

Serial Number : C1-_____

I. General

C -1	Map Coordinate	
	Type of Structure	Road Bridge / Road Bridge with Box Culvert (C1) *
	Date of visit (member)	
Access		

II. Designed Dimension of the Bridge

Structure type	Concrete / Brick / Others ()				
Bridge length (L)	m	Bridge width (B)	m	Height (H)	m
Number of Culvert	nos	Width (b)	m	Height (h)	m

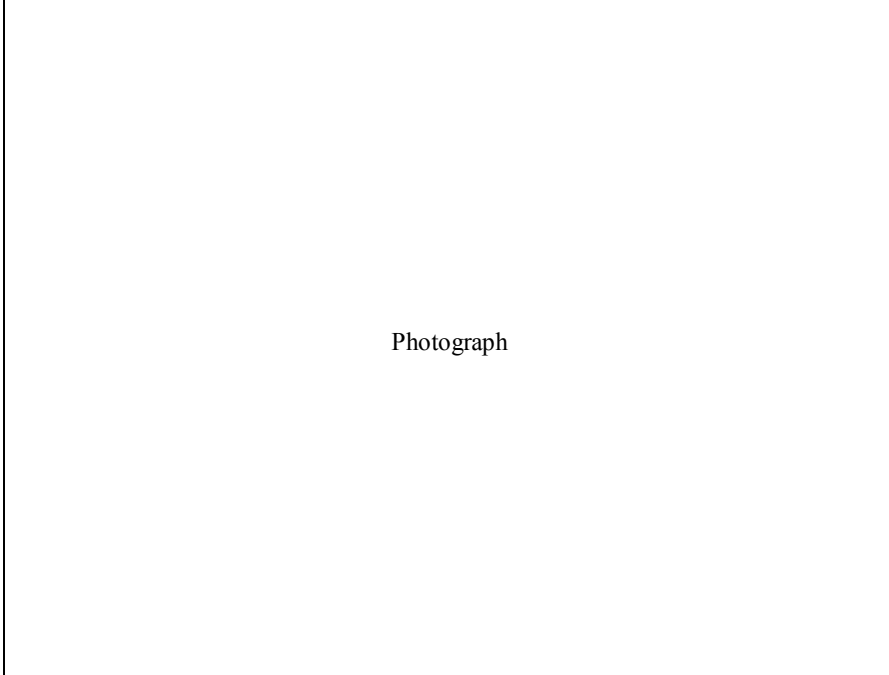
III. Problems

1. Structure	none some serious
2. Others	none some serious

IV. Evaluation

A	Fully functioning
B	Partly deteriorated, but functioning in a satisfactory range
C	Not functioning well and/or affecting the access to the adjacent areas
D	Completely not functioning

V. Photograph & Sketch

 <p>Photograph</p>		<p>Comment</p>
<p>Sketch (Plan)</p>	<p>Sketch (Profile)</p>	

* : Road bridges should have “hand rails”. If no hand rails exist, it should be categorized as “culvert”.

Serial Number : C2-_____

I. General

C -2	Coordinate	
	Type of Structure	Road Bridge with Pipe Culvert (C2) *
	Date of visit (member)	
Access		

II. Designed Dimension of the Bridge

Structure type	Concrete / Brick / Others (_____)				
Bridge length (L)	m	Bridge width (B)	m	Height (H)	m
Number of pipes	nos	Diameter (D)	m		

III. Problems

1. Structure	<input type="checkbox"/> none <input type="checkbox"/> some <input type="checkbox"/> serious	
2. Others	<input type="checkbox"/> none <input type="checkbox"/> some <input type="checkbox"/> serious	

IV. Evaluation

A	Fully functioning
B	Partly deteriorated, but functioning in a satisfactory range
C	Not functioning well and/or affecting the access to the adjacent areas
D	Completely not functioning

V. Photograph & Sketch

Photograph	Comment
Sketch (Plan)	Sketch (Profile)

* : Road bridges should have "hand rails". If no hand rails exist, it should be categorized as "culvert".

Serial Number : C - _____

I. General

C -3,4	Map Coordinate	
	Type of Structure	Cross Drain (C3) / Road Culvert (C4) *
	Date of visit (member)	
Access		

II. Designed Dimension of the Culvert

Structure	Concrete / Brick / Others ()				
Box length (L)	m	Box width (B)	m	Box height (H)	m
Pipe length (L)	m	Pipe diameter (D)	m		

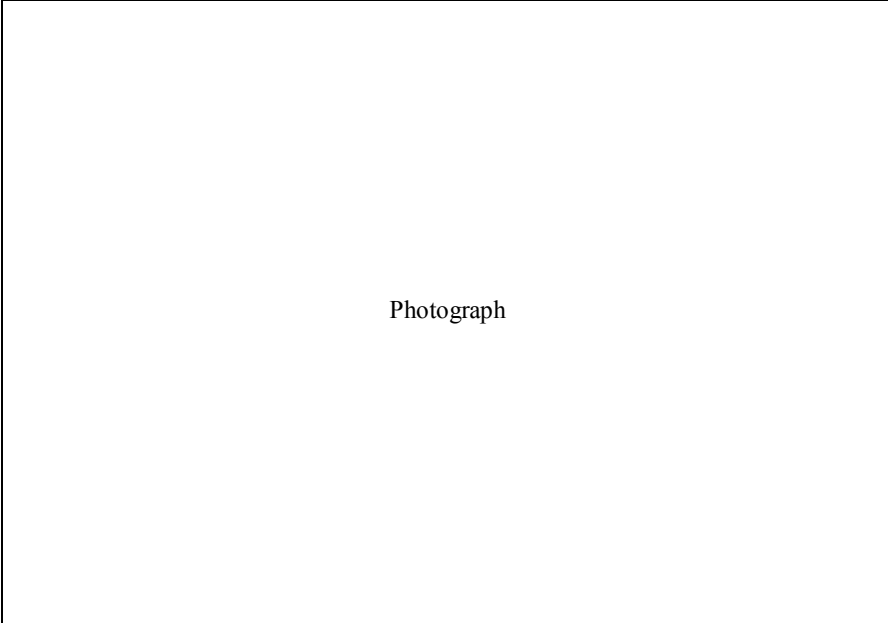
III. Problems

1. Structure	none some serious	
2. Sediment	none some serious	
3. Others	none some serious	

IV. Evaluation

A	Fully functioning
B	Partly deteriorated, but functioning in a satisfactory range
C	Not functioning well and/or affecting the downstream flow
D	Completely not functioning

V. Photograph & Sketch

 <p>Photograph</p>		<p>Comment</p>
<p>Sketch (Plan)</p>	<p>Sketch (Profile)</p>	

* : Road bridges should have "hand rails". If no hand rails exist, it should be categorized as "culvert".

Serial Number : C5-_____

I. General

C -5	Coordinate	
	Type of Structure	Control Gate for Canal (C5)
	Date of visit (member)	
Access		

II. Designed Dimension of the Bridge

Structure type	intake gate / check gate / spillway / others ()				
Gate type	stop log / slide gate / others ()				
Number of span	nos	Width of gate (B)	m	Height of gate (H)	m

III. Problems

1. Structure	<input type="checkbox"/> none <input type="checkbox"/> some <input type="checkbox"/> serious
2. Others	<input type="checkbox"/> none <input type="checkbox"/> some <input type="checkbox"/> serious

IV. Evaluation

A	Fully functioning
B	Partly deteriorated, but functioning in a satisfactory range
C	Not functioning well and/or affecting the access to the adjacent areas
D	Completely not functioning

V. Photograph & Sketch

Photograph	Comment
Sketch (Plan)	Sketch (Profile)

List of Related Personnel for the Project

For: _____ Village; _____ Commune; _____ District

Designation	Name	Phone No. or Address	
I. LINE AGENCY IN PROVINCE			
Director, DWRAM			
Director, DAFF (agriculture)			
Director, DRD (rural development)			
Director, DOE (environment)			
II. Local Administration			
Governor (Chairman of PRDC)			
Chief of District Office			
Vice Chief of District Office			
Chief of Commune			
Chief of CDC			
Chief of Village			
Chief of VDC			
Chief of FWUC			
II. Others			
Chief of Police, Province			
Chief of Police, District			
Military Commander, Province			

Note: This form should be provided to every village related to the project.

FORM-P1 IDENTIFICATION OF POND PROJECT

ID No.

1. Location

Province		District	
Commune		Village	
Sub-village			

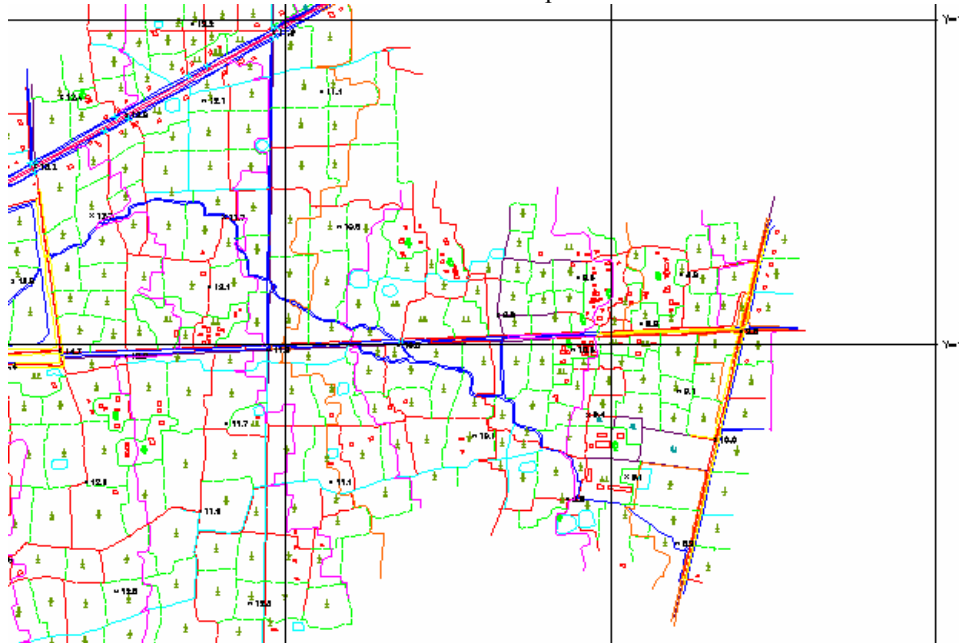
2a. Group Pond

Type of Pond	Pond in private land / Canal			Type of Project	GPS	N	E
Member Household					Land for Pond		
	Name of householder	Sex	Family(nos.)	Acreage(ha)	Owner		
1					Present landuse		
2							
3							
4							
5							
5							

2b. Individual Pond Applied by Farmers Group

Name of householder	Sex	Family (nos.)	Farm (ha)	Pond size (m x m)	Land use	Coordinate (GPS)	
1						N	E
2						N	E
3						N	E
4						N	E
5						N	E

Location Map



FORM-P2 SURVEY OF PROPOSED POND (1/3)

ID No.

1. General Plan without Scale



Blank area for drawing the general plan without scale.

ITEMS TO BE SPECIFIED ON THE ABOVE PLAN

Location of the proposed pond	Water flow to the proposed pond
Location of proposed irrigation fields by owner	Water source (canal, reservoir, drain, etc.) and distance.
Access from the main road (by car) with distance.	Location of the houses of owners
Direction of topographic slope (arrow)	Other existing and proposed ponds in the neighborhood.

2. Related Information (Check Point)

Item / Question	Finding / Answer
Q1. Can construction machines reach the proposed pond?	
Q2. How will excavated soils be treated?	
Q3. What kind of structure is needed? (fence, steps, etc.)	
Q4. Do you need pump?	
Q5. Do you use the water for purposes other than irrigation?	
Q6. What is the main crops for the irrigation by the pond?	
Q7. Is there any lands of non-members in/around the pond?	

FORM-P2 SURVEY OF PROPOSED POND (2/3)

3. Preliminary Design

ESTIMATION OF STORAGE VOLUME

X1: width of pond (m)
Y1: length of pond (m)
Z : depth of pond (m) -> 3m

Please put margins of 2 meters from the boundary of the land for the pond. (If land is 24 m x 16 m, pond will be 20 m x 12 m)

Total capacity will be....

$1.5 \times \{2 \times (X1 \times Y1) - 9 \times (X1 + Y1) + 81\} = -> \text{_____ m}^3$

Effective volume will be approximately 65 % of the total volume. $\rightarrow \text{_____ m}^3$

IRRIGATION AREA

Irrigation are for the **1st dry season crop (May~July)** will be ;

Effective volume / 250 mm (half of requirement, 50mm deducted for other water use) / 10 $\rightarrow \text{_____ ha}$

Irrigation are for the **2nd dry season crop (December ~ February)** will be ;

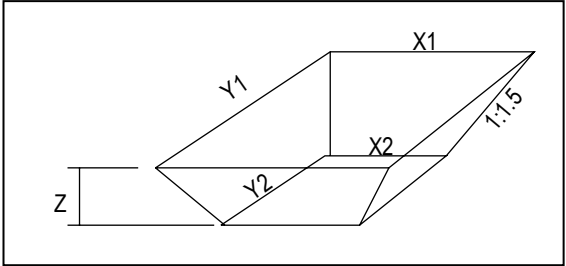
Effective volume / 550 mm (half of requirement, 50mm deducted for other water use) / 10 $\rightarrow \text{_____ ha}$

CATCHMENT AREA

A catchment area of 100 times as large as the pond area is necessary. (ex. A pond of 100 m² requires 1 ha of catchment)

How big catchment is required for the proposed pond? $\rightarrow \text{_____ ha}$.

Please specify how to collect the water to the pond (with figures)



ITEMS TO BE SPECIFIED ON THE ABOVE PLAN

Dimensions of the land for the proposed pond	Please specify present land use on the plan.
Dimensions of the existing pond. Please write estimated capacity on the plan.	Location, shape and dimensions of members' land. Please write areas on the plan.
Distance form the pond to each owner's land.	

4. Confirmation on the Project Policy

Item / Question	Answer
Member should contribute to the project either by money or labor.	Agree / disagree condition (_____)
Project will undertake; i) excavation of pond, ii) provision of material, iii) technical guidance for the construction, iv) agricultural extension.	Agree / disagree condition (_____)
Members should undertake, i) treatment of excavated material, ii) construction of field channel and other structures, iii) O&M, iv) registration of group to MOWRAM, v) coordination, resolution of problems with non-members.	Agree / disagree condition (_____)

5. Authorization

Date: _____

Group	Name:	Village	Name:	Study	Name:
Leader	Signature:	Chief	Signature:	Team	Signature:

FORM-P2 SURVEY OF PROPOSED POND (3/3)

6. Other Information

A large grid area for providing other information. The grid consists of 20 columns and 25 rows of small squares, providing a space for detailed notes or drawings.

FORM-P3 DESIGN AND COST ESTIMATE OF PROPOSED POND (1/2)

ID No.

1. Design Condition and Check List

<p>1. Size of land for the proposed pond</p>	<p>Length (m)</p>		
	<p>Width (m)</p>		
	<p>Area (m²)</p>		
<p>2. Dimension of the pond: (Specify on the drawings on the right)</p> <ul style="list-style-type: none"> ● Side slope → 1:1.5 ● Depth of pond → 3.0 m ● Embankment around the pond → width= 2.0 m, height=0.5 m 			
<p>3. Work Items</p> <ul style="list-style-type: none"> ● Preparatory works (access road, land clearing, etc) ● Earthwork for pond (excavation by machine, excavation by manpower, embankment by manpower, spreading) ● Earthwork for field channel (excavation by manpower) ● Finishing of slope, ● Sodding, ● Fencing, ● Ladder, ● Pump 			
<p>4. Other initial cost</p> <ul style="list-style-type: none"> ● Land preparation, ● Agricultural input (seed, fertilizer, etc.), ● Tools for farming, watering, etc. ● Nursery of trees, 			
<p>5. O&M cost</p> <ul style="list-style-type: none"> ● Rental charge of pump, ● Fuel for pump, ● Nursery of trees, 			

FORM-P3 DESIGN AND COST ESTIMATE OF PROPOSED POND (2/2)

ID No.

2. Calculation of Work Volume

Work Item	Unit	Quantity	Unit cost (US\$)	Total Cost (US\$)	Project	Beneficiaries
1. Preparatory works						
Access road	m ²			0		
Land clearing	m ²			0		
sub-total				0		
2. Pond construction						
(1) Earthwork						
Excavation by excavator	m ³			0		
Excavation by manpower	m ³			0		
Spreading by manpower	m ³			0		
Embankment around pond	m ³			0		
Finishing of slope	m ²			0		
(2) Sodding	m ²			0		
(3) Fencing						
Wooden pile	m			0		
Berbed wire	m			0		
(4) Collecting channel						
Excavation by manpower	m ³			0		
(5) Ladder	LS			0		
(6) Pump set						
Engine pump	no.			0		
Hose	m			0		
sub-total				0		
3. Land Preparation						
(1) Land clearing	m ²			0		
(2) Ploughing by cattle	m ²			0		
(3) Others	m ²			0		
sub-total				0		
4. Agricultural Input for						
		0.00 ha				
(1) Seed	kg			0		
(2) Fertilizer (Urea)	kg			0		
(3) Fertilizer (TSP)	kg			0		
(4) Fertilizer (K)	kg			0		
(5) Farming tools	LS			0		
sub-total				0		
5. Nursery Trees						
(1) Acasia	no.			0		
(2)	no.			0		
sub-total				0		
Total Direct Cost				0		

Project Description and Screening

1. Brief Description of Project

Outline of Project Area:	
Beneficiaries & Benefited Area:	
Relevant Main Components:	
Executing and Related Agencies:	
Environmental Agencies Concerned:	

2. Major Components of Project and Screening for Initial Evaluation

Major Components	Type		Scale and Characteristic		Screening
	New	Rehab.	Area, etc.	Characteristic	
a. Irrigation					
b. Drainage					
c. Land clearing & leveling					
d. Sea/swamp reclamation					
e. Land consolidation					
f. New land settlement					
g. Dam & reservoir					
h. Change in farming system					
i. Others					

Remark and Note:

Summarized Site Description

1. Present Socioeconomic Status of the Project Area

Land ownership and land use, etc.	
Economic activities	
Customs (water right, etc.)	
Host people or community	
Health and sanitation	
Population	
Others	

2. Natural Conditions of the Project Area

Climate	
Topography	
Hydrology and drainage	
Soil	
Forest and vegetation	
Rare species or fragile ecology	
Water quality	
Others	

3. Area under Specific Designation

Items	Applicable or Not			
	in the P.A.		Vicinity of the P.A.	
	Appl.	N.A.	Appl.	N.A.
Habitat of fauna and flora in CITES				
Wetland designated in Ramsar Convention				
Heritage sites under the World Heritage Convention				
Protected areas (National park, wildlife sanctuaries, etc.)				
Others (if any)				

Remark

P.A.: Project Area

CITES: Convention on International Trade in Endangered Species of Wild Fauna and Flora

4. Other Information

1) Socioeconomically sensitive issues

2) Naturally sensitive issues

Initial Evaluation (Social Issues)

Environmental Element	Major Comp. ^{1/}	Evaluation of the Main Components of Project ^{2/}								
		a-1	a-2	a-3	g-1	g-2	g-3	i-1	i-2	i-3
1. Socioeconomic Issues										
1) Social Issues										
	Planned agricultural settlement									
	Compulsory relocation of houses									
	Land expropriation									
	Changes in mode of living									
	Conflict among villagers									
	Immigrants, refugees and nomads									
2) Demographic Issues										
	Population increase									
	Change of population composition									
3) Economic Activities										
	Change of economic activities									
	Change of occupation and labor opportunity									
	Income disparities									
4) Institutional and Custom Related Issues										
	Water/fishing rights									
	Change of social or institutional structures									
2. Health and Sanitary Issues										
	Use of agricultural chemicals									
	Residual toxicity of agricultural chemicals									
	Water-borne diseases									
	Domestic and other wastes									
3. Cultural Property Issues										
	Historic and cultural assets									
	Aesthetic sites and landscape									

^{1/}: Major components to be examined (See Table 17.1)

^{2/}: Each applicable item is marked with the following classifications.

+/A: Upper part shows the direction of impacts and lower part shows the magnitude of impacts.

A: Relatively high magnitude of impacts is anticipated.

B: Relatively medium magnitude of impacts is anticipated.

C: Relatively low magnitude of impacts is anticipated.

X: No effect is expected.

*: No relation

+: Positive effect is expected.

-: Negative effect is anticipated.

Initial Evaluation (Natural Issues)

Environmental Element	Major Comp. ^{1/}	Evaluation of the Main Components of Project ^{2/}								
		a-1	a-2	a-3	g-1	g-2	g-3	i-1	i-2	i-3
4. Biological and Ecological Issues										
Change in vegetation										
Impacts on important or indigenous species										
Degradation of precious ecosystem										
Encroachment on wetlands										
Degradation of forest resource										
Degradation of mangrove forest										
Degradation of coral reef										
Depreciation of fisheries										
5. Soil and Land Issues										
Soil erosion and sedimentation										
Soil salinization										
Loss of soil fertility										
Soil contamination										
Land devastation or desertification										
Devastation of hinterland										
Ground subsidence										
6. Hydrology, Water Quality, etc.										
Change in surface water hydrology										
Change in groundwater hydrology										
Inundation and flood										
Riverbed degradation										
Impediment of inland navigation										
Contamination of water quality										
Eutrophication										
Low temperature water										
Atmosphere pollution										

^{1/}: Major components to be examined (See Table 17.1)

^{2/}: Each applicable item is marked with the following classifications.

+A: Upper part shows the direction of impacts and lower part shows the magnitude of impacts.

A: Relatively high magnitude of impacts is anticipated.

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