

3) Cost Estimate

Item	No of Offices	Person	Monthly Payment (BDT)	Month	Sub-total (BDT)
- PMO (LGED HQ)					
Environmental Expert	1	1	100,000	26	2,600,000
M&E Specialist	1	1	100,000	80	8,000,000
- PIU (District office)	5	2	70,000	53	37,100,000
Total					47,700,000

2. Component 2-3 Capacity Development

1) Subjects of training

Methods of construction and maintenance of Village roads (by using implementation manuals for LCS prepared by LGED).

Two trainings will be provided to each LCS group, one before the construction and the other after the construction (for maintenance).

2) Participants

LCS members, total 12,150 persons (= 135 km long of village roads x 3 groups/km x 30 members/group)

3) Trainer

Upazila Engineers or others having similar capability of the Upazila Engineers (The training will be undertaken by Project Upazila Offices under the instructions of District Project Coordinator of PIU.)

4) Cost estimate

Unit cost of training (3days per training): 12,500 BDT

Remuneration for lecturer: 2,000BDT * 3days

Allowance for lecturer: 1,500BDT*3days

Travel expenses: 1,000 BDT

Handout, etc: 2,000BDT

Estimated total cost: 10,000,000 BDT

Village road 135km * 3 LCS groups/km * 2 times * 12,500 BDT/training

2) MM Schedule

PMO & PIU Staff Schedule

[illegible]

Name of Post	Major Tasks and Duties
	<p>environmental programs.</p> <ul style="list-style-type: none"> - Overview implementation of measures in RAP. - Monitor the effectiveness of EMP and compliance with requirements of Environmental Conservation Rules, relevant guidelines, etc. - Coordinate with DOE and other government agencies relating to the environmental management in terms of the environmental programs and activities.

b. PIU

Name of Post	Major Tasks and Duties
Community Infrastructure Coordination Expert	<ul style="list-style-type: none"> - Assist District Project Coordinator in planning the implementation plan for all infrastructure (rural roads and appurtenant structures, hats and ghats) including surveys/investigations in coordination with Local Government Institute (LGI) and communities. - Implement and monitor all the infrastructure activities in coordination with LGI and communities. - Implement and monitor land acquisition and compensation activities for the infrastructure.
Community Resource Management Coordination Expert	<ul style="list-style-type: none"> - Assist District Project Coordinator in preparing the overall work plan for community resource management including beels. - Implement and monitor the process of accessing to resources including beels in coordination with LGI. - Assist in establishing rights of the community on the community resources and sustainable management in coordination with LGI and community.

Appendix 11:

Details of Institutional Strengthening (Component 2-2) and Capacity Development (2-3)

1. Component 2-2 Institutional strengthening for PMO and PIUs

1) Name of the Expert and TOR



a. PMO

Name of Post	Major Tasks and Duties
Environmental Expert	<ul style="list-style-type: none"> - Review draft EIA/IEE including EMP and RAP prepared by the consultant in accordance with Environmental Conservation Rules 1997 of Bangladesh and others. - Disseminate and explain additionally confirmed and identified environmental issues to public including holding public consultations. - Assist PD in obtaining Environmental Clearance from DOE. - Review and approve environmental programs prepared by the contractors in accordance with EMP, relevant plans and JICA Environmental Guidelines. - Coordinate with DOE and other government agencies relating to the environmental management in terms of the environmental programs and activities.
M&E Expert	<ul style="list-style-type: none"> - Prepare the optimum type of monitoring & evaluation program for project implementation. - Design monitoring system based on measurable inputs, outputs and outcomes. The system shall include road traffic, market, household and bio-diversity characteristics survey. - Review the result of baseline survey and monitoring activity to be carried out by the consultants. - Periodically review monitoring activities during project implementation. - Review subproject profile including baseline data and detail design for construction works from the viewpoint of project monitoring and evaluation. - Review the inception report, progress reports, and completion report prepared by the consultants and ensure that these reports meet monitoring and evaluation requirements. - Overview implementation of measures stated in the

3. Schedule

Schedule of Training and Related Works for O&M at D/D Stage



Item	2015												2016												Leading Body
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	
Detail Design																									-----
Preparation of O&M Guideline																									Consultant, BWDB's Directorate of O&M
Training to BWDB																									Consultant, BWDB's Directorate of Staff Development
Preparation of O&M Plan for Each Sub-project																									Consultant, BWDB's PEOs, DCEOs, AEOs, EO, UAOs

Legend:  Detail design schedule as precondition  O&M related schedule

Source: JICA Survey Team

Schedule of Training and Related Works for O&M at C/S Stage

Item	2016				2017				2018				2019				2020				Leading Body				
	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F		M	A	M	J
Tendering																									---
Construction Work for Component 1																									---
Formation of WMO																									BWDB's PEOs, DCEOs, AEOs, EOs, UAOs, BWDB's Directorate of Training
Initial Training to WMO																									BWDB's PEOs, DCEOs, AEOs, EOs, UAOs
WMO's Internal Discussion for Update of O&M Plan																									Consultant, BWDB's PEOs, DCEOs, AEOs, EO, UAOs
Update of O&M Plan for Each Sub-project																									Consultant, BWDB's PEOs, DCEOs, AEOs, EO, UAOs
One Year Trial O&M Work																									BWDB's PEOs, DCEOs, AEOs, EOs, UAOs
Follow-up Training to WMO																									BWDB's PEOs, DCEOs, AEOs, EOs, UAOs

Legend:  Construction schedule as precondition  O&M related schedule

Note: Construction work will be implemented in the divided 5 cycles. The above chart show 1 cycle of them.

Source: JICA Survey Team

Appendix 10: Details of Capacity Development (Component 1-2)

1. Contents of trainings

Program Type	Contents	Trainer	Quantity
Training to BWDB sub-division officers	<ul style="list-style-type: none"> • Formation method of WMO • Preparation of O&M plan and manual for each sub-project • Monitoring of WMO's activities • Facilitation for consensus building • One year trial O&M works to be performed jointly with WMOs 	Consultant, in coordination with BWDB's Directorate of Staff Development, Office of Chief Water Management	<ul style="list-style-type: none"> • 1-day training • 14 sub-division office (including the new sub-division office in Kishoreganj division)
Initial training to WMOs	<ul style="list-style-type: none"> • Formation of WMO including preparation of scheme- specific by-laws and registration procedure of WMO • Organizational and financial management • Technical training on O&M works to be executed by WMO • Participation in update of O&M plan and manual • Awareness activities on the importance of O&M works • Precautions against public cut, thief of equipment, etc. 	BWDB's PEOs, DCEOs, AEOs, EOs, UAOs, Cooperative Dept. officers, Revenue officers, Consultant, in coordination with BWDB's Directorate of Training, Office of Chief Water Management	<ul style="list-style-type: none"> • 2-day training • 100 WMGs (including WMA members)
Follow-up training to WMOs	<ul style="list-style-type: none"> • Assessment on performance of WMO's O&M work • Solution of issues that WMO faced in the first one year of own activity 	BWDB's PEOs, DCEOs, AEOs, EOs, UAOs	<ul style="list-style-type: none"> • 1-day training • 10-15 persons (representatives) from each WMG including WMA members • 1 training for 2-3 WMGs by sub-project (30 persons in total per training) • 44 trainings in total for 100 WMGs

2. Cost estimation

Item	Unit	Unit Price	Quantity		Cost (BDT)	Remarks
			Training Days	Nos. of Group		
Training to BWDB Field Office	day	45,000	1	14	630,000	14 sub-division offices
Initial Training to WMO	day	30,000	2	100	6,000,000	100 WMGs (including WMA members)
Follow-up Training to WMO	day	30,000	1	44	1,320,000	10-15 persons (representatives) from each WMG including WMA members In the case of more than 2 WMG in 1 sub-project, 1 training for 3 WMGs (30 persons in total per training) 44 trainings in total for 100 WMGs
Total					7,950,000	