REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS AND HOUSING
DIRECTORATE GENERAL OF WATER RESOURCES,
RESEARCH AND DEVELOPMENT AGENCY,
HUMAN RESOURCES DEVELOPMENT AGENCY

THE PROJECT ON CAPACITY DEVELOPMENT FOR RIVER BASIN ORGANIZATIONS IN INTEGRATED WATER RESOURCES MANAGEMENT IN THE REPUBLIC OF INDONESIA (PHASE II)

PROJECT COMPLETION REPORT

SUPPLEMENTARY DOCUMENT 1/3

DECEMBER 2018

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

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19-027

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The Project on Capacity Development for River Basin Organizations in Integrated Water Resources Management in the Republic of Indonesia (Phase II)

Project Completion Report

Supplementary Document 1/3

Annex 1 Results of the Project

Annex 2 List of Products (Report, Manuals, Handbooks, etc.) Produced by the Project

Annex 3 PDM (All versions of PDM)

Annex 4 R/D, M/M, Minutes of JCC

Annex 5 Monitoring Sheet

Annex 6 Products

Annex 6-1 Reports

No.	Titles	Outputs
001	Report on Activity 1-1 to 1-5 for BBWS Ciliwung Cisadane	Output 1
002	Site Survey Result and Proposal of Landscape Plan for Telaga Saat, Upper Ciliwung at BBWS Ciliwung Cisadane	Output 1
003	Report on Activity 1-1 to 1-5 at BWS Sulawesi 1	Output 1
004	Report of TOPOGRAPHIC (River Cross Section) SURVEYS AT TONDANO RIVER, TIKALA RIVER, AND SARIO RIVER	Output 1
005	Report of GEODETIC SURVEYS AT MALALAYANG RIVER (New BM Installment)	Output 1
006	Report of TOPOGRAPHIC (River Cross Section) SURVEYS AT MALALAYANG RIVER	Output 1
007	Collection Material & Reference on Dam Operation & Maintenance at BWS Sulawesi 1	Output 1
008	Report of Training on Dam Operation & Maintenance, in Malang on February 2016	Output 2
009	Report of Training on Water Allocation, in Makassar, on February 2016	Output 2
010	Report of Training on Flood Management, in Manado on May 2016	Output 2
011	Report of River Maintenance Training, in Jakarta on August 2016	Output 2
012	Report of Training on Maintenance for Water Resources Infrastructures, in Bandung on August 2016	Output 2
013	Report of Training on Water Quality Management in Urban Rivers, in Jakarta on September 2016	Output 2
014	Report of Training on Operation & Maintenance for Irrigation, in Surabaya on October 2016	Output 2
015	Report of Training on River Rehabilitation, in Jakarta on November 2016	Output 2
016	Report of Training on Benchmarking, in Solo on March 2017	Output 2
017	Report of Training on Sediment Management for Dam, in Yogyakarta on April 2017	Output 2
018	Report of Training on Calculation of Water Balance, in Yogyakarta on August 2017	Output 2
019	Report of Training on Design of River Facility Structures, in Padang on September 2017	Output 2
020	Report of Training on RBO Performance Benchmarking for BBWS and BWS in West Region, in Palembang on April 2018	Output 2
021	Report of Training on RBO Performance Benchmarking for BBWS and BWS in East Region, in Mataram on April 2018	Output 2

Annex 6-2 Manuals

No.	Titles	Outputs
001	Manual on High Water Flow Measurement at Tikala, Sario and Malalayang at BWS Sulawesi 1	Output 1
002	Manual on Periodical Maintenance for AWLR (Microwave Type) at Tikala for BWS Sulawesi 1	Output 1
003	Manual on Periodical Maintenance for ARR 'Tipping Bucket Type) at Kuwil Kaleosan at BWS Sulawesi 1	Output 1

ANNEX 1

Results of the Project

List of Dispatched Experts

Long-Term Experts

Name	Position	Responsibility	Duration/MM	Organization in Japan
WATANABE Shoichi	Chief Advisor	Integrated Water Resource Management	12 Jan. 2015 to 31 Jan. 2016/12.5MM	Ministry of Land, Infrastructure Transport and Tourism
MIURA Hirohisa	Technical Expert	Water Allocation / Operation & Maintenance	26 Jan. 2015 to 11 Jan. 2019/47.5MM	Japan Water Agency
SUZUKI Kazushi	Project Coordinator	Capacity Development / Structural Management for CD / Coordination	20 Apr. 2015 to 11 Jan. 2019 / 44.5MM	-

Short-Term Experts

Name	Responsibility	Duration	Organization in Japan
SUGIURA Masahiro	Dam Facility Operation & Maintenance	31 Jan. to 6 Feb. 2016, for 7 Days	Japan Water Agency
OCHI Yasuhiro	Water User Coordination / Irrigation Water Allocation	21 Feb to 27 Feb. 2016, for 7 Days	Japan Water Agency
MORIYASU Kunihiro	River Maintenance	29 July. to 12 Aug. 2016 for 15 Days	Japan Water Forum
OZAWA Morio	River Rehabilitation	14 Nov. to 19 Nov. 2016, for 6 Days	Ministry of Land, Infrastructure, Transport and Tourism
MARUYAMA Jun	Dam Operation & Maintenance	22 Apr. to 28 Apr. 2018, for 7 Days	Ministry of Land, Infrastructure, Transport and Tourism
OTA Hisashi	High Water Flow Measurement (Hydrology)	22 Apr. to 28 Apr. 2018, for 7 Days	Ministry of Land, Infrastructure, Transport and Tourism
HISHIDA Akira	Dam Operation & Maintenance	22 Oct. to 28 Oct. 2018, for 7 Days	Ministry of Land, Infrastructure, Transport and Tourism

List of Counterparts

Member of PIU (Provided by Ministerial Decree, No.542/KPTS/M/2017)

No.	Position	Position within the Team
I	**DIRECTOR TEAM**	
1	Director General of Water Resources	Chairman and Member
2	Secretary of DGWR	Member
3	Director General of Reasearch and Development Agency	Member
4	Director General of Human Resources Development Agency	Member
5	Director of Water Resources Management, DGWR	Member
6	Head of Research and Development Center of WR (PUSAIR), RDA	Member
7	Head of Training Center for WR and Construction, HRDA	Member
8	Head of Experimental Station for River, Research and Development Center of WR	Member
9	Head of Ciliwung Cisadane RBO, DGWR	Member
10	Head of Sulawesi I RBO, DGWR	Member
II	**TECHNICAL TEAM**	
1	Head of Sub-Dir..of WR Institutional, WR Management, DGWR;	Member
2	Head of Sub-Dir..of River Basin Planning, WR Management, DGWR;	Member
3	Head of Sub-Dir..of Hydrology and WR Environment, WR Management, DGWR;	Member
4	Head of Sub-Dir..of Planning, Dir. Irrigation and Swamp, DGWR;	Member
5	Head of Sub-Dir..of Planning for Operation and Maintenance, Dir. O&M Development, DGWR;	Member
6	Head of Division of Planning and Administration, Dam Center, DGWR	Member
7	Head of Sub-Dir..of Tech. Assitance for River and Coastal, Dir. River and Coastal, DGWR.	Member
8	Head of Division of Planning and Administration, Ground Water and Raw Water Center, DGWR.	Member

9	Head of Division of Employment, Organization and Management, Secretariat of DGWR, DGWR	Member
10	Head of Division of Planning and Evaluation, HRDA	Member
11	Head of Division of Technical and Material for WR, Training Center for WR and Construction, HRDA	Member
12	Head of Division of Operation and Maintenance, Ciliwung Cisadane RBO	Member
13	Head of Division of Standardization and Cooperation, Research of Development Center of WR (PUSAIR)	Member
14	Head of Section of Operation and Maintenance, Sulawesi I RBO	Member
15	Head of Section of Regional II, Sub-Dir..of WR Institutional, WR Management, DGWR.	Member

Working Team Member List at BBWS Ciliwung Cisadane (Confirmed at 3rd JCC on 12th April 2017)

No.	Name	Position of BBWS
1	Ms. Anggia Satrini	Head of Program & Planning Division
2	Mr. Baskoro	Head of Implementation Division
3	Ms. Gemala Suzanti	Head of Operation & Maintenance Division
4	Ms. Ari Winarti	Program & Planning
5	Ms. Vicie Puspasari	Program & Planning
6	Ms. Sona Meylina	Implementation
7	Ms. Anisa Sari	Operation & Maintenance
8	Ms. Novita Sari	Operation & Maintenance
9	Ms. Eka Siwi	Operation & Maintenance
10	Ms. Ratih Ajeng	Operation & Maintenance

Working Team Member List at BWS Sulawesi 1 (Confirmed at 3rd JCC on 12th April 2017)

No.	Name	Position of BWS
1	Djidon R. Watania, ST. MM	Head of BWS Sulawesi I
2	Ellen D. Cumentas, ST. Sp.1	Section Head of Programs & General
3	Audy H.P. Rantung ST. MT. Novie M. Ilat, ST.Sp.1	Planning BWS Sulawesi I Section Head of O & M BWS Sulawesi I

	Ir. Herry C. Taliumepa, Sp.1	
4	Dan Ridleiy Namare, ST	Section Head of Implementation BWS Sulawesi I
5	Imanuel F. Makasaehe, ST. Sp1	Functional officials
6	Djahara Lobud, SE. MM	Commitment Making Official - Management
7	Jacquelin L. Tahar, SH	Sub Division Head of Administrative
8	Ir. Eddy Kenda, MSi	Functional officials
9	Ir. Sardjon Welliang, MT	Functional officials
10	Bertty Gahansa, SH	Chief of Reviewers Officer
11	Ronald F. Parengkuan, ST	Commitment Making Official of O&M 1 SDA Sulawesi I
12	Drs. Ajub I. Kandou	Technical Implementation - Commitment Making - Management
13	Revly Pasiowan, ST	Chief of Hydrology Reviewers
14	Frinny E.D Lele, ST	Chief of O & M Reviewers
15	Hendry Doodoh, ST	Administrative Coordinator Of Dam Working Unit
16	Rhecky J. Lontoh, ST	Technical Implementation - Commitment Making - General Planning & Programs Working Unit
17	Tommy Miran, A.Md	Staff of Hydrology, O & M Working Unit
18	Youke M. Sumolang	Staff of BWS S1
19	Vonne C. Pangemanan, ST	Staff of BWS S1

List of Trainings

Field Training at BBWS Ciliwung Cisadane for Output 1

No	Topic	Date	Activity Type	Contents
1	OJT	Feb. 20, 2018	Meeting	-Explanation to New Head o BBWS -Discussion and Confirm on Activity 1-1 to 1-6 with Head of BBWS
2	OJT	March 14. 2018	Meeting	-Data Collecting on Water Allocation Planning Report at Cisadane River Through PIU Meeting
3	OJT	May 17, 2018	Meeting	-Check the existing report contents
4	Add. OJT①	May 17, 2018	Field Survey	-Site check at Situ Telaga Saat, upstream of Ciliwung River for Landscape Design and SAKURA Project
5	OJT	May 31, 2018	Meeting	-Confirm necessary data, if un-available, we will conduct as an assumption calculation of Irrigation demands
6	OJT	Aug. 10, 2018	Meeting	-Explanation to New Head of BBWS -Additional topics for Project OJT
7	OJT	Beginning Aug. 2018		-Collecting the cultivation patter information from Kabupaten
8	Add. OJT①	Aug. 28, 2018	Meeting	-Confirm procedure and schedule of activity for Environment Conservation Project
9	Add. OJT②	Aug. 30, 2018	Seminar	-Discussion on Maintenance work for Situ Gintung (Rock-Fill Type Dam) -Site check on water leakage at downstream of Dam body
10	Add. OJT①	Aug. 31, 2018	Field Survey	-Check the available SAKURA for Telaga Saat at Cibodas Botanica l Garden
11	Add. OJT①	Sep. 14, 2018	Seminar	-Head of BBWS chaired for the Seminar -Discussion on Concept and Kinds of SAKURA for Telaga Saat
12	Add. OJT①	Oct. 4, 2018	Seminar	-Introduction on River Works with Nature Conservation -Discussion on River Works without relocation of houses at river
13	OJT	Oct. 11, 2018	Discussion	-Self-Assessment Report of 2017 -Upgrading the Report Contents, especially “Action Plan”
Total : 13 times				

Field Training at BWS Sulawesi 1 for Output 1

No	Date	Activity Type	Contents
	Common Activity for three (3) OJT Topics		
1	June 14, 2017	Seminar	-Kick Off Seminar for three (3) OJT Topics -Confirmed Purposes, Schedule and Locations of the OJTs
2	Nov. 13, 2018	Discussion	-Self-Assessment Report of 2017 -Upgrading quality of the Report Contents, especially "Action Plan"
3	Dec. 11, 2018	Seminar	-Wrap Up Seminar for three (3) OJT Topics -Summarized results and outputs of the OJTs
	1) Implement flow observation of high water and update H-Q formulation		
4	March 7-8, 2017	Discussion, Field Activity	-Decided four (4) locations for High Water Flow Measurement, 1) Kairagi of Tondano River, 2) Tikala, 3) Sario and 4) Malalayang -Decided "Float Method" as a method of the measurement
5	April 6, 2017	Discussion, Field Activity	-Check the conditions of new relocated position of Kairagi and Malalayang -Setting cross section survey lines as float reference point (existing station), 1st Measurement Line and 2nd Measurement Line
6	May 3, 2017	Field Activity	-Instructing specifications and how to product the "Float" for High Water Flow Measurement at a Workshop
7	June 6, 2017	Field Activity	-Check the available BMs for River Cross Section Survey at four (4) locations
8	July 25-26, 2017	Discussion Field Activity	-Confirmed existing BMs at four (4) locations -Check the availability of necessary equipment for High Water Flow 8Measurement
9	Oct. 9-11, 2017	Discussion	-Made a draft TOR and Cost Estimation for River Cross Section Survey
10	Nov. 7-8, 2017	Discussion	-Finalized TOR of River Cross Section Survey, especially method and minimum accuracy of survey
11	Nov.18-19, 2017	Discussion Field Activity	-Shared information on damage by flood, staff gauges at OJT locations washed away. JICA Project will repair it.
12	Dec.18-19 ,2017	Discussion Field Activity	-Site Conditions check for River Cross Section Survey
13	Jan. 9-11, 2018	Discussion Field Activity	-Progress check of River Cross Section Survey
14	Feb 12-13, 2018	Discussion Field Activity	-Check draft drawing of River Cross Section Survey at Office and Sites -Scheduled a site practice of High Water Flow Measurement on March 5-8, 2018
15	Feb.26-27, 2018	Discussion Field Activity	-Check the output of River Cross Section Survey at Office and Sites -Preparation for Site Practice of High Water Flow Measurement

16	Mar. 6-8, 2018	Field Activity	-Site Practice on High Water Flow Measurement at Tondano, Tikala and Sario -Workshop on flow velocity and flow rate calculation
17	Mar. 2018	Field Activity	-Finished River Cross Section Survey at Tondano, Tikala and Sario by Survey Company
18	Mar. 2018	Field Activity	-Instruct on producing the Float to Local Workshop in Manado City for continuous supplying the Float to BWS Sulawesi 1
19	Apr. 25, 2018	Seminar	-Special Seminar on High Water Flow Measurement, support by Japanese short term experts from MLIT
20	May 23, 2018	Meeting	-Follow-up discussion for the Special Seminar, handing over a book on Hydrology Management in Japan "Illustration on Hydrology Observation"
21	Sep. 28, 2018	Field Activity	-Finished installation of Staff Gauges at Tikala, Sario and Malalayang for High Water Flow Measurement
	2) Update/create maintenance manual and conduct trainings for hydrological instrument		
22	March 7, 2017	Discussion	-Decided a way of OJT, as purchase new AWLR and ARR for OJT
23	May 3. 2017	Field Activity	-Check candidate location to install new instrument, AWLR and ARR -Decided location to install 1) AWLR at Tikala, 2) ARR at Kuwil Kaloesan
24	June 7, 2017	Discussion	-Deciding type of AWLR and ARR. AWLR is "Non-Contact (Ultra Sonic) Type" at Tikala, ARR is "Tipping Bucket Type" at Kuwil Kaloesan
25	July 25-26, 2017	Field Activity	-Check the site condition in detail for procurement TOR and cost estimation at Tikala for AWLR and at Kuwil Kaleosan for ARR at Kuwil Kaleosan
26	Oct. 9-11, 2017	Discussion Field Activity	-Changed the type of AWLR, from "Non-contact type" to "Water Pressure Type" -Made a draft TOR of AWLR and ARR procurement
27	Dec.18-19, 2017	Discussion	-Making TOR of AWLR and ARR procurement
28	Jan. 9-11, 2018	Discussion Field Activity	-Condition check for AWLR type -Condition check at Tikala for AWLR Type
29	Feb.12-13, 2018	Discussion	-Sharing information on progress of ARR Procurement
30	Mar.20-21, 2018	Field Activity	-Finished Installation of ARR at Kuwil Kaleosan, Tipping Bucket Type -Site Practice on Maintenance and Data Download by BWS Sulawesi 1
31	Apr.-May 2018	Meeting	-Several Discussion on TOR of AWLR at Tikala, Microwave (Non-Contact) Type
32	Aug. 1, 2018	Field Activity	-Finished Installation of AWLR at Tikala -Site Practice on Maintenance and Data Download by BWS Sulawesi 1
33	Oct. 16, 2018	Seminar	-Seminar on Specification & Maintenance for ARR and AWLR for Observers -Demonstration and Practice of Periodical Maintenance at Sites

	3) Support for making O/M rule of Kuwil Dam		
34	May 4, 2017	Discussion	-Collecting technical reports and drawings of Kuwil Dam Construction
35	Nov. 21, 2017	Seminar	-Understanding guidelines and regulation on Dam O/M in Indonesia for making Kuwil & Lolak Dam O/M Plan -Introduction on example of Dam O/M rules and practical O/M works in Japan
36	Dec.18-19, 2018	Discussion	-Discussed on purposes and schedule of Field Seminar on March
37	Jan. 9-11, 2018	Discussion	-Decided schedule, candidate participants for Field Seminar
38	Feb.12-13, 2018	Discussion	-Re-scheduling for Field Seminar
39	Feb.26-27, 2018	Discussion	-Re-scheduling again for Field Seminar and choosing participants
40	Apr. 2-6, 2018	Field Activity	-Field Seminar on Real Operation & Maintenance in Indonesia -Visited Jatiluhur Dam(PJT2), Selorejo/Sutami/Sengguruh Dam (PJT1)
41	Apr. 25, 2018	Seminar	-Special Seminar on Dam Operation & Maintenance, support by Japanese short term experts from MLIT
42	Aug. 15, 2018	Seminar	-Seminar on Sediment Management for Dam Reservoir with support by Sub-dit of Dam O/M
Total : 42 times			

Training for All RBO for Output 2

No.	Trainings	Venue	Duration
2016			
1	Dam Operation and Maintenance	Malang City (Balai DIKLAT Surabaya)	4 days, 2 – 5 Feb. 2016
2	Water Allocation	Makassar City (Balai DIKLAT Makassar)	4 days, 23 – 26 Feb. 2016
3	Flood Management	Manado City (Balai DIKLAT Makassar)	4 days, 10 – 13, May 2016
4	River Facility Maintenance	Jakarta (Balai DIKLAT III Jakarta)	4 days, 10 – 12 Aug. 2016
5	Maintenance for Water Resources Infrastructure (WRI)	Bandung (Balai DIKLAT Bandung)	4 days, 30 Aug – 2 Sep. 2016
6	Water Quality Management in Urban Rivers	Jakarta (Balai DIKLAT III Jakarta)	4 days, 27 – 30 Sep. 2016
7	Operation and Maintenance for Irrigation	Surabaya (Balai DIKLAT Surabaya)	4 days, 18 – 21 Oct. 2018
8	River Rehabilitation	Jakarta (Balai DIKLAT III Jakarta)	4 days, 15-18 Nov. 2016
2017			
9	Assessment of BBWS's Performance for Benchmarking	Solo City (Balai DIKLAT Yogyakarta)	5 days, 13 -17 March , 2017
10	Sediment Management for Dam	Yogyakarta/Solo City (Balai DIKLAT Yogyakarta)	5 days 17 - 21 April, 2017
11	Calculation of Water Balance for Water Allocation Planning	Semarang City (Balai DIKLAT Yogyakarta)	4 days, 22 - 25 Aug. 2017
12	River Facility Maintenance	Padang (Balai DIKLAT Medan)	4 days, 12 - 15 Sep. 2017
2018			
13	RBO Performance Benchmarking for BBWS and BWS in West Region	Palembang City (Balai DIKLAT Palembang)	5 days, 9 -13 April, 2018
14	RBO Performance Benchmarking for BBWS and BWS in East Region	Mataram City, Lombok, (Balai DIKLAT Surabaya)	5 days, 16 -20 April, 2018
No	**Seminar**	**Venue**	**Date**
1	Focus Group Discussion for Innovation on Dam Operation & Maintenance	Batam City (Aston Batam Hotel & Residence), in INACOLD Seminar	24th October, 2018
15 Times			

ANNEX 2

List of Products (Report, Manuals, Handbooks, etc.) Produced by the Project

List of Products

Report	
Report of Activity 1-1 to 1-5 at BBWS Ciliwung Cisadane	Output 1
Site Survey Result and Proposal of Landscape Plan for Telaga Saat, Upper Ciliwung at BBWS Ciliwung Cisadane	Output 1
Report of Activity 1-1 to 1-5 at BWS Sulawesi 1	Output 1
Collection Material & Reference on Dam Operation & Maintenance at BWS Sulawesi 1	Output 1
Report on Implementation of Training on Dam Operation & Maintenance, in Malang on Feb. 2016	Output 2
Report on Implementation of Training on Water Allocation, in Makassar, on Feb. 2016	Output 2
Report on Implementation of Training on Flood Management, in Manado on May 2016	Output 2
Report on Implementation of Training on River Facility Maintenance, in Jakarta on August 2016	Output 2
Report on Implementation of Training on Operation & Maintenance for Water Resources Infrastructure, in Bandung on August 2016	Output 2
Report on Implementation of Training on Water Quality at Urban Rivers, in Jakarta on September 2016	Output 2
Report on Implementation of Training on Operation & Maintenance for Irrigation, in Surabaya on October 2016	Output 2
Report on Implementation of Training on River Rehabilitation, in Jakarta on November 2016	Output 2
Report on Implementation of Training on Assessment of BBWS's Performance for Benchmarking, in Solo on March 2017	Output 2
Report on Implementation of Training on Sediment Management for Dam, in Yogyakarta on April 2017	Output 2
Report on Implementation of Training on Calculation of Water Balance for Water Allocation Planning, in Semarang on August 2017	Output 2
Report on Implementation of Training on River Facility Maintenance, in Padang on September 2017	Output 2
Report on Implementation of Training on RBO Performance Benchmarking for BBWS and BWS in West Region, in Palembang on April 2018	Output 2
Report on Implementation of Training on RBO Performance Benchmarking for BBWS and BWS in East Region, in Mataram on April 2018	Output 2

Manual	
Manual on High Water Flow Measurement at Tikala, Sario and Malalayang at BWS Sulawesi 1	Output 1
Manual on Periodical Maintenance for AWLR (Microwave Type) at Tikala for BWS Sulawesi 1	Output 1
Manual on Periodical Maintenance for ARR 'Tipping Bucket Type) at Kuwil Kaleosan at BWS Sulawesi 1	Output 1
Training Curriculum, Syllabus, Textbook, Pre/Post Test	
Training on Dam Operation & Maintenance, in Malang on Feb. 2016	Output 2
Training on Water Allocation, in Makassar, on Feb. 2016	Output 2
Training on Flood Management, in Manado on May 2016	Output 2
Training on River Facility Maintenance, in Jakarta on August 2016	Output 2
Training on Operation & Maintenance for Water Resources Infrastructure, in Bandung on August 2016	Output 2
Training on Water Quality at Urban Rivers, in Jakarta on September 2016	Output 2
Training on Operation & Maintenance for Irrigation, in Surabaya on October 2016	Output 2
Training on River Rehabilitation, in Jakarta on November 2016	Output 2
Training on Assessment of BBWS's Performance for Benchmarking, in Solo on March 2017	Output 2
Training on Sediment Management for Dam, in Yogyakarta on April 2017	Output 2
Training on Calculation of Water Balance for Water Allocation Planning, in Semarang on August 2017	Output 2
Training on River Facility Maintenance, in Padang on September 2017	Output 2
Training on RBO Performance Benchmarking for BBWS and BWS in West Region, in Palembang on April 2018	Output 2
Training on RBO Performance Benchmarking for BBWS and BWS in East Region, in Mataram on April 2018	Output 2
Reviewed Module as Certificated Official Regulation/Standard	
Ministerial Regulation 17/PRT/M/2017 on Guidelines for the establishment of TKPSDA at the river basin level	Output 3
Ministerial Regulation 27/PRT/M/2015 on Dam	Output 3
SNI 7847:2012 on Waste Water, Specification on Processing Result Part 1: Mud from Pulp and Paper Factories	Output 3

SNI 8065:2016 on analysis method and how to control water seepage for fill type dams	Output 3
SNI 8283:2016 on Depth measurement method uses echo sounding to produce a bathymetry map	Output 3

ANNEX 3

PDM (All versions of PDM)

Annex I Project Design Matrix (PDM)

Project Title: The Project on Capacity Development for River Basin Organizations in Integrated Water Resources Management in the Republic of Indonesia (Phase II)
Implementing Agency: Directorate General of Water Resources (DGWR), and Research and Development Agency (RDA),
Project Sites: Jakarta (Secretariat of Project Implementation Unit, DGWR, PU), Bandung (PUSAIR), Solo (Balai Sungai and CRBOM), Field practice sites (BBWS Ciliwung Cisadane and BWS Sulawesi I)
Target Group: Staff members of PIU, DGWR/DWRM, PUSAIR/Balai Sungai, CRBOM, and RBOs of the Field practice sites
Indirect Beneficiaries: RBOs under the central government, PUSDIKLAT
Duration of the project: 4 years from 2014

As of: ** April 2014 (Ver. 1.0)

Narrative Summary	Verifiable Indicators	Means of Verification	Important Assumptions	Achievement	Remarks
Super Goal The Integrated Water Resources Management (IWRM) is implemented effectively, efficiently and sustainably in all river basins of Indonesia.					
Overall Goal The capacity of RBOs on IWRM is continuously enhanced through the developed Capacity Development Framework (CDF).	1. Benchmarking Score (continuously improved) 2. Amount of the budget for the activities	1. Benchmark Report 2. Budgetary Note			
Project Purpose The capacity of RBOs on IWRM is improved through the upgraded mechanism of the capacity development activities for RBOs.	1. Number of capacity development activities (trainings and counselling) to RBOs per year. 2. Benchmarking Score	1. Record of trainings/Periodical report of PIU 2. Benchmarking Report	GOI policy on integrated water resources management continues to attach importance to IWRM and RBOs. The Strategy for Capacity Building on Water Resources Management is stipulated and managed by PU Rules and regulations stipulated by other ministries don't come into conflict with the activities on IWRM.		
Outputs 1. Integrated water resources management capacity of RBOs in field practice(FP) sites is improved	1-1 Participating rate for trainings at the FP sites 1-2 Number of field trainings at the FP sites 1-3 Score of RBO benchmarking at the FP sites	1-1. Record of trainings 1-2. Record of trainings 1-3. Benchmarking study			
2. Capacity Development Framework (CDF) for RBO, including organizational structure, stakeholder's responsibilities and training framework, is developed and operated	2-1. Number of good practices and lessons learned applied to CDF through the project per year 2-2. Consolidated CDF document 2-3. Annual CD activity plan including the budget in PU 2-4. CD activities plans including the budget developed in RBOs 2-5. Mid- and long-term plans of CD in PU 2-6. Number of the Regular Meeting held	2-1. Questionnaire / Site survey to RBOs.、Study on Revised CD materials 2-2. Approved CDF document of PU 2-3. Annual Work Plan of PU 2-4. Annual Work Plan of RBOs 2-5. Approved plans in PU 2-6. Record of Regular Meeting			
3. Accessibility to and reliability of the CD resources, including technical standard, guidelines and manuals for IWRM, are improved	3-1. Number of CD resources prepared, disseminated, and accessed through different means of communication 3-2. Inventory system of the CD resources 3-3. Number of workshops and seminars conducted 3-4. Number of CD training courses conducted 3-5. Number of documents (textbooks, manuals and	3-1. Inventory of CD resources and Records of accesses and downloads 3-2. Study on the inventory system 3-3. Periodical report of PIU			

	guidelines) revised per year	3-4. Training report 3-5. Periodical report of PIU (Project Implementation Unit)			

Activities	Inputs		
1. Integrated water resources management capacity of RBOs in field practice sites is improved 1-1. Analyse and break down the expected RBO's functions and roles into daily work activities. 1-2. Identify current functions and roles, and the actual daily work activities of several RBOs, and sort out the activities to be strengthened by comparing the actual activities with the ideal functions and roles mentioned above in 1-1. 1-3. Identify priority issues, which are necessary to be tackled with stakeholders as common and important targets, in the selected RBOs as pilot fields 1-4. Identify concrete work activities to tackle the priority issues recognized in "1-3", and area of the capacity development necessary for those work activities in the selected RBOs. (* "Capacity Development (CD)" means Capacity development which aims enhancement of the capacity of RBOs considering the viewpoint of a) capacity of individuals, b) capacity of organization (e.g. Job quality management, decision making, etc) , and c) institution and society, as mentioned in the JICA CD handbook.) 1-5. Make short- and middle- term CD plans to accomplish the capacity development recognized in "1-4" in the selected RBOs. 1-6. Carry out the capacity development activities* based on the CD plans and the work activities for the priority issues, in the selected RBOs. 1-7. Evaluate regularly the capacity of the RBOs through the progress on implementation of CD plans including the trainings, and the daily work activities to the priority issues, by various methods such as interviews to the staff, existing RBO benchmarking indicators and job assessment. 1-8. Consolidate good or bad practices, lessons and challenges learnt through the field practices, based on the output of "1-7". 1-9. Improve the each CD plans, considering the output of 1-8, and carry out the revised plans in the selected RBOs. (The activities from "1-3" to "1-9" are called as "Field Practice" in this project.)	**The Japanese Side** **<Long-Term Expert>** • Chief Advisor (Integrated Water Resource Management) • Technical Experts (Water Allocation) (Operation and Maintenance) • Project Coordinator (Capacity Development) (Structural Management for CD) (Coordination) **<Short-Term Expert>** JICA will dispatch short-term experts in the necessary fields for the Project. For example; • River Management (including Low Water Management) • Flood and Drought Management • Water Environment (including Water Quality Management, Sedimentation Management) • Technical Materials Improvement • Irrigation Water Management • Financial and Budget Management • Stakeholder Coordination • Organization Structure Analysis and Enhancement <C/P Training in Japan> JICA will receive the Indonesian personnel connected with the Project for	**The Indonesian Side** **<Counterpart Staff>** • Project Supervisor (Director General for Water Resources, Director General for Spatial Planning, and Director General for Research and Development Agency) • Project Director (Director, DWRM as the director for overall responsibility, and Director of `PUSAIR) • Project Manager (Head of Sub-directorate for Water Resources Institution, DWRM, DGWR and Head of Experimental Station for River (Balai Sungai) (for technical resources), PUSAIR, RDA) • Project Implementation Unit (PIU) Chairperson: Head, Sub-directorate for Water Resources Institution, DWRM, DGWR) Vice Chairperson: - a representative of PUSAIR - a representative of Education and Training Center, Secretary General - a representative of CRBOM **<Cost for RBO Training/Monitoring and Evaluation>** The budget necessary for operating the project shall be allocated by the Indonesian side to ensure effective implementation of the Project.	<Preconditions> PIU members are formally appointed in PU, before commencement of the project. <Issues and countermeasures>

2. Capacity Development Framework (CDF) for RBO, including organizational structure, stakeholder's responsibilities and training framework, is developed and operated 2-1. Review the existing CD mechanisms and activities by the key players (DGWR, PUSAIR, CRBOM, PUSDIKLAT), including the Capacity Development System established by the RBO I project. 2-2. Develop formal and practical CDF to supervise CD activities*, clarifying organizational structure, related players' (DGWR, PUSAIR, CRBOM and PUSDIKLAT) responsibilities and training framework for RBO staff on the basis of the related regulations. (* CD activity includes (1) CD planning [Plan], (2) implementation of CD plans [Do], (3) CD performance evaluation, RBOs capacity assessment [Check], and (4) improvement of CD plans and training resources such as training material and trainers [Action].) 2-3. Make and carry out short- and mid-term plans of CD activities for RBOs across the country under CDF, considering the progress of the field practice. (mid-term CD plan includes progressive trainer certification program) 2-4. Establish regular coordination committee to supervise the PDCA cycle of CD activities and coordinate the needs of RBOs on CD. 2-5. Evaluate the capacity of RBOs periodically and improve the benchmarking mechanism, considering the method of existing benchmarking mechanism for RBOs and the outputs of 1-1 and 1-2. 2-6. Supervise the trainings for RBOs based on the CD plan, and support the trainings operated by relevant organizations in coordination with long-term and short-term experts. 2-7. Inspect the performance of CD activities for RBOs and reflect its result into the revised CD plans and the CD resources including the technical guidelines/manuals and the training materials.	technical training in Japan. < Equipment> JICA will provide such machinery, equipment and other materials (hereinafter referred to as "the Equipment") necessary for the implementation of the Project.	**<Project Office/Office equipment>** Project offices, desks and chairs shall be provided by the Indonesian side **<Local Cost>** • Utilities, Telephone, Fax, etc.	
3. Accessibility to and reliability of the CD resources, including technical standard, guidelines and manuals for IWRM, are improved 3-1. Make an inventory of the CD resources (e.g. existing guidelines, draft guidelines, manuals, training/ dissemination materials, and trainers). 3-2. Implement a PDCA cycle mechanism to improve the reliability of the CD resources, utilizing CDF and the output of the field practices 3-3. Improve the existing dissemination mechanism for RBO staff which needs easy accesses to the existing materials and information, in order to ensure effectiveness, efficiency and sustainability of CD activities. 3-4. Conduct workshops and seminars to promote and facilitate more frequent, effective and efficient use of CD resources. 3-5. Support the relevant organizations in improving reliability of their CD resources			

Annex I Project Design Matrix (PDM)

Project Title: The Project on Capacity Development for River Basin Organizations in Integrated Water Resources Management in the Republic of Indonesia (Phase II)
Implementing Agency: Directorate General of Water Resources (DGWR), Human Resource Development Agency (HRDA) and Research and Development Agency (RDA)
Project Sites: Jakarta (Secretariat of Project Implementation Unit, DGWR, PU), Bandung (PUSAIR), Solo (Balai Sungai and CRBOM), Field practice sites (BBWS Ciliwung Cisadane and BWS Sulawesi I)
Target Group: Staff members of PIU, DGWR/DWRM, PUSAIR/Balai Sungai, CRBOM, and RBOs of the Field practice sites
Indirect Beneficiaries: RBOs under the central government, HRDA / PUSDIKLAT
Duration of the project: 4 years from January 2015

As of: 12 April 2017 (Ver. 2.0)

Narrative Summary	Verifiable Indicators	Means of Verification	Important Assumptions	Achievement	Remarks
Super Goal The Integrated Water Resources Management (IWRM) is implemented effectively, efficiently and sustainably in all river basins of Indonesia.					
Overall Goal The capacity of RBOs on IWRM is continuously enhanced through the existing Capacity Development Framework (CDF).	1. Number of capacity development activities to RBOs per year 2. Benchmarking Score (continuously improved)	1. Record of trainings/Periodical report of PIU 2. Benchmark Report			
Project Purpose The capacity of RBOs on IWRM is improved through the upgraded mechanism of the capacity development activities for RBOs.	1. Number of capacity development activities to RBOs per year. 2. Benchmarking Score	1. Record of trainings/Periodical report of PIU 2. Benchmarking Report	GOI policy on integrated water resources management continues to attach importance to IWRM and RBOs. The Strategy for Capacity Building on Water Resources Management is stipulated and managed by PU Rules and regulations stipulated by other ministries don't come into conflict with the activities on IWRM.		
Outputs 1. Integrated water resources management capacity of RBOs in field practice(FP) sites is improved	1-1 Participating rate for trainings at the FP sites 1-2 Number of field trainings at the FP sites 1-3 Score of RBO benchmarking at the FP sites	1-1. Record of trainings 1-2. Record of trainings 1-3. Benchmarking study			
2. Capacity Development Framework (CDF) for RBO, including organizational structure, stakeholder's responsibilities and training framework, is operated	2-1. Number of good practices and lessons learned applied to CDF through the project 2-2. Number of CD activities jointly implemented in accordance with Annual CD activity plan in PU 2-3. Recommendation to next Mid-term plans of CD in PU 2-4. Number of the Project Implementation Unit Meeting held	2-1. Questionnaire / Site survey to RBOs. Revised CD materials 2-2. Annual Work Plan of PU 2-3. Approved plans in PU 2-4. Record of PIU Meeting			
3. Reliability of CD resources (training materials) for IWRM is improved	3-1. Number of workshops and seminars conducted 3-2. Number of CD resources revised	3-1. Minutes of meeting of PIU 3-2. Minutes of meeting of PIU			

Activities	Inputs		
1. Integrated water resources management capacity of RBOs in field practice sites is improved 1-1. Analyse and break down the expected RBO's functions and roles into daily work activities. 1-2. Identify current functions and roles, and the actual daily work activities of several RBOs, and sort out the activities to be strengthened by comparing the actual activities with the ideal functions and roles mentioned above in 1-1. 1-3. Identify priority issues, which are necessary to be tackled with stakeholders as common and important targets, in the selected RBOs as pilot fields 1-4. Identify concrete work activities to tackle the priority issues recognized in "1-3", and area of the capacity development necessary for those work activities in the selected RBOs. (* "Capacity Development (CD)" means Capacity development which aims enhancement of the capacity of RBOs considering the viewpoint of a) capacity of individuals, b) capacity of organization (e.g. Job quality management, decision making, etc) , and c) institution and society, as mentioned in the JICA CD handbook.) 1-5. Make short- and middle- term CD plans to accomplish the capacity development recognized in "1-4" in the selected RBOs. 1-6. Carry out the capacity development activities* based on the CD plans and the work activities for the priority issues, in the selected RBOs. 1-7. Evaluate regularly the capacity of the RBOs through the progress on implementation of CD plans including the trainings, and the daily work activities to the priority issues, by various methods such as interviews to the staff, existing RBO benchmarking indicators and job assessment. 1-8. Consolidate good or bad practices, lessons and challenges learnt through the field practices, based on the output of "1-7". 1-9. Improve the each CD plans, considering the output of 1-8, and carry out the revised plans in the selected RBOs. (The activities from "1-3" to "1-9" are called as "Field Practice" in this project.)	**The Japanese Side** **<Long-Term Expert>** • Chief Advisor (Integrated Water Resource Management) • Technical Experts (Water Allocation) (Operation and Maintenance) • Project Coordinator (Capacity Development) (Structural Management for CD) (Coordination) **<Short-Term Expert>** JICA will dispatch short-term experts in the necessary fields for the Project. For example; • River Management (including Low Water Management) • Flood and Drought Management • Water Environment (including Water Quality Management, Sedimentation Management) • Technical Materials Improvement • Irrigation Water Management • Financial Management • Stakeholder Coordination • Organization Structure Analysis and Enhancement <C/P Training in Japan> JICA will receive the Indonesian personnel connected with the Project for technical training in Japan. < Equipment> JICA will provide such machinery, equipment and other materials (hereinafter referred to as "the	**The Indonesian Side** **<Counterpart Staff>** • Project Supervisor (Director General for Water Resources, Director General of Human Resources Development Agency (HRDA), and Director General for Research and Development Agency) • Project Director (Director, DWRM as the director for overall responsibility, and Director of `PUSAIR, Head, Water Resources and Construction Education and Training Center, HRDA) • Project Manager (Head of Sub-directorate for Water Resources Institution, DWRM, DGWR, Head of Experimental Station for River (Balai Sungai) (for technical resources), PUSAIR, RDA, and Head, Sub-directorate for Hydrology and Water Quality, DWRM, DGWR) • Project Implementation Unit (PIU) Chairperson: Head, Sub-directorate for Water Resources Institution, DWRM, DGWR) Vice Chairperson: - a representative of PUSAIR - a representative of Water Resources and Construction Education and Training Center, HRDA - a representative of CRBOM **<Cost for RBO Training/Monitoring and Evaluation>** The budget necessary for operating the project shall be allocated by the Indonesian side to ensure effective implementation of the Project.	<Preconditions> PIU members are formally appointed in PU, before commencement of the project. <Issues and countermeasures>
2. Capacity Development Framework (CDF) for RBO, including organizational structure, stakeholder's responsibilities and training framework, is operated 2-1. Review the existing CDF and activities by the key players (DGWR, PUSAIR, CRBOM, PUSDIKLAT).			

2-2. Carry out CD activities* along with short- and mid-term plans of for RBOs across the country under CDF. (* CD activity includes (1) CD planning [Plan], (2) implementation of CD plans [Do], (3) CD performance evaluation, RBOs capacity assessment [Check], and (4) improvement of CD plans and training resources such as training material and trainers [Action].) 2-3. Establish Project Implementation Unit (PIU) to supervise the PDCA cycle of CD activities and coordinate the needs of RBOs on CD. 2-4. Evaluate the capacity of RBOs periodically and improve the benchmarking mechanism, considering the method of existing benchmarking mechanism for RBOs and the outputs of 1-1 and 1-2, if necessary. 2-5. Inspect the performance of CD activities for RBOs and reflect its result into the revised CD plans and the CD resources including the training materials and trainers.	Equipment") necessary for the implementation of the Project.	**<Project Office/Office equipment>** Project offices, desks and chairs shall be provided by the Indonesian side **<Local Cost>** • Utilities, Telephone, Fax, etc.	
3. Reliability of the CD resources (training materials) for IWRM is improved 3-1. Make an inventory of the CD resources (e.g. training/ dissemination materials, and trainers). 3-2. Implement a PDCA cycle mechanism to improve the reliability of the CD resources, utilizing CDF and the output of the CD activities. 3-3. Conduct workshops and seminars to promote and facilitate more effective and efficient use of CD resources.			

ANNEX 4

R/D, M/M, Minutes of JCC

RECORD OF DISCUSSIONS
ON
JAPANESE TECHNICAL COOPERATION
FOR
THE PROJECT
ON
CAPACITY DEVELOPMENT FOR RIVER BASIN ORGANIZATIONS
IN INTEGRATED WATER RESOURCES MANAGEMENT
IN
THE REPUBLIC OF INDONESIA
(PHASE II)
AGREED UPON BETWEEN
MINISTRY OF PUBLIC WORKS
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

Jakarta, 13 May 2014

SASAKI Atsushi
Chief Representative,
JICA Indonesia Office
Japan International Cooperation Agency

Mohamad Hasan
Director General for Water Resources
Ministry of Public Works

Waskito Pandu
Director General for
Research and Development Agency
Ministry of Public Works

ATTACHED DOCUMENT

Based on the minutes of meetings on the Detailed Planning Survey on the Project on Capacity Development for River Basin Organizations in Integrated Water Resources Management in the Republic of Indonesia (Phase II), (hereinafter referred to as "the Project") signed on the 6th of March, 2014 between the Ministry of Public Works of the Government of the Republic of Indonesia (hereinafter referred to as "PU") and the Japan International Cooperation Agency (hereinafter referred to as "JICA"), JICA held a series of discussions with PU and relevant organizations to develop a detailed plan of the Project.

Both parties agreed the details of the Project and the main points discussed as described in the Appendix 1 and Appendix 2 respectively.

Both parties also agreed that PU, the counterpart to JICA, will be responsible for the implementation of the Project in cooperation with JICA, coordinate with other relevant organizations and ensure that the self-reliant operation of the Project is sustained during and after the implementation period in order to contribute toward social and economic development of the Republic of Indonesia.

The Project will be implemented within the framework of the Colombo Plan Technical Cooperation Scheme and the Note Verbales to be exchanged between the Government of Japan (hereinafter referred to as "GOJ") and the Government of the Republic of Indonesia (hereinafter referred to as "GOI").

Appendix 1: Project Description

Appendix 2: Main Points Discussed

Appendix 3: Minutes of Meetings on the Detailed Planning Survey

PROJECT DESCRIPTION

Both parties confirmed that there is no change in the Project Description agreed on in the minutes of meetings on the concerning Preparatory Survey on the Project signed on the 6th of March 2014 (Appendix 3).

I. BACKGROUND

The Republic of Indonesia (hereinafter referred to as "Indonesia") faced with water shortage in rural and urban areas as well as issues of flood and water quality deterioration due to delay in its water resource management. In response to needs of dealing with these issues comprehensively in each river basin, the GOI established the Water Resources Law No.7 in 2004. The Ministry of Public Works (PU), a governmental body for river basin management, was then required to shift its focus of works from construction of river facilities to operation and management of the facilities, coordination of interests in use and distribution of water, water quality conservation, and response to issues in flood control. To promote integrated water resource management corresponding to these works, the river basin organizations (hereinafter referred to as "RBO") have been established in river basins under the Directorate General of Water Resources (hereinafter referred to as "DGWR"), PU. In 2006, 31 RBOs were established in important basins and their activity has been started from 2007. As JICA has been implementing loan aid projects, such as the "Lower Solo River Improvement Project" (2005-2014), the "Integrated Water Resources and Flood Management Project for Semarang" (2006-2013), and the "Upper Citarum Basin Flood Management Sector Loan" (2013-2016), strengthening the capacity of RBOs is also important in terms of realizing effects of the past projects and improving management systems. However, lack of capacity of human resources and institutions has made it difficult for RBO to play its role sufficiently; thus, strengthening capacity of RBOs personnel and organizational functions has become issues to be addressed immediately. Therefore, PU drafted a plan for establishing the Dissemination Unit for Water Resources Management and Technology (hereinafter referred to as "DUWRMT") in the Research Center for Water Resources (hereinafter referred to as "PUSAIR) under the Research and Development Agency (hereinafter referred to as "RDA") and strengthening RBO's practical capacity for water resource management in collaboration with the Directorate of Water Resources Management (hereinafter referred to as "DWRM"). JICA received the request from the Indonesian government and

implemented the "Project on Capacity Development for RBOs in Practical Water Resources Management and Technology" (2008-2011) (hereinafter referred to as "Project Phase I"), a technical cooperation project supporting establishment of the DUWRMT.

While activities of the Project Phase I resulted in establishment of a system that the DUWRMT strengthens practical capacity of the RBOs, the project outcome has not been disseminated enough yet. Moreover, the government of Indonesia, with the Water Resources Management Coordination Team (hereinafter referred to as "TKPSDA") as the central actor, is currently formulating the "Water Resources Management Strategic Plan" (hereinafter referred to as "POLA") for each basin, which will be guidelines for river basin management by 2015, and the "Water Resources Management Implementation Plan" (hereinafter referred to as "RENCANA") to realize the POLA. In order to support the formulation of these Water Resources Management Plans for all basins as well as day-to-day activities for TKPSDA etc., RBOs are required to introduce hydrological observation facility and relevant equipment, strengthen its personnel's capacity for analyzing hydrological data and compiling various stakeholders' opinions, and improve systems such as standard work manuals to carry out administrative procedures in efficient and accurate manner except for some other advanced basins such as Brantas. In addition, because the Indonesian government has resumed its personnel employment around three years ago, the number of mature personnel is decreasing sharply for their retirement while the number of mid- and junior level engineers is limited. This has resulted in a major issue of organizational management that the PU has to cope with.

In such circumstances, the PU requested GOJ for a technical cooperation for the "Project on Capacity Development for RBOs in Practical Water Resources Management and Technology Phase II" with the aims of improving practical technical and management capacity of the RBOs.

The PU is formulating the Strategy for Capacity Development on Water Resources Management to strengthen capacity of personnel and organizational functions in charge of water resource management and aiming for its approval by the minister. The PU will promote strengthening of capacity of the personnel and organizational functions through implementation of training courses based on the strategy. However, it has not yet decided specifically how to promote the capacity development. Consequently, the request of technical cooperation to the Government of Japan includes establishment of a mechanism for strengthening of capacity in a functional manner.

II. OUTLINE OF THE PROJECT

Details of the Project are described in the Project Design Matrix (hereinafter referred to as "PDM") in Annex I and tentative Plan of Operation in Annex II. Other items are as follows,

1. Implementation Structure

The Project organization chart is given in the Annex III. The roles and assignments of relevant organizations are as follows:

(1) Administration of the Project

Structure	Function	Member
Project Supervisor	Project supervisors will bear overall supervision of the Project	- Director General for Water Resources - Director General for Research and Development Agency - Director General for Spatial Planning
Project Director	Project Director will bear responsibility for the administration and implementation of the Project.	- Director, Directorate of Water Resources Management, DGWR (for overall responsibility) - Director, Research Center for Water Resources, RDA
Project Manager	Project Manager will be responsible for the managerial and technical matters of the Project.	- Head, Sub-directorate for Water Resources Institution, DWRM, DGWR - Head, Experimental Station for River (Balai Sungai), PUSAIR, RDA (for technical resources)
Project Implementation Unit (hereinafter referred to as "PIU")	Project Implementation Unit (PIU) is a counterpart team to deal with day-to-day project activities, to direct RBOs and other stakeholders in PU, and to give technical resources and advices to the Project activities.	1) Chairperson: Head, Sub-directorate for Water Resources Institution, DWRM, DGWR 2) Vice Chairperson: - a representative of PUSAIR - a representative of Education and Training Center, Secretary General - a representative of Center for River Basin Organization and Management (hereinafter referred to as "CRBOM") 3) Members*: - representatives of stakeholders in PU * to be appointed by Project Director 4) PIU Secretariat: * to be appointed by Chairperson of PIU

(2) JICA Experts

The JICA experts will give necessary technical guidance, advice and recommendations to PU on any matters pertaining to the implementation of the Project.

(3) Joint Coordinating Committee

Joint Coordinating Committee (hereinafter referred to as "JCC") will be established in order to facilitate inter-organizational coordination. JCC will be held at least once a year and whenever deems it necessary. JCC will approve an annual work plan, review overall progress, conduct evaluation of the Project, and exchange opinions or major issues that arise during the implementation of the Project. A list of proposed members of JCC is shown in the Annex IV.

(4) Regular Meeting

A Regular Meeting will be called at operational level. The meeting will monitor and coordinate daily activities (progress) of the Project, and will be held at least quarterly and whenever deems it necessary. A list of proposed members of RM is shown in the Annex V.

2. Project Site(s) and Beneficiaries

The Project sites and beneficiaries are as follows,

(1) Project sites: Jakarta (Secretariat of PIU, DGWR, PU), Bandung (PUSAIR), Solo (Balai Sungai and CRBOM), Field Practice sites (BBWS Ciliwung Cisadane and BWS Sulawesi I)

(2) Beneficiaries: Staff members of Project Implementation Unit, DGWR, PUSAIR, CRBOM, and RBOs of the field practice sites.

(3) Indirect Beneficiaries: RBOs under the central government and PUSDIKLAT.

3. Duration

The duration of the Project will be four (4) years from the date of dispatch of JICA expert of the Project.

4. Reports

PU and JICA experts will jointly prepare the following reports in English.

(1) Monitoring Sheet on semiannual basis until the project completion

(2) Project Completion Report at the time of project completion

5. Environmental and Social Considerations

PU agreed to abide by 'JICA Guidelines for Environmental and Social Considerations' in order to ensure that appropriate considerations will be made for the environmental and social impacts of the Project.

III. UNDERTAKINGS OF PU AND GOI

1. PU and GOI will take necessary measures to:

(1) ensure that the technologies and knowledge acquired by the Indonesia nationals as a result of Japanese technical cooperation contributes to the economic and social development of Indonesia, and that the knowledge and experience acquired by the personnel of Indonesia from technical training as well as the equipment provided by JICA will be utilized effectively in the implementation of the Project; and

(2) grant privileges, exemptions and benefits to the JICA experts referred to in II-1 (2) above and their families, which are no less favorable than those granted to experts of third countries performing similar missions in Indonesia under the Colombo Plan Technical Cooperation Scheme.

2. PU and GOI will take necessary measures to:

(1) provide security-related information as well as measures to ensure the safety of the JICA experts; and

(2) permit the JICA experts to enter, leave and sojourn in Indonesia for the duration of their assignments therein and exempt them from foreign registration requirements and consular fees.

3. Other privileges, exemptions and benefits will be provided in accordance with Note Verbales exchanged between the GOJ and the GOI.

IV. MONITORING AND EVALUATION

JICA and PU will jointly and regularly monitor the progress of the Project through the Monitoring Sheets as attached in the annex VI based on the Project Design Matrix (PDM) and Plan of Operation (PO). The Monitoring Sheets shall be reviewed every six (6) months.

Also, Project Completion Report shall be drawn up one (1) month before the termination of the Project.

V. PROMOTION OF PUBLIC SUPPORT

For the purpose of promoting support for the Project, PU will take appropriate measures to make the Project widely known to the people of Indonesia

VI. MUTUAL CONSULTATION

JICA and PU will consult each other whenever any major issues arise in the course of Project implementation.

VII. AMENDMENTS

The record of discussions may be amended by the minutes of meetings between JICA and PU.

The minutes of meetings will be signed by authorized persons of each side who may be different from the signers of the record of discussions.

List of Annex

Annex I	Logical Framework (Project Design Matrix: PDM)
Annex II	Tentative Plan of Operation
Annex III	Project Organization Chart
Annex IV	A List of Proposed Members of Joint Coordinating Committee/
Annex V	A List of Proposed Members of Regular Meeting
Annex VI	Project Monitoring Sheet

Annex I Project Design Matrix (PDM)

Project Title: The Project on Capacity Development for River Basin Organizations in Integrated Water Resources Management in the Republic of Indonesia (Phase II)
Implementing Agency: Directorate General of Water Resources (DGWR), and Research and Development Agency (RDA),
Project Sites: Jakarta (Secretariat of Project Implementation Unit, DGWR, PU), Bandung (PUSAIR), Solo (Balai Sungai and CRBOM), Field practice sites (BBWS Ciliwung Cisadane and BWS Sulawesi I)
Target Group: Staff members of PIU, DGWR/DWRM, PUSAIR/Balai Sungai, CRBOM, and RBOs of the Field practice sites
Indirect Beneficiaries: RBOs under the central government, PUSDIKLAT
Duration of the project: 4 years from 2014

As of: ** April 2014 (Ver. 1.0)

Narrative Summary	Verifiable Indicators	Means of Verification	Important Assumptions	Achievement	Remarks
Super Goal The Integrated Water Resources Management (IWRM) is implemented effectively, efficiently and sustainably in all river basins of Indonesia.					
Overall Goal The capacity of RBOs on IWRM is continuously enhanced through the developed Capacity Development Framework (CDF).	1. Benchmarking Score (continuously improved) 2. Amount of the budget for the activities	1. Benchmark Report 2. Budgetary Note			
Project Purpose The capacity of RBOs on IWRM is improved through the upgraded mechanism of the capacity development activities for RBOs.	1. Number of capacity development activities (trainings and counselling) to RBOs per year. 2. Benchmarking Score	1. Record of trainings/Periodical report of PIU 2. Benchmarking Report	GOI policy on integrated water resources management continues to attach importance to IWRM and RBOs. The Strategy for Capacity Building on Water Resources Management is stipulated and managed by PU Rules and regulations stipulated by other ministries don't come into conflict with the activities on IWRM.		
Outputs 1. Integrated water resources management capacity of RBOs in field practice(FP) sites is improved	1-1 Participating rate for trainings at the FP sites 1-2 Number of field trainings at the FP sites 1-3 Score of RBO benchmarking at the FP sites	1-1. Record of trainings 1-2. Record of trainings 1-3. Benchmarking study			
2. Capacity Development Framework (CDF) for RBO, including organizational structure, stakeholder's responsibilities and training framework, is developed and operated	2-1. Number of good practices and lessons learned applied to CDF through the project per year 2-2. Consolidated CDF document 2-3. Annual CD activity plan including the budget in PU 2-4. CD activities plans including the budget developed in RBOs 2-5. Mid- and long-term plans of CD in PU 2-6. Number of the Regular Meeting held	2-1. Questionnaire / Site survey to RBOs., Study on Revised CD materials 2-2. Approved CDF document of PU 2-3. Annual Work Plan of PU 2-4. Annual Work Plan of RBOs 2-5. Approved plans in PU 2-6. Record of Regular Meeting			
3. Accessibility to and reliability of the CD resources, including technical standard, guidelines and manuals for IWRM, are improved	3-1. Number of CD resources prepared, disseminated, and accessed through different means of communication 3-2. Inventory system of the CD resources 3-3. Number of workshops and seminars conducted 3-4. Number of CD training courses conducted 3-5. Number of documents (textbooks, manuals and	3-1. Inventory of CD resources and Records of accesses and downloads 3-2. Study on the inventory system 3-3. Periodical report of PIU			

	guidelines) revised per year	3-4. Training report 3-5. Periodical report of PIU (Project Implementation Unit)			

Activities	Inputs		
1, Integrated water resources management capacity of RBOs in field practice sites is improved 1-1. Analyse and break down the expected RBO's functions and roles into daily work activities. 1-2. Identify current functions and roles, and the actual daily work activities of several RBOs, and sort out the activities to be strengthened by comparing the actual activities with the ideal functions and roles mentioned above in 1-1. 1-3. Identify priority issues, which are necessary to be tackled with stakeholders as common and important targets, in the selected RBOs as pilot fields 1-4. Identify concrete work activities to tackle the priority issues recognized in "1-3", and area of the capacity development necessary for those work activities in the selected RBOs. (* "Capacity Development (CD)" means Capacity development which aims enhancement of the capacity of RBOs considering the viewpoint of a) capacity of individuals, b) capacity of organization (e.g. Job quality management, decision making, etc) , and c) institution and society, as mentioned in the JICA CD handbook.) 1-5. Make short- and middle- term CD plans to accomplish the capacity development recognized in "1-4" in the selected RBOs. 1-6. Carry out the capacity development activities* based on the CD plans and the work activities for the priority issues, in the selected RBOs. 1-7. Evaluate regularly the capacity of the RBOs through the progress on implementation of CD plans including the trainings, and the daily work activities to the priority issues, by various methods such as interviews to the staff, existing RBO benchmarking indicators and job assessment. 1-8. Consolidate good or bad practices, lessons and challenges learnt through the field practices, based on the output of "1-7". 1-9. Improve the each CD plans, considering the output of 1-8, and carry out the revised plans in the selected RBOs. (The activities from "1-3" to "1-9" are called as "Field Practice" in this project.)	**The Japanese Side** **<Long-Term Expert>** • Chief Advisor (Integrated Water Resource Management) • Technical Experts (Water Allocation) (Operation and Maintenance) • Project Coordinator (Capacity Development) (Structural Management for CD) (Coordination) **<Short-Term Expert>** JICA will dispatch short-term experts in the necessary fields for the Project. For example; • River Management (including Low Water Management) • Flood and Drought Management • Water Environment (including Water Quality Management, Sedimentation Management) • Technical Materials Improvement • Irrigation Water Management • Financial and Budget Management • Stakeholder Coordination • Organization Structure Analysis and Enhancement <C/P Training in Japan> JICA will receive the Indonesian personnel connected with the Project for	**The Indonesian Side** **<Counterpart Staff>** • Project Supervisor (Director General for Water Resources, Director General for Spatial Planning, and Director General for Research and Development Agency) • Project Director (Director, DWRM as the director for overall responsibility, and Director of `PUSAIR) • Project Manager (Head of Sub-directorate for Water Resources Institution, DWRM, DGWR and Head of Experimental Station for River (Balai Sungai) (for technical resources), PUSAIR, RDA) • Project Implementation Unit (PIU) Chairperson: Head, Sub-directorate for Water Resources Institution, DWRM, DGWR) Vice Chairperson: - a representative of PUSAIR - a representative of Education and Training Center, Secretary General - a representative of CRBOM **<Cost for RBO Training/Monitoring and Evaluation>** The budget necessary for operating the project shall be allocated by the Indonesian side to ensure effective implementation of the Project.	<Preconditions> PIU members are formally appointed in PU, before commencement of the project. <Issues and countermeasures>

A4-12

2. Capacity Development Framework (CDF) for RBO, including organizational structure, stakeholder's responsibilities and training framework, is developed and operated 2-1. Review the existing CD mechanisms and activities by the key players (DGWR, PUSAIR, CRBOM, PUSDIKLAT), including the Capacity Development System established by the RBO I project. 2-2. Develop formal and practical CDF to supervise CD activities*, clarifying organizational structure, related players' (DGWR, PUSAIR, CRBOM and PUSDIKLAT) responsibilities and training framework for RBO staff on the basis of the related regulations. (* CD activity includes (1) CD planning [Plan], (2) implementation of CD plans [Do], (3) CD performance evaluation, RBOs capacity assessment [Check], and (4) improvement of CD plans and training resources such as training material and trainers [Action].) 2-3. Make and carry out short- and mid-term plans of CD activities for RBOs across the country under CDF, considering the progress of the field practice. (mid-term CD plan includes progressive trainer certification program) 2-4. Establish regular coordination committee to supervise the PDCA cycle of CD activities and coordinate the needs of RBOs on CD. 2-5. Evaluate the capacity of RBOs periodically and improve the benchmarking mechanism, considering the method of existing benchmarking mechanism for RBOs and the outputs of 1-1 and 1-2. 2-6. Supervise the trainings for RBOs based on the CD plan, and support the trainings operated by relevant organizations in coordination with long-term and short-term experts. 2-7. Inspect the performance of CD activities for RBOs and reflect its result into the revised CD plans and the CD resources including the technical guidelines/manuals and the training materials.	technical training in Japan. < Equipment> JICA will provide such machinery, equipment and other materials (hereinafter referred to as "the Equipment") necessary for the implementation of the Project.	**<Project Office/Office equipment>** Project offices, desks and chairs shall be provided by the Indonesian side **<Local Cost>** • Utilities, Telephone, Fax, etc.	
3. Accessibility to and reliability of the CD resources, including technical standard, guidelines and manuals for IWRM, are improved 3-1. Make an inventory of the CD resources (e.g. existing guidelines, draft guidelines, manuals, training/ dissemination materials, and trainers). 3-2. Implement a PDCA cycle mechanism to improve the reliability of the CD resources, utilizing CDF and the output of the field practices 3-3. Improve the existing dissemination mechanism for RBO staff which needs easy accesses to the existing materials and information, in order to ensure effectiveness, efficiency and sustainability of CD activities. 3-4. Conduct workshops and seminars to promote and facilitate more frequent, effective and efficient use of CD resources. 3-5. Support the relevant organizations in improving reliability of their CD resources			

Annex II : Tentative Plan of Operation

as of 6 March 2014

		2014	2015	2016	2017	2018
Project Management	Workplan					
	Joint Coordinating Committee					
	Regular Meetings (every 3 months)					
1 Integrated water resources management capacity of RBOs in field practice sites is improved.	1.1. Analyse and break down the expected RBO's functions and roles into daily work activities.					
	1.2. Identify current functions and roles, and the actual daily work activities of several RBOs, and sort out the activities to be strengthened by comparing the actual activities with the ideal functions and roles mentioned above in 1-1.					
	1.3. Identify priority issues, which are necessary to be tackled with stakeholders as common and important targets, in the selected RBOs as pilot fields.					
	1.4. Identify concrete work activities to tackle the priority issues recognized in " 1-3 " , and area of the capacity development necessary for those work activities in the selected RBOs.					
	1.5. Make short- and middle- term CD plans to accomplish the capacity development recognized in "1-4" in the selected RBOs.					
	1.6. Carry out the capacity development activities* based on the CD plans and the work activities for the priority issues, in the selected RBOs.					
	1.7. Evaluate regularly the capacity of the RBOs through the progress on implementation of CD plans including the trainings, and the daily work activities to the priority issues, by various methods such as interviews to the staff, existing RBO benchmarking indicators and job assessment.	Baseline Study				
	1-8. Consolidate good or bad practices, lessons and challenges learnt through the field practices, based on the output of "1-7".					
	1-9. Improve the each CD plans, considering the output of 1-8, and carry out the revised plans in the selected RBOs.					

* "Capacity Development (CD)" means Capacity development which aims enhancement of the capacity of RBOs considering the viewpoint of a) capacity of individuals, b) capacity of organization (e.g. Job quality management, decision making, etc) , and c) institution and society, as

(The activities from "1-3" to "1-9" are called as "Field Practice" in this project.)

		2014	2015	2016	2017	2018
2 Capacity Development Framework (CDF) for RBO, including organizational structure, stakeholder ' s responsibilities and training framework, is developed and operated.	2-1. Review the existing CD mechanisms and activities by the key players (DGWR, PUSAIR, CRBOM, PUSDIKLAT), including the Capacity Development System established by the RBO I project.					
	2-2. Develop formal and practical CDF to supervise CD activities*, clarifying organizational structure, related players ' (DGWR, PUSAIR, CRBOM and PUSDIKLAT) responsibilities and training framework for RBO staff on the basis of the related regulations.			* CD activity includes (1) CD planning [Plan], (2) implementation of CD plans [Do], (3) CD performance evaluation, RBOs capacity assessment [Check], and (4)		
	2-3. Make and carry out short- and mid-term plans of CD activities for RBOs across the country under CDF, considering the progress of the field practice. (mid-term CD plan includes progressive trainer certification program)			Planning	Implementation	
	2-4. Establish regular coordination committee to supervise the PDCA cycle of CD activities and coordinate the needs of RBOs on CD.					
	2-5. Evaluate the capacity of RBOs periodically and improve the benchmarking mechanism, considering the method of existing benchmarking mechanism for RBOs and the outputs of 1-1 and 1-2.	Baseline Study	Experimental period			
	2-6. Supervise the trainings for RBOs based on the CD plan, and support the trainings operated by relevant organizations in coordination with long-term and short-term experts.					
	2-7. Inspect the performance of CD activities for RBOs and reflect its result into the revised CD plans and the CD resources including the technical guidelines/manuals and the training materials.					
3 Accessibility to and reliability of the CD resources, including technical standard, guidelines and manuals for IWRM, are improved.	3-1. Make an inventory of the CD resources (e.g. existing guidelines, draft guidelines, manuals, training/ dissemination materials, and trainers).					
	3-2. Implement a PDCA cycle mechanism to improve the reliability of the CD resources, utilizing CDF and the output of the field practices.					
	3-3. Improve the existing dissemination mechanism for RBO staff which needs easy accesses to the existing materials and information, in order to ensure effectiveness, efficiency and sustainability of CD activities.					
	3-4. Conduct workshops and seminars to promote and facilitate more frequent, effective and efficient use of CD resources.					
	3-5. Support the relevant organizations in improving reliability of their CD resources.					

Project Organization Chart

Annex III

Annex IV

Joint Coordinating Committee

1. Function

The Joint Coordinating Committee (hereinafter referred to as "JCC") will meet when necessary and at least once a year in order to fulfill the following functions:

1) To formulate the annual work plan of the Project and to coordinate and monitor the overall progress of the Project based on the regular monitoring sheet and the plan of operation of the Project in line with the Project Design Matrix;
2) To review the result of the annual work plan and to evaluate the progress of the Project based on the regular monitoring sheet;
3) To show solutions against challenges which may be found in JCC;
4) To direct relevant organizations;
5) To review and exchange views on major issues that may arise during the implementation of the Project; and
6) To discuss any other issue(s) pertinent to the smooth implementation of the Project.

2. Memberships

1) Chairperson:
   - Director General for Water Resources, Ministry of Public Works

2) Vice-Chairperson:
   - Director General for Research and Development Agency, Ministry of Public Works
   - Director General for Spatial Planning, Ministry of Public Works

3) Members of the Indonesian Side:
   (a) Secretary, Directorate General of Water Resources
   (b) Director, Directorate of Water Resources Management, Directorate General of Water Resources, Ministry of Public Works
   (c) Director, Research Center for Water Resources, Agency of Research and Development, Ministry of Public Works
   (d) Head, Education and Training Center, Ministry of Public Works
   (e) Head of the selected RBOs as the site manager of the field practices
   (f) Head, Sub-directorate for Water Resources Institution, Directorate of Water Resources Management, Directorate General of Water Resources
   (g) Head, Experimental Station for River (Balai Sungai), PUSAIR, RDA

4) Members of the Japanese Side:
   (a) JICA Experts
   (b) Chief Representative of JICA Indonesia Office
   (c) Mission members from JICA HDQs
   (d) Other personnel concerned, to be assigned by JICA, if necessary

5) Observers:
   (a) Officials of the Embassy of Japan in Indonesia
   (b) Other personnel invited by the Committee

Annex V

Regular Meeting

1. Function

A Regular Meeting will be called at operational level. The meeting will monitor and coordinate day-to-day activities (progress) of the Project, and will be held at least quarterly and whenever deems it necessary.

2. Memberships

1) Chairperson:
- Director, Directorate of Water Resources Management, Directorate General of Water Resources, Ministry of Public Works

2) Vice-Chairperson:
- Director, Research Center for Water Resources, Research and Development Agency, Ministry of Public Works
- Head, Education and Training Center, Ministry of Public Works

3) Members of the Indonesian Side:
(a) Key persons of DGWR, PUSAIR, CRBOM, and PUSDIKLAT (such as directors of DGWR)
(b) Heads of the selected RBOs as the site manager of the field practices
(c) Head, Sub-directorate for Water Resources Institution, DWRM, DGWR
(d) Head, Experimental Station for River (Balai Sungai), PUSAIR, RDA

4) Members of the Japanese Side:
(a) JICA Experts
(b) Other personnel concerned, to be assigned by JICA, if necessary

5) Observers from relevant organizations:
Other personnel called by the Chairperson

Annex VI

PROJECT MONITORING SHEET

Project Title : _____

Version of the Sheet: Ver.●● (Term: Month, Year - Month, Year)

Name: _____

Title: Chief Advisor

Submission Date: _____

I. Summary

1 Progress

1-1 Progress of Inputs
1-2 Progress of Activities
1-3 Achievement of Output
1-4 Achievement of the Project Purpose
1-5 Changes of Risks and Actions for Mitigation
1-6 Progress of Actions undertaken by JICA
1-7 Progress of Actions undertaken by Gov. of ●●
1-8 Progress of Environmental and Social Considerations (if applicable)
1-9 Progress of Considerations on Gender/Peace Building/Poverty Reduction (if applicable)
1-10 Other remarkable/considerable issues related/affect to the project (such as other JICA's projects, activities of counterparts, other donors, private sectors, NGOs etc.)

2 Delay of Work Schedule and/or Problems (if any)

2-1 Detail
2-2 Cause
2-3 Action to be taken
2-4 Roles of Responsible Persons/Organization (JICA, Gov. of●●,etc.)

3 Modification of the Project Implementation Plan

3-1 PO
3-2 Other modifications on detailed implementation plan
(Remarks: The amendment of R/D and PDM (title of the project, duration, project site(s), target group(s), implementation structure, overall goal, project purpose, outputs, activities, and input) should be authorized by JICA HDQs. If the project team deems it necessary to modify any part of R/D and PDM, the team may propose the draft.)

4 Preparation of Gov. of●● toward after completion of the Project

II. Project Monitoring Sheet I & II *as Attached*

Annex VI

Project Monitoring Sheet I (Revision of Project Design Matrix)

Project Title:

Implementing Agency:

Target Group:

Period of Project:

Project Site: **Model Site:**

Version

Dated ●●,●●,●●

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
Overall Goal					
Project Purpose					
Outputs					

Activities	Inputs		Pre-Conditions
	The Japanese Side	The Cuban Side	
			<Issues and countermesures>

Project Monitoring Sheet II (Revision of Plan of Operation)

Version ●
Dated ●●,●●,●●

Annex VI

Project Title:

																																											Monitoring	
Inputs	Plan	2011				2012				2013				2014				2015				20146				2017				2018				2019				2020				Remarks	Issue	Solution
	Actual	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV			
Expert																																												
	Plan																																											
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	Plan																																											
	Actual																																											
Training in Japan																																												
	Plan																																											
	Actual																																											
In-country/Third country Training																																												
	Plan																																											
	Actual																																											

Activities	Plan	2011				2012				2013				2014				2015				20146				2017				2018				2019				2020				Responsible Organization		Achievements	Issue & Countermeasures
Sub-Activities	Actual	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	Japan	GO●●		
Output 1:																																													
1.1	Plan																																												
	Actual																																												
1.2	Plan																																												
	Actual																																												
Output 2:																																													
2.1	Plan																																												
	Actual																																												
2.2	Plan																																												
	Actual																																												
Output 3: Capacity of UPPH in the collection and transportation of solid waste is strengthened																																													
3.1	Plan																																												
	Actual																																												
3.2	Plan																																												
	Actual																																												
Output 4:																																													
4.1	Plan																																												
	Actual																																												
4.2	Plan																																												
	Actual																																												
Duration / Phasing	Plan																																												
	Actual																																												

Monitoring Plan	Plan	2011				2012				2013				2014				2015				20140				2017				2018				2019				2020				Remarks	Issue	Solution
	Actual	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV			
Monitoring																																												
Joint Coordination Committee	Plan																																											
	Actual																																											
Set-up the Detailed Plan of Operation	Plan																																											
	Actual																																											
Submission of Monitoring Sheet	Plan																																											
	Actual																																											
Monitoring Mission from Japan	Plan																																											
	Actual																																											
Joint Monitoring	Plan																																											
	Actual																																											
Post Monitoring	Plan																																											
	Actual																																											
Reports/Documents																																												
	Plan																																											
	Actual																																											
Project Completion Report	Plan																																											
	Actual																																											
Public Relations																																												
	Plan																																											
	Actual																																											
	Plan																																											
	Actual																																											

MAIN POINTS DISCUSSED

1. Authorization of Output of Phase 1 Project

Ministry of Public Works explained that the ministry would further proceed authorization process of draft of the technical guidelines and manuals which had been prepared by the Capacity Development Project for River Basin Organizations in Practical Water Resources Management and Technology (Phase I), in order to further secure the sustainability of the Project.

2. BAST (Handover Delivery Certificate of goods/services)

Both sides confirmed that the project is categorized as "Goods / Services" stipulated in Article 42 (1) c of Government Regulation No. 10/2011.

In accordance with Regulation of Minister of Finance No. 191/ PMK.05 /2011, PU shall submit BAST (handover delivery certificate of goods/services) to the Ministry of Finance of Indonesia. In order to secure the accuracy of BAST, JICA Indonesia Office will provide PU with data on semester basis as follows.

-Goods: name and price (in effective currency) per item of equipment handed over during last six months

-Services: total expenditure (in Japanese currency) of last six months for expert, training, and mission

PU will make and sign BAST based on the data provided by JICA, and after obtaining JICA's confirmation, submit it to the Ministry of Finance.

END

MINUTES OF MEETING
BETWEEN
MINISTRY OF PUBLIC WORKS AND HOUSING
OF THE REPUBLIC OF INDONESIA
AND
JICA EXPERT TEAM
ON
THE FIRST JOINT COORDINATING COMMITTEE
ON
JAPANESE TECHNICAL COOPERATION
FOR
THE PROJECT
ON
CAPACITY DEVELOPMENT FOR RIVER BASIN ORGANIZATIONS IN INTEGRATED WATER RESOURCES MANAGEMENT
IN
THE REPUBLIC OF INDONESIA
(PHASE II)

Jakarta, 12th June, 2015

DR. Ir. Arie Setiadi Moerwanto, MSc
Head of Research and Development Agency, Ministry of Public Works and Housing
Director, Directorate of Water Resources Management, Directorate General of Water Resources,
Ministry of Public Works and Housing

Shoichi WATANABE
Chief Advisor of the Project
Capacity Development Project for RBOs in Integrated Water Resources Management in Indonesia (Phase 2)

Theme: The 1st Joint Coordinating Committee (JCC)

Date: 11th June, 2015

Time: 17:15 – 19:00

Place: 3rd Floor Meeting Room, Ministry of Public Works and Housing

Participants: See the Attachment 1

The first Joint Coordinating Committee (hereinafter referred to as "JCC") Meeting for "Capacity Development Project for RBOs in Integrated Water Resources Management in Indonesia (Phase 2)" (hereinafter referred to as "the Project") was held on 11th of June, 2015 from 17:15 to 19:00, at 3rd Floor Meeting Room, Ministry of Public Works and Housing in Jakarta to explain the project overview, the plan of operation including annual plan for 2015 and changes of the membership for administration of the Project including JCC and regular meeting. The JCC members and observers confirmed the following three points and approved them as mentioned below.

1. Project Overview

Mr. Shoichi WATANABE, Chief Advisor of the Projects, presented the project overview (Attachment 2) to depict the outline of the Project such as the necessity of the project, purpose of the project, the project outputs and the CD theme for this year. As a result, the contents and the theme of the CD activity 2015 were approved by the JCC member. It was also mentioned the importance of exchange of opinion with Human Resources Development Agency.

2. Plan of Operation

Mr. Hirohisa MIURA, Technical Expert of the Project, presented the Project's plan of operation (attachment 3). The JCC members approved the amendment of the plan of operation and annual plan for 2015. The major changes of the policies are conducting CD activities starting from this year, taking enough time for baseline study of Benchmarking mechanism and prioritizing the improvement of the accessibility of CD resources (attachment 4).

3. Changes of the Membership for Administration of the Project, JCC and Regular Meeting

Mr. Kazushi SUZUKI, Project Coordinator, reported the suggestion by the Project team

regarding changes of the membership for administration of the project including JCC (Attachment 5) and regular meeting (Attachment 6). It was mentioned that the job title in English should be confirmed after it was created, however, the suggestion were approved by the JCC members.

End of the Document

Agenda

1st Joint Coordinating Committee (JCC) Meeting

"Capacity Development Project for RBOs in Integrated Water Resources Management in Indonesia (Phase 2)"

Date: 16:00 – 18:00, June 11, 2015

Venue: 3rd Floor Meeting Room at Water Resources Building, PU

Chair Person: Director General for Research and Development Agency, Ministry of Public Works and Housing

Introduction	Dr. Ir. Arie Setiadi Moerwanto, M.Sc., Head of Research and Development Agency
Greeting – Indonesia Side (PU)	Dr. Ir. Arie Setiadi Moerwanto, M.Sc., Head of Research and Development Agency
Greeting – Japan Side (JICA)	Mr. Tetsuya Harada, Senior Representative, JICA Indonesia Office
Introduction of Participants	Indonesia Side: Dr. Ir. Arie Setiadi Moerwanto, M.Sc., Head of Research and Development Agency Japan Side: Mr. Shoichi Watanabe, Chief Advisor of the Projects
Project Overview	Mr. Shoichi Watanabe, Chief Advisor of the Project / Mr. Kazushi Suzuki, Project Coordinator
Plan of Operation in 2015	Mr. Shoichi Watanabe, Chief Advisor of the Project / Mr. Hirohisa Miura, Technical Expert of the Project
Discussion Session	Dr. Ir. Arie Setiadi Moerwanto, M.Sc., Head of Research and Development Agency
Closing Remarks	Dr. Ir. Arie Setiadi Moerwanto, M.Sc., Head of Research and Development Agency

1st Coordinating Committee (JCC) Meeting

"The Project of Capacity Development for RBOs in Integrated Water Resources Management in Indonesia (Phase II)"

ATTENDANCE LIST

Date: June 11, 2015

No.	Name	Institution	HP/Email	Signature
1.	ARIE SETIADI	Balitbang PUPR		
2.				
3.	SUPRAPTO	Kapus Air		
4.	ADI PRANUDYO	Kasubdi Kelembagaan		
5.	Rahmat S Lubis	Balai Sungai		
6.	A. Zubaidi	BBWS Ciliwung Cisadane		
7.	Zainal Arifin	BPSDM.		
8	IRWAN SYAFRI	BALAI SUNGAI		
9.	RHENY LONTOH	BWS Sulawesi 1		

1st Coordinating Committee (JCC) Meeting

"The Project of Capacity Development for RBOs in Integrated Water Resources Management in Indonesia (Phase II)"

10.	Bob - L	BWS Sulawesi I		
11.	EDDY KONDA	BWS Sulawesi I		
12.	Salmi	kclb		
13.	Shu NISHI	JICA Expert		
14.	Kazuhi Suzuki	project team		
15.	Jawadi Maubun	Ka. Balai Besar		
16.	Indah Salvia Amin	Kelembagaan		
17.				
18.				
19.				
20.				

Capacity Development Project for RBOs in Integrated Water Resources Management in Indonesia(Phase 2)

Duration: From Jan. 2015 to Jan. 2019

Why RBOs Project is Necessary

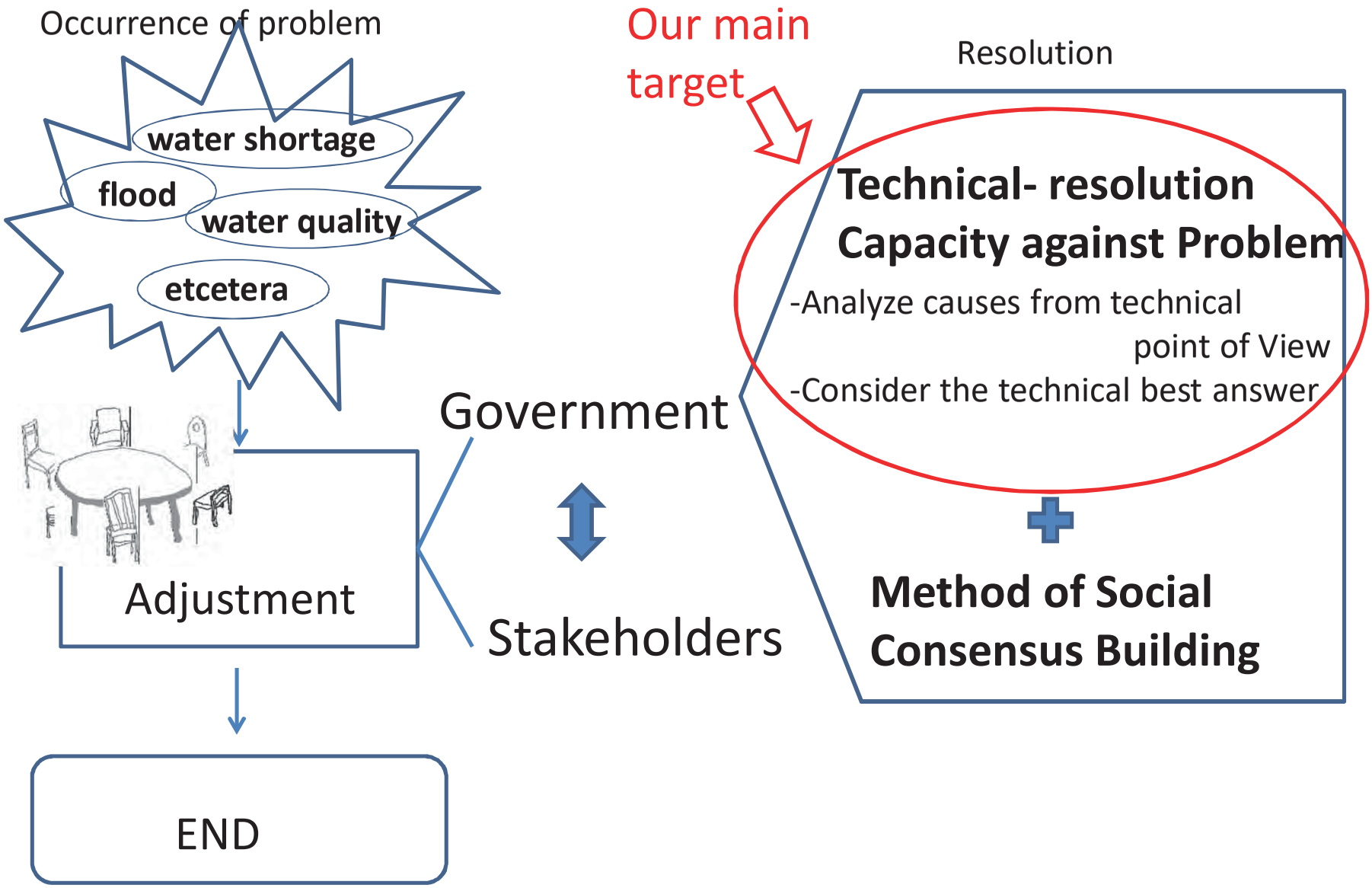
Background

- The Republic of Indonesia faces - *issues on water* water resources management, flood mitigation, water quality, appropriate facilities maintenance , etc.

- The number of *experienced personnel is declining nowadays*.

- So it has become essential *to strengthen capacity of RBOs, especially for young engineers.*

Why we need improving CD for RBOs



Purpose of Project

Super Goal	• The Integrated Water Resources Management (IWRM) is implemented effectively, efficiently and sustainably in all river basins of Indonesia.
Overall Goal	• The capacity of RBOs on IWRM is continuously enhanced through the developed Capacity Development Framework (CDF).
Project Purpose	• The capacity of RBOs on IWRM is improved through the upgraded mechanism of the capacity development activities for RBOs

Administration of Project

Project Supervisor	• Director General for Water Resources • Director General for Research and Development Agency • Director General for Human Resources Development Agency
Project Director	• Director, Directorate of Water Resources Management (for overall responsibility) • Head, Research Center for Water Resources • Head, Water Resources and Construction Education and Training Center
Project Manager	• Head, Sub-directorate for Hydrology and Water Quality • Head, Sub-directorate for Water Resources Institution • Head, Experimental Station for River (Balai Sungai)

Project Outputs

Output1: Related with FP sites
capacity of RBOs in field practice sites is improved

*FP site stands for Field Practice site
- BBWS Ciliwung Cisadane
- BWS Sulawesi I

-Identify priority issues and make CD activities such as trainings and workshops on the trial basis for expanding all RBOs

Output2: Related with All RBOs
Capacity Development Frame work for RBOs is developed and operated

-Develop CDF so that CD activities can be operated well.
-Conduct training for all RBOs
-Improve benchmarking mechanism

*CDF stands for Capacity Development Framework

Output3: Related with All RBOs
Accessibility and reliability of the CD resources are improved

- Improve accessibility and reliability of the CD resources

Output 1; IWRM capacity of RBOs in field

For FP sites **Practice sites is improved**

1-1 Analyze the expected RBOs functions and roles

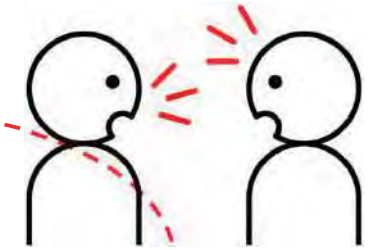
1-2 Identify current functions and roles

1-3 Identify priority issues

1-4 Identify work activities

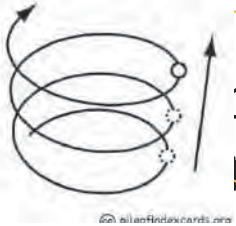
1-5 Make short- and – middle term CD plans

1-6 Carry out training, workshop and so on



1-7 Evaluate

1-8 Consolidate good or bad activities



1-9 Improve the CD plans

Output 2; Capacity Development Framework, CDF is Developed and Operated

For All RBOs

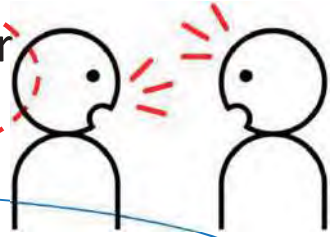
2-1 Review the existing CDF mechanisms and activities

2-2 Develop CDF

- Organizational structure
- CDF
  - Training framework
  - Stakeholder's responsibilities

2-3 Make and carry out short- and –middle plan CD activities for all RBOs

2-4 Establish RCC (Regular coordinate committee)



2-5 Evaluate the capacity of RBOs and improve benchmarking mechanism

2-6 Supervise and support the training

2-7 Inspect the performance of CD and reflect into revised CD

Output 3; Accessibility and Reliability of the CD resources are improved

For All RBOs

3-1 Make an inventory of CD resources

3-2 Improve the reliability of the CD resources

3-3 Improve the dissemination mechanism

3-4 Conduct workshops and seminars to make accessibility easier

3-5 Support organizations to improve reliability of CD resources

This year's CD themes

-FP sites

- BBWS: Ciliwung Cisadane; Concerning River Management
- BWS: Sulawesi 1; Concerning Comprehensive Flood Damage Mitigation

-All RBOs;

The same two themes with FP sites + O&M for Dam, Water allocation

Summary

- We aim to improve CD of RBOs concerning Technical-resolution against Problems on water.
- For achieving the aim, conduct CD activities, develop CDF and improve accessibility, reliability of the CD recourses.
- Conduct CD activities from this year and improve them through RBOs project with PDCA cycle.

Plan of Operation

			2015	2016	2017	2018
	Project Management	Workplan				
		Joint Coordinating Committee				
		Regular Meetings (every 3 months)				
1	Integrated water resources management capacity of RBOs in field practice sites is improved.	1-1. Analyse and break down the expected RBO's functions and roles into daily work activities.				
		1-2. Identify current functions and roles, and the actual daily work activities of several RBOs, and sort out the activities to be strengthened by comparing the actual activities with the ideal functions and roles mentioned above in 1-1.				
		1-3. Identify priority issues, which are necessary to be tackled with stakeholders as common and important targets, in the selected RBOs as pilot fields.				
		1-4. Identify concrete work activities to tackle the priority issues recognized in " 1-3 ", and area of the capacity development necessary for those work activities in the selected RBOs.				
		1-5. Make short- and middle- term CD plans to accomplish the capacity development recognized in "1-4" in the selected RBOs. Especialy middle-term CD plan is made based on the output of 1-1,1-2.				
		1-6. Carry out the capacity development activities* based on the CD plans and the work activities for the priority issues, in the selected RBOs.				
		1-7. Evaluate regularly the capacity of the RBOs through the progress on implementation of CD plans including the trainings, and the daily work activities to the priority issues, by various methods such as interviews to the staff, existing RBO benchmarking indicators and job assessment.	Baseline Study			
		1-8. Consolidate good or bad practices, lessons and challenges learnt through the field practices, based on the output of "1-7".				
		1-9. Improve the each CD plans, considering the output of 1-8, and carry out the revised plans in the selected RBOs.				

* "Capacity Development (CD)" means Capacity development which aims enhancement of the capacity of RBOs considering the viewpoint of a) capacity of individuals, b) capacity of organization (e.g. Job quality management, decision making, etc) , and c) institution and society, as mentioned in the JICA CD handbook.

(The activities from "1-3" to "1-9" are called as "Field Practice" in this

			2015	2016	2017	2018
2	Capacity Development Framework (CDF) for RBO, including organizational structure, stakeholder's responsibilities and training framework, is developed and operated.	2-1. Review the existing CD mechanisms and activities by the key players (DGWR, PUSAIR, CRBOM, PUSDIKLAT), including the Capacity Development System established by the RBO I project.				
		2-2. Develop formal and practical CDF to supervise CD activities*, clarifying organizational structure, related players' (DGWR, PUSAIR, CRBOM and PUSDIKLAT) responsibilities and training framework for RBO staff on the basis of the related regulations.				
		2-3. Make and carry out short- and mid-term plans of CD activities for RBOs across the country under CDF, considering the progress of the field practice. (mid-term CD plan includes progressive trainer certification program)		Planning / Planning	Implementation / Implementation	
		2-4. Establish regular coordination committee to supervise the PDCA cycle of CD activities and coordinate the needs of RBOs on CD.				
		2-5. Evaluate the capacity of RBOs periodically and improve the benchmarking mechanism, considering the method of existing benchmarking mechanism for RBOs and the outputs of 1-1 and 1-2.	Baseline Study / Baseline Study	Experimental period	Experimental period	
		2-6. Supervise the trainings for RBOs based on the CD plan, and support the trainings operated by relevant organizations in coordination with long-term and short-term experts.				
		2-7. Inspect the performance of CD activities for RBOs and reflect its result into the revised CD plans and the CD resources including the technical guidelines/manuals and the training materials.				
3	Accessibility to and reliability of the CD resources, including technical standard, guidelines and manuals for IWRM, are improved.	3-1. Make an inventory of the CD resources (e.g. existing guidelines, draft guidelines, manuals, training/ dissemination materials, and trainers).				
		3-2. Implement a PDCA cycle mechanism to improve the reliability of the CD resources, utilizing CDF and the output of the field practices.				
		3-3. Improve the existing dissemination mechanism for RBO staff which needs easy accesses to the existing materials and information, in order to ensure effectiveness, efficiency and sustainability of CD activities.				
		3-4. Conduct workshops and seminars to promote and facilitate more frequent, effective and efficient use of CD resources.				
		3-5. Support the relevant organizations in improving reliability of their CD resources.				
	Training In Japan		◎	◎	◎	◎

* CD activity includes (1) CD planning [Plan], (2) implementation of CD plans [Do], (3) CD performance evaluation, RBOs capacity assessment [Check], and (4) improvement of CD plans and training resources such as training material and trainers [Action].

			2015	2016	2017	2018

(1) Administration of the Project

Structure	Function	Member
Project Supervisor	Project supervisors will bear overall supervision of the Project	- Director General for Water Resources - Director General for Research and Development Agency - Head of Human Resources Development Agency, Ministry of Public Works and Housing ~~- Director General for Spatial Planning~~
Project Director	Project Director will bear responsibility for the administration and implementation of the Project.	- Director, Directorate of Water Resources Management, DGWR (for overall responsibility) - Director, Research Center for Water Resources, RDA - Head, Water Resources and Construction Education and Training Center
Project Manager	Project Manager will be responsible for the managerial and technical matters of the Project.	- Head, Sub-directorate for Water Resources Institution, DWRM, DGWR - Head, Experimental Station for River (Balai Sungai), PUSAIR, RDA (for technical resources) - Head, Sub-directorate for Hydrology and Water Quality, Directorate of Water Resources Management, Directorate General of Water Resources
Project Implementation Unit (hereinafter referred to as "PIU")	Project Implementation Unit (PIU) is a counterpart team to deal with day-to-day project activities, to direct RBOs and other stakeholders in PU, and to give technical resources and advices to the Project activities.	1) Chairperson: Head, Sub-directorate for Water Resources Institution, DWRM, DGWR 2) Vice Chairperson: - a representative of PUSAIR - a representative of Education and Training Center, Secretary General - a representative of Center for River Basin Organization and Management (hereinafter referred to as "CRBOM") 3) Members*: - representatives of stakeholders in PU * to be appointed by Project Director 4) PIU Secretariat: * to be appointed by Chairperson of PIU

All the changes are indicated by underlines.

Revised Annex IV

Joint Coordinating Committee

1. Function

The Joint Coordinating Committee (hereinafter referred to as "JCC") will meet when necessary and at least once a year in order to fulfill the following functions:

1) To formulate the annual work plan of the Project and to coordinate and monitor the overall progress of the Project based on the regular monitoring sheet and the plan of operation of the Project in line with the Project Design Matrix;
2) To review the result of the annual work plan and to evaluate the progress of the Project based on the regular monitoring sheet;
3) To show solutions against challenges which may be found in JCC;
4) To direct relevant organizations;
5) To review and exchange views on major issues that may arise during the implementation of the Project; and
6) To discuss any other issue(s) pertinent to the smooth implementation of the Project.

2. Memberships

1) Chairperson:
   - Director General for Water Resources, Ministry of Public Works and Housing
2) Vice-Chairperson:
   - Head of Research and Development Agency, Ministry of Public Works and Housing
   - Head of Human Resources Development Agency, Ministry of Public Works and Housing
   - ~~Director General for Spatial Planning, Ministry of Public Works and Housing~~
3) Members of the Indonesian Side:
   (a) Secretary, Directorate General of Water Resources
   (b) Director, Directorate of Water Resources Management, Directorate General of Water Resources, Ministry of Public Works and Housing
   (c) Head, Research Center for Water Resources, Agency of Research and Development, Ministry of Public Works and Housing
   (d) Head, Water Resources and Construction Education and Training Center
   (e) Head, Education and Training Center, Ministry of Public Works and Housing
   (f) Head, Sub-directorate for Hydrology and Water Quality, Directorate of Water Resources Management, Directorate General of Water Resources
   (g) Head, Sub-directorate for Water Resources Institution, Directorate of Water Resources Management, Directorate General of Water Resources
   (h) Head, Experimental Station for River (Balai Sungai), PUSAIR, RDA
   (i) Head of BBWS Ciliwung – Cisadane
   (j) Head of BWS Sulawesi I

4) Members of the Japanese Side:
   (a) JICA Experts
   (b) Chief Representative of JICA Indonesia Office
   (c) Mission members from JICA HDQs
   (d) Other personnel concerned, to be assigned by JICA, if necessary

5) Observers:
   (a) Officials of the Embassy of Japan in Indonesia
   (b) Other personnel invited by the Committee

Revised Annex V

Regular Meeting

1. Function

A Regular Meeting will be called at operational level. The meeting will monitor and coordinate day-to-day activities (progress) of the Project, and will be held at least quarterly and whenever deems it necessary.

2. Memberships

1) Chairperson:
- Director, Directorate of Water Resources Management, Directorate General of Water Resources, Ministry of Public Works and Housing

2) Vice-Chairperson:
- Head, Research Center for Water Resources, Research and Development Agency, Ministry of Public Works and Housing
- Head, Education and Training Center, Ministry of Public Works and Housing
- Head, Water Resources and Construction Education and Training Center, Human Resources Development Agency

3) Members of the Indonesian Side:
(a) Key persons of DGWR, PUSAIR, CRBOM, and PUSDIKLAT (such as directors of DGWR)
(b) Head, Sub-Directorate for Hydrology and Water Quality, Directorate General of Water Resources
(c) Heads of the selected RBOs as the site manager of the field practices
(d) Head, Sub-directorate for Water Resources Institution, DWRM, DGWR
(e) Head, Experimental Station for River (Balai Sungai), PUSAIR, RDA

4) Members of the Japanese Side:
(a) JICA Experts
(b) Other personnel concerned, to be assigned by JICA, if necessary

5) Observers from relevant organizations:
Other personnel called by the Chairperson

MINUTES OF MEETING
BETWEEN
MINISTRY OF PUBLIC WORKS AND HOUSING
OF THE REPUBLIC OF INDONESIA
AND
JICA EXPERT TEAM
ON
THE SECOND JOINT COORDINATING COMMITTEE
ON
JAPANESE TECHNICAL COOPERATION
FOR
THE PROJECT
ON
CAPACITY DEVELOPMENT FOR RIVER BASIN ORGANIZATIONS IN
INTEGRATED WATER RESOURCES MANAGEMENT
IN
THE REPUBLIC OF INDONESIA
(PHASE II)

Jakarta, August 15th, 2016

Agus Suprapto Kusmulyono

M. Eng, PhD., Director, Directorate of Water Resources Management, Directorate General of Water Resources,
Ministry of Public Works and Housing

三浦博久
Hirohisa Miura

Technical Expert,
Capacity Development Project for RBOs in Integrated Water Resources Management in Indonesia (Phase 2)

Triyono Tulus Setyawan

M. Eng., Head of Subdit of Water Resources Institution, Directorate of Water Resources Management, Directorate General of Water Resources, Ministry of Public Works and Housing

鈴木一志
Kazushi Suzuki

Project Coordinator
Capacity Development Project for RBOs in Integrated Water Resources Management in Indonesia (Phase 2)

Theme: The 2nd Joint Coordinating Committee (JCC)
Date: 26th July, 2016
Time: 10:00 – 12:00
Place: 3rd Floor Meeting Room, Ministry of Public Works and Housing
Participants: See the Attachment 1

The Second Joint Coordinating Committee (hereinafter referred to as "JCC") Meeting for "Capacity Development Project for RBOs in Integrated Water Resources Management in Indonesia (Phase 2)" (hereinafter referred to as "the Project") was held on 26th of July, 2016 from 10:00 to 12:00, at 3rd Floor Meeting Room, Ministry of Public Works and Housing in Jakarta to share the information regarding the project activities, such as capacity development trainings in Indonesia and Japan in 2016, the progress of analysis of the activities for the field practice sites and plan for capacity development training in 2017. The JCC members and observers discussed the following points.

1. Capacity Development Training in 2016

Mr. Tulus, head of Subdit of Water Resources Institution, Directorate of Water Resources Management, shared his experience of training in Japan in May 2016. Mr. Miura, technical expert of the project, also presented three trainings, "Training on Dam Operation & Maintenance", "Training on Water Allocation" and "Training on Flood Management" which were already conducted this year.

2. Progress of Analysis of the Activities for the Field Practice Sites

Mr. Hirohisa Miura resented his analysis of the activities for the field practice sites, BWS Sulawesi I and BBWS Ciliwung Cisadane. The analysis was conducted with PU official documents including POLA, RENCANA and Assessment Report and Accountability Report. Mr. Miura also informed that the analysis was conducted using only those documents he was given from the offices since the availability of the documents varied from offices.

Then, the result of the analysis for Sulawesi I was discussed and agreed by the head and staffs of the office. The expert and Sulawesi I office will discuss the possible capacity development training suitable to the office next time the expert visit Manado.

The analysis for BBWS Ciliwung Cisadane is still in the early stage that will take some more time until the result of the analysis comes out to be shared.

3. Plan for Capacity Development Training in 2017

Mr. Hirohisa Miura presented a draft plan for capacity development training in Indonesia and Japan in 2017. The draft suggested five trainings in Indonesia and one in Japan. The expert reported that the details would be discussed among relevant sections of PU. A representative from Human Resource Development Agency told that there might be still possibility to modify the plan if necessary, however, it should be done soon since the person was not sure exactly until when such changes could be managed by the agency.

End of the Document

MINUTES OF MEETING

BETWEEN

MINISTRY OF PUBLIC WORKS AND HOUSING OF THE REPUBLIC OF INDONESIA

AND

JAPAN INTERNATIONAL COOPERATION AGENCY

ON

THE THIRD JOINT COORDINATING COMMITTEE

ON

JAPANESE TECHNICAL COOPERATION

FOR

THE PROJECT ON CAPACITY DEVELOPMENT FOR RIVER BASIN ORGANIZATIONS IN INTEGRATED WATER RESOURCES MANAGEMENT

IN

THE REPUBLIC OF INDONESIA (PHASE II)

Jakarta, 12th April, 2017

Dr. Ir. Agus Suprapto Kusmulyono, M. Eng

Director of Directorate of Water Resources Management, Directorate General of Water Resources,
Ministry of Public Works and Housing

Mr. Masahiro UEKI

Leader of the JICA Mission Team
Director, Disaster Risk Reduction Group,
Global Environment Department,
Japan International Cooperation Agency

Japan International Cooperation Agency (hereinafter referred to as "JICA") organized the Consultation Mission Team (hereinafter referred to as "the Team"), headed by Mr. Masahiro Ueki, for the purpose of conducting the Mid-term Review (hereinafter referred to as "the Review") for the "Project on Capacity Development for River Basin Organizations in Integrated Water Resources Management in The Republic of Indonesia (Phase 2)" (hereinafter referred to as "the Project").

The Team has carried out intensive study as well as analysis of the activities and achievements of the Project through meetings with senior management and personnel concerned and site visits. Main points discussed in the meetings and confirmed among stakeholders of the Project are attached as Appendix 1.

The Team also presented the results of the Review to the third meeting of the Joint Coordinating Committee of the Project (hereinafter referred to as "JCC-3") held on the 12th of April 2017 at the ministry of Public Works and Housing (hereinafter referred to as "PUPR"), Jakarta. The agenda of the JCC-3 is attached as Appendix 2.

After discussions on the major issues pointed out in the Review, the JCC-3 accepted the results and took note of the series of recommendations made in the Review attached as Appendix 3. The representatives of the Japanese side and the Indonesian side agreed to report to their respective authorities concerned the matters referred to the results for ensuring that necessary measures are taken for the smooth and successful implementation of the Project.

Appendix 1: Main Points Discussed
Appendix 2: Agenda of JCC-3
Appendix 3: Recommendations

END

【Appendix 1】

Main Points Discussed

Progress on Activities since the Project started

The Team summarized the progress of all activities in the Project in the Annex 1, based on reports from the Project Experts (hereinafter referred to as "the Experts"), series of the discussions with counterpart personnel concerned as well as site visits to the two Field Practice Sites (hereinafter referred to as "FPs") in BBWS Ciliwung Cisadane (hereinafter referred to as "BBWS CilCis") and BWS Sulawesi I . Some activities have been conducted smoothly whereas issues and difficulties causing activities delayed from the initial planned schedule were found out. Therefore, solutions were discussed for smooth implementation of future activities.

Output 1: IWRM Capacity of RBOs in Field Practice Sites

1 Progress in Two Field Practice Sites

1-1.BBWS Ciliwung Cisadane

BBWS CilCis explained their current situations such as busyness of daily operations and lack of human resources. Sufficient number of counterparts for the Project was not assigned yet. Under such condition, BBWS CilCis and the Experts have not had enough discussion for activity 1-1.

1-2.BWS Sulawesi I

In September 2016, BWS Sulawesi I created a working team for the Project . The members are shown in the table. The Experts and the working team have completed activities 1-1 to 1-5 which resulted in selection of three priority issues below. Currently it is at a stage of preparation for starting OJT on these three issues.

Working Team Member List at BWS Sulawesi

.	Name	Position of BWS	Roles of WT
1	Djidon R. Watania, ST. MM	Head of BWS Sulawesi I	Head of Office
2	Ellen D. Cumentas, ST. Sp.1	Section Head of Programs & General	Person in Charge
3	Novie M. Ilat, ST.Sp.1	Planning BWS Sulawesi I Section Head of O & M BWS Sulawesi I	Person in Charge
4	Dan Ridleiy Namare, ST	Section Head of Implementation BWS Sulawesi I	Person in Charge
5	Imanuel F. Makasaehe, ST. Sp1	Functional officials	Team Leader
6	Djahara Lobud, SE. MM	Commitment Making Official - Management	Vice Team Leader

7	Jacquelin L. Tahar, SH	Sub Division Head of Administrative	Team Secretary
8	Ir. Eddy Kenda, MSi	Functional officials	Member
9	Ir. Sardjon Welliang, MT	Functional officials	Member
10	Bertty Gahansa, SH	Chief of Reviewers Officer	Member
11	Ronald F. Parengkuan, ST	Commitment Making Official of O&M 1 SDA Sulawesi I	Member
12	Drs. Ajub I. Kandou	Technical Implementation - Commitment Making - Management	Member
13	Revly Pasiowan, ST	Chief of Hydrology Reviewers	Member
14	Frinny E.D Lele, ST	Chief of O & M Reviewers	Member
15	Hendry Doodoh, ST	Administrative Coordinator Of Dam Working Unit	Member
16	Rhecky J. Lontoh, ST	Technical Implementation - Commitment Making - General Planning & Programs Working Unit	Member
17	Tommy Miran, A.Md	Staff of Hydrology, O & M Working Unit	Member
18	Youke M. Sumolang	Staff of BWS S1	Member
19	Vonne C. Pangemanan, ST	Staff of BWS S1	Member

3 priority issues

1) Implement flow observation of high water and update H-Q formulation
2) Update/create maintenance manual/ check list and trainings on hydrological equipment
3) Support for making O/M rule of New dam

2 Action to be taken for smooth implementation of the Project

2.1 Formation of Working Team for CD Activities at BBWS Ciliwung Cisadane

In order to accelerate CD activities on BBWS CilCis, the Team requested to set up a working team which related staff of the BBWS is assigned and will work together with the Experts, including monthly meeting, sharing data and information. The result of the meeting will be reported to DGWR. A representative staff of BBWS CilCis replied to form a working team consists of members listed following.

Working Team Member List at BBWS CilCis

	Name	Division of BBWS	Roles of WT
1	Ms. Anggia Satrini	Program & Planning	Team Leader
2	Mr. Baskoro	Implementation	Sub Leader
3	Ms. Gemala Suzanti	Operation & Maintenance	Sub Leader
4	Ms. Ari Winarti	Program & Planning	Member
5	Ms. Vicie Puspasari	Program & Planning	Member
6	Ms. Sona Meylina	Implementation	Member
7	Ms. Anisa Sari	Operation & Maintenance	Member
8	Ms. Novita Sari	Operation & Maintenance	Member
9	Ms. Eka Siwi	Operation & Maintenance	Member
10	Ms. Ratih Ajeng	Operation & Maintenance	Member

Evaluation of Progress on CD Activities at BBWS Ciliwung Cisadane

The Experts and the working team have decided to closely work together to complete CD activities 1-1 to 1-5 by September 2017. DGWR and JICA will evaluate the progress and make a necessary decision in September 2017 since the entire project period will be ended in January 2019.

3 Request of Equipment for Output 1 at BWS Sulawesi

BWS Sulawesi requested the Team to provide hydrological instruments for OJT on priority issues 1) and 2) .The Team understood its necessity and will convey the request to the authority of JICA HQs. In addition, a new Early Warning System (hereinafter referred to as "EWS") was also requested by BWS Sulawesi. The Team explained that installation of new EWS was not highly prioritized based on the result of activity 1-3. OJT on priority issues 1) and 2) will also be able to contribute to one of the functions for EWS.

Output 2: Development and Operation of CDF for RBOs

1 Establishment of Human Resources Development Agency

In April 2015, Ministry of Public Works and Housing (hereinafter referred to as "PUPR") newly established Human Resources Development Agency (hereinafter referred to as "HRDA") as an organization which has a responsibility of capacity development for the ministry. The latest Project organization chart is confirmed as Annex 2. After the organizational restructuring, the development of Capacity Development Framework (hereinafter referred to as "CDF"), which is initially targeted in the Project as Activity 2-2, has been completed and a number of trainings have been conducted by HRDA. Therefore, both sides agreed that the Project will focus on operations of the CDF. PDM will be revised reflecting above situation.

2 Results and Plan of Trainings for RBOs

In order to support CD activities, the Experts had regular meetings with Project Implementation Unit (hereinafter referred to as "PIU") which consists of members listed below. As a result, 8 trainings in Indonesia were conducted in 2016 and 4 trainings is planned in 2017 as Annex 3.

PIU Member List

No.	Positions and Organizations
I	**DIRECTOR TEAM**
1	Director General of Water Resources
2	Secretary of DGWR
3	Director General of Reasearch and Development Agency
4	Director General of Human Resources Development Agency
5	Director of Water Resources Management, DGWR
6	Head of Research and Development Center of WR (PUSAIR), RDA
7	Head of Training Center for WR and Construction, HRDA
8	Head of Experimental Station for River, Research and Development Center of WR
9	Head of Ciliwung Cisadane RBO, DGWR
10	Head of Sulawesi I RBO, DGWR
II	**TECHNICAL TEAM**
1	Head of Sub-Dir. of Institutional, WR Management, DGWR;
2	Head of Sub-Dir. of River Basin Planning, WR Management, DGWR;
3	Head of Sub-Dir. of Hydrology and WR Environment, WR Management, DGWR;
4	Head of Sub-Dir. of Planning, Dir. Irrigation and Swamp, DGWR;
5	Head of Sub-Dir. of Planning for Operation and Maintenance, Dir. O&M Development, DGWR;
6	Head of Division of Planning and Administration, Dam Center, DGWR
7	Head of Sub-Dir. of Tech. Guidance for River and Coastal, DGWR.
8	Head of Division of Planning and Administration, Ground Water and Raw Water Center, DGWR.
9	Head of Division of Personnel, Organization and Management, DGWR
10	Head of Division of Planning and Evaluation, HRDA
11	Head of Division of Technical and Material for WR, Training Center for WR and Construction, HRDA
12	Head of Division of Operation and Maintenance, Ciliwung Cisadane RBO
13	Head of Section of Operation and Maintenance, Sulawesi I RBO
14	Head of Section of Regional II, Sub-Dir. of Institutional, WR Management, DGWR.

3 Improvement of the Benchmarking Mechanism of B(B)WSs

The five day training on performance for benchmarking was conducted in March 2017 with 39 participants from all B(B)WSs. It initially targeted participants to be reached at self-assessment level, however the result of post examination showed that 21 participants reached the level of peer reviewer which is needed more skills than self-assessment level. This shows effectiveness of the training delivered by the Project.

Results of Post Examination

Achievement Levels	Number of Participants	Notes
Peer Reviewer	21	5 participants marked "Excellent"
Self- Assessment	15	
Not passed	3	Absence. etc.
Total	39	

4 Coordination with Human Resources Development Agency

In the past project period, trainings were planned and implemented separately by HRDA and the Project. HRDA plans trainings based on 7 priority topics below with 3 aspects, namely planning, construction and operation/maintenance, whereas trainings prepared by the Project are conducted by the needs analysis, questionaire and result of previous trainings which were hold by the Experts. In order to provide more strategic CD activities and secure the quality of CD resources on IWRM, both sides agreed that the Project will jointly conduct the trainings following CD plan of HRDA with the PDCA cycle.

Seven priority topics by HRDA

1. Irrigation
2. Swamp
3. Coastal
4. River
5. Raw water
6. Ground water
7. Dam

Output 3: Improvement of Accessibility and Reliability of CD Resources

1 CD resources to be covered by the Project

Training materials are developed based on the technical guidelines/ manuals. The training materials can be revised based on the feedback from the participants as well as lecturers. However, it is not expected that technical guidelines/ manuals will be revised based on the results of the performance of CD activities. Therefore, both sides agreed that the training materials is still included in and technical guidelines/ manuals should be excluded from the CD resources defined in Activity 2-7 and 3-1.

2 Accessibility of CD Resources (training materials)

HRDA has already established a web site which any PUPR personnel with ID is

able to access training modules and materials. In the actual operation, once trainings are ready to start, necessary information including training materials is uploaded on the web site so participants can easily download them. Both sides confirmed that HRDA has already an effective dissemination mechanism for RBO staff using the web sites and decided to exclude related activities from the Project.

3 Reliability of CD Resources (training materials)

Reliability of the CD resources (training materials) is also secured by the establishment of approval procedure which was already developed and operated by HRDA. Following this procedure, 10 training modules were already proposed and waiting for the certification by HRDA. The Team explained that certain training modules could be improved with the draft modules by the Project (Phase 1) and reliability could also be improved if HRDA certifies them.

Others

1 Focal Persons

The Team explained the necessity to implement, monitor and supervise the progress of the Project, and requested DGWR to assign focal persons for each output. DGWR will assign suitable officers as focal persons after confirmed with HRDA and RDA.

Focal Person List (Tentative)

Output.	Positions and Organizations
1	Head of Sub-Dir. of Institutional, WR Management, DGWR
2	Head of Division of Planning and Evaluation, Secretariat of HRDA, HRDA
3	• Head Division of Technical and Material of Water Resources, Education and Training Center for WR and Construction, HRDA • Head of Division of Standard and Cooperation, RCWR, RDA

2 Follow up of the Project (phase I)

The Team and PUSAIR discussed the utilization of outcomes from the Project (phase1), which are draft guidelines and manuals for practical water resources management. PUSAIR explained certification processes of guidelines/ standards that sub technical committee assesses proposals and takes around one year. Average ten proposals are certified annually and future proposals for five years by 2019 were already selected. The Team requested PUSAIR to add the draft guidelines prepared in the Project (phase 1) into the future proposal list. PUSAIR replied that they will consider the Team's request.

Annex 1: Progress of the Project Activities and Plan of Operation (actual)
Annex 2: Project Organization Chart revised version
Annex 3: Result of Trainings in Indonesia 2016 and Plan of Training in 2017

END

Progress of the Project Activities

The capacity of RBOs on IWRM is improved through the upgraded mechanism of the capacity development activities for RBOs.

As of April 12, 2017

Verifiable Indicators			Progress		Remarks
	1.	1. Number of capacity development activities (trainings and counselling) to RBOs per year.	8	Times/Year	Number of Training Conducted in 2016 4 Trainings are planned in 2017
	2.	Benchmarking Score	On-Going	Points	The way to check will be discussed.

Output 1 Integrated water resources management capacity of RBOs in field practice(FP) sites is improved

Activities			C: BBWS Ciliwung Cisadane M: BWS Sulawesi I	
	1-1	Analyze and break down the expected RBO's functions and roles into daily work activities.	C: On-Going M: Completed	C: On-going (Draft Analysis Report Completed) M: Completed (Submitted Analysis Report)
	1-2	Identify current functions and roles, and the actual daily work activities of several RBOs, and sort out the activities to be strengthened by comparing the actual activities with the ideal functions and roles mentioned above in 1-1.	C: On-Going M: Completed	C: On-going (Draft Analysis Report Completed) M: Completed (with Analysis Report)
	1-3	Identify priority issues, which are necessary to be tackled with stakeholders as common and important targets, in the selected RBOs as pilot fields	C: Not Started M: Completed	C: Not Started M: Completed (with Analysis Report)
	1-4	Identify concrete work activities to tackle the priority issues recognized in "1-3", and area of the capacity development necessary for those work activities in the selected RBOs.	C: Not Started M: Completed	C: Not Started M: Completed (with Analysis Report)
	1-5	Make short- and middle- term CD plans to accomplish the capacity development recognized in "1-4" in the selected RBOs.	C: Not Started M: Completed	C: Not Started M: Completed (with Analysis Report)
	1-6	Carry out the capacity development activities* based on the CD plans and the work activities for the priority issues, in the selected RBOs.	C: Not Started M: On-going	C: Not Started M: Preparation for OJT
	1-7	Evaluate regularly the capacity of the RBOs through the progress on implementation of CD plans including the trainings, and the daily work activities to the priority issues, by various methods such as interviews to the staff, existing RBO benchmarking indicators and job assessment.	C: Not Started M: Not Started	C: Not Started M: Not Started
	1-8	Consolidate good or bad practices, lessons and challenges learnt through the field practices, based on the output of "1-7".	C: Not Started M: Not Started	C: Not Started M: Not Started
	1-9	Improve the each CD plans, considering the output of 1-8, and carry out the revised plans in the selected RBOs.	C: Not Started M: Not Started	C: Not Started M: Not Started

Verifiable Indicators			Progress		Remarks
	1-1	Participating rate for trainings at the FP sites	Not Started	%	Preparation Stage for BWS Sulawesi I
	1-2	Number of Field Trainings at the FP sites	Not Started	Times	Preparation Stage for BWS Sulawesi I
	1-3	Score of RBO benchmarking at the FP sites	Not Started	Points	The Result of Self Assessment in 2015 for BBWS Ciliwung Cisadane and BWS Sulawesi I will be used as initial score

Output 2 Capacity Development Framework (CDF) for RBO, including organizational structure, stakeholder's responsibilities and training framework, is developed and operated

Activities			Status	Progress
	2-1	Review the existing CD mechanisms and activities by the key players (DGWR, PUSAIR, CRBOM, PUSDIKLAT), including the Capacity Development System established by the RBO I project.	On-Going	Partially completed interviewing. Still need more information.
	2-2	Develop formal and practical CDF to supervise CD activities*, clarifying organizational structure, related players' (DGWR, PUSAIR, CRBOM and PUSDIKLAT) responsibilities and training framework for RBO staff on the basis of the related regulations.	Completed	Human Resource Development Agency (HRDA) has been established in 2015.
	2-3	Make and carry out short- and mid-term plans of CD activities for RBOs across the country under CDF, considering the progress of the field practice. (mid-term CD plan includes progressive trainer certification program)	On-Going	OJT for BWS Sulawesi I will start in 2017. The result of the OJT might be expanded to all RBOs.
	2-4	Establish regular coordination committee to supervise the PDCA cycle of CD activities and coordinate the needs of RBOs on CD.	On-Going	There is a questionnaire after each training in which the participants can write down their request for the trainings in the future. The project also discussed the topics for trainings with related directorates. The contents then will be approved by PIU and JCC meeting.
	2-5	Evaluate the capacity of RBOs periodically and improve the benchmarking mechanism, considering the method of existing benchmarking mechanism for RBOs and the outputs of 1-1 and 1-2.	Not Started	Need more information
	2-6	Supervise the trainings for RBOs based on the CD plan, and support the trainings operated by relevant organizations in coordination with long-term and short-term experts.	On-Going	Relevant short term experts have been dispatched for trainings.
	2-7	Inspect the performance of CD activities for RBOs and reflect its result into the revised CD plans and the CD resources including the technical guidelines/manuals and the training materials.	On-Going	There is a questionnaire after each training in which the participants can write down their request for the trainings in the future. To improve the quality of lecturers, senior / retired PU staff are actively involved in the trainings as resource person.

Verifiable Indicators			Progress		Remarks
	2-1	Number of good practices and lessons learned applied to CDF through the project per year		/ year	Questionnaire has been used to collect the request for the training from the participants. The result has been reflected for the training topic for the following year.
	2-2	Consolidated CDF document	1	Document	The flow of training procedure has been shared at JCC for a better implementation for the training.
	2-3	Annual CD activity plan including the budget in PU	Yes		Budget for trainings are allocated to relevant agency / training center which is spent to cover the cost for PU side.
	2-4	CD activities plans including the budget developed in RBOs	Yes		Need more information
	2-5	Mid- and long-term plans of CD in PU	Yes		The list of trainings in 2017 has been approved by JCC. HRDA has already allocated budget for relevant agency / training center. There is a 5 year mid-term plan by PUPR. The project needs to research about long term CD plan for PU.
	2-6	Number of the Regular Meeting held	3	Times	"Regular meeting" in the Record of Discussion for the project has been replaced by Project Implementation Unit meeting by Ministerial Decree 683, 2015.

Output 3 Accessibility to and reliability of the CD resources, including technical standard, guidelines and manuals for IWRM, are improved

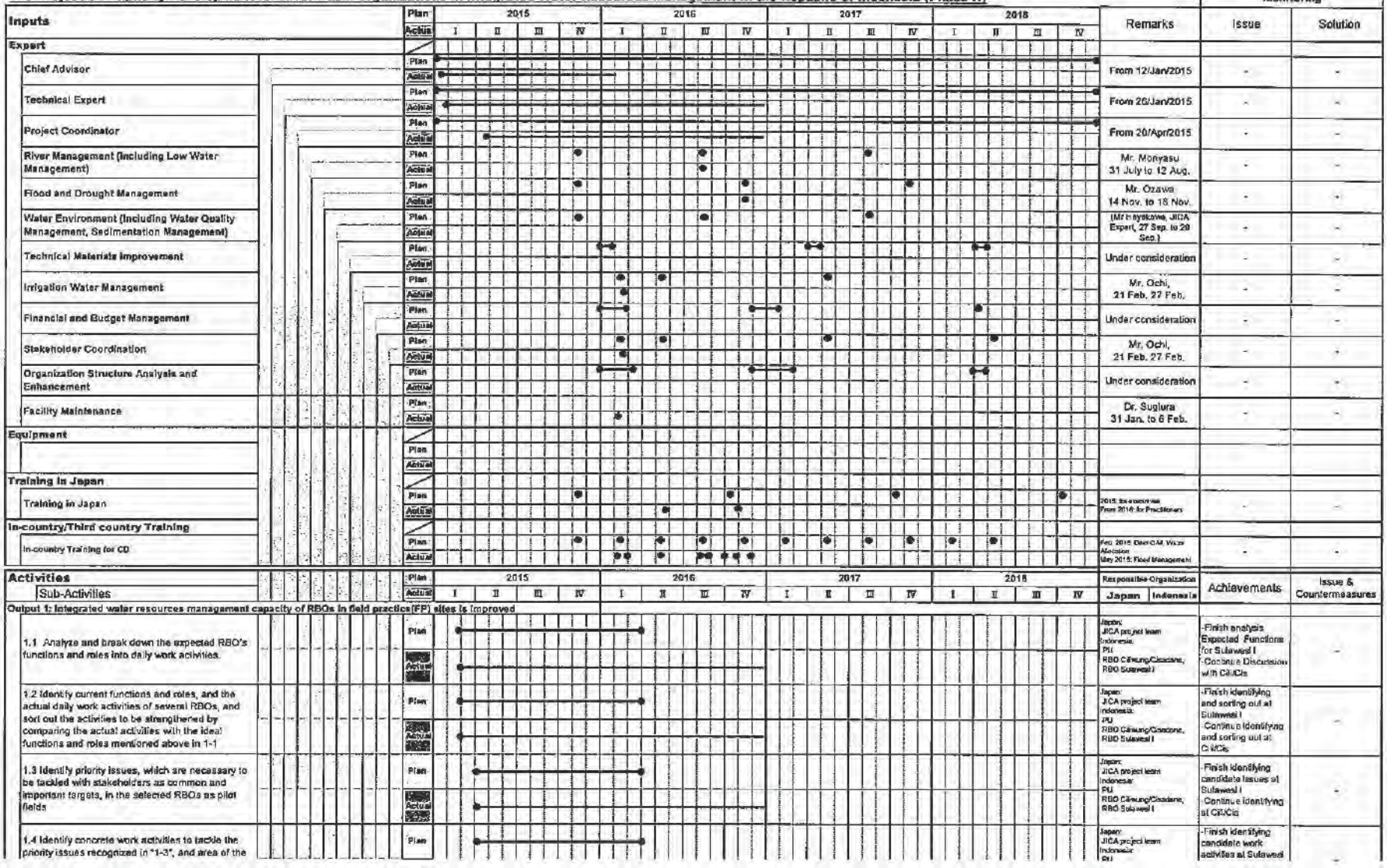
Activities			Status	Progress
	3-1	Make an inventory of the CD resources (e.g. existing guidelines, draft guidelines, manuals, training/ dissemination materials, and trainers).	On-Going	The list of training modules made by RBO Project Phase 1 has been completed. The list of lecturers are currently being made.
	3-2	Implement a PDCA cycle mechanism to improve the reliability of the CD resources, utilizing CDF and the output of t	On-Going	Those training modules which were created at RBO Project Phase 1 are in the process of registering as official material of PU.
	3-3	Improve the existing dissemination mechanism for RBO staff which needs easy accesses to the existing materials and	On-Going	The participants for the training receive the complete set of training materials and training modules created in Phase 1. The project and JCC might need to think another way to improved accessibility to the existing training materials for CD activities.
	3-4	Conduct workshops and seminars to promote and facilitate more frequent, effective and efficient use of CD resources	Not Started	
	3-5	Support the relevant organizations in improving reliability of their CD resources	On-Going	

Verifiable Indicators			Progress		Remarks
	3-1	Number of CD resources prepared, disseminated, and accessed through different means of communication	9	documents	The participants for the training receive the complete set of training materials.
	3-2	Inventory system of the CD resources	On-Going		Need more information
	3-3	Number of workshops and seminars conducted	0	Times	
	3-4	Number of CD training courses conducted	9	Trainings	8 Trainings in 2016, 1 Training in 2017 have conducted
	3-5	Number of documents (textbooks, manuals and guidelines) revised per year	0	Per / Year	

Plan of Operation

Version 1.1
Dated 2016/12/30

The Project on Capacity Development for River Basin Organizations in Integrated Water Resources Management in the Republic of Indonesia (Phase II)



Inputs	Plan / Actual	2015 I	2015 II	2015 III	2015 IV	2016 I	2016 II	2016 III	2016 IV	2017 I	2017 II	2017 III	2017 IV	2018 I	2018 II	2018 III	2018 IV	Remarks	Issue	Solution
capacity development necessary for those work activities in the selected RBOs	Actual																	RBO Cikwung/Ciasdane, RBO Sulawesi I	-Continue identifying at CIB/CIs	
1.5 Make short- and middle- term CD plans to accomplish the capacity development recognized in "1-4" in the selected RBOs. Especially middle-term CD plan is made based on the output of 1-1, 1-2.	Plan																	Japan: JICA project team Indonesia: PU RBO Cikwung/Ciasdane, RBO Sulawesi I	-Finish making Draft Short Term CD Plan for Sulawesi I -Continue discussion with CIB/CIs	-
	Actual																			
1.6 Carry out the capacity development activities* based on the CD plans and the work activities for the priority issues, in the selected RBOs.	Plan																	Japan: JICA project team Indonesia: PU RBO Cikwung/Ciasdane, RBO Sulawesi I	Not yet started	-
	Actual																			
1.7 Evaluate regularly the capacity of the RBOs through the progress on implementation of CD plans including the trainings, and the daily work activities to the priority issues, by various methods such as interviews to the staff, existing RBO benchmarking indicators and job assessment.	Plan		Baseline Study															Japan: JICA project team Indonesia: PU RBO Cikwung/Ciasdane, RBO Sulawesi I	Finished collecting latest benchmarking report at CIB/CIs and Sulawesi I for "Baseline Study"	-
	Actual																			
1.8 Consolidate good or bad practices, lessons and challenges learnt through the field practices, based on the output of "1-7"	Plan																	Japan: JICA project team Indonesia: PU RBO Cikwung/Ciasdane, RBO Sulawesi I	Not yet started	-
	Actual																			
1.9 Improve the each CD plans, considering the output of 1-8, and carry out the revised plans in the selected RBOs.	Plan																	Japan: JICA project team Indonesia: PU RBO Cikwung/Ciasdane, RBO Sulawesi I	-	-
	Actual																			
Output 2: Capacity Development Framework (CDF) for RBO, including organizational structure, stakeholder's																				
2.1 Review the existing CD mechanisms and activities by the key players (DGWR, PUSAIR, CRBOM, PUSDIKLAT), including the Capacity Development System established by the RBO I project	Plan																	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	Continue discussion and finished collecting information from DGWR, PUSAIR, CRBOM	CD mechanism was changed on Jan 2015 (Human Resources Development Agency (HRDA) is newly established)
	Actual																			
2.2 Develop formal and practical CDF to supervise CD activities*, clarifying organizational structure, related players' (DGWR, PUSAIR, CRBOM and PUSDIKLAT) responsibilities and training framework for RBO staff on the basis of the related regulations	Plan																	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	Continue discussion with HRDA, DGWR	-
	Actual																			
2.3 Make and carry out short- and mid-term plans of CD activities for RBOs across the country under CDF, considering the progress of the field practice. (mid-term CD plan includes progressive trainer certification program)	Plan			Planning						Implementation								Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	-Finished making training plan of 2017 -Conduced eight (8) trainings	-
	Actual		Planning			Implementation														
2.4 Establish regular coordination committee to supervise the PDCA cycle of CD activities and coordinate the needs of RBOs on CD.	Plan																	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	Finished establishment of the committee (PIU)	-
	Actual																			
2.5 Evaluate the capacity of RBOs periodically and improve the benchmarking mechanism, considering the method of existing benchmarking mechanism for RBOs and the outputs of 1-1 and 1-2.	Plan				Baseline Study					Experimental period								Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	-Continue study on current benchmarking	-
	Actual																			
2.6 Supervise the trainings for RBOs based on the CD plan, and support the trainings operated by relevant organizations in coordination with long-term and short-term experts.	Plan																	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	Proposed adequate operation of trainings in PIU	-
	Actual																			

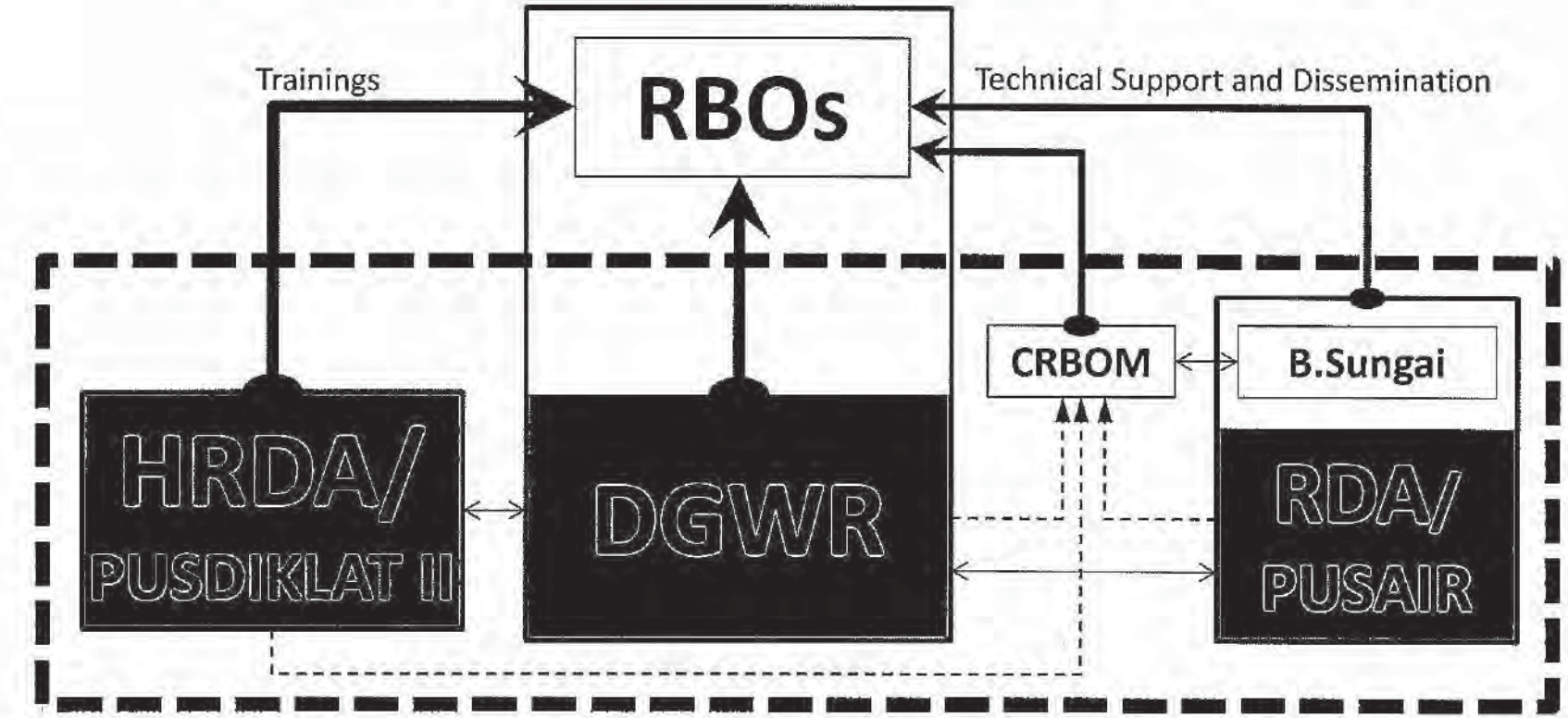
Inputs	Plan / Actual	2015 I	2015 II	2015 III	2015 IV	2016 I	2016 II	2016 III	2016 IV	2017 I	2017 II	2017 III	2017 IV	2018 I	2018 II	2018 III	2018 IV	Remarks	Issue	Solution
2.7 Inspect the performance of CD activities for RBOs and reflect its result into the revised CD plans and the CD resources including the technical guidelines/manuals and the training materials	Plan					●											●	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	Evaluated of each training by Pre/Post Test and questionnaires	-
	Actual					●														
Output 3: Accessibility to and reliability of the CD resources, including technical standard, guidelines and manuals for IWRM, are improved																				
3.1 Make an inventory of the CD resources (e.g. existing guidelines, draft guidelines, manuals, training/ dissemination materials, and trainers).	Plan	●			●													Japan: JICA project team Indonesia: PU PUSAIR CRBOM PUSDIKLAT	-Finished making inventory of guidelines and modules that made by phase 1 -Made draft inventory of CD resources	-
	Actual	●																		
3.2 Implement a PDCA cycle mechanism to improve the reliability of the CD resources, utilizing CDF and the output of the field practices	Plan									●			●					Japan: JICA project team Indonesia: PU PUSAIR CRBOM PUSDIKLAT	-	-
	Actual																			
3.3 Improve the existing dissemination mechanism for RBO staff which needs easy accesses to the existing materials and information, in order to ensure effectiveness, efficiency and sustainability of CD activities.	Plan			●									●					Japan: JICA project team Indonesia: PU PUSAIR CRBOM PUSDIKLAT RBOs	Continue discussion with DGWR, PUSAIR, CRBOM	-
	Actual			●																
3.4 Conduct workshops and seminars to promote and facilitate more frequent, effective and efficient use of CD resources	Plan									●								Japan: JICA project team Indonesia: PU PUSAIR CRBOM PUSDIKLAT RBOs	-	-
	Actual																			
3.5 Support the relevant organizations in improving reliability of their CD resources	Plan			●									●					Japan: JICA project team Indonesia: PU PUSAIR CRBOM PUSDIKLAT RBOs	Continue discussion with DGWR, HRDA, PUSAIR and CRBOM (DUWRMT)	-
	Actual			●																
Duration / Phasing	Plan																			
	Actual																			

Monitoring Plan	Plan / Actual	2015 I	2015 II	2015 III	2015 IV	2016 I	2016 II	2016 III	2016 IV	2017 I	2017 II	2017 III	2017 IV	2018 I	2018 II	2018 III	2018 IV	Remarks	Issue	Solution
Monitoring																				
Joint Coordination Committee	Plan		●		●				●				●				●			
	Actual		●					●										1st JCC on 11th June 2015 2nd JCC on 26 July 2016	-	-
Set-up the Detailed Plan of Operation	Plan	●	●																	
	Actual	●	●															Revised PO at 1st JCC	-	-
Submission of Monitoring Sheet	Plan			●		●		●		●		●		●		●	●			
	Actual			●			●		●									-	-	-
Monitoring Mission from Japan	Plan																			
	Actual																	-	-	-
Joint Monitoring	Plan																			
	Actual																	-	-	-
Post Monitoring	Plan																			
	Actual																	-	-	-
Reports/Documents																				
	Plan																			
	Actual																			
Project Completion Report	Plan																●			
	Actual																	-	-	-
Public Relations																				
Project web site	Plan				Establishment								Operation					-	-	-
	Actual																			

Project Organization Chart

Annex 2

Capacity Development Activities for RBOs



Coordination led by DGWR/HRDA on PDCA cycle of CD activities

Major capacity development activities for RBOs

Resources

Coordination

Implementing Agencies

Project Implementation Unit (PIU)

Chair: DGWR

Vice Chair: RDA/PUSAIR,HRDA/PUSDIKLAT II

Result of Trainings in Indonesia 2016

Annex 3

No	Title	Venue	Duration	Objectives	Participants	Lectures and Lecturers	Field Study	Result of Test	Questionaire
1	Dam Operation and Maintenance	Malang (Balai DIKLAT Surabaya)	4 days, Feb 2 - 5	-Government of Indonesia has started to build 65 dams in 5 years -Knowing effective ways to operate and maintain these dams	Number : 26 Organization : B(B)WSs, Balai Bendungan, Direktorat Bina OP, Direktorat Bina PSDA, Pusat Bendungan, Dinas PU Provinsi dan Kab.	From Indonesia side -Status of Dam O/M, Ir. Joko Mulyono, ME -Dam Safety and Dam Body Observation, Ir. Achmad Zubaedi, ME -Wtr Balance of Dam Reservoir, Drs. Petrus Syariman, MT -Sediment Mngmt Ir. Iman Mardjianto, Dipl, HE From Japan side -Outline of Dam O/M -Mainte Work of Telecommunication/Mechanical Facility -Integrated Fld Control of Dams	Topic -Dam Safety -Operation / Maintenance -Sediment Management Sites -Sutami Dam -Lahor Dam -Sengguruh Dam	Topics on the Test; -Legal framework -Facility Maintenance -Dam Safety -Water Balance for Reservoir -Sediment Management* topics with underline were lower score than other topics	"Sediment Management*" in the field of Dam O/M was raised as an important issue. *This topic will be focused into 2017 training as " Sediment Management for Dam "
2	Water Allocation	Makassar (Balai DIKLAT Makassar)	4 days, Feb 23 - 26	-B(B)WS will have to implement water service fee collection from water user -Knowing more about: -Legal Aspect -Data preparation for calculation on water demond, -Coordination with water users.	Number : 26 Organization : B(B)WSs, Balai Bendungan, Direktorat Bina OP, Direktorat Bina PSDA, Dinas PU Provinsi dan Kab.	From Indonesia side -Wtr Balance, by Dr. Eka Nugraha A., ST, MPPM, PDS -Wtr Allocation Planning and Current Status, Sudarsono, ATP, CES -SIPA (Water Use Permit System), by Ir. Saroni Soegiarto, ME -Wtr Service Fee System, by Ir. Triyono Tulus Setyawan, M. Eng From Japan side -Wtr User Coordination and Wtr Distribution for Irrigation -Wtr Use Right and Wtr User Charge for O/M	Topic -Operation for Water distribution -Stakeholders Coordination -Intake and distribution for irrigation Site -Bili-Bili Dam -Bili-Bili irrigation Areas, -PDAM Makassar	Topics on the Test; -Legal framework -Water Balance Calculation* -Water Allocation Planning -SIPPA -Water Service Fee -Water User Coordination topics with underline were lower score than other topics	"Water balance*" and "Water Allocation" in the field of Water Allocation was raised as an important issue. *This topic will be focused into 2017 training as " Calculation of Water Balance for Water Allocation Planning "
3	Flood Management	Manado (Balai DIKLAT Makassar)	4 days, May 10th to 13th	Understand more about : -Flood Management and Master Planning -Warning system for flood -Integrated Water Resources Management, especially flood management	Number : 33 Organization : B(B)WSs, Dinas PU Provinsi dan Kab, Dinas PSDA Prov. Dan Kab.	From Indonesia side -Current Status and Basic Knowledge of Fld, Ir. Birendrajana, MT -Fld Warning System, Dr. Eka Nugraha Abdi, ST, MPPM, PDS From Japan side -Comprehensive Structural Measures for Fld -Regional Disaster Mngmt Planning -Ex. of Master Fld Mngmt Plan inTondano River Basin -Ex. of Structural Measures for Fld in Tondano River Basin	Topic -Emergency response -Demonstration of AR technology river water level observation Site -BPBD Sulawesi Utara -Inundated areas at Tondano, Tikala and Sario Rivers	Topics on the Test; -Legal framework -Flood Warning System -Structural/Non-structural Measures -Disaster Management Planning topics with underline were lower score than other topics	"Designing / building Structural Measures for Flood*" in the field of Flood Management was raised as an important issue. *This topic will be focused into 2017 year training as " Design of River Facility Structures "
4	River Facility Maintenance	Jakarta (Balai DIKLAT III Jakarta)	4 days, Aug. 9th-12th, 2016	Knowing better about : -Maintenance Work for River Facility -Database and inventory -Practical maintenance works for river facility	Number : 33 Organization : B(B)WSs, Direktorat Pengembangan Jaringan SDA, Dinas SDA Prov.	From Indonesia side -Legal Aspect and Current Status, by Mr. Hendra Ahyadi, ST, MT -Database of River Facility, by Dr. Ismail Widadi, ST, M.Sc -River Facility Inventory for Mainte, by Mr. Hendra Ahyadi, ST, MT -Practical Mainte Works focusing on Weir, BBWS Cil Cis From Japan side -Mainte Works of River and Facility -River Facility Inventory for mainte work	Topic -Maintenance/inspection of structures (weir, flood way) and equipment/instrument Site -Katulampa Weir -East Banjir Canal -Manggarai Gate	Topics on the Test; -Legal framework -Database and Inventory -Facility maintenance/repair/ rehabilitation and river area management topics with underline were lower score than other topics	"Database & Inventory Facility" in the field of Flood Management was raised as an important issue.

No	Title	Venue	Duration	Objectives	Participants	Lectures and Lecturers	Field Study	Result of Test	Questionaire
5	Maintenance for Water Resources Infrastructure (WRI)	Bandung (Balai DIKLAT Bandung)	4 days Aug 30 - Sep 2	Understand more about : -Maintenance Works for WRI -Databse and Inventory for Maintenance -Asset Management of WRI -Practical Maintenance works	Number : 30 Organization : B(B)WSs, Inspektorat Jenderal PUPR, Direktorat PJ SDA, Balai Diklat IV Bandung.	From Indonesia side -Legal Aspect and Current Status, Ir. Muhammad Asdin Thalib, MT -Database of WRI, Dr. Ismail Widadi, ST, M.Sc -Inventory of WRI for Mainte, Ir. Sarwono Sukardi, Dipl. HE -Practical Mainte Works for small scale dam, BBWS Citarum -Practical Mainte Works for Hydrology Network, PUSAIR From Japan side -Asset Mngmt of Wtr Resources Infrastructures -Mainte Works of Dam	Topic -Observation of 1) Deformation of dam body, 2) Seepage, for dam safety -Practical maintenance work for Hydrological Instrument Site -Cileunca & Cipanunjang Dam, -Lab. Hydrology Ciparay	Topics on the Test; -Legal framework -Database and Inventory -Asset management -Maintenance of Dam -Institutions for Dam O/M topics with underline were lower score than other topics	"Database & Inventory Facility" in the field of Flood Management was raised as an important issue.
6	Water Quality Management in Urban Rivers	Jakarta (Balai DIKLAT III Jakarta)	4 days, Sep. 27 - 30	Understand more about : -Water Pollution Control Policy -Water Quality Monitoring and Management	Number : 23 Organization : B(B)WSs, BMSDA Kota, DBM Kota, PJT II.	From Indonesia side -Wtr Pollution Control Policy, Ir. SPM Budisusanti, Msc. -Wtr Quality Monitoring, Dr. Eka Nugraha Abdi, ST, MPPM, PDS, -Effluent control/Wastewater Treatment, by DINAS Tata Air, DKI Jakarta, -Response for water quality problem, by PJT II, -Wtr Quality Mngmt at Cilliwung River, by BBWS Cil Cis From Japan side -Wtr Pollution Control Policy and Mngmt -River Wtr Quality Mngmt Policy	Topic -Technical mechanism of water treatment -O/M of the plant Sites -Waduk Setia Budi -Waduk Melati	Topics on the Test; -Legal framework -Roles of B(B)WS -Classification of water quality -Biological Waste Water Treatment -Water pollution sources topics with underline were lower score than other topics	"Monitoring river water quality" in the field of Flood Management was raised as an important issue.
7	Operation and Maintenance for Irrigation	Surabaya (Balai DIKLAT Surabaya)	4 days Oct 18 - 21	Understand more about : -Water Distribution Planning and Operation -Operation & Maintenance of Irrigation -Water User Coordination	Number : 26 Organization : B(B)WSs, BMSDA/DBM Provinsi dan Kab, PJT I.	From Indonesia side -Legal Aspect and Current Status of O/M of Irrigation, Ir. Djito, Sp.1, -Wtr Distribution for Agriculture Products, Ir. Djito, Sp.1, -O/M of Irrigation Dam, Mr. M. Adek Rizaldi, ST, M.Tech, -O/M Works of Irrigation as Regulator, BBWS Brantas, -Wtr User Coordination on Wtr Allocation, PJT I From Japan side -Operation and Maintenance of Irrigation	Topic -Operation method for water distribution -Hydrological data observation, monitoring and sharing - Coordination with stakeholders Site -Bendung Lengkong Baru -Delta Brantas Irrigation Area	Topics on the Test; -Legal framework -O/M of irrigation dam -Irrigation Canal System -Facility for irrigation system -Preparation for Water Allocation topics with underline were lower score than other topics	"Water Allocation Planning" in the field of Flood Management was raised as an important issue.
8	River Rehabilitation	Jakarta (Balai DIKLAT III Jakarta)	4 days, Nov. 15 - 18	5-year strategic plan of PUPR 2015 – 2019 mentions "Rehabilitation of Structures, dyke, drainage system and so on". Knowing better about: -Legal aspect -Technical points for investigation/design	Number : 23 Organization : B(B)WSs, Dinas Tata Air DKI Jakarta, PJT II.	From Indonesia side -Natural Disasters and Mngmt Policy, Mr. M. Robi Amri -Emergency response policy flood, Ir. Muhammad Asdin Thalib, MT -River Info./Warning, Dr. Eka Nugraha Abdi -Emergency Res for Fld, Ir. Bastari, M Eng. BBWS Cil Cis, -Technical points for investigation/design of River Rehabilitation From Japan side -Ope as Disaster Risk Reduction by RBO in Japan -Legal system for Rehab of Disaster-Stricken Public Facilities, and Eng restoration work method for "Build Back Better"	Topic -River Chanel Improvement -Dam Rehabilitation Site -Kampung Pulo, Ciliwung River -Situ Gintung	Topics on the Test -Legal framework -Frameworks of Disaster Management -Structural/non-structural measures -Responses for flood damage topics with underline were lower score than other topic	"Emergency Response" and "Rehabilitation Works" in the field of Flood Management was raised as an unportant issue.

Plan of Training in 2017

Annex 3

No.	Title	Type	Duration	Participants	Venue	Budget Allocation	Background
1	Assessment of BBWS's Performance for Benchmarking	Classroom and Field Study	5 days, 13 -17 March	**Number** : Approx. 30 **Target** : Staff who is in charge of benchmarking **Organization** : PUPR, B(B)WS	Solo	**PUPR:** -Travel fee / Accommodation Allowance for Participant -Cost for Indonesian Lecturers -Printing Fee of Textbook for the Lectures by Indonesian Lecturers **JICA:** -Cost for Japanese Lecturers -Venue Fee -Interpreter Fee -Printing Fee of Textbook for the Lectures by Japanese Lecturers -Stationary Fee	5-year plan of PUPR mentions that RBO Performance Benchmarking (Target Score is 4.0) and official document by DG of SDA on benchmarking, 30 November 2015, describes that 1) one (1) criteria will be added, 2) Self Assessment and Peer Review should be implemented. This Training focuses on practical method of self assessment and peer review of BBWS's performance for benchmarking, for responsible staff of PUPR and B(B)WS
2	Sediment Management for Dam	Classroom and Field Study	5 days, 17 - 21 April	**Number** : Approx. 30 **Target** : Technician **Organization** : PUPR, B(B)WS with dam	Yogyakarta		Gov. of Indonesia has implemented 65 dam construction projects in 5 years, which need to be managed properly. Sediment management is one of most important and difficult work in dam O/M. Some of existing dams have been faced to severe sedimentation. This Training focuses on prsctical countermeasures for dam reservoir sedimentation.
3	Design of River Facility Structures	Classroom and Field Study	5 days Tentatively in August	**Number** : Approx. 30 **Target** : Peer Reviewers **Organization** : PUPR, B(B)WS	Padang		5-year sterategic plan of PUPR mentions "River normalization and dyke construction has been developed" at responsibility of BBWS/BWS on Flood Control, Merapi Eruption and Coastal protection. This Training focuses on practical design of river structures, such as levee (dyke), revetment and ground sills (River bed protection) for adequate design and construction of river structures.
4	Calculation of Water Balance for Water Allocation Planning	Classroom and Field Study	5 days, Tentatively in September	**Number** : Approx. 30 **Target** : Technician **Organization** : PUPR, B(B)WS with many water users	Semarang		Regarding Water Allocation, new Water User Right System and Water Service Fee System will be started. Therefore, B(B)WS have to implement planning of water allocation adequately. This Training focuses on calculation of water balance and water distribution plan for adequate water allocation implementation.

Agenda

3rd Joint Coordinating Committee (JCC) Meeting

"Capacity Development Project for RBOs in Integrated Water Resources Management in Indonesia (Phase 2)"

Date: 10:00 – 12:00, April 12th, 2017

Venue: 3rd Floor Meeting Room at Water Resources Building, PU

Chair Person: Director General for Water Resources, Ministry of Public Works and Housing

Introduction	Ir. Agus Suprapto Kusmulyono, M. Eng., PhD Director of Directorate of Water Resources Management
Greeting – Indonesia Side (PU)	Ir. Agus Suprapto Kusmulyono, M. Eng., PhD Director of Directorate of Water Resources Management
Greeting – Japan Side (JICA)	Mr. Masahiro Ueki, Director, Disaster Risk Reduction Group, Global Environment Department, JICA
Introduction of Participants	Indonesia Side: Ir. Triyono Tulus Setyawan, M. Eng., Head of Subdit of Water Resources Institution Japan Side: Mr. Kazushi Suzuki, Project Coordinator
Progress of the Project Activities	Ir. Triyono Tulus Setyawan, M. Eng., Head of Subdit of Water Resources Institution Mr. Hirohisa Miura, Technical Expert of the Project
Report of Mid Term Review	Mr. Shinya Goto, Deputy Director, Disaster Risk Reduction Team 1 Global Environment Department, JICA
Plan of Activities 2017	Mr. Hirohisa Miura, Technical Expert of the Project
Discussion	Ir. Agus Suprapto Kusmulyono, M. Eng., PhD Director of Directorate of Water Resources Management
M/M Signing	Ir. Agus Suprapto Kusmulyono, M. Eng., PhD Director of Directorate of Water Resources Management
Closing Remarks	Ir. Agus Suprapto Kusmulyono, M. Eng., PhD Director of Directorate of Water Resources Management

【Appendix 3】

Recommendations

1 **For DGWR**

1.1 Acceleration of activities in BBWS Ciliwung Cisadane and joint evaluation with JICA in Sep 2017

2 **For HRDA**

2.1 Joint implementation of CD activities with PDCA cycle

2.2 Completion of the process for the certification of training modules

2.3 Assignment of focal persons for Output 2 and 3

3 **For RDA**

3.1 Certification of draft guidelines/manuals prepared in the Project (phase 1)

4 **For the Project**

4.1 Revision of the Project Design Matrix (PDM), reflecting the Review result as Annex 4

End

Annex 4: Project Design Matrix Revised Version

Annex 4 Project Design Matrix (PDM)

Project Title: The Project on Capacity Development for River Basin Organizations in Integrated Water Resources Management in the Republic of Indonesia (Phase II)
Implementing Agency: Directorate General of Water Resources (DGWR), Human Resource Development Agency (HRDA) and Research and Development Agency (RDA)
Project Sites: Jakarta (Secretariat of Project Implementation Unit, DGWR, PU), Bandung (PUSAIR), Solo (Balai Sungai and CRBOM), Field practice sites (BBWS Ciliwung Cisadane and BWS Sulawesi I)
Target Group: Staff members of PIU, DGWR/DWRM, PUSAIR/Balai Sungai, CRBOM, and RBOs of the Field practice sites
Indirect Beneficiaries: RBOs under the central government, HRDA / PUSDIKLAT
Duration of the project: 4 years from January 2015

As of: 12 April 2017 (Ver. 2.0)

Narrative Summary	Verifiable Indicators	Means of Verification	Important Assumptions	Achievement	Remarks
Super Goal The Integrated Water Resources Management (IWRM) is implemented effectively, efficiently and sustainably in all river basins of Indonesia.					
Overall Goal The capacity of RBOs on IWRM is continuously enhanced through the existing Capacity Development Framework (CDF).	1. Number of capacity development activities to RBOs per year 2. Benchmarking Score (continuously improved)	1. Record of trainings/Periodical report of PIU 2. Benchmark Report			
Project Purpose The capacity of RBOs on IWRM is improved through the upgraded mechanism of the capacity development activities for RBOs.	1. Number of capacity development activities to RBOs per year. 2. Benchmarking Score	1. Record of trainings/Periodical report of PIU 2. Benchmarking Report	GOI policy on integrated water resources management continues to attach importance to IWRM and RBOs. The Strategy for Capacity Building on Water Resources Management is stipulated and managed by PU Rules and regulations stipulated by other ministries don't come into conflict with the activities on IWRM.		
Outputs 1. Integrated water resources management capacity of RBOs in field practice(FP) sites is improved	1-1 Participating rate for trainings at the FP sites 1-2 Number of field trainings at the FP sites 1-3 Score of RBO benchmarking at the FP sites	1-1. Record of trainings 1-2. Record of trainings 1-3. Benchmarking study			
2. Capacity Development Framework (CDF) for RBO, including organizational structure, stakeholder's responsibilities and training framework, is operated	2-1. Number of good practices and lessons learned applied to CDF through the project 2-2. Number of CD activities jointly implemented in accordance with Annual CD activity plan in PU 2-3. Recommendation to next Mid-term plans of CD in PU 2-4. Number of the Project Implementation Unit Meeting held	2-1. Questionnaire / Site survey to RBOs. Revised CD materials 2-2. Annual Work Plan of PU 2-3. Approved plans in PU 2-4. Record of PIU Meeting			
3. Reliability of CD resources (training materials) for IWRM is improved	3-1. Number of workshops and seminars conducted 3-2. Number of CD resources revised	3-1. Minutes of meeting of PIU 3-2. Minutes of meeting of PIU			

Activities	Inputs		
1. Integrated water resources management capacity of RBOs in field practice sites is improved 1-1. Analyse and break down the expected RBO's functions and roles into daily work activities. 1-2. Identify current functions and roles, and the actual daily work activities of several RBOs, and sort out the activities to be strengthened by comparing the actual activities with the ideal functions and roles mentioned above in 1-1. 1-3. Identify priority issues, which are necessary to be tackled with stakeholders as common and important targets, in the selected RBOs as pilot fields 1-4. Identify concrete work activities to tackle the priority issues recognized in "1-3", and area of the capacity development necessary for those work activities in the selected RBOs. * "Capacity Development (CD)" means Capacity development which aims enhancement of the capacity of RBOs considering the viewpoint of a) capacity of individuals, b) capacity of organization (e.g. Job quality management, decision making, etc) , and c) institution and society, as mentioned in the JICA CD handbook. 1-5. Make short- and middle- term CD plans to accomplish the capacity development recognized in "1-4" in the selected RBOs. 1-6. Carry out the capacity development activities* based on the CD plans and the work activities for the priority issues, in the selected RBOs. 1-7. Evaluate regularly the capacity of the RBOs through the progress on implementation of CD plans including the trainings, and the daily work activities to the priority issues, by various methods such as interviews to the staff, existing RBO benchmarking indicators and job assessment. 1-8. Consolidate good or bad practices, lessons and challenges learnt through the field practices, based on the output of "1-7". 1-9. Improve the each CD plans, considering the output of 1-8, and carry out the revised plans in the selected RBOs. (The activities from "1-3" to "1-9" are called as "Field Practice" in this project.)	**The Japanese Side** <**Long-Term Expert**> • Chief Advisor (Integrated Water Resource Management) • Technical Experts (Water Allocation) (Operation and Maintenance) • Project Coordinator (Capacity Development) (Structural Management for CD) (Coordination) <**Short-Term Expert**> JICA will dispatch short-term experts in the necessary fields for the Project. For example; • River Management (including Low Water Management) • Flood and Drought Management • Water Environment (including Water Quality Management, Sedimentation Management) • Technical Materials Improvement • Irrigation Water Management • Financial and Budget Management • Stakeholder Coordination • Organization Structure Analysis and Enhancement <C/P Training in Japan> JICA will receive the Indonesian personnel connected with the Project for technical training in Japan. < Equipment> JICA will provide such machinery, equipment and other materials (hereinafter referred to as "the	**The Indonesian Side** <**Counterpart Staff**> • Project Supervisor (Director General for Water Resources, Director General of Human Resources Development Agency (HRDA), and Director General for Research and Development Agency) • Project Director (Director, DWRM as the director for overall responsibility, and Director of 'PUSAIR, Head, Water Resources and Construction Education and Training Center, HRDA) • Project Manager (Head of Sub-directorate for Water Resources Institution, DWRM, DGWR, Head of Experimental Station for River (Balai Sungai) (for technical resources), PUSAIR, RDA, and Head, Sub-directorate for Hydrology and Water Quality, DWRM, DGWR) • Project Implementation Unit (PIU) Chairperson: Head, Sub-directorate for Water Resources Institution, DWRM, DGWR) Vice Chairperson: - a representative of PUSAIR - a representative of Water Resources and Construction Education and Training Center, HRDA - a representative of CRBOM <**Cost for RBO Training/Monitoring and Evaluation**> The budget necessary for operating the project shall be allocated by the Indonesian side to ensure effective implementation of the Project.	<Preconditions> PIU members are formally appointed in PU, before commencement of the project. <Issues and countermeasures>
2. Capacity Development Framework (CDF) for RBO, including organizational structure, stakeholder's responsibilities and training framework, is operated 2-1. Review the existing CDF and activities by the key players (DGWR, PUSAIR, CRBOM, PUSDIKLAT). 2-2. Carry out CD activities* along with short- and mid-term plans of for			

RBOs across the country under CDF. * CD activity includes (1) CD planning [Plan], (2) implementation of CD plans [Do], (3) CD performance evaluation, RBOs capacity assessment [Check], and (4) improvement of CD plans and training resources such as training material and trainers [Action]. 2-3. Establish Project Implementation Unit (PIU) to supervise the PDCA cycle of CD activities and coordinate the needs of RBOs on CD. 2-4. Evaluate the capacity of RBOs periodically and improve the benchmarking mechanism, considering the method of existing benchmarking mechanism for RBOs and the outputs of 1-1 and 1-2, if necessary. 2-5. Inspect the performance of CD activities for RBOs and reflect its result into the revised CD plans and the CD resources including the training materials and trainers.	Equipment") necessary for the implementation of the Project.	**<Project Office/Office equipment>** Project offices, desks and chairs shall be provided by the Indonesian side **<Local Cost>** • Utilities, Telephone, Fax, etc.	
3. Reliability of the CD resources (training materials) for IWRM is improved 3-1. Make an inventory of the CD resources (e.g. training/ dissemination materials, and trainers). 3-2. Implement a PDCA cycle mechanism to improve the reliability of the CD resources, utilizing CDF and the output of the CD activities. 3-3. Conduct workshops and seminars to promote and facilitate more effective and efficient use of CD resources.			

MINUTES OF MEETING

BETWEEN

MINISTRY OF PUBLIC WORKS AND HOUSING OF THE REPUBLIC OF INDONESIA

AND

JAPAN INTERNATIONAL COOPERATION AGENCY

ON

THE FORTH JOINT COORDINATING COMMITTEE MEETING

ON

JAPANESE TECHNICAL COOPERATION

FOR

THE PROJECT ON CAPACITY DEVELOPMENT FOR RIVER BASIN ORGANIZATIONS IN INTEGRATED WATER RESOURCES MANAGEMENT

IN

THE REPUBLIC OF INDONESIA (PHASE II)

Jakarta, 29th November, 2018

Ir. Fauzi Idris, ME

Director of Directorate of Water Resources Management, Directorate General of Water Resources,
Ministry of Public Works and Housing

Mr. Hirohisa MIURA

Technical Expert,
The Project on Capacity Development for River Basin Organizations in Integrated Water Resources Management in The Republic of Indonesia (Phase II)

Japan International Cooperation Agency (hereinafter referred to as "JICA") and Ministry of Public Works and Housing (hereinafter referred to as "PUPR") held the final Joint Coordinating Committee (hereinafter referred to as "JCC") meeting for the "Project on Capacity Development for River Basin Organizations in Integrated Water Resources Management in The Republic of Indonesia (Phase II)" (hereinafter referred to as "the Project") on November 29th, 2018.

Led by Mr. Fauzi, several issues were discussed at JCC meeting; such as 1) Overall progress of the Project, 2) Achievement of the Project, 3) Recommendation after the Project. Main points discussed in the meetings and confirmed among stakeholders of the Project are attached as Appendix 1.

The representatives of the Japanese side and the Indonesian side agreed that the Project will officially close on January 11, 2019.

END

Appendix 1: Main Points Discussed

【Appendix 1】

Main Points Discussed

Progress on Activities since the Project started

The Project Team and PUPR summarized all activities for Output 1 to Output 3 of the Project, based on Project Design Matrix(PDM).

- Output 1 Activities at two Pilot Sites (BBWS Ciliwung Cisadane and BWS Sulawesi 1)
  I. Ms.Siwi of BBWS Ciliwung Cisadane explained the priority of the office had changed.
     - The priority for the office was the calculation of water balance at Cisadane River Basin area when the Project started.
     - Conservation at the upstream area of Ciliwung River (landscape project at Telaga Saat by planting Sakura) became the priority after that. The Balai needed some advice from the Project about the example of landscaping design in Japan. The Project has already submitted the example.
     - Operation and maintenance for Situ Gintung Dam became an important issue. The Balai inquires the Project team whether the O&M that they were conducting at the Dam was properly done. They also asked if there is an example in Japan that can be applied. The Project has prepared the O&M list that might be applied for supporting proper O&M.
     - Exchange of knowledge for seepage countermeasure for dam also became an important issue. The Balai asked if there was any Japan technology that can be applied.

  II. Mr. Tommy of BWS Sulawesi I explained the OJT activities in BWS Sulawesi I.
  Three topics were selected as OJT activities in BWS Sulawesi I:
  High water flow observation and update of H-Q formulation
     - The Project conducted several training for high water flow measurement for updating the HQ curve to forecast the flood. With these activities the Balai will be able to find out how to measure high water levels which result can be used as data to update existing curves. So far, the analysis of flood discharge is based on rainfall data, but this activity can lead the Balai to carry out flood analysis from the river discharge data.

  Update/create maintenance manual and conduct training for Hydrological Instrument
     - The Project installed AWLR (Automatic Water Level Recorder, and ARR (Automatic Rainfall Recorder) for training on how to operate and maintain the hydrological instrument and produce the maintenance manual for the equipment. The installment of such AWLR were the first time, hopefully there will be more installation for other Balai.

Support for making O&M rule for Kuwil Dam

- Since it is the first experience for BWS Sulawesi I to operate and maintain dam, the project provided several examples of O&M rules that can be used as reference for compilation/preparation of O&M rule of Kuwil Dam.

- Output 2 &3 Training for All B(B)WS in all over Indonesia and CD Resources Material
  - Head of Training Center for WR and Construction, Mr. Yudha explained:
    1. All of training organized by the HRDA will be certified also by the third party (licensing association) from 2018, so all the participants would receive 2 certificate (from HRDA as competency certificate and from the third party as expertise license)
    2. HRDA has a plan to continue the training program prepared by the Project after reviewing and will incorporate them with HRDA training program after the Project completes.
    3. From 2019, HRDA will launch a distance learning program (e-learning) for the official who does not have enough time to attend the training in person through HRDA website. The training material by JICA which are in the process of being uploaded at HRDA website can be utilized as the material for this e-learning.
    4. HRDA has a plan to utilize and update the JICA modules for their regular training program in the future.
    5. In 2009, HRDA will launch vocational college called PUPR Polytechnic in Semarang for all field related with public works, hopefully there will be cooperation with JICA in the future.

After the Project Completion

- Head of Sub-directorate of Dam O&M, Mr. Adek comments:
  1. Dam operation and maintenance issue has become 1st priority since Indonesia have more than 100 dams, and still there are 65 on-going construction. The present problem is that some of completed dam are not yet operated because of some of the facilities are not yet completely finish and there is a shortage of dam operators. The current dam operators are mainly from the third party. In relation to this, the next cooperation project hopefully can be focusing more on Dam Operation & Maintenance.
  2. According to the study about earthquake, we identified 81 points within the Republic which are potential of earthquake. However, the recent study found that these points are now increasing to 295 points. So, the emergency response for earthquake also became prioritized issue.

ANNEX 5

Monitoring Sheet

PROJECT MONITORING SHEET

Project Title: The Project on Capacity Development for RBOs in Integrated Water Resources Management in Indonesia (Phase 2)

Version of the Sheet: Ver.01 (Term: Jan. 2015 - Mar, 2016)

Name: Hirohisa Miura (Technical Expert),
Suzuki Kazushi (Project Coordinator

Submission Date: May 31st, 2016

I. Summary

1 Progress

1-1 Progress of Inputs

Japan Side

-Chief Advisor, January 12, 2015 to January 30, 2016

-Technical Expert, January 26, 2015 to Present

-Project Coordinator, April 20, 2015 to Present

Short Term Expert:

-Mr. Masahiro Sugiura, Dam Operation and Maintenance, January 31, 2016 to February 6, 2016

-Mr. Yasuhiro Ochii, Water User Coordination, February 21, 2016 to February 27, 2016

Indonesia Side

-Project Supervisor, Project Director and Project Manager

Mr. Mudjiadi, Director General of Water Resources, Project Supervisor

Mr. Arie Setiadi Moerwanto, Director General of Research and Development Agency (RDA), Project Supervisor

Ms. Anita Firmanti Eko Susetyowati, Director General of Human Resources Development Agency (HRDA), Project Supervisor

Mr. Agus Suprapto Kusmulyono, Director of Water Resources Management, DGWR, Project Director

Mr. William Marcus Putuhena, Head of Research and Development Center of WR (PUSAIR), RDA, Project Director

Mr. Suprapto, Head of Training Center for WR and Construction, HRDA, Project Director

Mr. Rahmat Suria Lubis, Head of Experimental Station for River, Research and Development Center of WR, Project Manager

Mr. Triyono Tulus Setyawan, Head of Sub-Dir. of WR Institutional, WR Management, DGWR, Project Manager

Mr. Eka Nugraha Abdi, Head of Sub-Dir. of Hydrology and WR Environment, WR Management, DGWR, Project Manager

1-2 Progress of Activities

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-Partially completed Needs Survey for Ciliwung/Cisadane and Sulawesi I RBOs to find out what their daily works and needs have been on going. (Activity 1.1, 1.2 and 1.3)

-Conducted a series of interviewing with RBO staff in Sulawesi I, especially with the relevant section and head of the RBO to confirm the result of analysis done by our expert. They all agreed the analysis and started to talk about possible activities in line with Activity 1.1, 1.2 and 1.3.

-Had had the first contact with Ciliwung/Cisadane RBO in late March, 2016. The RBO requested us to explain what the project was about. Our expert briefly introduced the result of analysis of their work as he did for Sulawesi I despite of the lack of needed materials. We will have a meeting soon to share the information and the result of analysis using new materials from the RBO (Activity 1.1, 1.2 and 1.3).

-Finished identifying candidate activities and possible CD plans for Sulawesi I and started for Ciliwung / Cisadane RBO. (Activity 1.4, 1.5).

-Finished collecting the latest benchmarking report for Sulawesi I and Ciliwung / Cisadane RBO. (Activity 1.7).

-Consulted with Human Resource Development Agency (HRDA) which is under Ministry of Public Works and Housing (PU) about capacity building (CD) training for 2016, we conducted two scheduled CD training out of eight for 2016. We had one Japanese short term expert for each CD training (Activity 2-1, 2-2, 2-6)

-Collected information of CD mechanisms for DGWR, PUSAIR and CRBOM (Activity 2-1)

-Started discussion regarding the development of practical CDF with HRDA. (Activity 2.2).

-Supported to create an official order to form "Project Implementation Unit (PIU) to have a better coordination among the relevant agencies. The decree also made it possible for PU to fund for the activities such as sending officer to seminar or financially support RBOs. (Activity 2-4)

-Started study on current benchmarking for Activity 2.5

-Supervised the trainings for RBOs based on CD plan and inspected the performance of CD activities. (Activity 2.6, 2.7).

-Finished making inventory list of guidelines and modules made by Phase 1 and created draft inventory of CD resources for Activity 3.1

-Started discussion with PUSAIR regarding improvement of existing

dissemination mechanism for CD (Activity 3-3)

-Started discussion with SDA, HRDA, PUSAIR and CRBOM for improving reliability of their CD activities. (Activity 3.5).

-Completed Executive Training in Japan (May 22nd to May 29th, 2016).

1-3 Achievement of Output

-Started study on current benchmarking at FP sites for indicator 1-3 of outputs 1

-Recognized eight CD activities as HRDA's official training for 2016. (Activity 2.2).

-Made draft inventory of CD resources for indicator 3-2 of output 3

1-4 Achievement of the Project Purpose

1-5 Changes of Risks and Actions for Mitigation

-There might be slight delay of the completion of the project since the chief of the project is no longer to stay in the team. Currently the project is short of expert. To minimize the risk, the team has hired three local technical experts to support the project.

-There was a slight changes of the organization within PU especially for the establishment of the Human Resource Development Agency (HRDA). This causes that the information the project team received previously might need to be rechecked. This might require some extra time to gather new information regarding capacity development activity in PU.

1-6 Progress of Actions undertaken by JICA

1-7 Progress of Actions undertaken by Gov. of Indonesia

1-8 Progress of Environmental and Social Considerations (if applicable)

N/A

1-9 Progress of Considerations on Gender/Peace Building/Poverty Reduction (if applicable)

N/A

1-10 Other remarkable/considerable issues related/affect to the project (such as other JICA's projects, activities of counterparts, other donors, private sectors, NGOs etc.)

2 Delay of Work Schedule and/or Problems (if any)

2-1 Detail

The analysis for Ciliwung / Cisadane in Activity 1-1 onwards has been delayed which also caused the delay of analytical work for Sulawei I.

2-2 Cause

The expert who is in charge of Activity 1-1 for Ciliwung / Cisadane has resigned due to the internal consideration in JICA earlier than it was planned which put more work load to Mr. Miura.

2-3 Action to be taken

To cover Output 2, a series of trainings related to river management to all RBOs, the project team might ask for additional short-term expert or consultant.

2-4 Roles of Responsible Persons/Organization (JICA, Gov. of Indonesia, etc.)

JICA is hiring technical personnel to fill in for vacancy of a team leader while JICA HQ is trying to find his successor.

3 Modification of the Project Implementation Plan

3-1 PO

Activity Schedule on PO was modified and approved at 1st JCC.

-Change of project start time from middle of 2014 to beginning of 2015

-Change of schedule on CD activity from 2016 to 2015

3-2 Other modifications on detailed implementation plan

(Remarks: The amendment of R/D and PDM (title of the project, duration, project site(s), target group(s), implementation structure, overall goal, project purpose, outputs, activities, and input) should be authorized by JICA HDQs. If the project team deems it necessary to modify any part of R/D and PDM, the team may propose the draft.)

4 Preparation of Gov. of Indonesia toward after completion of the Project.

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Project Monitoring Sheet II (Revision of Plan of Operation)

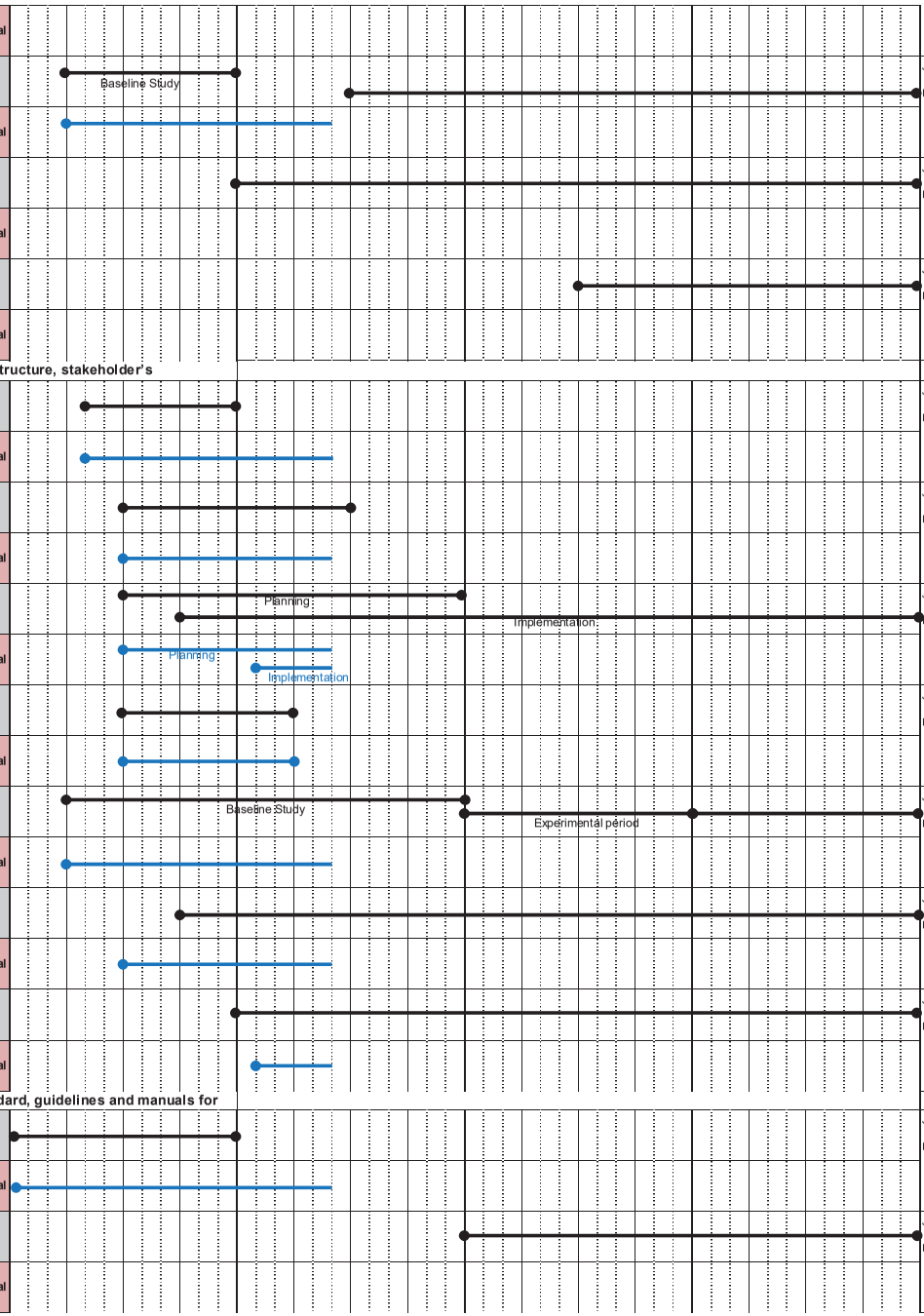
Version 1.0
Dated 2016/5/31

Project Title: The Project on Capacity Development for River Basin Organizations in Integrated Water Resources Management in the Republic of Indonesia (Phase II)

Inputs	Plan/Actual	2015 I	2015 II	2015 III	2015 IV	2016 I	2016 II	2016 III	2016 IV	2017 I	2017 II	2017 III	2017 IV	2018 I	2018 II	2018 III	2018 IV	Remarks	Monitoring: Issue	Monitoring: Solution
Expert																				
Chief Advisor	Plan	●															●			
	Actual	●																From 12/Jan/2015	-	-
Technical Expert	Plan	●															●			
	Actual	●																From 26/Jan/2015	-	-
Project Coordinator	Plan	●															●			
	Actual		●															From 20/Apr/2015	-	-
River Management (including Low Water Management)	Plan				●			●				●								
	Actual																	Under consideration	-	-
Flood and Drought Management	Plan				●				●				●							
	Actual																	Under consideration	-	-
Water Environment (including Water Quality Management, Sedimentation Management)	Plan				●			●				●								
	Actual																	Under consideration	-	-
Technical Materials Improvement	Plan				●	●				●				●						
	Actual																	Under consideration	-	-
Irrigation Water Management	Plan					●		●				●								
	Actual					●												Mr. Ochi, 21 Feb. 27 Feb.	-	-
Financial and Budget Management	Plan					●			●	●					●					
	Actual																	Under consideration	-	-
Stakeholder Coordination	Plan					●		●				●				●				
	Actual					●												Mr. Ochi, 21 Feb. 27 Feb.	-	-
Organization Structure Analysis and Enhancement	Plan					●			●	●					●					
	Actual																	Under consideration	-	-
Faclity Maintenance	Plan																			
	Actual					●												Dr. Sugiura 31 Jan. to 6 Feb.	-	-
Equipment																				
	Plan																			
	Actual																			
Training in Japan																				
Training in Japan	Plan				●				●				●				●			
	Actual						●											2015: for executives From 2016: for Practitioners	-	-
In-country/Third country Training																				
In-country Training for CD	Plan				●	●	●	●	●	●	●	●	●	●	●					
	Actual					●	●	●										Feb. 2016: Dam O/M, Water Allocation May 2016: Flood Management	-	-

Activities / Sub-Activities	Plan/Actual	2015 I	2015 II	2015 III	2015 IV	2016 I	2016 II	2016 III	2016 IV	2017 I	2017 II	2017 III	2017 IV	2018 I	2018 II	2018 III	2018 IV	Responsible Organization: Japan	Responsible Organization: Indonesia	Achievements	Issue & Countermeasures
Output 1: Integrated water resources management capacity of RBOs in field practice(FP) sites is improved																					
1.1 Analyze and break down the expected RBO's functions and roles into daily work activities.	Plan	●				●												Japan: JICA project team	Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	-Finish analysis Expected Functions for Sulawesi I -Started Discussion with Cili/Cis	-
	Actual	●					●														
1.2 Identify current functions and roles, and the actual daily work activities of several RBOs, and sort out the activities to be strengthened by comparing the actual activities with the ideal functions and roles mentioned above in 1-1	Plan	●				●												Japan: JICA project team	Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	-Finish identifying and sorting out at Sulawesi I -Started identiying and sorting out at Cili/Cis	-
	Actual	●					●														
1.3 Identify priority issues, which are necessary to be tackled with stakeholders as common and important targets, in the selected RBOs as pilot fields	Plan		●			●												Japan: JICA project team	Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	-Finish identifying candidate issues at Sulawesi I -Started identiying at Cili/Cis	-
	Actual		●				●														
1.4 Identify concrete work activities to tackle the priority issues recognized in "1-3", and area of the capacity development necessary for those work activities in the selected RBOs	Plan		●			●												Japan: JICA project team	Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	-Finish identifying candidate work activities at Sulawesi I -Started identiying at Cili/Cis	-
	Actual		●				●														
1.5 Make short- and middle- term CD plans to accomplish the capacity development recognized in "1-4" in the selected RBOs. Especially middle-term CD plan is made based on the output of 1-1, 1-2.	Plan			●				●										Japan: JICA project team	Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	Started discussion with Sulawesi I and Cili/Cis	-
	Actual			●			●														
1.6 Carry out the capacity development activities* based on the CD plans and the work activities for	Plan				●												●	Japan: JICA project team	Indonesia: PU	Not yet started	-

based on the CD plans and the work activities for the priority issues, in the selected RBOs.	Actual	RBO Ciliwung/Cisadane, RBO Sulawesi I	Not yet started	-
1.7 Evaluate regularly the capacity of the RBOs through the progress on implementation of CD plans including the trainings, and the daily work activities to the priority issues, by various methods such as interviews to the staff, existing RBO benchmarking indicators and job assessment.	Plan	Japan: JICA project team Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	Finished collecting latest benchmarking report at Cili/Cis and Sulawesi I	-
	Actual			
1.8 Consolidate good or bad practices, lessons and challenges learnt through the field practices, based on the output of "1-7"	Plan	Japan: JICA project team Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	Not yet started	-
	Actual			
1.9 Improve the each CD plans, considering the output of 1-8, and carry out the revised plans in the selected RBOs.	Plan	Japan: JICA project team Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	-	-
	Actual			
Output 2: Capacity Development Framework (CDF) for RBO, including organizational structure, stakeholder's				
2.1 Review the existing CD mechanisms and activities by the key players (DGWR, PUSAIR, CRBOM, PUSDIKLAT), including the Capacity Development System established by the RBO I project	Plan	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	Started discussion and finished collecting information from DGWR, PUSAIR, CRBOM)	CD machanism was changed on Jun. 2015 (Human Resources Development Agancy (HRDA) is newly established)
	Actual			
2.2 Develop formal and practical CDF to supervise CD activities*, clarifying organizational structure, related players' (DGWR, PUSAIR, CRBOM and PUSDIKLAT) responsibilities and training framework for RBO staff on the basis of the related regulations	Plan	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	Started discussion with HRDA	-
	Actual			
2.3 Make and carry out short- and mid-term plans of CD activities for RBOs across the country under CDF, considering the progress of the field practice. (mid-term CD plan includes progressive trainer certification program)	Plan	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	-Finished making training plan of 2016 -Conduced three (3) trainings	-
	Actual			
2.4 Establish regular coordination committee to supervise the PDCA cycle of CD activities and coordinate the needs of RBOs on CD.	Plan	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	Finished establishment of the committee (PIU)	-
	Actual			
2.5 Evaluate the capacity of RBOs periodically and improve the benchmarking mechanism, considering the method of existing benchmarking mechanism for RBOs and the outputs of 1-1 and 1-2.	Plan	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	Started Study on current benchmarking	-
	Actual			
2.6 Supervise the trainings for RBOs based on the CD plan, and support the trainings operated by relevant organizations in coordination with long-term and short-term experts.	Plan	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	Started supervision and operation of trainings with HRDA	-
	Actual			
2.7 Inspect the performance of CD activities for RBOs and reflect its result into the revised CD plans and the CD resources including the technical guidelines/manuals and the training materials	Plan	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	Started evaluation of each trainings by questionnares	-
	Actual			
Output 3: Accessibility to and reliability of the CD resources, including technical standard, guidelines and manuals for				
3.1 Make an inventory of the CD resources (e.g. existing guidelines, draft guidelines, manuals, training/ dissemination materials, and trainers).	Plan	Japan: JICA project team Indonesia: PU PUSAIR CRBOM PUSDIKLAT	-Finished making inventory of guidelines and modules that made by phase 1 -Made draft inventory of CD resources	-
	Actual			
3.2 Implement a PDCA cycle mechanism to improve the reliability of the CD resources, utilizing CDF and the output of the field practices	Plan	Japan: JICA project team Indonesia: PU PUSAIR CRBOM PUSDIKLAT	-	-
	Actual			



3.3 Improve the existing dissemination mechanism for RBO staff which needs easy accesses to the existing materials and information, in order to ensure effectiveness, efficiency and sustainability of CD activities.	Plan	Japan: JICA project team Indonesia: PU PUSAIR CRBOM PUSDIKLAT RBOs	Started discussion with PUSAIR	-
	Actual			
3.4 Conduct workshops and seminars to promote and facilitate more frequent, effective and efficient use of CD resources	Plan	Japan: JICA project team Indonesia: PU PUSAIR CRBOM PUSDIKLAT RBOs	-	-
	Actual			
3.5 Support the relevant organizations in improving reliability of their CD resources	Plan	Japan: JICA project team Indonesia: PU PUSAIR CRBOM PUSDIKLAT RBOs	Started discussion with SDA, HRDA, PUSAIR and CRBOM (DUWRMT)	-
	Actual			
Duration / Phasing	Plan			
	Actual			

Monitoring Plan		2015 I	2015 II	2015 III	2015 IV	2016 I	2016 II	2016 III	2016 IV	2017 I	2017 II	2017 III	2017 IV	2018 I	2018 II	2018 III	2018 IV	Remarks	Issue	Solution
Monitoring																				
Joint Coordination Committee	Plan	●				●				●				●		●				
	Actual		●															**First JCC on 11th June**	-	-
Set-up the Detailed Plan of Operation	Plan	●	●																	
	Actual	●	●															**Revised PO at 1st JCC**	-	-
Submission of Monitoring Sheet	Plan			●		●		●		●		●		●		●	●			
	Actual																	-	-	-
Monitoring Mission from Japan	Plan																			
	Actual																	-	-	-
Joint Monitoring	Plan																			
	Actual																	-	-	-
Post Monitoring	Plan																			
	Actual																	-	-	-
Reports/Documents																				
	Plan																			
	Actual																			
Project Completion Report	Plan																●			
	Actual																	-	-	-
Public Relations																				
Project web site	Plan				Establishment	●					Operation						●			
	Actual																	-	-	-
	Plan																			
	Actual																			

PROJECT MONITORING SHEET

Project Title: The Project on Capacity Development for RBOs in Integrated Water Resources Management in Indonesia (Phase 2)

Version of the Sheet: Ver.02 (Term: January, 2017 to March 2017)

Name: Hirohisa Miura (Technical Expert),

Suzuki Kazushi (Project Coordinator)

Submission Date: 7th March 2017

I. Summary

1 Progress

1-1 Progress of Inputs

Japan Side

-Chief Advisor, January 12, 2015 to January 30, 2016
-Technical Expert, January 26, 2015 to Present
-Project Coordinator, April 20, 2015 to Present

Short Term Expert:

-Mr. Masahiro Sugiura, Dam Operation and Maintenance, January 31, 2016 to February 6, 2016
-Mr. Yasuhiro Ochii, Water User Coordination, February 21, 2016 to February 27, 2016
-Mr. Kunihiro Moriyasu, River Management, July 31 2016 to August 13 2016
-Mr. Morio Ozawa, Flood Management (Water Related Disaster Management), November 14 2016 to November 19 2016

Indonesia Side

-Project Supervisor, Project Director and Project Manager
-Mr. Mudjiadi, Director General of Water Resources, Project Supervisor (Then)
-Mr. Arie Setiadi Moerwanto, Director General of Research and Development Agency (RDA), Project Supervisor (Then)
-Ms. Anita Firmanti Eko Susetyowati, Director General of Human Resources Development Agency (HRDA), Project Supervisor (Then)
-Mr. Agus Suprapto Kusmulyono, Director of Water Resources Management, DGWR, Project Director
-Mr. William Marcus Putuhena, Head of Research and Development Center of WR (PUSAIR), RDA, Project Director
-Mr. Suprapto, Head of Training Center for WR and Construction, HRDA, Project Director
-Mr. Rahmat Suria Lubis, Head of Experimental Station for River, Research and Development Center of WR, Project Manager
-Mr. Triyono Tulus Setyawan, Head of Sub-Dir. of WR Institutional, WR Management, DGWR, Project Manager
-Mr. Eka Nugraha Abdi, Head of Sub-Dir. of Hydrology and WR Environment, WR Management, DGWR, Project Manager

1-2 Progress of Activities

Activity 1

BWS Sulawesi I (Manado) (1-1 to 1-5)

-Had a series of meetings with BWS Sulawesi I, one of two field practice sites. All of these activities were achieved and shared and approved by the RBO.

Number of Visit to BWS Sulawesi I in the period is once, (Total of six times)

BBWS Ciliwung Cisadane (1-1 to 1-5)

-Received various kinds of documents, namely POLA (Water Resources Management Strategy in Ciliwung Cisadane), Accountability Report 2015 (Annual Activity Report) and Self-Assessment Report 2013 to start analysis for Activity 1 in March 2016 from BBWS Ciliwung Cisadane. Will be used for analysis. Will continue to have meetings to deepen the analysis.

(1-7)

-Received a new version of Benchmarking Report from BBWS Ciliwung Cisadane and being in the process of reanalysis.

Number of Visit to BBWS Ciliwung Cisadane in the period is twice, (Total of ten times)

Activity 2 (2-1)

-Had a meeting with HRDA and CRBOM to confirm the responsibility for CD resources but remained unclear who has it.

(2-2 to 2-3)

-Analyzed the results of the Pre / Posttest and questionnaire conducted in all eight trainings in 2016. Made a CD plan for 2017 using the analysis. Confirmed by PIU and HRDA. (Attachment: Result of the Trainings in Indonesia 2016)

(2-3)

-Created and confirmed a yearly training plan for 2017 by PIU meeting in December in 2016.

(2-5)

-Discussed benchmarking practice at the recipient ministry with Director Agus and Mr. Tulus, HRDA and CRBOM. Seek the advice for our next training "Assessment for B(B)WS's Performance for Benchmarking" in March 2017.

(2-6)

-Conducted instructors conference for "Assessment for B(B)WS's Performance for Benchmarking". Some of the instructors are retired personnel of the recipient ministry as it was approved by PIU meeting in December in 2016.

(2-6)

-Conducted eight capacity development trainings for 2016.

(2-6 to 2-7)
- Suggested and confirmed regarding the recruiting retired personnel as instructor for the training.

-Completed executive training in Japan (May 22 – May 29, 2016)
-Completed executive / technicians training in Japan (October 29 – November 16, 2016)

The cost of trainings: 442,800,000 IDR
The number of Participants and Cost
Training 1 – 26 (Dam Operation & Maintenance)
Approx. 104,800,000 IDR
Training 2 - 26 (Water Allocation)
Approx. 51,200,000 IDR
Training 3 - 33 (Flood Management)
Approx. 107,000,000 IDR
Training 4 - 33 (River Facility Maintenance)
Approx. 15,000,000 IDR
Training 5 - 30 (Maintenance for Water Resources Infrastructures)
Approx. 70,800,000 IDR
Training 6 - 23 (Water Quality Management in Urban Rivers)
Approx. 15,000,000 IDR
Training 7 - 26 (Operation & Maintenance for Irrigation)
Approx. 68,000,000 IDR
Training 8 – 23 (River Rehabilitation)
Approx. 11,000,000 IDR

Total Number of Participants: 220
Total Cost for eight trainings: Approx. 442,800,000 IDR
Total Number of Japanese Short Term Expert: 4

Activity 3
(3-1, 3-3)
-Continue to collect more information to update draft CD Resource Inventory. Also keep arguing how the dissemination mechanism should be improved with HRDA, PUSAIR and CRBOM.

(3-3)
-Distribute teaching material to all the participants for each trainings conducted by the project.

(3-5)
-Discussed in December the roles of each agency for the CD resources especially HRDA and CRBOM in order to update modules that were created Phase 1 of the project. Continue to decide the details of the update plan.

1-3 Achievement of Output

-Report of Activity 1-1, 1-2, 1-3, 1-4, 1-5 for BWS Sulawesi I for indicator 1-1 and 1-2 of output 1

-Draft Report of Activity 1-1 for BBWS Ciliwung Cisadane for indicator 1-1 and 1-2 of output 1

-Collected updated benchmarking report at FP sites for indicator 1-3 of output 1

-Conducted eight (8) trainings in Indonesia and the report for indicator 2-1, 2-3 for output 2

-2017 Annual Plan of trainings in Indonesia for indicator 2-3 of output 2

-Started study on current benchmarking at FP sites for indicator 1-3 of outputs 1

-Made draft inventory of CD resources for indicator 3-2 of output 3

1-4 Achievement of the Project Purpose

-Eight capacity development training were conducted and a total of 220 staffs are participated.

1-5 Changes of Risks and Actions for Mitigation

-There might be slight delay of the completion of the project since the chief of the project is no longer to stay in the team. Currently the project is short of expert. To minimize the risk, the team has hired three local technical experts to support the project.

-There was a slight changes of the organization especially for the establishment of the Human Resource Development Agency (HRDA). This causes that the information the project team received previously might need to be rechecked. This might require some extra time to gather new information regarding capacity development activity.

1-6 Progress of Actions undertaken by JICA

1-7 Progress of Actions undertaken by Gov. of Indonesia

- The involvement of the Indonesian government has increased especially the formulation of PIU for the project.

-Smooth allocation of budget for the trainings and project activities.

-Various support by the counterparts are provided by PU.

1-8 Progress of Environmental and Social Considerations (if applicable)

N/A

1-9 Progress of Considerations on Gender/Peace Building/Poverty Reduction (if applicable)
N/A

1-10 Other remarkable / considerable issues related / affect to the project (such as other JICA's projects, activities of counterparts, other donors, private sectors, NGOs etc.)

2 Delay of Work Schedule and/or Problems (if any)

2-1 Detail
The analysis for Ciliwung / Cisadane in Activity 1-1 onwards has been delayed which also caused the delay of analytical work for Sulawesi I.

- Activity 1-1 to 1-6 for BBWS Ciliwung Cisadane have delayed.
- Activity 1-6 for BWS Sulawesi I has delayed.
- Activity 2-1, 2-2 and 3-1 have not yet completed.

2-2 Cause
- Chief of the project, who was responsible for Activity 1 for BBWS Ciliwung Cisadane and some trainings for Activity 2, has gone back to Japan in January 2016. No replacement has been dispatched.

- On top of the lack of personnel, PUPR asked the experts that eight planned trainings needed to be conducted. Mr. Miura and Mr. Suzuki had to ensure that trainings would be conducted as planned which caused some delays to other part of project.

2-3 Action to be taken
- To cover Output 2, a series of trainings related to river management to all RBOs, the project team might ask for additional short-term expert or consultant.

- It took a longer than expected to dispatch a new expert to replace chief of the project and the project is already in the middle of its commitment period. The project members are now seeking for a realistic solution to manage the project by utilizing local experts.

2-4 Roles of Responsible Persons/Organization (JICA, Gov. of Indonesia, etc.)
-The project needs enough budget to hire highly skilled local personnel who have sufficient experience in the recipient ministry.

3 Modification of the Project Implementation Plan

3-1 PO
-There are some changes in PO.

3-2 Other modifications on detailed implementation plan

(Remarks: The amendment of R/D and PDM (title of the project, duration, project site(s), target group(s), implementation structure, overall goal, project purpose, outputs, activities, and input) should be authorized by JICA HDQs. If the project team deems it necessary to modify any part of R/D and PDM, the team may propose the draft.)

4 Preparation of Gov. of Indonesia toward after completion of the Project.

-The recipient ministry is better to have a pooling mechanism for the instructors of capacity development training.

-The recipient ministry is also better to have clear mechanism of updating training material for better implementation of the capacity development activities.

Project Monitoring Sheet II (Revision of Plan of Operation)

Version 1.1
Dated 2017/03/07

Project Title: The Project on Capacity Development for River Basin Organizations in Integrated Water Resources Management in the Republic of Indonesia (Phase II)

Inputs	Plan/Actual	2015 I	2015 II	2015 III	2015 IV	2016 I	2016 II	2016 III	2016 IV	2017 I	2017 II	2017 III	2017 IV	2018 I	2018 II	2018 III	2018 IV	Remarks	Monitoring: Issue	Monitoring: Solution
Expert																				
Chief Advisor	Plan	●															●	From 12/Jan/2015	-	-
	Actual	●																		
Technical Expert	Plan	●															●	From 26/Jan/2015	-	-
	Actual	●																		
Project Coordinator	Plan	●															●	From 20/Apr/2015	-	-
	Actual		●																	
River Management (including Low Water Management)	Plan				●			●				●						Mr. Moriyasu 31 July to 12 Aug.	-	-
	Actual							●												
Flood and Drought Management	Plan				●				●				●					Mr. Ozawa 14 Nov. to 18 Nov.	-	-
	Actual								●											
Water Environment (including Water Quality Management, Sedimentation Management)	Plan				●			●				●						(Mr Hayakawa, JICA Expert, 27 Sep. to 29 Sep.)	-	-
	Actual																			
* Technical Materials Improvement	Plan					●	●				●	●			●	●		Under consideration	-	-
	Actual																			
Irrigation Water Management	Plan					●	●				●							Mr. Ochi, 21 Feb. 27 Feb.	-	-
	Actual					●														
~~Financial and Budget Management~~	Plan					●			●	●					●			Under consideration	-	-
	Actual																			
~~Stakeholder Coordination~~	Plan					●	●				●				●			Mr. Ochi, 21 Feb. 27 Feb.	-	-
	Actual					●														
~~Organization Structure Analysis and Enhancement~~	Plan					●			●	●					●			Under consideration	-	-
	Actual																			
Facility Maintenance	Plan																	Dr. Sugiura 31 Jan. to 6 Feb.	-	-
	Actual					●														
Equipment																				
	Plan																			
	Actual																			
Training in Japan																				
Training in Japan	Plan				●				●				●				●			
	Actual						●		●									It takes time to be approved by Minister.	None	
In-country/Third country Training																				
In-country Training for CD	Plan				●	●	●	●	●	●	●	●	●	●	●				-	-
	Actual					●	●	●	●											

Activities / Sub-Activities	Plan/Actual	2015 I	2015 II	2015 III	2015 IV	2016 I	2016 II	2016 III	2016 IV	2017 I	2017 II	2017 III	2017 IV	2018 I	2018 II	2018 III	2018 IV	Responsible Organization: Japan	Responsible Organization: Indonesia	Achievements	Issue & Countermeasures
Output 1: Integrated water resources management capacity of RBOs in field practice(FP) sites is improved																					
1.1 Analyze and break down the expected RBO's functions and roles into daily work activities.	Plan	●				●												Japan: JICA project team	Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	-Finish analysis Expected Functions for Sulawesi I -Continue Discussion with Cili/Cis	-
	Actual	●																			
1.2 Identify current functions and roles, and the actual daily work activities of recommended ~~several~~ RBOs, and sort out the activities to be strengthened by comparing the actual activities with the ideal functions and roles mentioned above in 1-1	Plan	●				●												Japan: JICA project team	Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	-Finish identifying and sorting out at Sulawesi I -Continue identifying and sorting out at Cili/Cis	-
	Actual	●																			
1.3 Identify priority issues, which are necessary to be tackled with stakeholders as common and important targets, in the selected RBOs as pilot fields	Plan		●			●												Japan: JICA project team	Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	-Finish identifying candidate issues at Sulawesi I -Continue identifying at Cili/Cis	-
	Actual		●																		

Inputs	Plan / Actual	2015 I	2015 II	2015 III	2015 IV	2016 I	2016 II	2016 III	2016 IV	2017 I	2017 II	2017 III	2017 IV	2018 I	2018 II	2018 III	2018 IV	Remarks	Issue	Solution
1.4 Identify concrete work activities to tackle the priority issues recognized in "1-3", and area of the capacity development necessary for those work activities in the selected RBOs	Plan																	Japan: JICA project team Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	-Finish identifying candidate work activities at Sulawesi I -Continue identifying at Cili/Cis	-
	Actual																			
1.5 Make short- and middle- term CD plans to accomplish the capacity development recognized in "1-4" in the selected RBOs. Especially middle-term CD plan is made based on the output of 1-1, 1-2.	Plan																	Japan: JICA project team Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	-Finish making Draft Short Term CD Plan for Sulawesi I -Continue discussion with Cili/Cis	-
	Actual																			
1.6 Carry out the capacity development activities* based on the CD plans and the work activities for the priority issues, in the selected RBOs.	Plan																	Japan: JICA project team Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	Not yet started	-
	Actual																			
1.7 Support the selected RBOs to evaluate regularly the capacity of the RBOs through the progress on implementation of CD plans including the trainings, and the daily work activities to the priority issues, by various methods such as ~~interviews to the staff,~~ existing RBO benchmarking indicators and job assessment.	Plan			Baseline Study														Japan: JICA project team Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	Finished collecting latest benchmarking report at Cili/Cis and Sulawesi I for "Baseline Study"	-
	Actual																			
1.8 Consolidate good or bad practices, lessons and challenges learnt through the field practices, based on the output of "1-7"	Plan																	Japan: JICA project team Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	Not yet started	-
	Actual																			
* 1.9 Improve the each CD plans, considering the output of 1-8, and carry out the revised plans in the selected RBOs.	Plan																	Japan: JICA project team Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	-	-
	Actual																			
Output 2: Capacity Development Framework (CDF) for RBO, ~~including organizational structure, stakeholder's responsibilities and training framework,~~ is developed and operated																				
2.1 Review the existing CD mechanisms and activities by the key players (DGWR, PUSAIR, CRBOM, PUSDIKLAT), including the Capacity Development System established by the RBO I project	Plan																	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	Continue discussion and finished collecting information from DGWR, PUSAIR, CRBOM)	CD mechanism was changed on Jun. 2015 (Human Resources Development Agency (HRDA) is newly established)
	Actual																			
2.2 ~~Develop formal and practical CDF to~~ supervise CD activities*, clarifying ~~organizational structure,~~ related players' (DGWR, PUSAIR, CRBOM and PUSDIKLAT) responsibilities and training framework for RBO staff on the basis of the related regulations	Plan																	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	Continue discussion with HRDA, DGWR	-
	Actual																			
2.3 Make and carry out short- and mid-term plans of CD activities for RBOs across the country under CDF, considering the progress of the field practice. ~~(mid-term CD plan includes progressive trainer certification program)~~	Plan			Planning							Implementation							Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	-Finished making training plan of 2017 -Conduced eight (8) trainings	-
	Actual			Planning		Implementation														
2.4 Establish regular coordination committee to supervise the PDCA cycle of CD activities and coordinate the needs of RBOs on CD.	Plan																	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	Finished establishment of the committee (PIU)	-
	Actual																			
2.5 ~~Evaluate the capacity of RBOs periodically and~~ improve the benchmarking mechanism, considering the method of existing benchmarking mechanism for RBOs and the outputs of 1-1 and 1-2.	Plan				Baseline Study						Experimental period							Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	Continue study on current benchmarking Conducted BM training	-
	Actual					Baseline Study				Experimental period										
2.6 Supervise the trainings for RBOs based on the CD plan, and support the trainings operated by relevant organizations in coordination with long-term and short-term experts.	Plan																	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	Supported CD trainings in PU. 8 training are conducted.	-
	Actual																			

Inputs	Plan / Actual	2015 I	2015 II	2015 III	2015 IV	2016 I	2016 II	2016 III	2016 IV	2017 I	2017 II	2017 III	2017 IV	2018 I	2018 II	2018 III	2018 IV	Remarks	Issue	Solution
2.7 Monitor ~~Inspect~~ the performance of CD activities for RBOs and reflect its result into the revised CD plans and the CD resources including the technical guidelines/manuals and the training materials	Plan					●											●	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	Evaluated of each training by Pre/Post Test and questionnaires	-
	Actual					●				●										
Output 3: Accessibility to and reliability of the CD resources, including technical standard, guidelines and manuals for IWRM, are improved																				
3.1 Make an inventory of the CD resources (e.g. existing guidelines, draft guidelines, manuals, training/ dissemination materials, and trainers).	Plan	●			●													Japan: JICA project team Indonesia: PU PUSAIR CRBOM PUSDIKLAT	-Finished making inventory of guidelines and modules that made by phase 1 -Made draft inventory of CD resources	-
	Actual	●								●										
3.2 ~~Implement a PDCA cycle mechanism to~~ improve the reliability of the CD resources, utilizing CDF and the output of the field practices	Plan									●			●					Japan: JICA project team Indonesia: PU PUSAIR CRBOM PUSDIKLAT	Disscused among related agencies	-
	Actual									●										
3.3 Improve the existing dissemination mechanism for RBO staff which needs easy accesses to the existing materials and information, in order to ensure effectiveness, efficiency and sustainability of CD activities.	Plan			●									●					Japan: JICA project team Indonesia: PU PUSAIR CRBOM PUSDIKLAT RBOs	Continue discussion with DGWR, PUSAIR, CRBOM Distributed training materials to the participants	-
	Actual			●						●										
3.4 Conduct workshops and seminars to promote and facilitate more frequent, effective and efficient use of CD resources	Plan									●				●				Japan: JICA project team Indonesia: PU PUSAIR CRBOM PUSDIKLAT RBOs	-	-
	Actual																			
* 3.5 Support the relevant organizations in improving reliability of their CD resources	Plan			●									●					Japan: JICA project team Indonesia: PU PUSAIR CRBOM PUSDIKLAT RBOs	Continue discussion with DGWR, HRDA, PUSAIR and CRBOM (DUWRMT) Disscused among related agencies	-
	Actual			●						●										
Duration / Phasing	Plan																			
	Actual																			

Monitoring Plan	Plan / Actual	2015 I	2015 II	2015 III	2015 IV	2016 I	2016 II	2016 III	2016 IV	2017 I	2017 II	2017 III	2017 IV	2018 I	2018 II	2018 III	2018 IV	Remarks	Issue	Solution
Monitoring																				
Joint Coordination Committee	Plan	●			●			●		●			●			●		1st JCC on 11th June 2015 2nd JCC on 26 July 2016	-	-
	Actual		●				●													
Set-up the Detailed Plan of Operation	Plan	●	●															Revised PO at 1st JCC	-	-
	Actual	●	●																	
Submission of Monitoring Sheet	Plan			●		●		●		●		●		●		●	●	-	-	-
	Actual						●			●										
Monitoring Mission from Japan	Plan																	-	-	-
	Actual																			
Joint Monitoring	Plan																	-	-	-
	Actual																			
Post Monitoring	Plan																	-	-	-
	Actual																			
Reports/Documents																				
	Plan																			
	Actual																			
Project Completion Report	Plan																●	-	-	-
	Actual																			
Public Relations																				
* **Project Web Site**	Plan				●	●												-	-	-
	Actual																			

1-1 Result of the Trainings in Indonesia 2016

No.	Title	Venue	Duration	Objectives	Participants	Lectures and Lecturers	Field Study	Result of Test	Questionaire
1	Dam Operation and Maintenance	Malang (Balai DIKLAT Surabaya)	4 days, Feb 2nd to 5th	-Government of Indonesia has started to build 65 dams in 5 years -Knowing effective ways to operate and maintain these dams	**Number** : 26 **Organization** : B(B)WSs, Balai Bendungan, Direktorat Bina OP, Direktorat Bina PSDA, Pusat Bendungan, Dinas PU Provinsi dan Kab.	From Indonesia side -Status of Dam O/M, Ir. Joko Mulyono, ME -Dam Safety and Dam Body Observation, Ir. Achmad Zubaedi, ME -Water Balance of Dam Reservoir, Drs. Petrus Syariman, MT -Sediment Management, Ir. Iman Mardjianto, Dipl, HE From Japan side -Outline of Dam O/M -Maintenance Work of Telecommunication/Mechanical Facility -Integrated Flood Control of Dams	Topic -Dam Safety -Operation / Maintenance -Sediment Management Sites -Sutami Dam -Lahor Dam -Sengguruh Dam	Average score of questions on -legal aspect -Dam Safety -Sediment Management were lower than score of other topics	"Sediment Management" in the field of Dam O/M was raised as an important issue.
2	Water Allocation	Makassar (Balai DIKLAT Makassar)	4 days, Feb 23rd to 26th	-B(B)WS will have to implement water service fee collection from water user -Knowing more about: -Legal Aspect -Data preparation for calculation on water demond, -Coordination with water users.	**Number** : 26 **Organization** : B(B)WSs, Balai Bendungan, Direktorat Bina OP, Direktorat Bina PSDA, Dinas PU Provinsi dan Kab.	From Indonesia side -Water Balance, by Dr. Eka Nugraha A., ST, MPPM, PDS -Water Allocation Planning and Current Status, Sudarsono, ATP, CES -SIPA (Water Use Permit System), by Ir. Saroni Soegiarto, ME -Water Service Fee System, by Ir. Triyono Tulus Setyawan, M. Eng From Japan side -Water User Coordination and Water Distribution for Irrigation -Water Use Right and Water User Charge for O/M	Topic -Operation for Water distribution -Stakeholders Coordination -Intake and distribution for irrigation Site -Bili-Bili Dam -Bili-Bili irrigation Areas, -PDAM Makassar	Average score of questions on -Water Balance Calculation -SIPPA -Water Service Fee -Water User Coordination were lower than score of other topics	"Water balance" and "Water Allocation" in the field of Water Allocation was raised as an important issue.
3	Flood Management	Manado (Balai DIKLAT Makassar)	4 days, May 10th to 13th	Understand more about : -Flood Management and Master Planning -Warning system for flood -Integrated Water Resources Management, especially flood management	**Number** : 33 **Organization** : B(B)WSs, Dinas PU Provinsi dan Kab, Dinas PSDA Prov. Dan Kab.	From Indonesia side -Current Status and Basic Knowledge of Flood, by Ir. Birendrajana, MT -Flood Warning System, by Dr. Eka Nugraha Abdi, ST, MPPM, PDS From Japan side -Comprehensive Structural Measures for Flood -Regional Disaster Management Planning -Example of Master Flood Management Plan inTondano River Basin -Example of Structural Measures for Flood in Tondano River Basin	Topic -Emergency response -Demonstration of AR technology river water level observation Site -BPBD Sulawesi Utara -Inundated areas at Tondano, Tikala and Sario Rivers	Average score of questions on -Early Warning System were lower than score of other topics	"Designing / building Structural Measures for Flood" in the field of Flood Management was raised as an important issue.
4	River Facility Maintenance	Jakarta (Balai DIKLAT III Jakarta)	4 days, Aug. 9th-12th, 2016	Knowing better about : -Maintenance Work for River Facility -Database and inventory -Practical maintenance works for river facility	**Number** : 33 **Organization** : B(B)WSs, Direktorat Pengembangan Jaringan SDA, Dinas SDA Prov.	From Indonesia side -Legal Aspect and Current Status, by Mr. Hendra Ahyadi, ST, MT -Database of River Facility, by Dr. Ismail Widadi, ST, M.Sc -River Facility Inventory for Maintenance, by Mr. Hendra Ahyadi, ST, MT -Practical Maintenance Works focusing on Weir, by BBWS Cil Cis From Japan side -Maintenance Works of River and Facility -River Facility Inventory for maintenance work	Topic -Maintenance/inspection of structures (weir, flood way) and equipment/instrument Site -Katulampa Weir -East Banjir Canal -Manggarai Gate	Average score of questions on -Legal Farmework -Database and Inventory were lower than score of other topics	"Database & Inventory Facility" in the field of Flood Management was raised as an important issue.
5	Maintenance for Water Resources Infrastructure (WRI)	Bandung (Balai DIKLAT Bandung)	4 days Aug 30th to Sep 2nd.	Understand more about : -Maintenance Works for WRI -Databse and Inventory for Maintenance -Asset Management of WRI -Practical Maintenance works	**Number** : 30 **Organization** : B(B)WSs, Inspektorat Jenderal PUPR, Direktorat PJ SDA, Balai Diklat IV Bandung.	From Indonesia side -Legal Aspect and Current Status, by Ir. Muhammad Asdin Thalib, MT -Database of WRI, by Dr. Ismail Widadi, ST, M.Sc -Inventory of WRI for Maintenance, by Ir. Sarwono Sukardi, Dipl. HE -Practical Maintenance Works for small scale dam, by BBWS Citarum -Practical Maintenance Works for Hydrology Network, by PUSAIR From Japan side -Asset Management of Water Resources Infrastructures -Maintenance Works of Dam	Topic -Observation of 1) Deformation of dam body, 2) Seepage, for dam safety -Practical maintenance work for Hydrological Instrument Site -Cileunca & Cipanunjang Dam, -Lab. Hydrology Ciparay	Average score of questions on -Legal Farmework -Database and Inventory were lower than score of other topics	"Database & Inventory Facility" in the field of Flood Management was raised as an important issue.
6	Water Quality Management in Urban Rivers	Jakarta (Balai DIKLAT III Jakarta)	4 days, Sep. 27th-30th, 2016	Understand more about : -Water Pollution Control Policy -Water Quality Monitoring and Management	**Number** : 23 **Organization** : B(B)WSs, BMSDA Kota, DBM Kota, PJT II.	From Indonesia side -Water Pollution Control Policy, by Ir. SPM Budisusanti, Msc. -Water Quality Monitoring, by Dr. Eka Nugraha Abdi, ST, MPPM, PDS, -Effluent control/Wastewater Treatment, by DINAS Tata Air, DKI Jakarta, -Response for water quality problem, by PJT II, -Water quality management at Cilliwung River, by BBWS Cil Cis From Japan side -Water Pollution Control Policy and Management -River Water Quality Management Policy	Topic -Technical mechanism of water treatment -O/M of the plant Sites -Waduk Setia Budi -Waduk Melati	Average score of questions on -Legal Frame Works were lower than score of other topics	"Monitoring river water quality" in the field of Flood Management was raised as an important issue.
7	Operation and Maintenance for Irrigation	Surabaya (Balai DIKLAT Surabaya)	4 days Oct 18th to 21st	Understand more about : -Water Distribution Planning and Operation -Operation & Maintenance of Irrigation -Water User Coordination	**Number** : 26 **Organization** : B(B)WSs, BMSDA/DBM Provinsi dan Kab, PJT I.	From Indonesia side -Legal Aspect and Current Status of O/M of Irrigation, by Ir. Djito, Sp.1, -Water Distribution for Agriculture Products, by Ir. Djito, Sp.1, -O/M of Irrigation Dam, by Mr. M. Adek Rizaldi, ST, M.Tech, -O/M Works of Irrigation as Regulator by BBWS Brantas, -Water User Coordination on Water Allocation, by PJT I From Japan side -Operation and Maintenance of Irrigation	Topic -Operation method for water distribution -Hydrological data observation, monitoring and sharing - Coordination with stakeholders Site -Bendung Lengkong Baru -Delta Brantas Irrigation Area	Average score of questions on -Irrigation Canal System were lower than score of other topics	"Water Allocation Planning" in the field of Flood Management was raised as an important issue.
8	River Rehabilitation	Jakarta (Balai DIKLAT III Jakarta)	4 days, Nov. 15th-18th, 2016	5-year strategic plan of PUPR 2015 – 2019 mentions "Rehabilitation of Structures, dyke, drainage system and so on". Knowing better about: -Legal aspect -Technical points for investigation/design	**Number** : 23 **Organization** : B(B)WSs, Dinas Tata Air DKI Jakarta, PJT II.	From Indonesia side -Natural Disasters and Management Policy, by Mr. M. Robi Amri -Emergency response policy flood, by Ir. Muhammad Asdin Thalib, MT -River Information/Warning, by Dr. Eka Nugraha Abdi, ST, MPPM, PDS -Emergency response for Flood, by Ir. Bastari, M Eng. BBWS Cil Cis, -Technical points for investigation/design of River Rehabilitation From Japan side -Operations as Disaster Risk Reduction by RBO in Japan -Legal system for Rehabilitation of Disaster-Stricken Public Facilities, and Engineering restoration work method for "Build Back Better"	Topic -River Chanel Improvement -Dam Rehabilitation Site -Kampung Pulo, Ciliwung River -Situ Gintung	Average score of questions on -Legal Frame Works were lower than score of other topics	"Emergency Response" and "Rehabilitation Works" in the field of Flood Management was raised as an important issue.

PROJECT MONITORING SHEET

Project Title: The Project on Capacity Development for RBOs in Integrated Water Resources Management in Indonesia (Phase 2)

Version of the Sheet: Ver.03 (Term: April 2017 to January 2018)

Name: Hirohisa Miura (Technical Expert),
Suzuki Kazushi (Project Coordinator)

Submission Date: 25th January 2018

I. Summary

1 Progress

1-1 Progress of Inputs

Japan Side

-Chief Advisor, January 12, 2015 to January 30, 2016
-Technical Expert, January 26, 2015 to Present
-Project Coordinator, April 20, 2015 to Present

Short Term Expert:

-Mr. Masahiro Sugiura, Dam Operation and Maintenance, January 31, 2016 to February 6, 2016
-Mr. Yasuhiro Ochii, Water User Coordination, February 21, 2016 to February 27, 2016
-Mr. Kunihiro Moriyasu, River Management, July 31 2016 to August 13 2016
-Mr. Morio Ozawa, Flood Management (Water Related Disaster Management), November 14 2016 to November 19 2016

Indonesia Side

-Project Supervisor, Project Director and Project Manager
-Mr. Imam Santoso, Director General of Water Resources, Project Supervisor
-Mr. Danis H Sumadilaga, Director General of Research and Development Agency (RDA), Project Supervisor
-Ms. Lolly Martina Martief, Director General of Human Resources Development Agency (HRDA), Project Supervisor
-Mr. Agus Suprapto Kusmulyono, Director of Water Resources Management, DGWR, Project Director
-Mr. William Marcus Putuhena, Head of Research and Development Center of WR (PUSAIR), RDA, Project Director
-Mr. K. M Arsyad, Head of Training Center for WR and Construction, HRDA, Project Director
-Mr. Rahmat Suria Lubis, Head of Experimental Station for River, Research and Development Center of WR, Project Manager
-Mr. Triyono Tulus Setyawan, Head of Sub-Dir. of WR Institutional, WR Management, DGWR, Project Manager
-Ms. Dasniari Pohan, Head of Sub-Dir. of Hydrology and WR Environment, WR Management, DGWR, Project Manager

1-2 Progress of Activities

Activity 1

BWS Sulawesi I (Manado)

- Number of Visit to BWS Sulawesi I in the period is eleven times

(1-1to 1-5)

Completed

(1-6)

- Kick off seminar for OJTs (Activity 1-6) was held in Manado on 14th June 2017
- "High Water Flow Measurement"
  - Locations of flow measurement were decided, position of observation lines at each location were also decided
  - Cross section survey work started by local consultant
- "Hydrology Instrument Maintenance"
  - Installation locations for new instrument were confirmed
  - Type of rain gauge and water level sensor were confirmed
  - TOR for rain gauge procurement prepared
- "Support for making draft operation & maintenance rule of Kuwil Dam"
  - Confirmation of Kuwil dam plan/design was finished (drawings and technical reports were also collected)
  - 2nd seminar on dam operation & maintenance hold in Manado on 21st November 2017
  - Preparation for 3rd seminar with field visit was started

BBWS Ciliwung Cisadane

- Number of Discussions with BBWS Ciliwung Cisadane in this period is eight times

(1-1)

- Expected functions and roles was analyzed and confirmed
- Break down of daily work was also finished

(1-2 to 1-3)

- Analysis of priority issues was in the process

(1-4 to 1-5)

- Draft activity plan was prepared, but not yet approved by head of BBWS

Activity 2

(2-1)

- JICA expert team had a series of meetings with relevant agencies namely Directorate General for Water Resources (DGWR), Human Resource Development Agency (HRDA) and Center for River Basin Organization and Management (CRBOM) to find out and confirm the existing Capacity Development Framework (CDF) activity in PU.

(2-2)

- Four trainings were conducted

Training-1: Assessment of BBWS's Performance for Benchmarking
in Solo on 13th to 17th March 2017
Training-2: Sediment Management for Dam
in Yogyakarta and Solo on 17th to 21st April 2017
Training-3: Calculation of Water Balance for Water Allocation Planning
in Semarang on 22nd to 25th August 2017
Training-4: Design of River Facility Structure
in Padang on 12th 15th September 2017

(2-3)
Completed

(2-4)
- Training for "Assessment for B(B)WS's Performance for Benchmarking" in March 2017 was successfully done. The team was recommended to conduct similar training for 2018. The training will be held in April 2018.
- JICA expert team collected Self-Assessment Report 2016 of BBWS Ciliwung Cisadane

(2-5)
- JICA expert team analyzed the results of the Pre / Posttest and questionnaire which were conducted in all four trainings in 2017. (Attachment: Result of the Trainings in Indonesia 2017)
- JICA expert team conducted review discussion for training on "Assessment for B(B)WS's Performance for Benchmarking" in 2017. JICA project was recommended to conduct benchmarking trainings in 2018 for improvement and promotion of benchmarking

✧ PUPR technicians were sent for training in Japan (July 23 – August 5, 2017)

The cost of training: 326,000,000 IDR
The number of Participants and Cost
Training 1 – 39 (Assessment of BBWS's Performance for Benchmarking)
Approx. 102,500,000 IDR
Training 2 - 24 (Sediment Management for Dam)
Approx. 66,800,000 IDR
Training 3 - 44 (Calculation of Water Balance)
Approx. 94,700,000 IDR
Training 4 - 34 (Design of River Facility Structure)
Approx. 62,000,000 IDR

Total Number of Participants: 141
Total Cost for eight training: Approx. 326,000,000 IDR

Activity 3

(3-1)

- JICA expert team received a list of existing HRDA's modules

(3-2)

- JICA expert team and HRDA discussed the possibility of improving the reliability of the training modules that JICA RBO project Phase 1 was created. The discussion is still on-going.

(3-3)

- JICA expert team has distributed teaching material to all the participants for each training conducted by the project in 2017

1-3 Achievement of Output

-Reports of Seminar on OJTs at BWS Sulawesi I (14th June 2017, 21st Nov. 2017) for Activity 1-6 for indicator 1-1 of output 1

-Reports of Field activities of OJTs at BWS Sulawesi I for activity 1-6 for indicator 1-2 of output 1

-Draft Report of Activity 1-1 to 1-5 for BBWS Ciliwung Cisadane for indicator 1-1 and 1-2 of output 1

-Collected self-assessment (benchmarking) report of BBWS Ciliwung Cisadane for indicator 1-3 of output 1

-Conducted four (4) trainings in Indonesia and the report for indicator 2-1, 2-3 for output 2

-2018 Annual Plan of trainings in Indonesia for indicator 2-3 of output 2

- List of existing HRDA's modules for indicator 3-2 of output 3

-Record of 3rd PIM meeting (22nd Sep. 2017) for indicator 2-4 for output 2 and 3-1, 3-2 for output 3

1-4 Achievement of the Project Purpose

-Four capacity development training were conducted and a total of 141 staffs are participated

-List of benchmarking score of all BBWS and BWS as of 2016

1-5 Changes of Risks and Actions for Mitigation

-There might be slight delay of the completion of the project since the chief of the project is no longer to stay in the team. Currently the project is short of expert. To minimize the risk, the team has hired three local technical experts

to support the project.

-There was a slight changes of the organization especially for the establishment of the Human Resource Development Agency (HRDA). This causes that the information the project team received previously might need to be rechecked. This might require some extra time to gather new information regarding capacity development activity.

1-6 Progress of Actions undertaken by JICA

1-7 Progress of Actions undertaken by Gov. of Indonesia
-Smooth allocation of budget for the trainings and project activities.

-Various support by the counterparts are provided by PU.

1-8 Progress of Environmental and Social Considerations (if applicable)
N/A

1-9 Progress of Considerations on Gender/Peace Building/Poverty Reduction (if applicable)
N/A

1-10 Other remarkable / considerable issues related / affect to the project (such as other JICA's projects, activities of counterparts, other donors, private sectors, NGOs etc.)

2 Delay of Work Schedule and/or Problems (if any)

2-1 Detail
The analysis for Ciliwung / Cisadane in Activity 1-1 onward has been delayed

- Activity 1-2 to 1-6 for BBWS Ciliwung Cisadane have delayed.
- Activity 2-1 has not yet completed.

2-2 Cause
- Counterparts at BBWS Ciliwung Cisadane are difficult to allocate enough time for CD activity because of their tight work schedule.

2-3 Action to be taken
- Project Manager, Mr. Triyono Tulus Setyawan, coordinates closely for activities at BBWS Ciliwung Cisadane including not only implementing the project activity but also making an appointment with some working team member
- JICA Project Team modifies project activities for BBWS Ciliwung Cisadane so that the RBO could be easily allocated their time and resources for the smooth implementation of the activity

2-4 Roles of Responsible Persons/Organization (JICA, Gov. of Indonesia, etc.)

- Project Director and Manager coordinate more closely with BBWS Ciliwung Cisadane to supervise their participation to the project
- JICA Project Team keeps updating the schedule of the activities of the BBWS Ciliwung Cisadane given the project implementation period.

3 Modification of the Project Implementation Plan

3-1 PO

-There are some changes in sub-activities to PO according to the advice given by mid-term review.

3-2 Other modifications on detailed implementation plan

(Remarks: The amendment of R/D and PDM (title of the project, duration, project site(s), target group(s), implementation structure, overall goal, project purpose, outputs, activities, and input) should be authorized by JICA HDQs. If the project team deems it necessary to modify any part of R/D and PDM, the team may propose the draft.)

4 Preparation of Gov. of Indonesia toward after completion of the Project.

-The recipient ministry is better to have a pooling mechanism for the instructors of capacity development training.

-The recipient ministry is also better to have clear mechanism of updating training material for better implementation of the capacity development activities.

Project Monitoring Sheet II (Revision of Plan of Operation)

Version 2.1
Dated 2018/1/25

Project Title: The Project on Capacity Development for River Basin Organizations in Integrated Water Resources Management in the Republic of Indonesia (Phase II)

Inputs	Plan/Actual	2015 I	2015 II	2015 III	2015 IV	2016 I	2016 II	2016 III	2016 IV	2017 I	2017 II	2017 III	2017 IV	2018 I	2018 II	2018 III	2018 IV	Remarks	Monitoring: Issue	Monitoring: Solution
Expert																				
Chief Advisor	Plan	●															●			
	Actual	●				―												From 12/Jan/2015	-	-
Technical Expert	Plan	●															●			
	Actual	●								―								From 26/Jan/2015	-	-
Project Coordinator	Plan	●															●			
	Actual		●							―								From 20/Apr/2015	-	-
River Management (including Low Water Management)	Plan							●										Mr. Moriyasu		
	Actual							●										31 July to 12 Aug.	-	-
Flood and Drought Management	Plan								●						●			Mr. Ozawa		
	Actual								●									14 Nov. to 18 Nov.	-	-
Water Environment (including Water Quality Management, Sedimentation Management)	Plan							●										(Mr Hayakawa,		
	Actual							●										JICAPolicy Advisor	-	-
Irrigation Water Management	Plan					●												Mr. Ochi,		
	Actual					●												21 Feb. 27 Feb.	-	-
Stakeholder Coordination	Plan					●												Mr. Ochi,		
	Actual					●												21 Feb. 27 Feb.	-	-
Facility Maintenance	Plan					●									●			Dr. Sugiura		
	Actual					●												31 Jan. to 6 Feb.	-	-
Equipment																				
	Plan																			
	Actual																			
Training in Japan																				
Training in Japan	Plan				●				●				●			●		2015: for executives		
	Actual						●					●						From 2016: for Practitioners	-	-
In-country/Third country Training																				
In-country Training for CD	Plan				●	●	●	●	●	●	●	●	●		●					
	Actual					●	●	●	●	●	●	●	●						-	-

Activities / Sub-Activities	Plan/Actual	2015 I	2015 II	2015 III	2015 IV	2016 I	2016 II	2016 III	2016 IV	2017 I	2017 II	2017 III	2017 IV	2018 I	2018 II	2018 III	2018 IV	Responsible Organization: Japan	Responsible Organization: Indonesia	Achievements	Issue & Countermeasures
Output 1: Integrated water resources management capacity of RBOs in field practice(FP) sites is improved																					
1.1 Analyze and break down the expected RBO's functions and roles into daily work activities.	Plan	●				―												Japan: JICA project team	Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	-Finished analysis Expected Functions at Cil/Cis (Oct. 2017), at Sulawesi I (Oct. 2015)	-
	Actual	●											―								
1.2 Identify current functions and roles, and the actual daily work activities of several RBOs, and sort out the activities to be strengthened by comparing the actual activities with the ideal functions and roles mentioned above in 1-1	Plan	●				―												Japan: JICA project team	Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	-Finish identifying and sorting out at Sulawesi I (Apr. 2016) -Continue identifying and sorting out at Cili/Cis	-
	Actual	●											―								
1.3 Identify priority issues, which are necessary to be tackled with stakeholders as common and important targets, in the selected RBOs as pilot fields	Plan		●			―												Japan: JICA project team	Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	-Finish identifying issues at Sulawesi I (Apr. 2016) -Continue identifying at Cili/Cis	-
	Actual		●										―								
1.4 Identify concrete work activities to tackle the priority issues recognized in "1-3", and area of the capacity development necessary for those work activities in the selected RBOs	Plan		●			―												Japan: JICA project team	Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	-Finish identifying work activities at Sulawesi I (Apr. 2016) -Continue identifying at Cili/Cis	-
	Actual		●										―								
1.5 Make short- and middle- term CD plans to accomplish the capacity development recognized in "1-4" in the selected RBOs. Especially middle-term CD plan is made based on the output of 1-1, 1-2.	Plan			●			―											Japan: JICA project team	Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	-Finish making CO Plan for Sulawesi I (Dec. 2016) -Continue discussion with Cili/Cis	-
	Actual			●									―								
1.6 Carry out the capacity development activities* based on the CD plans and the work activities for the priority issues, in the selected RBOs.	Plan				●												●	Japan: JICA project team	Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	-Under preparation for CD Activity at Cili/Cis -Under implementing CD activity at Sulawesi I	-
	Actual									●			―								
1.7 Evaluate regularly the capacity of the RBOs through the progress on implementation of CD plans including the trainings, and the daily work activities	Plan		●	Baseline Study	―						●						●	Japan: JICA project team	Indonesia: PU	Finished collecting latest benchmarking report at Cili/Cis and	

Activity		Responsible	Issue	Solution
to the priority issues, by various methods such as interviews to the staff, existing RBO benchmarking indicators and job assessment.	Actual	PU RBO Ciliwung/Cisadane, RBO Sulawesi I	report at Cil/Cis and Sulawesi I for "Baseline Study"	-
1.8 Consolidate good or bad practices, lessons and challenges learnt through the field practices, based on the output of "1-7"	Plan / Actual	Japan: JICA project team Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	-	-
1.9 Improve the each CD plans, considering the output of 1-8, and carry out the revised plans in the selected RBOs.	Plan / Actual	Japan: JICA project team Indonesia: PU RBO Ciliwung/Cisadane, RBO Sulawesi I	-	-
Output 2: Capacity Development Framework (CDF) for RBO, including organizational structure, stakeholder's responsibilities and training				
2.1 Review the existing CDF and activities by the key players (DGWR, PUSAIR, CRBOM, PUSDIKLAT).	Plan / Actual	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	Continue discussion and finished collecting information from DGWR, PUSAIR, CRBOM)	CD mechanism was changed on Jun. 2015 (Human Resources Development Agency (HRDA) is newly established)
2.2 Carry out CD activities* along with short- and mid-term plans of for RBOs across the country under CDF.	Plan (Planning, Implementation) / Actual (Planning, Implementation)	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	-Finished making training plan of 2018 -Conducted trainings: 8 in 2016, 4 in 2017, 2 trainings will be condxted in 2018	-
2.3 Establish Project Implementation Unit (PIU) to supervise the PDCA cycle of CD activities and coordinate the needs of RBOs on CD.	Plan / Actual	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	Finished establishment of PIU	-
2.4 Evaluate the capacity of RBOs periodically and improve the benchmarking mechanism, considering the method of existing benchmarking mechanism for RBOs and the outputs of 1-1 and 1-2, if necessary.	Plan (Baseline Study, Experimental period) / Actual (Baseline Study)	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	-Finished baseline study -Conducted benchmarking training in 2017, 2 trainings will be in 2018	-
2.5 Inspect the performance of CD activities for RBOs and reflect its result into the revised CD plans and the CD resources including the training materials and trainers.	Plan / Actual	Japan: JICA project team Indonesia: PU PUSAIR, CRBOM PUSDIKLAT	Evaluated of each training by Pre/Post Test and questionnaires	-
Output 3: Reliability of the CD resources (training materials) for IWRM is improved				
3.1 Make an inventory of the CD resources (e.g. training/ dissemination materials, and trainers).	Plan / Actual	Japan: JICA project team Indonesia: PU PUSAIR CRBOM PUSDIKLAT	-Finished making inventory of guidelines and modules that made by phase 1 -Collected existing modules list of PUSDIKLAT as of 2017	-
3.2 Implement a PDCA cycle mechanism to improve the reliability of the CD resources, utilizing CDF and the output of the CD activities.	Plan / Actual	Japan: JICA project team Indonesia: PU PUSAIR CRBOM PUSDIKLAT	Started discussion with PUSDIKLAT, CRBOM	-
3.3 Conduct workshops and seminars to promote and facilitate more effective and efficient use of CD resources.	Plan / Actual	Japan: JICA project team Indonesia: PU PUSAIR CRBOM PUSDIKLAT RBOs	-	-
Duration / Phasing	Plan / Actual			

Monitoring Plan	Plan / Actual	2015 (I, II, III, IV)	2016 (I, II, III, IV)	2017 (I, II, III, IV)	2018 (I, II, III, IV)	Remarks	Issue	Solution
Monitoring								
Joint Coordination Committee	Plan / Actual					1st JCC on 11th June 2015 2nd JCC on 26 July 2016 3rd JCC on 12 April 2017	-	-
Set-up the Detailed Plan of Operation	Plan / Actual					-	-	-
Submission of Monitoring Sheet	Plan / Actual					-	-	-
Monitoring Mission from Japan	Plan / Actual					-	-	-
Joint Monitoring	Plan					-	-	-

Joint Monitoring	Actual		-	-	-
Post Monitoring	Plan		-	-	-
	Actual				
Reports/Documents					
	Plan				
	Actual				
Project Completion Report	Plan	●	-	-	-
	Actual				
Public Relations					
Project web site	Plan	Establishment, Operation	-	-	-
	Actual				
	Plan				
	Actual				

Result of the Trainings in Indonesia 2017

No.	Title	Venue	Duration	Objectives	Participants	Lectures and Lecturers	Field Study	Result of Test	Questionnaire
1	Assessment of BBWS's Performance for Benchmarking	Solo (Balai DIKLAT Yogyakarta)	5 days, 13 -17 March , 2017	-5-year plan of PUPR mentions that target score of RBO Performance Benchmarking is 4.0) -Official document by DG of SDA on benchmarking, 30 November 2015, describes that 1) one criteria will be added, 2) Self Assessment and Peer Review should be implemented -Understanding on practical method of self assessment and peer review	**Number** : 39 **Organization** : B(B)WSs, PJT	From Indonesia side -Introduction of RBO Performance Benchmarking Activity by Nur Widayati, Sp.1, MT -Explanation on NARBO and RBO Performance Benchmarking by Herman Idrus, CES -Explanation on Guideline of RBO Performance Benchmarking by Darismanto, ME -Implementation of RBO Performance Benchmarking at BBWS Bengawan Solo bu - Introduction of Performance Benchmarking Instrument (15 indicators) and Its Utilization also Explanation on Action Plan by Ir. Isnugroho, CES - Exercise 1: Self Assessment by Ir. Isnugroho, CES, Ir. Hendarti Bambang Triharionо - Exercise II: Peer Review on the Result of Exercise I by Darismanto, ME, Dra. Salmi From Japan side -Implementation of RBO Management in Japan by Miura Hirohisa, ME	Topic -River Improvement with stakeholders coordination Sites -Kali Pepe	Topics in the test is necessary knowledge as a peer reviewer Result of the test including assessment by Balai DIKLAT; Satisfy: 5 persons Very Good: 16 persons Good: 15 persons Fail: 3 persons	
2	Sediment Management for Dam	Yogyakarta/Solo (Balai DIKLAT Yogyakarta)	5 days, 17 - 21 April, 2017	- 5-yaer Plan of PUPR includes 65 dam construction projects - Some of existing dams have been faced to severe sedimentation - Understanding practical countermeasures for dam reservoir sedimentation	**Number** : 24 **Organization** : B(B)WSs, Dinas PU Provinsi dan Kab, PJT II	From Indonesia side -Law, Regulation and Technical Guidelines, by Mr. Adek Rizaldi, ST. MT -Planning & Design of Structural Measures for Sediment & Landslide, by Ir. Chandra Hasan, Dipl. HE, M.Sc, IPM -Mechanism of Sediment transport and Bathymetric Survey by Akhyar Mustafa, ST -Planning & Design of Water Intake Facility and Spillway / Gates by Ir. Dwi Kristianto, M. Eng & Banata Wahid Ridwan, S.Si -Practical Sabo Works in BBWS Serayu-Opak by Ir. Imam Mardjianto, Dipl. HE -Practical Sediment Management for Dam in Bengawan Solo (Wonogiri Dam) by Ir. Yudi Pratondo, MM From Japan side -Sedimentation of Dam and Countermeasures in Japan by Miura Hirohisa, ME	Topic -Sabo Dam -Sediment Management at Dam Site -Gendor River and Putih River -Wonogiri Dam	Topics on the Test; -Legal framework -Basic definition and Knowledge on Sabo -Sediment Mechanism in Dam Reservoir -Countermeasures on Sedimentation for Dam -Planning and Design of Structural Measures for Sediment topics with underline were lower score than other topics	"Environment/Forest Conservation", "Planning/design of check dam" and "Planning/design of Sabo (Landslide protection, Sabo dam)" in the field of Sediment Management was raised as an important issue.
3	Calculation of Water Balance for Water Allocation Planning	Semarang (Balai DIKLAT Yogyakarta)	4 days, 22 - 25 August, 2017	-New Water User Right System and Water Service Fee System will be started, therefore Water allocation is needed more adequately - Learning and exercise on calculation of Water balance for adequate Water allocation implementation.	**Number** : 44 **Organization** : B(B)WSs, Dinas PU Provinsi dan Kab, PJT II, PUPR Cipta Karya	From Indonesia side -Legal aspect and Technical Standard, by Sudarsono, CES -Basic knowledge and preparation on water balance calculation, by Prof. Dr. Waluyo Hatmoko M.Sc. -Water Balance Calculation, Ir. Sigid Santoso, MM -Exercise and analysis of water availability and demand, by Ir. Widyarti Sumawinata -Example of Water Allocation Planning from Water Balance Calculation in Semarang City Area, by V. Untoro Kurniawan, ST., MM.	Topic -Water balance at dam -Water balance at weir -Water demand at PDAM Site -Jatibarang Dam -Simongan Weir -PDAM Kota Semarang	Topics on the Test; -Legal framework -Basic Knowledge on Water Balance and Water Allocation -Water Balance Calculation Score of all topic were good, but calculation for RAAT (Annual Water Allocation Plan) was difficult for participant by result of exercise lecture	"RAAT (Annual Water Allocation Plan)" and "RAAR (Detail Water Allocation Plan)" in the field of Water Balance Calculation was raised as an important issue.
4	Design of River Facility Structure	Padang (Balai DIKLAT Medan)	4 days, 12 - 15 September, 2017	'-5-year plan of PUPR mentions "River normalization and dyke construction has been developed" at responsibility of BBWS/BWS on Flood Control - Learning and exercise on practical design of river structures, such as levee (dyke), revetment, weir and ground sills	**Number** : 34 **Organization** : B(B)WSs, Dit. BPSDA, Provinces, Kabupaten and Kota	From Indonesia side -Laws, regulations and technical standards, by Ibu Dian Kamila, ST., MT -Hydraulics in River Channel of Flood Time, by -Practical Planning & Design of Levee and Revetment, by Ir.Bambang Warsito, Dipl.HE. -Practical Planning & Design of Weir and Groundsil, by Ir. Supriyana, Dipl.HE. -Landscape Design (Environment-friendly) , by Ir. Budi Santoso, Dipl.HE. -Exercise of Planning & Design of River Facility From Japan side -Historical and Advanced River Facility Structures in Japan, by Mr. Jun Hayakawa, JICA policy expert on SDA	Topic -Planning and Design of weir, groundsills, revetment, levee and so on Site -Diversion Gate at Batang Arau -Kanal Banjir -Sabo works at Batang Kuranji -Batang Anai -Jetty at river mouth of kanal banjir	Topics on the Test; -Legal framework -Planning/Design of Levee -Planning/Design of Weir and Groundsill -Landscape Design for River Facility -River Channel Planning (Compound Cross Section) topics with underline were lower score than other topics	"Hydrological Analysis for River Facility Planing", in the field of River Facility Structure Design/Planning was raised as an important issue.

PROJECT MONITORING SHEET

Project Title: The Project on Capacity Development for RBOs in Integrated Water Resources Management in Indonesia (Phase 2)

Version of the Sheet: Ver.03 (Term: February 2018 to July 2018)

Name: Hirohisa Miura (Technical Expert),

Kazushi Suzuki (Project Coordinator)

Submission Date: 28th August 2018

I. Summary

1 Progress

1-1 Progress of Inputs

Japan Side

-Chief Adviser, January 12, 2015 to January 30, 2016
-Technical Expert, January 26, 2015 to Present
-Project Coordinator, April 20, 2015 to Present

Short Term Expert:

-Mr. Hisashi Ohta, High Water Flow Measurement, April 22, 2018 to April 28, 2018
-Mr. Jun Maruyama, Dam Operation and Maintenance, April 22, 2018 to April 28, 2018

Indonesia Side

-Project Supervisor, Project Director and Project Manager
-Mr. Imam Santoso, Director General of Water Resources, Project Supervisor (From July 10th, 2018. Mr. Hari Suprayogi,)
-Mr. Danis H Sumadilaga, Director General of Research and Development Agency (RDA), Project Supervisor
-Ms. Lolly Martina Martief, Director General of Human Resources Development Agency (HRDA), Project Supervisor
-Mr. Agus Suprapto Kusmulyono, Director of Water Resources Management, DGWR, Project Director (From July 19th, 2018. Mr. Fauzi Idris)
-Mr. William Marcus Putuhena, Head of Research and Development Center of WR (PUSAIR), RDA, Project Director (From July 19th, 2018. Mr. Eko Winar Irianto)
-Mr. K. M Arsyad, Head of Training Center for WR and Construction, HRDA, Project Director (From July 19th, 2018. Mr. Yudha Mediawan)
-Mr. Rahmat Suria Lubis, Head of Experimental Station for River, Research and Development Center of WR, Project Manager
-Mr. Triyono Tulus Setyawan, Head of Sub-Dir. of WR Institutional, WR Management, DGWR, Project Manager
-Ms. Dasniari Pohan, Head of Sub-Dir. of Hydrology and WR Environment, WR Management, DGWR, Project Manager

1-2 Progress of Activities

Activity 1 "Integrated Water Resources Management Capacity of RBOs in Field Practice Sites is Improved"

BWS Sulawesi I (Manado)

- Number of Visit to BWS Sulawesi I in the period is twelve times

1-1 Analyse and break down the expected RBO's functions and roles into daily work activities. (Completed)

1-2 Identify current functions and roles, and the actual daily work activities of several RBOs, and sort out the activities to be strengthened by comparing the actual activities with the ideal functions and roles mentioned above in 1-1. (Completed)

1-3 Identify priority issues, which are necessary to be tackled with stakeholders as common and important targets, in the selected RBOs as pilot fields. (Completed)

1-4 Identify concrete work activities to tackle the priority issues recognized in "1-3", and area of the capacity development necessary for those work activities in the selected RBOs. (Completed)

1-5 Make short- and middle- term CD plans to accomplish the capacity development recognized in "1-4" in the selected RBOs. (Completed)

1-6 Carry out the capacity development activities* based on the CD plans and the work activities for the priority issues, in the selected RBOs. (On-Going)

- Capacity Development Activity (CDA) 1: High Water Flow Measurement

✓ Field Practice of "Flood Method" for High Water Flow Measurement and Practical Seminar on calculation of Flow Velocity and Flow Rate for the staff of BWS Sulawesi 1 on March 6th to 8th, 2018.

✓ Cross Section Survey at three (3) locations for High Water Flow Measurement at Tondano, Tikala and Sario river was completed. The survey result was closely examined by the both party and handed over to BWS Sulawesi 1 at the end of March 2018

✓ The project team instructed local shop to supply of floats to one of local establishments in Manado City for BWS Sulawesi 1 that could help to implement of Float Method of High Water Flow Measurement by BWS Sulawesi 1 at the end of March 2018.

✓ Special Seminar on High Water Flow Measurement at BWS Sulawesi I was held in April 25th,2018 with support by two Japanese short term experts from Ministry of Land, Infrastructure, Transport and Tourism

- ✓ Illustrated book on Hydrology Management in Japan, "Illustration on Hydrology Observation"was distributed on May 23rd, 2018 as one of the follow-ups of the discussion of the Special Seminar for High Water Flow Measurement.
- ✓ Preparing the Terms of Reference (TOR) for cross section survey at Malalayang River and Staff Gauge Installment with BWS Sulawesi 1 for High Water Flow Measurement

- CDA 2: Hydrology Instrument Maintenance
- ✓ Automatic Rain Recorder (ARR) was fully installed and a seminar on technical specification and maintenance work of ARR together with site practice for how to download rainfall data from data logger were conducted on March 24th, 2018.

- ✓ Discussed several times regarding the exact location and specifications of Automatic Water Level Recorder (AWLR) and preparation of TOR for Procurement with BWS Sulawesi 1 on April and May 2018.

- ✓ The expert supervised installation works of AWLR by BWS Sulawesi 1 at the end of July, 2018

- ✓ Installation of AWLR was completed and conducted the seminar on technical specification and maintenance work of AWLR and site practice for how to download river water level data from data logger on August 1st, 2018.

- CDA 3: Support to make dam operation & maintenance rule
- ✓ Staff of BWS Sulawesi 1 was invited to a field seminar in Central JAWA and East JAWA to understand practical method of operation & maintenance works of dam from April 2nd to 6th, 2018.
- ✓ Special Seminar on Dam O/M Rule at BWS Sulawesi 1 was held on April 25th,2018 with support by two Japanese short term experts from Ministry of Land, Infrastructure, Transport and Tourism.
- ✓ Seminar on Sediment Management at Dam Reservoir at BWS Sulawesi 1 together with sub-dit of Dam & Lake Operation & Maintenance, Directorate of Operation & Maintenance on August 15th, 2018

1-7 Evaluate regularly the capacity of the RBOs through the progress on implementation of CD plans including the trainings, and the daily work activities to the priority issues, by various methods such as interviews to the staff, existing RBO benchmarking indicators and job assessment. (On-Going)

- The Project has supported RBO benchmarking, Self-Assessment of Performance, for BWS Sulawesi 1 to improve the capacity for evaluating their own performance at periodically.

1-8 Consolidate good or bad practices, lessons and challenges learnt

through the field practices, based on the output of "1-7". (Planning)

1-9 Improve the each CD plans, considering the output of 1-8, and carry out the revised plans in the selected RBOs. (Planning)

BBWS Ciliwung Cisadane

- Number of Discussions with BBWS Ciliwung Cisadane in this period is eight times

1-1 Analyse and break down the expected RBO's functions and roles into daily work activities. (Completed)

1-2 Identify current functions and roles, and the actual daily work activities of several RBOs, and sort out the activities to be strengthened by comparing the actual activities with the ideal functions and roles mentioned above in 1-1. (Completed)

- "Priority Activities" for BBWS Ciliwung Cisadane that needed to be improved were confirmed as a result of discussion with BBWS Ciliwung Cisadane on February 20th, 2018

1-3 Identify priority issues, which are necessary to be tackled with stakeholders as common and important targets, in the selected RBOs as pilot fields. (Completed)

- "Priority Activities" for BBWS Ciliwung Cisadane that needed to be improved were confirmed as a result of discussion with BBWS Ciliwung Cisadane on February 20th, 2018

1-4 Identify concrete work activities to tackle the priority issues recognized in "1-3", and area of the capacity development necessary for those work activities in the selected RBOs. (Completed)

- "Activity Plan" were selected and confirmed as one of activities that BBWS Ciliwung Cisadaneas would complete for the Project at the discussion on February 20th 2018

1-5 Make short- and middle- term CD plans to accomplish the capacity development recognized in "1-4" in the selected RBOs. (Completed)

- "Activity Plan" on Irrigation Water Demand Calculation at Pasar Baru Weir of Cisadane River downstream as a CD plan was confirmed with BBWS Ciliwung Cisadane during a discussion on February 20th 2018

1-6 Carry out the capacity development activities* based on the CD plans and the work activities for the priority issues, in the selected RBOs.(On-Going)

- CDA 1: Irrigation Water Demand Calculation at Pasar Baru Weir of Cisadane River Downstream

✓ Detailed activity procedure and schedule were discussed and confirmed with BBWS Ciliwung Cisadane on February 20th 2018

✓ BBWS Ciliwung Cisadane provided the latest study report of irrigation area and water allocation for irrigation at Cisadane River during PIU meeting on March 14th 2018

✓ BBWS Ciliwung Cisadane and the Project Team discussed and checked the result of contents of the study report that was provided at the PIU meeting on March 14th, on May 17th 2018. As the result of discussion;

➢ The study report was formulated at the beginning of this year. Irrigation area map on the report was almost the same as other satellite data map. The area (ha) for irrigation on the report can be used for our irrigation water demand calculation. Therefore, the both party agreed that we do not conduct simple site survey that initially was scheduled in initial activity plan

➢ BBWS Ciliwung Cisadane shall collect the latest information of agriculture crops cultivating schedule (pattern) from Kabupaten. The pattern is necessary for irrigation water demand calculation.

✓ BBWS Ciliwung Cisadane requested the information of pattern to Kabupaten. But Kabupaten has not formulated it for this year. Therefore, we would try to calculate irrigation water demand with an assumption using existing information from Ministry of Agriculture and examples of other rivers

✓ BBWS Ciliwung Cisadane received the latest information of the pattern from Kabupaten at the Beginning of August 2018. Therefore, we decided to calculate with real condition. We have checked detail contents of the information of the pattern from Kabupaten on August 2018.

- CDA Additional: Landscape planning of Reservoir at Upper Ciliwung River

BBWS Ciliwung Cisadane has requested the Project to support landscape planning with environment conservation and tourism development. BBWS Ciliwung Cisadane considers including "Japanese Garden" into their landscape planning/design.

✓ BBWS Ciliwung Cisadane invited the Project to field study at Situ Telaga Saat where landscape design was scheduled. The Project Team made suggestions on landscape planning/design and share the Project Member's report on field study on May 17th, 2018.

- ✓ BBWS Ciliwung Cisadane invited the Project for a meeting on landscape planning. The Project introduced the report of field study that was made as a result of field survey on May 17, 2018.

- ✓ BBWS Ciliwung Cisadane requested the JICA team to accompany them to Cibodas Botanical Garden where maintains Sakura trees to check availability of Sakura in Indonesia since BBWS Ciliwung Cisadane considers to plant Sakura tress at the site of landscape development. JICA team made a comment that kinds of Sakura that is available in the garden, is similar to "Kan-Sakura" in Japan.

- CDA Additional: Dam Maintenance Works

BBWS Ciliwung Cisadane has tried to upgrade maintenance works at Situ Gintung. Furthermore, BBWS Ciliwung Cisadane will probably soon start operate and maintain two dams in near future. Therefore, BBWS Ciliwung Ciasadane has requested the Project to introduce dam maintenance works in Japan as follow-up of Training in Japan.

- ✓ BBWS Ciliwung Cisadane invited JICA team to a seminar on upgrading maintenance works at Situ Gintung on August 30, 2018. JICA team introduced maintenance check list of facilities at Kuzuryu Dam which was provided during Training in Japan in July of this year.

1-7 Evaluate regularly the capacity of the RBOs through the progress on implementation of CD plans including the trainings, and the daily work activities to the priority issues, by various methods such as interviews to the staff, existing RBO benchmarking indicators and job assessment. (On-Going)

- The Project is supporting RBO benchmarking, Self-Assessment of Performance, for BBWS Ciliwung Cisadane to evaluate regularly their capacity

1-8 Consolidate good or bad practices, lessons and challenges learnt through the field practices, based on the output of "1-7". (Planning)

1-9 Improve the each CD plans, considering the output of 1-8, and carry out the revised plans in the selected RBOs. (Planning)

Activity 2 "Capacity Development Framework (CDF) for RBO, including organizational structure, stakeholder's responsibilities and training framework, is operated"

2-1 Review the existing CDF and activities by the key players (DGWR, PUSAIR, CRBOM, PUSDIKLAT). (On-Going)

- Conducted several meetings with DGWR and PUSDIKLAT to learn the

latest information regarding the structure of CDF by the ministry.

2-2 Carry out CD activities* along with short- and mid-term plans of for RBOs across the country under CDF. (On-Going)

- The Project conducted two Benchmarking Training. (April 9-13 in Palembang, April 16-20 in Lombok)
- Training in Palembang was targeted those who work in B/BWS in Western part of Indonesia, especially the one who handling RBO Performance Benchmarking.
- Training in Lombok was targeted those who work in B/BWS in Eastern part of Indonesia, especially the one who handling RBO Performance Benchmarking.
- Contents of each training:
  1. Understanding of NARBO and River Basin Organization
  2. Perforamance Benchmarking
  3. Integrated Water Resources Management (IWRM)
  4. Self Assessment Process and Action Plan
  5. Indicator of critical work areas
  6. Criteria of how to evaluate the achievement
  7. Peer Review
  8. Documentation/ Filing System
- Number of the participants in Palembang was 28;
  19 was passed as fully attendance of training,
  11 out of 19 was certified as "Peer Reviewer".
- Detail of the passing grade;
  1 participant was graded as "very satisfied",
  3 participants were graded as "satisfied",
  7 participants were graded as "very good",
  These 11 participants were certified as "Peer Reviewer".

  8 participants were graded as "good"
  9 participants were graded as "failed"
- Number of the participants in Lombok was 25;
  16 was passed as fully attendance of training,
  15 out of 16was certified as "Peer Reviewer".
- Detail of the passing grade;
  4 participant was graded as "very satisfied",
  4 participants were graded as "satisfied",
  7 participants were graded as "very good",
  These 15 participants were certified as "Peer Reviewer".

  1 participants were graded as "good"
  9 participants were graded as "failed"
- The instructors for the training were from Directorate General of Water Resources. They worked as expert at River Experimental Station (Balai Sungai under PUSAIR) and have experience of at least of 5 years in Training and implementation on RBO Performance Benchmarking and Peer

Review.

- The Project conducted Training in Japan. (July 15 - 27)
- There were seven participants from several section of the Ministry.
- The Training aims to observe the works and countermeasure on water resources management in Japan. The contents included the issues on water resources management in Indonesia and to reflect their daily work upon a return from Japan.
- The Project conducted 1) the Seminar on Sediment Management at Dam Reservoir at BWS Sulawesi 1 on August 15 2018, 2) the Seminar on upgrading maintenance works at Situ Gintung for BBWS Ciliwung Cisadane on August 30, 2018, as follow-up activities of Training in Japan

2-3 Establish Project Implementation Unit (PIU) to supervise the PDCA cycle of CD activities and coordinate the needs of RBOs on CD. (Completed)

2-4 Evaluate the capacity of RBOs periodically and improve the Benchmarking mechanism, considering the method of existing Benchmarking mechanism for RBOs and the outputs of 1-1 and 1-2, if necessary.(On-Going)

- Some issues of conducting training were observed;
  1. Lack of the basic knowledge for the function of B/BWS stated in Minister Regulation No. 20 Year 2016.
  2. They should be able to elaborated for composing the score of Self Assessment Report as LAKIP (Accountability Report of Government Agency Performance) as a suggested
  3. Some of the participants had a hard time to fill the report and it needs to be trained more by providing training.
  4. The delay of the issuance of the certificate for Peer Reviewer by the Directorate General of Water Resources (in this case through Sub Directorate of Water Resources Institutional). The certification for the training in 2017 was not even issued yet.
- Recommendation for implementing similar training;
  1. The function of B/BWS stated in Minister Decree No. 20 Year 2016 should be fully understood before the training.
  2. Administration procedure for preparing the training should be coordinated well among relevant section of the Ministry / Water Resource Agency.
  3. The acceleration for issuance of the Peer Reviewer Certificate is very important not only for keeping high motivation of the participant but also utilizing them as Certified Peer Reviewer.

- The total cost of two Benchmarking Training was IDR 87,000,000. The cost of training in Palembang was approximately IDR 16,500,000 while the training in Lombok was costed approximately IDR 70,500,000.

2-5 Inspect the performance of CD activities for RBOs and reflect its result into the revised CD plans and the CD resources including the training materials

and trainers. (On-Going)

JICA team has been collecting the latest Benchmarking result of all B/BWS so the team can analyse and reflect the Project activities.

Activity 3 "Reliability of the CD resources (training materials) for IWRM is improved"

3-1 Make an inventory of the CD resources (e.g. training/ dissemination materials, and trainers). (On-Going)

- JICA team has been checking a list of the existing HRDA's modules. The Project and HRDA will update the list of modules

3-2 Implement a PDCA cycle mechanism to improve the reliability of the CD resources, utilizing CDF and the output of the CD activities. (On-Going)

- All the teaching material used by the training in 2016 and 2017 have been uploaded in the Website of Human Resources Development Agency. Currently, the team tries to improve the accessibility by modifying the format of the data.
- PUSAIR with Training Center for Water Resources and Construction have been proceeding a certification procedure for training modules that were created by Phase 1 to be official one

3-3 Conduct workshops and seminars to promote and facilitate more effective and efficient use of CD resources. (Planning)

1-3 Achievement of Output

- Reports of Seminars and Trainings on OJTs at BWS Sulawesi 1 (March 6-8, March 24, April 25, August 1, August 15) for Activity 1-6 for indicator 1-1 of output 1

- Reports of Field Activities on OJTs at BWS Sulawesi 1 (March 6-8, March 24, April 2-6, August 1) for Activity 1-6 for indicator 1-2 of output 1

- Reports of Seminars and Technical Discussions on OJTs at BBWS Ciliwung Cisadane (May 17, August 28, August 30) for Activity 1-6 for indicator 1-1 of output 1

- Reports of Field Activities on OJTs at BBWS Ciliwung Cisadane (May 17, August 31) for Activity 1-6 for indicator 1-2 of output 1

- Collected Self-Assessment (Benchmarking) Reports 2016 and 2017 of BBWS Ciliwung Cisadane and BWS Sulawesi 1 for Activity 1-7 for indicator 1-3 of output 1

- Conducted two (2) training on Benchmarking and the reports for Activity 2-2

and 2-3 for indicator 2-1 and 2-3 of output 2

- Annual Training Plan 2018 for indicator 2-2 of output 2

- Report of 4th PIU meeting (14th March 2018) for indicator 2-4 of output 2 and indicator 3-1 and 3-2 of output 3

1-4 Achievement of the Project Purpose
- Training at FP site (BWS Sulawesi 1) were conducted
Four (4) times of Classroom Seminars and Training
Four (4) times of Field Seminars and Training

- Training at FP site (BBWS Ciliwung Cisadane) were conducted;
Three (3) times of Classroom Seminars and Technical Discussions
Two (2) time of Field Studies

-Two capacity development training on Benchmarking were conducted and a total of 53 staffs are participated. 26 of 53 participants were certificated as "Peer Reviewer"

1-5 Changes of Risks and Actions for Mitigation
- The Project will be completed in January 2019 and final evaluation needs to be conduced by both the Project and the counter part of the Ministry. Considering the nature of work in later part of a year, it might be difficult to be completed in time.

-The Project wishes to hold a Wrap-Up seminar and the final JCC meeting at the end of November or December. However, planned schedule for the two will also be the busiest months of the year for PU. This might obstacle to have them. PIU has already requesting to move the final seminar and JCC in January 2019.

1-6 Progress of Actions undertaken by JICA
-Continuous allocation of budget for local project staff employment

1-7 Progress of Actions undertaken by Gov. of Indonesia
-Smooth allocation of budget for the training and project activities.

-Various support by the counterparts are provided for output 1 by BBWS Ciliwung Cisadane and BWS Sulawesi 1, output 2 by Training Center for WR and Construction (PUSDIKLAT SDA & konstruksi) and CRBOM

1-8 Progress of Environmental and Social Considerations (if applicable)
N/A

1-9 Progress of Considerations on Gender/Peace Building/Poverty Reduction (if applicable)
N/A

1-10 Other remarkable / considerable issues related / affect to the project (such as other JICA's projects, activities of counterparts, other donors, private sectors, NGOs etc.)

-The Minister of PUPR orders Director General of Water Resources (Project Supervisor) to upgrade the function and responsibility of CRBOM for Capacity Development. DG of WR requested a support from the Project to create new ministerial regulation for the organization. Together with the Project and Mr. Hayakawa, JICA Policy Advisor on IWRM, we will support this issue since CRBOM is one of the main project counterparts and capacity development framework improving are also included as a project activity.

2 Delay of Work Schedule and/or Problems (if any)

2-1 Detail

N/A

2-2 Cause

N/A

2-3 Action to be taken

N/A

2-4 Roles of Responsible Persons/Organization (JICA, Gov. of Indonesia, etc.)

N/A

3 Modification of the Project Implementation Plan

3-1 PO

~~-There are some changes in sub-activities to PO according to the advice given by mid-term review.~~

N/A

3-2 Other modifications on detailed implementation plan

(Remarks: The amendment of R/D and PDM (title of the project, duration, project site(s), target group(s), implementation structure, overall goal, project purpose, outputs, activities, and input) should be authorized by JICA HDQs. If the project team deems it necessary to modify any part of R/D and PDM, the team may propose the draft.)

4 Preparation of Gov. of Indonesia toward after completion of the Project.

-The recipient ministry is better to have a pooling mechanism for the instructors of capacity development training.

-The recipient ministry is also better to have clear mechanism of updating training material for better implementation of the capacity development activities.