

courses in the Project.

The Japanese side strongly emphasized the importance and effectiveness of Training Courses in respective Regions which will be able to meet the needs of respective regions and train many trainees at one time. The regional training courses will be implemented at least in two Regions, e.g. SNNPR and Oromia regions, in the similar notion of Model Area Program of the initial project.

It is not clear that either Japanese or Ethiopian side will take responsibility of implementing two courses newly proposed by Ethiopian side, namely "Project Management" and "Data Compilation and Analysis". In case of Japanese side taking responsibility, it is required to elaborate their contents by both sides before their implementation is decided.

V. Undertakings of the Government of the Federal Democratic Republic of Ethiopia through the Ministry of Water Resources

(1) The Basic courses

Both sides confirmed that MoWR should cover necessary expenses for the implementation of the core training courses from January 2006 of the Project period.

- Groundwater Investigation
- Drilling Machinery Maintenance
- Drilling Technology

(2) Participation in the training courses from private sector and other institutions

Ministry of Water Resources would Study an appropriate system for receiving participants from the private sector in the early stage of the project."

(3) Expansion of facilities of the Center

Both sides agreed that the expansion of the training facilities and dormitories of the Center is important to strengthen its function. The details on the expansion plan will be worked out shortly.

(4) Organizational structure of the center

JICA emphasized the necessity of re-organization of the center and its functions in the future. MoWR recognized the issues and promised to decide the re-organization plan by the end of December 2005.

(5) Allocation and assignment of Personnel

Both sides confirmed that proper personnel should be allocated and assigned by MoWR for the smooth implementation of the Project. If proper personnel were not timely assigned, the execution of the training courses as planned in the P/O would be hampered.

(6) Handling of Project Vehicles



- 1) MoWR promised to cover the insurance premium for all project cars.
- 2) MoWR promised to change the registration of two project cars, which are presently with aid number, for the Government property by its own responsibility.

VI. Undertakings of the Government of Japan

(1) Dispatch of Long-Term Experts

- Chief Advisor
- Project Coordinator

JICA explained that experts would be dispatched in accordance with the necessity for the implementation of the Project.

(2) Dispatch of Short-Term Experts

Short-term experts will be dispatched in accordance with the ANNEX II of R/D. Regarding the field of Maintenance Workshop Management, it is possible to dispatch expert only after April 2006.

In relation to this, the following short-term Japanese experts were requested from the Ethiopian side.

- Drilling and well rehabilitation expert
- Training specialist in the field of water supply
- Training specialist in the field of electrical maintenance technology
- GIS expert
- Groundwater modeling expert

In order to make the best use of limited budget, actual dispatch plan of short-term experts should be designed and agreed through discussion between both sides.

VII. Administration of the Project

With reference to article IV of R/D, JICA and MoWR agreed that under the overall responsibility of the Project Director, the coordination for the administration and implementation of the Project will be carried out by the Project Manager and Japanese experts. The Organization Chart of the Project is shown in Appendix III

IX. Others

The JICA Chief Adviser of the Project may engage in other JICA activities in and around Ethiopia for short durations each time with a consent of Ministry of Water Resources , when requested by JICA head office, on the condition that his such activities shall not make significant disturbance on his prime assignment in the Project.

- Appendix I Project Design Matrix
- Appendix II Plan of Operation
- Appendix III Organization Chart of the Project



Appendix I

Project Name: Ethiopia Water Technology Center Project
 Duration: March 15, 2005 - March 14, 2008
 Target Area: All over Ethiopia
 Target Group: Staff of central and regional governments involved in the groundwater development and water supply

Narrative Summary	Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal Access to improved facilities of water supply increases through water resource development and management.</p> <p>Project Purpose Human resources for appropriated groundwater and water supply management increase</p>	<p>1. National water coverage rate (2004: 36.7% national, 24.2% in rural, WSSDP for 2015: 67% in rural)</p> <p>2. Number of trainees completed the training courses (Year 1: 110 trainees, Year 2: 130 trainees, Year 3: 130 trainees) (It will be fixed after actual program has properly planned)</p> <p>3. 80% of the ex-trainees and their bosses are satisfied with the training courses.</p>	<p>1. Annual Seasonal Report from MoWR Annual Report by Central Statistics Agency (CSA) SDPRSP Annual Progress Report</p> <p>2. Project record (i.e., Trainees' List, Achievement Tests) 2.1 Questionnaire to the ex-trainees and their bosses 2.2 Evaluation reports for each training course</p>	<ul style="list-style-type: none"> No extraordinary climatic condition prevail in Ethiopia. Water sector policies remain unchanged. The budget for facility improvement for water supply is secured, and provision of water supply continues. Appropriate maintenance systems for water supply facilities are established.
<p>Outputs 1. Technical trainings regarding groundwater and water supply management are conducted.</p> <p>2. The training courses are developed and improved through research activities</p> <p>3. Teaching materials on groundwater management and water supply are developed.</p>	<p>1.1 Number of the training courses carried out (7 courses) 1.2 Documents related to the training course management 1.2.1 Annual plans of the training courses formulated 1.2.2 Implementation plans for each training course formulated 1.2.3 Evaluation reports for each training course prepared 2.1 Number of developed or revised textbooks/materials, and related to groundwater management training and appropriate technology development training 3.1 Number of teaching materials developed on operation & maintenance, construction and rehabilitation of water supply</p>	<p>1.1 Project record (i.e., Trainees' List, Achievement Test) 1.2.1 Project records 1.2.2 Evaluation reports for each training course</p> <p>2.1 Project record</p> <p>3.1 Project record</p>	<ul style="list-style-type: none"> Graduates of the training courses continue to work in the same sector in Ethiopia.
<p>Activities 1. Implementation of Training Courses Through planning and implementation of the following training courses, below 1) & 2) are expected. 1) Human resources development of trainees, and 2) Management capacity of the Center staff will increase. 1.1 Regular courses 1.1.1 Basic courses: 1.1.1.1 Advance courses. (As per Training Needs Assessment) 1.1.1.2 Relevant Supplementary courses 1.1.2 Relevant On-Demand courses: (As per Training Needs Assessment) 1.2.2 Relevant Regional Training Courses: (As per Training Needs Assessment) 2. Implementation of Research and Development activities on groundwater management and appropriate technology development 1) Formulation of research plans 2) Execution of research activities 3) Feedback of the results to the training courses 3. Implementation of and support to water related projects (i.e., well drilling, installation of equipment, well rehabilitation) 1) Formulation of implementation and support plans 2) Execution of implementation and support activities 3) Formulation of teaching materials on groundwater management and water supply</p>	<p>Inputs Japanese Side 1) Dispatch of Experts Long-term Experts 1. Chief Advisor 2. Coordinator Short-term Experts 2) Provision of Machinery and Equipment 3) Training of Ethiopian personnel in Japan (as necessity arises)</p>	<p>Ethiopian Side 1) Assignment of Counterparts 1. Project Director 2. Project Manager 3. Head of the Training Center 4. Counterpart Personnel to Respective Short Term Experts 2) Provision of land, building and facilities 3) Allocation of budget for implementation of training courses</p>	<ul style="list-style-type: none"> Staff of the Center continue to work at the Center. Sufficient number of trainees enroll to the training courses Duty and authority of the Center for the training purposes are maintained <p>Pre-conditions - The budget for the training courses will be secured by the Ethiopian Government. - Facilities and equipment required for the training will be prepared in accordance with the implementation plans of the training</p>

Organization Chart of the Project

