementation Schedule**

Basic Design Study Stage : August, 2005 – June, 2006  
Exchange of Notes (Detail Design) : September 12, 2006  
Detail Design Stage : October, 2006 – March, 2007  
Exchange of Notes (Construction) : May 28, 2007  
Construction Stage : June, 2007 – March, 2010  
(Construction contract: Aug. 31, 2007)  
(Provisional hand-over: November, 2009)

**2. Project Outline**

(1) Background of the Project

In response to the request from the Government of Eritrea, “The Study on Groundwater Development and Water Supply for Seven Towns in Southern Region of Eritrea” was conducted in collaboration with the Government of Eritrea and Japan International Cooperation Agency (JICA) in 1997 to 1998. Based on the result of this study, the Government of Eritrea requested to the Government of Japan for implementation of a grant aid project for construction of water supply facilities, on October, 1998. However, this request was interrupted due to outbreak of the border war between Eritrea and Ethiopia. Later, JICA dispatched a supplemental study mission on February, 2005. Following this, a basic design study was conducted targeting the four towns in Debub region on August, 2005 to June, 2006. Based on this basic design, the “Exchange of Notes” for implementation of the Project was concluded between the Government of Eritrea and the Government of Japan on September 12, 2006.

(2) Planning framework of the Project

The Project consists of construction of the water supply facilities in the four towns of

Debarwa, Mai-dima, Dekemhare, and Adi-keyih, in order to improve the living condition of the people of the four towns by supplying safe potable water.

The planning framework of each town is as follows. The target year of each town is set at 2015.

	Debarwa	Mai-dima	Dekemhare	Adi-keyih
Planned Service Area	Zone 01,02,03, Adi-gheda, Adi-logo, Halhare	Adi-ghaba, Hadish, Adi, Milad-manta, Mai chew	Dekemhare, Maiwerki, Amhur, Hadam, Metsale	Hadamu, Haineba, Heshemele, Unabur, Maalewya
Planned Served Population	30,500 (Including existing facility)	26,000 (Including existing facility)	48,000 (Including existing facility)	46,000 (Including existing facility)
Planned Supply Volume	1,370 m <sup>3</sup> /day (Excluding existing facility)	550 m <sup>3</sup> /day (Excluding existing facility)	1,800 m <sup>3</sup> /day (Excluding existing facility)	2,420m <sup>3</sup> /day (Excluding existing facility)

### (3) Project Facility and Contract Amount

The project facility and contract amount of each town is as follows.

	Debarwa	Mai-dima	Dekemhare	Adi-keyih
Borehole construction	6 nos.	9 nos.	-	4 nos.
Pump facility	10 nos.	10 nos.	8 nos.	11nos.
Transmission pipeline	14,800m	12,400m	23,040m	19,790m
Booster pumping station	-	-	-	1 no.
Reservoir	500m <sup>3</sup> , 50m <sup>3</sup>	300m <sup>3</sup>	1,100m <sup>3</sup>	700m <sup>3</sup> , 50m <sup>3</sup>
Distribution pipeline	9,834m	5,681m	13,800m	1,091m
Service facility (Public fountain)	4 nos.	9 nos.	10 nos.	6 nos.
Contract Amount	309,430 thousand Yen	221,090 thousand Yen	380,002 thousand Yen	408,015 thousand Yen

The above works have been completed on November, 2009 and the facilities have been provisionally handed over to each town administration. The additional work for flood protection of the facilities (contract amount: 20,776 thousand Yen) was approved by JICA and the work is on-going and is scheduled to be completed on February, 2010. Thus, the total contract amount is 1,339,313 thousand Yen (approx. USD 13 million).

### (4) Expected Project Effect

By implementation of the Project, total served population of the four towns is expected to be increased from 20,000 in year 2005 to 150,000 in year 2015. This will greatly contribute to attain “urgent action plan for national water supply and sanitation: By the year 2015, 60% of the population of rural area is to be served safe potable water”.

It is noted that the service connection work from newly constructed distribution pipeline to each house/building is to be conducted by each town administration, after the Project is completed.

# Project Site Map

